

Triggers

[Trigger \[triggers.tekton.dev/v1beta1\]](#) [TriggerTemplate \[triggers.tekton.dev/v1beta1\]](#) [EventListener \[triggers.tekton.dev/v1beta1\]](#)

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Trigger [triggers.tekton.dev/v1beta1]

Description

Trigger defines a mapping of an input event to parameters. This is used to extract information from events to be passed to TriggerTemplates within a Trigger.

Type

object

Specification

Property	Type	Description
apiVersion	string	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources

Property	Type	Description
kind	string	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
metadata	ObjectMeta	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
spec	object	Spec holds the desired state of the Trigger

.spec

Description

Spec holds the desired state of the Trigger

Type

object

Required

bindings

template

Property	Type	Description
bindings	array	
interceptors	array	
name	string	

Property	Type	Description
<code>serviceName</code>	<code>string</code>	ServiceAccountName optionally associates credentials with each trigger; Unlike EventListeners, this should be scoped to the same namespace as the Trigger itself
<code>template</code>	<code>object</code>	

`.spec.bindings`

Type

`array`

`.spec.bindings[]`

Type

`object`

Property	Type	Description
<code>apiversion</code>	<code>string</code>	APIVersion of the binding ref
<code>kind</code>	<code>string</code>	Kind can only be provided if Ref is also provided. Defaults to TriggerBinding
<code>name</code>	<code>string</code>	Name is the name of the binding param Mutually exclusive with Ref

Property	Type	Description
ref	string	Ref is a reference to a TriggerBinding kind. Mutually exclusive with Name
value	string	Value is the value of the binding param. Can contain JSONPath Has to be pointer since "" is a valid value Required if Name is also specified.

.spec.interceptors

Type

array

.spec.interceptors[]

Description

TriggerInterceptor provides a hook to intercept and pre-process events

Type

object

Required

ref

Property	Type	Description
bitbucket	object	BitbucketInterceptor provides a webhook to intercept and pre-process events

Property	Type	Description
<code>cel</code>	<code>object</code>	CELInterceptor provides a webhook to intercept and pre-process events
<code>github</code>	<code>object</code>	Deprecated old fields below
<code>gitlab</code>	<code>object</code>	GitLabInterceptor provides a webhook to intercept and pre-process events
<code>name</code>	<code>string</code>	Optional name to identify the current interceptor configuration
<code>params</code>	<code>array</code>	Params are the params to send to the interceptor
<code>ref</code>	<code>object</code>	Ref refers to the Interceptor to use
<code>webhook</code>	<code>object</code>	WebhookInterceptor refers to an old style webhook interceptor service

`.spec.interceptors[].bitbucket`

Description

BitbucketInterceptor provides a webhook to intercept and pre-process events

Type

`object`

Property	Type	Description
eventTypes	array	
secretRef	object	SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

.spec.interceptors[].bitbucket.eventTypes

Type

array

.spec.interceptors[].bitbucket.eventTypes[]

Type

string

.spec.interceptors[].bitbucket.secretRef

Description

SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

Type

object

Property	Type	Description
secretKey	string	

Property	Type	Description
secretName	string	

`.spec.interceptors[].cel`

Description

CELInterceptor provides a webhook to intercept and pre-process events

Type

object

Property	Type	Description
filter	string	
overlays	array	

`.spec.interceptors[].cel.overlays`

Type

array

`.spec.interceptors[].cel.overlays[]`

Description

CELOverlay provides a way to modify the request body using DeprecatedCEL expressions

Type

object

Property	Type	Description
expression	string	

Property	Type	Description
key	string	

`.spec.interceptors[].github`

Description

Deprecated old fields below

Type

object

Property	Type	Description
eventTypes	array	
secretRef	object	SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

`.spec.interceptors[].github.eventTypes`

Type

array

`.spec.interceptors[].github.eventTypes[]`

Type

string

`.spec.interceptors[].github.secretRef`

Description

SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

Type

object

Property	Type	Description
secretKey	string	
secretName	string	

.spec.interceptors[].gitlab

Description

GitLabInterceptor provides a webhook to intercept and pre-process events

Type

object

Property	Type	Description
eventTypes	array	
secretRef	object	SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

.spec.interceptors[].gitlab.eventTypes

Type

`array`

`.spec.interceptors[].gitlab.eventTypes[]`

Type

`string`

`.spec.interceptors[].gitlab.secretRef`

Description

SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

Type

`object`

Property	Type	Description
<code>secretKey</code>	<code>string</code>	
<code>secretName</code>	<code>string</code>	

`.spec.interceptors[].params`

Description

Params are the params to send to the interceptor

Type

`array`

`.spec.interceptors[].params[]`

Description

InterceptorParams defines a key-value pair that can be passed on an interceptor

Type

object

Required

name

value

Property	Type	Description
name	string	
value		

.spec.interceptors[].ref

Description

Ref refers to the Interceptor to use

Type

object

Property	Type	Description
apiVersion	string	API version of the referent
kind	string	InterceptorKind indicates the kind of the Interceptor, namespaced or cluster scoped.
name	string	Name of the referent; More info: http://kubernetes.io/docs/user-guide/identifiers#names

.spec.interceptors[].webhook

Description

WebhookInterceptor refers to an old style webhook interceptor service

Type

object

Property	Type	Description
header	array	Header is a group of key-value pairs that can be appended to the interceptor request headers. This allows the interceptor to make decisions specific to an EventListenerTrigger.
objectRef	object	ObjectRef is a reference to an object that will resolve to a cluster DNS name to use as the EventInterceptor. Either objectRef or url can be specified
url	string	

.spec.interceptors[].webhook.header

Description

Header is a group of key-value pairs that can be appended to the interceptor request headers. This allows the interceptor to make decisions specific to an EventListenerTrigger.

Type

array

.spec.interceptors[].webhook.header[]

Description

Param declares an ParamValues to use for the parameter called name.

Type

object

Required

name

value

Property	Type	Description
name	string	
value	object	ParamValue is a type that can hold a single string or string array. Used in JSON unmarshalling so that a single JSON field can accept either an individual string or an array of strings.

.spec.interceptors[].webhook.header[].value

Description

ParamValue is a type that can hold a single string or string array. Used in JSON unmarshalling so that a single JSON field can accept either an individual string or an array of strings.

Type

object

.spec.interceptors[].webhook.objectRef

Description

ObjectRef is a reference to an object that will resolve to a cluster DNS name to use as the EventInterceptor. Either objectRef or url can be specified

Type

object

Property	Type	Description
apiVersion	string	API version of the referent.

Property	Type	Description
<code>fieldPath</code>	<code>string</code>	<p>If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field access statement, such as <code>desiredState.manifest.containers[2]</code>. For example, if the object reference is to a container within a pod, this would take on a value like: <code>"spec.containers{name}"</code> (where "name" refers to the name of the container that triggered the event) or if no container name is specified <code>"spec.containers[2]"</code> (container with index 2 in this pod). This syntax is chosen only to have some well-defined way of referencing a part of an object.</p>
<code>kind</code>	<code>string</code>	<p>Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗</p>
<code>name</code>	<code>string</code>	<p>Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗</p>
<code>namespace</code>	<code>string</code>	<p>Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/ ↗</p>
<code>resourceVersion</code>	<code>string</code>	<p>Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/sig-</p>

Property	Type	Description
		architecture/api-conventions.md#concurrency-control-and-consistency ↗
<code>uid</code>	<code>string</code>	UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids ↗

.spec.template

Type

`object`

Property	Type	Description
<code>apiversion</code>	<code>string</code>	
<code>ref</code>	<code>string</code>	
<code>spec</code>	<code>object</code>	TriggerTemplateSpec holds the desired state of TriggerTemplate

.spec.template.spec

Description

TriggerTemplateSpec holds the desired state of TriggerTemplate

Type

`object`

Property	Type	Description
params	array	
resourcetemplates	array	

`.spec.template.spec.params`

Type

array

`.spec.template.spec.params[]`

Description

ParamSpec defines an arbitrary named input whose value can be supplied by a `Param``.

Type

object

Required

name

Property	Type	Description
default	string	Default is the value a parameter takes if no input value via a Param is supplied.
description	string	Description is a user-facing description of the parameter that may be used to populate a UI.
name	string	Name declares the name by which a parameter is referenced.

.spec.template.spec.resourcetemplates

Type

array

.spec.template.spec.resourcetemplates[]

Description

TriggerResourceTemplate describes a resource to create

Type

object

API Endpoints

The following API endpoints are available:

- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggers`
 - **DELETE** : delete collection of Trigger
 - **GET** : list objects of kind Trigger
 - **POST** : create a new Trigger
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggers/{name}`
 - **DELETE** : delete the specified Trigger
 - **GET** : read the specified Trigger
 - **PATCH** : partially update the specified Trigger
 - **PUT** : replace the specified Trigger

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggers

HTTP method

DELETE

Description

delete collection of Trigger

HTTP responses

HTTP code	Response body
200 - OK	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind Trigger

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerList</code> schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new Trigger

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing

Parameter	Type	Description
		of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<p><code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.</p>

Body parameters

Parameter	Type	Description
<code>body</code>	<code>Trigger</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>Trigger</code> schema
201 - Created	<code>Trigger</code> schema
202 - Accepted	<code>Trigger</code> schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggers/{name}

HTTP method

DELETE

Description

delete the specified Trigger

Query parameters

Parameter	Type	Description
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	Status schema
202 - Accepted	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified Trigger

HTTP responses

HTTP code	Response body
200 - OK	Trigger schema

HTTP code	Response body
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified Trigger

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>Trigger</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified Trigger

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>Trigger</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>Trigger</code> schema
201 - Created	<code>Trigger</code> schema
401 - Unauthorized	Empty

TriggerTemplate

[triggers.tekton.dev/v1beta1]

Description

TriggerTemplate takes parameters and uses them to create CRDs

Type

object

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources

Property	Type	Description
<code>kind</code>	<code>string</code>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
<code>metadata</code>	<code>ObjectMeta</code>	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
<code>spec</code>	<code>object</code>	Spec holds the desired state of the TriggerTemplate from the client
<code>status</code>	<code>object</code>	TriggerTemplateStatus describes the desired state of TriggerTemplate

.spec

Description

Spec holds the desired state of the TriggerTemplate from the client

Type

`object`

Property	Type	Description
<code>params</code>	<code>array</code>	
<code>resourcetemplates</code>	<code>array</code>	

`.spec.params`

Type

array

`.spec.params[]`

Description

ParamSpec defines an arbitrary named input whose value can be supplied by a `Param``.

Type

object

Required

name

Property	Type	Description
<code>default</code>	<code>string</code>	Default is the value a parameter takes if no input value via a Param is supplied.
<code>description</code>	<code>string</code>	Description is a user-facing description of the parameter that may be used to populate a UI.
<code>name</code>	<code>string</code>	Name declares the name by which a parameter is referenced.

`.spec.resourcetemplates`

Type

array

.spec.resourceTemplates[]

Description

TriggerResourceTemplate describes a resource to create

Type

object

.status

Description

TriggerTemplateStatus describes the desired state of TriggerTemplate

Type

object

API Endpoints

The following API endpoints are available:

- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggertemplates`
 - `DELETE` : delete collection of TriggerTemplate
 - `GET` : list objects of kind TriggerTemplate
 - `POST` : create a new TriggerTemplate
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggertemplates/{name}`
 - `DELETE` : delete the specified TriggerTemplate
 - `GET` : read the specified TriggerTemplate
 - `PATCH` : partially update the specified TriggerTemplate
 - `PUT` : replace the specified TriggerTemplate
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggertemplates/{name}/status`

- **GET** : read status of the specified TriggerTemplate
- **PATCH** : partially update status of the specified TriggerTemplate
- **PUT** : replace status of the specified TriggerTemplate

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggertemplates

HTTP method

DELETE

Description

delete collection of TriggerTemplate

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind TriggerTemplate

HTTP responses

HTTP code	Response body
200 - OK	TriggerTemplateList schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new TriggerTemplate

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>TriggerTemplate</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerTemplate</code> schema

HTTP code	Response body
201 - Created	<code>TriggerTemplate</code> schema
202 - Accepted	<code>TriggerTemplate</code> schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggertemplates/{name}

HTTP method

DELETE

Description

delete the specified TriggerTemplate

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified TriggerTemplate

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerTemplate</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified TriggerTemplate

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are

Parameter	Type	Description
		present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerTemplate</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified TriggerTemplate

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a

Parameter	Type	Description
		BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	TriggerTemplate schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	TriggerTemplate schema
201 - Created	TriggerTemplate schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggertemplates/{name}/status

HTTP method

GET

Description

read status of the specified TriggerTemplate

HTTP responses

HTTP code	Response body
200 - OK	TriggerTemplate schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified TriggerTemplate

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerTemplate</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace status of the specified TriggerTemplate

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>TriggerTemplate</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerTemplate</code> schema
201 - Created	<code>TriggerTemplate</code> schema
401 - Unauthorized	Empty

EventListener [triggers.tekton.dev/v1beta1]

Description

EventListener exposes a service to accept HTTP event payloads.

Type

object

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources
<code>kind</code>	<code>string</code>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds

Property	Type	Description
<code>metadata</code>	<code>ObjectMeta</code> ↗	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
<code>spec</code>	<code>object</code>	Spec holds the desired state of the EventListener from the client
<code>status</code>	<code>object</code>	EventListenerStatus holds the status of the EventListener

.spec

Description

Spec holds the desired state of the EventListener from the client

Type

`object`

Required

`triggers`

Property	Type	Description
<code>labelSelector</code>	<code>object</code>	A label selector is a label query over a set of resources. The result of matchLabels and matchExpressions are ANDed. An empty label selector matches all objects. A null label selector matches no objects.

Property	Type	Description
<code>namespaceSelector</code>	<code>object</code>	NamespaceSelector is a selector for selecting either all namespaces or a list of namespaces.
<code>resources</code>	<code>object</code>	
<code>serviceAccountName</code>	<code>string</code>	
<code>triggers</code>	<code>array</code>	

.spec.labelSelector

Description

A label selector is a label query over a set of resources. The result of `matchLabels` and `matchExpressions` are ANDed. An empty label selector matches all objects. A null label selector matches no objects.

Type

`object`

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	<code>matchExpressions</code> is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	<code>object</code>	<code>matchLabels</code> is a map of {key,value} pairs. A single {key,value} in the <code>matchLabels</code> map is equivalent to an element of <code>matchExpressions</code> , whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

array

.spec.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

`.spec.labelSelector.matchExpressions[].values`

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

array

`.spec.labelSelector.matchExpressions[].values[]`

Type

string

`.spec.labelSelector.matchLabels`

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

`.spec.namespaceSelector`

Description

NamespaceSelector is a selector for selecting either all namespaces or a list of namespaces.

Type

object

Property	Type	Description
<code>matchNames</code>	<code>array</code>	List of namespace names.

`.spec.namespaceSelector.matchNames`

Description

List of namespace names.

Type

`array`

`.spec.namespaceSelector.matchNames[]`

Type

`string`

`.spec.resources`

Type

`object`

Property	Type	Description
<code>customResource</code>	<code>object</code>	
<code>kubernetesResource</code>	<code>object</code>	

`.spec.resources.customResource`

Type

`object`

`.spec.resources.kubernetesResource`

Type

object

Property	Type	Description
<code>replicas</code>	<code>integer</code>	
<code>serviceType</code>	<code>string</code>	Service Type string describes ingress methods for a service
<code>spec</code>	<code>object</code>	WithPodSpec is the shell around the PodSpecable within WithPod.

`.spec.resources.kubernetesResource.spec`

Description

WithPodSpec is the shell around the PodSpecable within WithPod.

Type

object

Property	Type	Description
<code>template</code>	<code>object</code>	PodSpecable is implemented by types containing a PodTemplateSpec in the manner of ReplicaSet, Deployment, DaemonSet, StatefulSet.

`.spec.resources.kubernetesResource.spec.template`

Description

PodSpecable is implemented by types containing a PodTemplateSpec in the manner of ReplicaSet, Deployment, DaemonSet, StatefulSet.

Type

object

Property	Type	Description
metadata	ObjectMeta ↗	Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata ↗
spec	object	Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status ↗

.spec.resources.kubernetesResource.spec.template.spec

Description

Specification of the desired behavior of the pod. More info:
<https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status>

Type

object

Required

containers

Property	Type	Description
<code>activeDeadlineSeconds</code>	<code>integer</code>	Optional duration in seconds the pod may be scheduled to run before the system will actively try to terminate the pod. Value must be a positive integer.
<code>affinity</code>	<code>object</code>	If specified, the pod's scheduling constraints
<code>automountServiceAccountToken</code>	<code>boolean</code>	AutomountServiceAccountToken indicates whether the pod's service account token should be automatically mounted.
<code>containers</code>	<code>array</code>	List of containers belonging to the pod. Containers are never removed. There must be at least one container in the pod.
<code>dnsConfig</code>	<code>object</code>	Specifies the DNS parameters of a pod. Parameters defined in DNSConfig will be merged with the policy and options defined in the generated DNS configuration based on the pod's service account namespace.
<code>dnsPolicy</code>	<code>string</code>	Set DNS policy for the pod. Defaults to "ClusterFirst". Valid policies are "ClusterFirstWithHostNet", "ClusterFirst", "Default", and "None". Parameters defined in DNSConfig will be merged with the policy and options defined in the generated DNS configuration based on the pod's service account namespace. Parameters defined in DNSPolicy will be merged with the parameters defined in the generated DNS configuration based on the pod's service account namespace. Parameters defined in DNSConfig will be merged with the parameters defined in the generated DNS configuration based on the pod's service account namespace. Parameters defined in DNSPolicy will be merged with the parameters defined in the generated DNS configuration based on the pod's service account namespace. Parameters defined in DNSConfig will be merged with the parameters defined in the generated DNS configuration based on the pod's service account namespace.
<code>enableServiceLinks</code>	<code>boolean</code>	EnableServiceLinks indicates whether information about services should be injected into pod's environment variables, matching the <code>serviceName</code> using the <code>EnvFromFieldRef</code> field. Optional: Defaults to true.

Property	Type	Description
<code>ephemeralContainers</code>	<code>array</code>	List of ephemeral containers run in this pod. an existing pod to perform user-initiated actions cannot be specified when creating a pod, and the pod spec. In order to add an ephemeral container to a pod's ephemeralcontainers subresource.
<code>hostAliases</code>	<code>array</code>	HostAliases is an optional list of hosts and IP addresses to be mapped to 'localhost' on the pods' hosts file if specified. This is only valid for nodes running kubelet v1.11.0 or newer.
<code>hostIPC</code>	<code>boolean</code>	Use the host's ipc namespace. Optional: Default is false.
<code>hostNetwork</code>	<code>boolean</code>	Host networking requested for this pod. Use the host's network stack. Use this option with care. This option takes precedence over any ports in the pod spec. If this option is set, the ports that will be used must be on the host IP network.
<code>hostPID</code>	<code>boolean</code>	Use the host's pid namespace. Optional: Default is false.
<code>hostUsers</code>	<code>boolean</code>	Use the host's user namespace. Optional: Default is false. If present, the pod will be run in the host user namespace. This requires a kernel module with CAP_SYS_MODULE. WARNING: Enabling this kernel module permits a root user on the host to access the container's user namespace and perform arbitrary actions. This is a security vulnerability, so the kernel module will only be loaded if it was explicitly requested at boot time. This field is only applicable to containers created for the pod. Setting false is useful for security hardening, even allowing users to run the container with root privileges on the host. This field is only applicable to containers created on servers that enable the UserNamespacesSysctl.

Property	Type	Description
hostname	string	Specifies the hostname of the Pod. If not specified, the pod's hostname will be set to a system-defined value.
imagePullSecrets	array	ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images listed in the podSpec. More info: https://kubernetes.io/docs/concepts/containers/imagepullsecrets-on-a-pod
initContainers	array	List of initialization containers belonging to the pod. Init containers are allowed to be arbitrary, but must complete their task before any normal containers are started. If any one of the containers in the array fails to complete, the pod is considered to have failed and is handled according to its restart policy. Normal containers may not have lifecycle actions, but they may have startup probes. The resourceRequirements field is used to account during scheduling by finding the highest resource requirement across all containers, and then using the max of that value. Limits are applied to init containers in a similar manner. Init containers cannot be added or removed. Cannot be updated. https://kubernetes.io/docs/concepts/workloads/pods/init-containers/
nodeName	string	nodeName is a request to schedule this pod onto a specific node. If not specified, the scheduler will schedule this pod among the hosts that best fits resource requirements.

Property	Type	Description
nodeSelector	object	<p>NodeSelector is a selector which must be true for the pod to be scheduled on a node. NodeSelector works differently from node affinity, which must match a node's labels for the pod to be scheduled on that node. See https://kubernetes.io/docs/concepts/configuration/assign-pod-node/ for more info.</p>
os	object	<p>Specifies the OS of the containers in the pod. This field is restricted if this is set.</p> <p>If the OS field is set to linux, the following fields are restricted:</p> <ul style="list-style-type: none"> securityContext.windowsOptions <p>If the OS field is set to windows, following fields are restricted:</p> <ul style="list-style-type: none"> spec.hostPID spec.hostIPC spec.hostUsers spec.securityContext.seLinuxOptions spec.securityContext.seccompProfile spec.securityContext.fsGroup spec.securityContext.fsGroupChangePolicy spec.securityContext.sysctls spec.shareProcessNamespace spec.securityContext.runAsUser spec.securityContext.runAsGroup spec.securityContext.supplementalGroups spec.containers[*].securityContext.seLinuxOptions spec.containers[*].securityContext.seccompProfile spec.containers[*].securityContext.capabilities spec.containers[*].securityContext.readOnlyRootFilesystem spec.containers[*].securityContext.privileged

Property	Type	Description
		<ul style="list-style-type: none"> spec.containers[*].securityContext.allowF spec.containers[*].securityContext.procM spec.containers[*].securityContext.runAsI spec.containers[*].securityContext.runAsI
overhead	object	<p>Overhead represents the resource overhead given RuntimeClass. This field will be autop RuntimeClass admission controller. If the Ru enabled, overhead must not be set in Pod cr admission controller will reject Pod create re already set. If RuntimeClass is configured ar will be set to the value defined in the corres remain unset and treated as zero. More info: https://git.k8s.io/enhancements/keps/sig-noc</p>
preemptionPolicy	string	<p>PreemptionPolicy is the Policy for preemptin Never, PreemptLowerPriority. Defaults to Pre</p>
priority	integer	<p>The priority value. Various system componen the pod. When Priority Admission Controller setting this field. The admission controller pc PriorityClassName. The higher the value, the</p>
priorityClassName	string	<p>If specified, indicates the pod's priority. "syst critical" are two special keywords which indic former being the highest priority. Any other n PriorityClass object with that name. If not sp or zero if there is no default.</p>

Property	Type	Description
<code>readinessGates</code>	<code>array</code>	<p>If specified, all readiness gates will be evaluated when all its containers are ready AND all container readiness gates have status equal to "True" More info: https://git.k8s.io/enhancements/keps/sig-net</p>
<code>resourceClaims</code>	<code>array</code>	<p>ResourceClaims defines which ResourceClaims the Pod needs before the Pod is allowed to start. The resourceClaims are consumed by containers which consume them by name.</p> <p>This is an alpha field and requires enabling the <code>ResourceClaims</code> feature gate.</p> <p>This field is immutable.</p>
<code>restartPolicy</code>	<code>string</code>	<p>Restart policy for all containers within the pod. Some contexts, only a subset of those values are allowed. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle/#restart-policy</p>
<code>runtimeClassName</code>	<code>string</code>	<p>RuntimeClassName refers to a RuntimeClass object in the RuntimeClassRegistry that defines the runtime and associated infrastructure for this pod. If no RuntimeClass is present, the pod will be run with the default runtime handler. More info: https://github.com/kubernetes/api/blob/master/core/v1/pod.go#L585-runtime-class</p>
<code>schedulerName</code>	<code>string</code>	<p>If specified, the pod will be dispatched by specified scheduler. If not specified, the pod will be dispatched by default scheduler.</p>

Property	Type	Description
<code>schedulingGates</code>	<code>array</code>	<p>SchedulingGates is an opaque list of values the pod. If schedulingGates is not empty, the state and the scheduler will not attempt to sc</p> <p>SchedulingGates can only be set at pod cre: afterwards.</p> <p>This is a beta feature enabled by the PodSci</p>
<code>securityContext</code>	<code>object</code>	<p>SecurityContext holds pod-level security attr settings. Optional: Defaults to empty. See ty each field.</p>
<code>serviceAccount</code>	<code>string</code>	<p>DeprecatedServiceAccount is a deprecated Deprecated: Use serviceAccountName inste</p>
<code>serviceAccountName</code>	<code>string</code>	<p>ServiceAccountName is the name of the Ser More info: https://kubernetes.io/docs/tasks/c-service-account/</p>
<code>setHostnameAsFQDN</code>	<code>boolean</code>	<p>If true the pod's hostname will be configured leaf name (the default). In Linux containers, hostname field of the kernel (the nodename containers, this means setting the registry va HKEY_LOCAL_MACHINE\SYSTEM\Current to FQDN. If a pod does not have FQDN, this</p>

Property	Type	Description
<code>shareProcessNamespace</code>	<code>boolean</code>	Share a single process namespace between this is set containers will be able to view and containers in the same pod, and the first pro assigned PID 1. HostPID and ShareProcess Optional: Default to false.
<code>subdomain</code>	<code>string</code>	If specified, the fully qualified Pod hostname pod will not have a domainname at all.
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs decreased in delete request. Value must be indicates stop immediately via the kill signal value is nil, the default grace period will be u duration in seconds after the processes runr signal and the time when the processes are this value longer than the expected cleanup seconds.
<code>tolerations</code>	<code>array</code>	If specified, the pod's tolerations.
<code>topologySpreadConstraints</code>	<code>array</code>	TopologySpreadConstraints describes how a across topology domains. Scheduler will sch the constraints. All topologySpreadConstrain
<code>volumes</code>	<code>array</code>	List of volumes that can be mounted by cont info: https://kubernetes.io/docs/concepts/sto

.spec.resources.kubernetesResource.spec.template.spec.affinity

Description

If specified, the pod's scheduling constraints

Type

object

Property	Type	Description
<code>nodeAffinity</code>	object	Describes node affinity scheduling rules for the pod.
<code>podAffinity</code>	object	Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).
<code>podAntiAffinity</code>	object	Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity

Description

Describes node affinity scheduling rules for the pod.

Type

object

Property	Type	Description
<code>preferredDuringSchedulingIgnoredDuringExecution</code>	<code>array</code>	<p>The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, <code>requiredDuringSchedulingIgnoredDuringExecution</code> affinity expressions, etc.) compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node matches the corresponding <code>matchExpressions</code>; the node(s) with the highest sum are the most preferred.</p>
<code>requiredDuringSchedulingIgnoredDuringExecution</code>	<code>object</code>	<p>If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node.</p>

Property	Type	Description
		If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to an update), the system may or may not try to eventually evict the pod from its node.

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node matches the corresponding matchExpressions; the node(s) with the highest sum are the most preferred.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

An empty preferred scheduling term matches all objects with implicit weight 0 (i.e. it's a no-op). A null preferred scheduling term matches no objects (i.e. is also a no-op).

Type

object

Required

preference

weight

Property	Type	Description
preference	object	A node selector term, associated with the corresponding weight.
weight	integer	Weight associated with matching the corresponding nodeSelectorTerm, in the range 1-100.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference`

Description

A node selector term, associated with the corresponding weight.

Type

object

Property	Type	Description
matchExpressions	array	A list of node selector requirements by node's labels.

Property	Type	Description
<code>matchFields</code>	<code>array</code>	A list of node selector requirements by node's fields.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions`

Description

A list of node selector requirements by node's labels.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[]`

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key`

`operator`

Property	Type	Description
<code>key</code>	<code>string</code>	The label key that the selector applies to.

Property	Type	Description
<code>operator</code>	<code>string</code>	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist, Gt, and Lt.
<code>values</code>	<code>array</code>	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values`

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields`

Description

A list of node selector requirements by node's fields.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[]`

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	The label key that the selector applies to.
operator	string	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.

Property	Type	Description
<code>values</code>	<code>array</code>	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values[]

Type

`string`

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDur

ingExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to an update), the system may or may not try to eventually evict the pod from its node.

Type

object

Required

nodeSelectorTerms

Property	Type	Description
nodeSelectorTerms	array	Required. A list of node selector terms. The terms are ORed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms`

Description

Required. A list of node selector terms. The terms are ORed.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[]`

Description

A null or empty node selector term matches no objects. The requirements of them are ANDed. The TopologySelectorTerm type implements a subset of the NodeSelectorTerm.

Type

object

Property	Type	Description
matchExpressions	array	A list of node selector requirements by node's labels.
matchFields	array	A list of node selector requirements by node's fields.

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions

Description

A list of node selector requirements by node's labels.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	The label key that the selector applies to.
operator	string	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist, Gt, and Lt.
values	array	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values[]

Type

`string`

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key``operator`

Property	Type	Description
key	string	The label key that the selector applies to.
operator	string	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist, Gt, and Lt.
values	array	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDur

ingExecution.nodeSelectorTerms[].matchFields[].values[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity

Description

Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).

Type

object

Property	Type	Description
preferredDuringSchedulingIgnoredDuringExecution	array	The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringSchedulingIgnoredDuringExecution, affinity expressions, etc.), compute a sum by

Property	Type	Description
		<p>iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.</p>
<code>requiredDuringSchedulingIgnoredDuringExecution</code>	<code>array</code>	<p>If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.</p>

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution`

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, `requiredDuringScheduling` affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding `podAffinityTerm`; the node(s) with the highest sum are the most preferred.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[]`

Description

The weights of all of the matched `WeightedPodAffinityTerm` fields are added per-node to find the most preferred node(s)

Type

object

Required

`podAffinityTerm`

`weight`

Property	Type	Description
<code>podAffinityTerm</code>	<code>object</code>	Required. A pod affinity term, associated with the corresponding weight.
<code>weight</code>	<code>integer</code>	weight associated with matching the corresponding <code>podAffinityTerm</code> , in the range 1-100.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm`

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
<code>labelSelector</code>	<code>object</code>	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
<code>matchLabelKeys</code>	<code>array</code>	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with

Property	Type	Description
		<p><code>LabelSelector</code> as <code>key in (value)</code> to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both <code>MatchLabelKeys</code> and <code>LabelSelector</code>. Also, <code>MatchLabelKeys</code> cannot be set when <code>LabelSelector</code> isn't set. This is an alpha field and requires enabling <code>MatchLabelKeysInPodAffinity</code> feature gate.</p>
<p><code>mismatchLabelKeys</code></p>	<p><code>array</code></p>	<p><code>MismatchLabelKeys</code> is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with <code>LabelSelector</code> as <code>key notin (value)</code> to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both <code>MismatchLabelKeys</code> and <code>LabelSelector</code>. Also, <code>MismatchLabelKeys</code> cannot be set when <code>LabelSelector</code> isn't set. This is an alpha field and requires enabling <code>MatchLabelKeysInPodAffinity</code> feature gate.</p>
<p><code>namespaceSelector</code></p>	<p><code>object</code></p>	<p>A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the <code>namespaces</code> field. null selector and null or empty namespaces list means "this pod's</p>

Property	Type	Description
		namespace". An empty selector ({} matches all namespaces.
namespaces	array	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
topologyKey	string	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

object

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	<code>matchExpressions</code> is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	<code>object</code>	<code>matchLabels</code> is a map of {key,value} pairs. A single {key,value} in the <code>matchLabels</code> map is equivalent to an element of <code>matchExpressions</code> , whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions`

Description

`matchExpressions` is a list of label selector requirements. The requirements are ANDed.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]`

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `LabelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. Also, MatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `LabelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MismatchLabelKeys and LabelSelector. Also, MismatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

object

Property	Type	Description
matchExpressions	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.
matchLabels	object	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
<code>values</code>	<code>array</code>	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values`

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]`

ngExecution[].podAffinityTerm.namespaceSelector.match Labels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

.spec.resources.kubernetesResource.spec.template.spec. affinity.podAffinity.preferredDuringSchedulingIgnoredDuri ngExecution[].podAffinityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

array

.spec.resources.kubernetesResource.spec.template.spec. affinity.podAffinity.preferredDuringSchedulingIgnoredDuri ngExecution[].podAffinityTerm.namespaces[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec. affinity.podAffinity.requiredDuringSchedulingIgnoredDuri

ngExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[]`

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

object

Required

topologyKey

Property	Type	Description
labelSelector	object	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Property	Type	Description
<code>matchLabelKeys</code>	<code>array</code>	<p>MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with <code>LabelSelector</code> as <code>key in (value)</code> to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. Also, MatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.</p>
<code>mismatchLabelKeys</code>	<code>array</code>	<p>MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with <code>LabelSelector</code> as <code>key notin (value)</code> to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MismatchLabelKeys and LabelSelector. Also, MismatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.</p>

Property	Type	Description
<code>namespaceSelector</code>	<code>object</code>	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({} matches all namespaces.
<code>namespaces</code>	<code>array</code>	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
<code>topologyKey</code>	<code>string</code>	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector`

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

object

Property	Type	Description
matchExpressions	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.
matchLabels	object	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `LabelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. Also, MatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `LabelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MismatchLabelKeys and LabelSelector. Also, MismatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector`

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

object

Property	Type	Description
<code>matchExpressions</code>	array	<code>matchExpressions</code> is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	object	<code>matchLabels</code> is a map of {key,value} pairs. A single {key,value} in the <code>matchLabels</code> map is equivalent to an element of <code>matchExpressions</code> , whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions`

Description

`matchExpressions` is a list of label selector requirements. The requirements are ANDed.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

`ngExecution[].namespaceSelector.matchExpressions[].values`

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels`

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces`

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity`

Description

Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

Type

object

Property	Type	Description
<code>preferredDuringSchedulingIgnoredDuringExecution</code>	<code>array</code>	<p>The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, <code>requiredDuringSchedulingIgnoredDuringExecution</code>, anti-affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding <code>podAffinityTerm</code>; the node(s) with the highest sum are the most preferred.</p>
<code>requiredDuringSchedulingIgnoredDuringExecution</code>	<code>array</code>	<p>If the anti-affinity requirements specified by this field are not met at scheduling time, the pod</p>

Property	Type	Description
		will not be scheduled onto the node. If the anti-affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling anti-affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[]`

Description

The weights of all of the matched `WeightedPodAffinityTerm` fields are added per-node to find the most preferred node(s)

Type

object

Required

podAffinityTerm

weight

Property	Type	Description
podAffinityTerm	object	Required. A pod affinity term, associated with the corresponding weight.
weight	integer	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm`

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
<code>labelSelector</code>	<code>object</code>	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
<code>matchLabelKeys</code>	<code>array</code>	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with <code>LabelSelector</code> as <code>key in (value)</code> to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. Also, MatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.
<code>mismatchLabelKeys</code>	<code>array</code>	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with <code>LabelSelector</code> as <code>key notin (value)</code> to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels

Property	Type	Description
		will be ignored. The default value is empty. The same key is forbidden to exist in both MismatchLabelKeys and LabelSelector. Also, MismatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.
namespaceSelector	object	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({} matches all namespaces.
namespaces	array	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
topologyKey	string	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector`

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

object

Property	Type	Description
<code>matchExpressions</code>	array	<code>matchExpressions</code> is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	object	<code>matchLabels</code> is a map of {key,value} pairs. A single {key,value} in the <code>matchLabels</code> map is equivalent to an element of <code>matchExpressions</code> , whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions`

Description

`matchExpressions` is a list of label selector requirements. The requirements are ANDed.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]`

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key``operator`

Property	Type	Description
<code>key</code>	<code>string</code>	key is the label key that the selector applies to.
<code>operator</code>	<code>string</code>	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
<code>values</code>	<code>array</code>	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys`

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `LabelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. Also, MatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys`

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-

value labels are merged with `LabelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MismatchLabelKeys and LabelSelector. Also, MismatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

object

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	<code>matchExpressions</code> is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	<code>object</code>	<code>matchLabels</code> is a map of {key,value} pairs. A single {key,value} in the <code>matchLabels</code> map is equivalent to an element of <code>matchExpressions</code> , whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions`

Description

`matchExpressions` is a list of label selector requirements. The requirements are ANDed.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]`

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the anti-affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the anti-affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

object

Required

topologyKey

Property	Type	Description
<code>labelSelector</code>	object	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
<code>matchLabelKeys</code>	array	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with <code>LabelSelector</code> as <code>key in (value)</code> to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. Also, MatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.
<code>mismatchLabelKeys</code>	array	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with <code>LabelSelector</code> as <code>key not in (value)</code> to select the group of existing pods which pods will be taken

Property	Type	Description
		into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MismatchLabelKeys and LabelSelector. Also, MismatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.
<code>namespaceSelector</code>	<code>object</code>	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({} matches all namespaces.
<code>namespaces</code>	<code>array</code>	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
<code>topologyKey</code>	<code>string</code>	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the <code>labelSelector</code> in the specified namespaces, where co-located is defined as running on a node whose value of the label with key <code>topologyKey</code> matches that of any node on which any of the selected pods is running. Empty <code>topologyKey</code> is not allowed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector`

Description

A label query over a set of resources, in this case pods. If it's null, this `PodAffinityTerm` matches with no Pods.

Type

`object`

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	<code>matchExpressions</code> is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	<code>object</code>	<code>matchLabels</code> is a map of {key,value} pairs. A single {key,value} in the <code>matchLabels</code> map is equivalent to an element of <code>matchExpressions</code> , whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions`

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]`

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnored

DuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `LabelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. Also, MatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys`

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `LabelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both MismatchLabelKeys and LabelSelector. Also, MismatchLabelKeys cannot be set when LabelSelector isn't set. This is an alpha field and requires enabling MatchLabelKeysInPodAffinity feature gate.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector`

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

object

Property	Type	Description
<code>matchExpressions</code>	array	<code>matchExpressions</code> is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	object	<code>matchLabels</code> is a map of {key,value} pairs. A single {key,value} in the <code>matchLabels</code> map is equivalent to an element of <code>matchExpressions</code> , whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions`

Description

`matchExpressions` is a list of label selector requirements. The requirements are ANDed.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]`

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[.values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.resources.kubernetesResource.spec.template.spec.containers

Description

List of containers belonging to the pod. Containers cannot currently be added or removed. There must be at least one container in a Pod. Cannot be updated.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.containers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
args	array	Arguments to the entrypoint. The container image's ENTRYPOINT is used if this is not provided. Variable references <code>\$(VAR_NAME)</code> are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code> , which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>"\$(VAR_NAME)"</code> will produce the string literal <code>"\$(VAR_NAME)"</code> . Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell
command	array	Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references <code>\$(VAR_NAME)</code> are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code> , which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>"\$(VAR_NAME)"</code> will produce the string literal <code>"\$(VAR_NAME)"</code> . Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell
env	array	List of environment variables to set in the container. The container image's ENVIRONMENT is used if this is not provided. Cannot be updated.
envFrom	array	List of sources to populate environment variables in the container. The keys defined within a source must match the container's environment.

Property	Type	Description
		C_IDENTIFIER. All invalid keys will be reported as when the container is starting. When a key exists i sources, the value associated with the last source precedence. Values defined by an Env with a dupl take precedence. Cannot be updated.
image	string	Container image name. More info: https://kubernetes.io/docs/concepts/containers/image field is optional to allow higher level config manage default or override container images in workload c Deployments and StatefulSets.
imagePullPolicy	string	Image pull policy. One of Always, Never, IfNotPres to Always if :latest tag is specified, or IfNotPresent Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/image-images
lifecycle	object	Actions that the management system should take container lifecycle events. Cannot be updated.
livenessProbe	object	Periodic probe of container liveness. Container wil the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/poc-lifecycle#container-probes
name	string	Name of the container specified as a DNS_LABEL container in a pod must have a unique name (DNS

Property	Type	Description
		Cannot be updated.
ports	array	<p>List of ports to expose from the container. Not specifying here DOES NOT prevent that port from being exposed which is listening on the default "0.0.0.0" address if the container will be accessible from the network. Modifying an array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/17107</p> <p>Cannot be updated.</p>
readinessProbe	object	<p>Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails.</p> <p>Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes</p>
resizePolicy	array	Resources resize policy for the container.
resources	object	<p>Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/resource-limits#resources-containers/</p>
restartPolicy	string	<p>RestartPolicy defines the restart behavior of individual containers in a pod. This field may only be set for init containers and the only allowed value is "Always". For non-init containers if this field is not specified, the restart behavior is defined by the Pod's restart policy and if the container is terminated by a signal, the container is not restarted.</p>

Property	Type	Description
		Pod's restart policy and the container type. Setting RestartPolicy as "Always" for the init container will following effect: this init container will be continually exit until all regular containers have terminated. Once containers have completed, all init containers with "Always" will be shut down. This lifecycle differs from regular containers and is often referred to as a "sidecar" container. Although this init container still starts in the init container sequence, it does not wait for the container to complete before proceeding to the next init container. Instead, the regular container starts immediately after this init container after any startupProbe has successfully completed.
<code>securityContext</code>	<code>object</code>	SecurityContext defines the security options the container can be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info https://kubernetes.io/docs/tasks/configure-pod-container/security-context/
<code>startupProbe</code>	<code>object</code>	StartupProbe indicates that the Pod has successfully started. If specified, no other probes are executed until this probe successfully. If this probe fails, the Pod will be restarted if the livenessProbe failed. This can be used to provide probe parameters at the beginning of a Pod's lifecycle. A probe might take a long time to load data or warm a cache before reaching steady-state operation. This cannot be updated. More info https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes
<code>stdin</code>	<code>boolean</code>	Whether this container should allocate a buffer for stdin data at container runtime. If this is not set, reads from stdin will not allocate a buffer.

Property	Type	Description
		container will always result in EOF. Default is false
<code>stdinOnce</code>	<code>boolean</code>	Whether the container runtime should close the stdin stream after it has been opened by a single attach. When the stdin stream will remain open across multiple attach sessions. If <code>stdinOnce</code> is set to true, stdin is opened once at start, is empty until the first client attaches to stdin, remains open and accepts data until the client disconnects, at which time stdin is closed and remains closed until the container is restarted. If this flag is false, a container process that starts with a pty will never receive an EOF. Default is false
<code>terminationMessagePath</code>	<code>string</code>	Optional: Path at which the file to which the container termination message will be written is mounted into the container's filesystem. Message written is intended to be consumed by a user-defined process on the host. Must be of length < 4096 bytes. Default is /dev/termination-log, which requires mount access for the container to write to and may not be available in all container images. The container runtime will truncate the message if greater than 4096 bytes. The total message length across all containers will be limited by the runtime. Defaults to /dev/termination-log. Cannot be updated.
<code>terminationMessagePolicy</code>	<code>string</code>	Indicate how the termination message should be populated. <code>File</code> will use the contents of <code>terminationMessagePath</code> to populate the container status message on both success and failure. <code>FallbackToLogsOnError</code> will use the last chunk of container output if the termination message file is empty and the container exited with an error. The log output is limited to 2048 bytes or 20 lines, whichever is smaller. Defaults to <code>File</code> . Cannot be updated.

Property	Type	Description
<code>tty</code>	<code>boolean</code>	Whether this container should allocate a TTY for it requires 'stdin' to be true. Default is false.
<code>volumeDevices</code>	<code>array</code>	volumeDevices is the list of block devices to be used in the container.
<code>volumeMounts</code>	<code>array</code>	Pod volumes to mount into the container's filesystem. Updated.
<code>workingDir</code>	<code>string</code>	Container's working directory. If not specified, the container runtime's default will be used, which might be configured for a container image. Cannot be updated.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].args`

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references `$(VAR_NAME)` are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double `$$` are reduced to a single `$`, which allows for escaping the `$(VAR_NAME)` syntax: i.e. `$$$(VAR_NAME)` will produce the string literal `$(VAR_NAME)`. Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: <https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell>

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.containers[].args[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.containers[].command`

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references `$(VAR_NAME)` are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double `$$` are reduced to a single `$`, which allows for escaping the `$(VAR_NAME)` syntax: i.e. `$$$(VAR_NAME)` will produce the string literal `$(VAR_NAME)`. Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: <https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell>

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].command[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.containers[].env`

Description

List of environment variables to set in the container. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].env[]`

Description

EnvVar represents an environment variable present in a Container.

Type

object

Required

name

Property	Type	Description
name	string	Name of the environment variable. Must be a C_IDENTIFIER.
value	string	Variable references \$(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double \$\$ are reduced to a single \$, which allows for escaping the \$(VAR_NAME) syntax: i.e. "\$\$(VAR_NAME)" will produce the string literal "\$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
valueFrom	object	Source for the environment variable's value. Cannot be used if value is not empty.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].env[].valueFrom`

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

object

Property	Type	Description
<code>configMapKeyRef</code>	object	Selects a key of a ConfigMap.
<code>fieldRef</code>	object	Selects a field of the pod: supports metadata.name, metadata.namespace, <code>metadata.labels['<KEY>']</code> , <code>metadata.annotations['<KEY>']</code> , spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
<code>resourceFieldRef</code>	object	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
<code>secretKeyRef</code>	object	Selects a key of a secret in the pod's namespace

`.spec.resources.kubernetesResource.spec.template.spec.containers[].env[].valueFrom.configMapKeyRef`

Description

Selects a key of a ConfigMap.

Type

object

Required

key

Property	Type	Description
key	string	The key to select.
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
optional	boolean	Specify whether the ConfigMap or its key must be defined

`.spec.resources.kubernetesResource.spec.template.spec.containers[].env[].valueFrom.fieldRef`

Description

Selects a field of the pod: supports `metadata.name`, `metadata.namespace`, ``metadata.labels[<KEY>]``, ``metadata.annotations[<KEY>]``, `spec.nodeName`, `spec.serviceAccountName`, `status.hostIP`, `status.podIP`, `status.podIPs`.

Type

object

Required

fieldPath

Property	Type	Description
apiVersion	string	Version of the schema the FieldPath is written in terms of, defaults to "v1".
fieldPath	string	Path of the field to select in the specified API version.

.spec.resources.kubernetesResource.spec.template.spec.containers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

object

Required

resource

Property	Type	Description
containerName	string	Container name: required for volumes, optional for env vars
divisor		Specifies the output format of the exposed resources, defaults to "1"

Property	Type	Description
resource	string	Required: resource to select

`.spec.resources.kubernetesResource.spec.template.spec.containers[].env[].valueFrom.secretKeyRef`

Description

Selects a key of a secret in the pod's namespace

Type

object

Required

key

Property	Type	Description
key	string	The key of the secret to select from. Must be a valid secret key.
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
optional	boolean	Specify whether the Secret or its key must be defined

`.spec.resources.kubernetesResource.spec.template.spec.containers[].envFrom`

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].envFrom[]`

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

object

Property	Type	Description
<code>configMapRef</code>	<code>object</code>	The ConfigMap to select from
<code>prefix</code>	<code>string</code>	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
<code>secretRef</code>	<code>object</code>	The Secret to select from

`.spec.resources.kubernetesResource.spec.template.spec.containers[].envFrom[].configMapRef`

Description

The ConfigMap to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
optional	boolean	Specify whether the ConfigMap must be defined

`.spec.resources.kubernetesResource.spec.template.spec.containers[].envFrom[].secretRef`

Description

The Secret to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
optional	boolean	Specify whether the Secret must be defined

.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events.
Cannot be updated.

Type

object

Property	Type	Description
postStart	object	<p>PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks</p>
preStop	object	<p>PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks</p>

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart`

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info:

<https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks>

Type

object

Property	Type	Description
<code>exec</code>	object	Exec specifies the action to take.
<code>httpGet</code>	object	HTTPGet specifies the http request to perform.
<code>sleep</code>	object	Sleep represents the duration that the container should sleep before being terminated.
<code>tcpSocket</code>	object	Deprecated. TCP socket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart.exec`

Description

Exec specifies the action to take.

Type

object

Property	Type	Description
command	array	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart.exec.command[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart.sleep`

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

object

Required

seconds

Property	Type	Description
seconds	integer	Seconds is the number of seconds to sleep.

.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
port	integer	Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop`

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info:

<https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks>

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.
httpGet	object	HTTPGet specifies the http request to perform.
sleep	object	Sleep represents the duration that the container should sleep before being terminated.

Property	Type	Description
tcpSocket	object	Deprecated. TCP Socket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop.exec`

Description

Exec specifies the action to take.

Type

object

Property	Type	Description
command	array	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not

run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop.exec.command[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
<code>host</code>	<code>string</code>	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.

Property	Type	Description
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

object

Required

seconds

Property	Type	Description
seconds	integer	Seconds is the number of seconds to sleep.

.spec.resources.kubernetesResource.spec.template.spec.containers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.
port		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: <https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes>

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.
failureThreshold	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. D

Property	Type	Description
		Minimum value is 1.
<code>grpc</code>	<code>object</code>	GRPC specifies an action involving a GRPC
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. Default is 1. Must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCP socket specifies an action involving a TCP port
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully terminate upon probe failure. The grace period is the duration in seconds after the processes running in the pod are sent a termination signal and the time when the processes are forcibly halted with a kill signal. It specifies that the container managed liveness probes (and startup probes) are not executed during the termination grace period. If not specified, the default value is 30 seconds. Value longer than the expected cleanup time for the pod is not allowed.

Property	Type	Description
		process. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes

`.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe.exec`

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to the shell (e.g. <code>bash</code> or <code>sh</code>), so things like <code>cd /etc/passwd</code> won't work.

Property	Type	Description
		shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe.exec.command[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe.grpc`

Description

GRPC specifies an action involving a GRPC port.

Type

object

Required

port

Property	Type	Description
port	integer	Port number of the gRPC service. Number must be in the range 1 to 65535.
service	string	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>	<code>int</code>	Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

.spec.resources.kubernetesResource.spec.template.spec.containers[].livenessProbe.tcpSocket

Description

TCP socket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.
port		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].ports`

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See <https://github.com/kubernetes/kubernetes/issues/108255>. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].ports[]`

Description

ContainerPort represents a network port in a single container.

Type

object

Required

containerPort

Property	Type	Description
<code>containerPort</code>	<code>integer</code>	Number of port to expose on the pod's IP address. This must be a valid port number, $0 < x < 65536$.
<code>hostIP</code>	<code>string</code>	What host IP to bind the external port to.

Property	Type	Description
hostPort	integer	Number of port to expose on the host. If specified, this must be a valid port number, $0 < x < 65536$. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
name	string	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
protocol	string	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe`

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info:

<https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes>

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.

Property	Type	Description
<code>failureThreshold</code>	<code>integer</code>	Minimum consecutive failures for the probe to be considered failed after having succeeded. Default value is 3. Minimum value is 1.
<code>grpc</code>	<code>object</code>	GRPC specifies an action involving a GRPC
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. Default is 1. Must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCP socket specifies an action involving a TCP
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully terminate upon probe failure. The grace period is the duration in seconds after the processes running in the pod are sent a SIGTERM and the pod is scheduled for deletion by the kubelet.

Property	Type	Description
		<p>pod are sent a termination signal and the timer processes are forcibly halted with a kill signal value longer than the expected cleanup time process. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used.</p>
timeoutSeconds	integer	<p>Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes</p>

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe.exec`

Description

Exec specifies the action to take.

Type

object

Property	Type	Description
command	array	<p>Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's</p>

Property	Type	Description
		filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('!', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('!', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe.exec.command[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe.grpc`

Description

GRPC specifies an action involving a GRPC port.

Type

`object`**Required**`port`

Property	Type	Description
<code>port</code>	<code>integer</code>	Port number of the gRPC service. Number must be in the range 1 to 65535.
<code>service</code>	<code>string</code>	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe.httpGet`**Description**

HTTPGet specifies the http request to perform.

Type`object`**Required**`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.containers[].readinessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
<code>port</code>		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].resizePolicy`

Description

Resources resize policy for the container.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.containers[].resizePolicy[]`

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName`

`restartPolicy`

Property	Type	Description
<code>resourceName</code>	<code>string</code>	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
<code>restartPolicy</code>	<code>string</code>	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].resources`

Description

Compute Resources required by this container. Cannot be updated. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

`object`

Property	Type	Description
<code>claims</code>	<code>array</code>	<p>Claims lists the names of resources, defined in <code>spec.resourceClaims</code>, that are used by this container.</p> <p>This is an alpha field and requires enabling the <code>DynamicResourceAllocation</code> feature gate.</p> <p>This field is immutable. It can only be set for containers.</p>
<code>limits</code>	<code>object</code>	<p>Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/</p>

Property	Type	Description
requests	object	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

`.spec.resources.kubernetesResource.spec.template.spec.containers[].resources.claims`

Description

Claims lists the names of resources, defined in `spec.resourceClaims`, that are used by this container. This is an alpha field and requires enabling the `DynamicResourceAllocation` feature gate. This field is immutable. It can only be set for containers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].resources.claims[]`

Description

ResourceClaim references one entry in `PodSpec.ResourceClaims`.

Type

object

Required

name

Property	Type	Description
name	string	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.

.spec.resources.kubernetesResource.spec.template.spec.containers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

.spec.resources.kubernetesResource.spec.template.spec.containers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: <https://kubernetes.io/docs/tasks/configure-pod-container/security-context/>

Type

object

Property	Type	Description
<code>allowPrivilegeEscalation</code>	<code>boolean</code>	<p>AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the <code>no_new_privs</code> flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is:</p> <ol style="list-style-type: none">run as Privilegedhas <code>CAP_SYS_ADMIN</code> Note that this field cannot be set when <code>spec.os.name</code> is windows.
<code>capabilities</code>	<code>object</code>	<p>The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>privileged</code>	<code>boolean</code>	<p>Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>

Property	Type	Description
<code>procMount</code>	<code>string</code>	<p><code>procMount</code> denotes the type of proc mount to use for the containers. The default is <code>DefaultProcMount</code> which uses the container runtime defaults for readonly paths and masked paths. This requires the <code>ProcMountType</code> feature flag to be enabled. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>readOnlyRootFilesystem</code>	<code>boolean</code>	<p>Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>runAsGroup</code>	<code>integer</code>	<p>The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in <code>PodSecurityContext</code>. If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code>, the value specified in <code>SecurityContext</code> takes precedence. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>runAsNonRoot</code>	<code>boolean</code>	<p>Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in <code>PodSecurityContext</code>. If set in</p>

Property	Type	Description
		both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
runAsUser	integer	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
seLinuxOptions	object	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
seccompProfile	object	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Property	Type	Description
<code>windowsOptions</code>	<code>object</code>	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when <code>spec.os.name</code> is <code>linux</code> .

`.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext.capabilities`

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when `spec.os.name` is `windows`.

Type

`object`

Property	Type	Description
<code>add</code>	<code>array</code>	Added capabilities
<code>drop</code>	<code>array</code>	Removed capabilities

`.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext.capabilities.add`

Description

Added capabilities

Type

array

.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

string

.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

array

.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext.seLinuxOptions`

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when `spec.os.name` is windows.

Type

object

Property	Type	Description
<code>level</code>	<code>string</code>	Level is SELinux level label that applies to the container.
<code>role</code>	<code>string</code>	Role is a SELinux role label that applies to the container.
<code>type</code>	<code>string</code>	Type is a SELinux type label that applies to the container.
<code>user</code>	<code>string</code>	User is a SELinux user label that applies to the container.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext.seccompProfile`

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when `spec.os.name` is windows.

Type

object

Required

type

Property	Type	Description
localhostProfile	string	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
type	string	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].securityContext.windowsOptions`

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when `spec.os.name` is linux.

Type

object

Property	Type	Description
<code>gmsaCredentialSpec</code>	<code>string</code>	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa) inlines the contents of the GMSA credential spec named by the <code>GMSACredentialSpecName</code> field.
<code>gmsaCredentialSpecName</code>	<code>string</code>	<code>GMSACredentialSpecName</code> is the name of the GMSA credential spec to use.
<code>hostProcess</code>	<code>boolean</code>	<code>HostProcess</code> determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective <code>HostProcess</code> value (it is not allowed to have a mix of <code>HostProcess</code> containers and non- <code>HostProcess</code> containers). In addition, if <code>HostProcess</code> is true then <code>HostNetwork</code> must also be set to true.
<code>runAsUserName</code>	<code>string</code>	The <code>UserName</code> in Windows to run the endpoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in <code>PodSecurityContext</code> . If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code> , the value specified in <code>SecurityContext</code> takes precedence.

.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info:

<https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes>

Type

object

Property	Type	Description
<code>exec</code>	object	Exec specifies the action to take.
<code>failureThreshold</code>	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Default value is 3. Minimum value is 1.
<code>grpc</code>	object	GRPC specifies an action involving a GRPC
<code>httpGet</code>	object	HTTPGet specifies the http request to perform

Property	Type	Description
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. Default is 1. Must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port.

Property	Type	Description
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs gracefully upon probe failure. The grace period duration in seconds after the processes running pod are sent a termination signal and the remaining processes are forcibly halted with a kill signal. Value longer than the expected cleanup time process. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature that requires enabling ProbeTerminationGracePeriod. Minimum value is 1. <code>spec.terminationGracePeriodSeconds</code> is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. More info: https://kubernetes.io/docs/concepts/workload-lifecycle#container-probes

`.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe.exec`

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe.exec.command[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe.grpc`

Description

GRPC specifies an action involving a GRPC port.

Type

object

Required

port

Property	Type	Description
port	integer	Port number of the gRPC service. Number must be in the range 1 to 65535.
service	string	<p>Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗).</p> <p>If this is not specified, the default behavior is defined by gRPC.</p>

`.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.containers[].startupProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
<code>port</code>		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.containers[].volumeDevices`

Description

`volumeDevices` is the list of block devices to be used by the container.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.containers[].volumeDevices[]`

Description

`volumeDevice` describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath`

`name`

Property	Type	Description
<code>devicePath</code>	<code>string</code>	<code>devicePath</code> is the path inside of the container that the device will be mapped to.

Property	Type	Description
name	string	name must match the name of a persistentVolumeClaim in the pod

`.spec.resources.kubernetesResource.spec.template.spec.containers[].volumeMounts`

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.containers[].volumeMounts[]`

Description

VolumeMount describes a mounting of a Volume within a container.

Type

object

Required

mountPath

name

Property	Type	Description
mountPath	string	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
<code>mountPropagation</code>	<code>string</code>	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10.
<code>name</code>	<code>string</code>	This must match the Name of a Volume.
<code>readOnly</code>	<code>boolean</code>	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
<code>subPath</code>	<code>string</code>	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
<code>subPathExpr</code>	<code>string</code>	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references \$(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

`.spec.resources.kubernetesResource.spec.template.spec.dnsConfig`

Description

Specifies the DNS parameters of a pod. Parameters specified here will be merged to the generated DNS configuration based on DNSPolicy.

Type

object

Property	Type	Description
<code>nameservers</code>	array	A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.
<code>options</code>	array	A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.
<code>searches</code>	array	A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

`.spec.resources.kubernetesResource.spec.template.spec.dnsConfig.nameservers`

Description

A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.dnsConfig.nameservers[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.dnsConfig.options`

Description

A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.dnsConfig.options[]`

Description

PodDNSConfigOption defines DNS resolver options of a pod.

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Required.
<code>value</code>	<code>string</code>	

`.spec.resources.kubernetesResource.spec.template.spec.dnsConfig.searches`

Description

A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.dnsConfig.searches[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers`

Description

List of ephemeral containers run in this pod. Ephemeral containers may be run in an existing pod to perform user-initiated actions such as debugging. This list cannot be specified when creating a pod, and it cannot be modified by updating the pod spec. In order to add an ephemeral container to an existing pod, use the pod's ephemeralcontainers subresource.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[]`

Description

An EphemeralContainer is a temporary container that you may add to an existing Pod for user-initiated activities such as debugging. Ephemeral containers have no resource or scheduling guarantees, and they will not be restarted when they exit or when a Pod is removed or restarted. The kubelet may evict a Pod if an ephemeral container causes the Pod to exceed its resource allocation. To add an ephemeral container, use the ephemeralcontainers subresource of an existing Pod. Ephemeral containers may not be removed or restarted.

Type

object

Required

name

Property	Type	Description
args	array	Arguments to the entrypoint. The image's CMD is used if this is not provided. Variable references \$(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double \$\$ are reduced to a single \$, which allows for escaping the \$(VAR_NAME) syntax: i.e. "\$\$(VAR_NAME)" will produce the string literal "\$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell
command	array	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provided. Variable references \$(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double \$\$ are reduced to a single \$, which allows for escaping the \$(VAR_NAME) syntax: i.e. "\$\$(VAR_NAME)" will produce the string literal "\$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Property	Type	Description
		whether the variable exists or not. Cannot be updated. https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell
env	array	List of environment variables to set in the container when it is updated.
envFrom	array	List of sources to populate environment variables in the container. The keys defined within a source must be unique. The keys must be in the format C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.
image	string	Container image name. More info: https://kubernetes.io/docs/concepts/containers/images
imagePullPolicy	string	Image pull policy. One of Always, Never, IfNotPresent. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise. Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/images
lifecycle	object	Lifecycle is not allowed for ephemeral containers.

Property	Type	Description
<code>livenessProbe</code>	<code>object</code>	Probes are not allowed for ephemeral containers.
<code>name</code>	<code>string</code>	Name of the ephemeral container specified as a <code>DisplayName</code> . This name must be unique among all containers, including ephemeral containers.
<code>ports</code>	<code>array</code>	Ports are not allowed for ephemeral containers.
<code>readinessProbe</code>	<code>object</code>	Probes are not allowed for ephemeral containers.
<code>resizePolicy</code>	<code>array</code>	Resources resize policy for the container.
<code>resources</code>	<code>object</code>	Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod.
<code>restartPolicy</code>	<code>string</code>	Restart policy for the container to manage the restart of each container within a pod. This may only be set on regular containers. You cannot set this field on ephemeral containers.
<code>securityContext</code>	<code>object</code>	Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the SecurityContext override the equivalent fields of PodSecurityContext.

Property	Type	Description
<code>startupProbe</code>	<code>object</code>	Probes are not allowed for ephemeral containers.
<code>stdin</code>	<code>boolean</code>	Whether this container should allocate a buffer for container runtime. If this is not set, reads from stdin container will always result in EOF. Default is false
<code>stdinOnce</code>	<code>boolean</code>	Whether the container runtime should close the stream after it has been opened by a single attach. When the stream will remain open across multiple attach sessions. If <code>stdinOnce</code> is set to true, stdin is opened at start, is empty until the first client attaches to stdin, remains open and accepts data until the client disconnects, at which time stdin is closed and remains closed until the container is restarted. If this flag is false, a container process that reads from stdin will never receive an EOF. Default is false
<code>targetContainerName</code>	<code>string</code>	<p>If set, the name of the container from PodSpec that the ephemeral container targets. The ephemeral container will run in the namespaces (IPC, PID, etc) of this container. If not set, the ephemeral container uses the namespace of the Pod spec.</p> <p>The container runtime must implement support for namespace targeting. If the runtime does not support namespace targeting, the result of setting this field is undefined.</p>
<code>terminationMessagePath</code>	<code>string</code>	Optional: Path at which the file to which the container termination message will be written is mounted into the container's filesystem. Message written is intended

Property	Type	Description
		final status, such as an assertion failure message. truncated by the node if greater than 4096 bytes. 1 message length across all containers will be limited. Defaults to /dev/termination-log. Cannot be updated.
<code>terminationMessagePolicy</code>	<code>string</code>	Indicate how the termination message should be processed. will use the contents of terminationMessagePath to container status message on both success and failure. FallbackToLogsOnError will use the last chunk of container output if the termination message file is empty and exited with an error. The log output is limited to 2048 lines, whichever is smaller. Defaults to File. Cannot be updated.
<code>tty</code>	<code>boolean</code>	Whether this container should allocate a TTY for itself, requires 'stdin' to be true. Default is false.
<code>volumeDevices</code>	<code>array</code>	volumeDevices is the list of block devices to be used within the container.
<code>volumeMounts</code>	<code>array</code>	Pod volumes to mount into the container's filesystem. Subsequent mounts are not allowed for ephemeral containers. Cannot be updated.
<code>workingDir</code>	<code>string</code>	Container's working directory. If not specified, the container runtime's default will be used, which might be configurable for the container image. Cannot be updated.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].args`

Description

Arguments to the entrypoint. The image's CMD is used if this is not provided. Variable references `$(VAR_NAME)` are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double `$$` are reduced to a single `$`, which allows for escaping the `$(VAR_NAME)` syntax: i.e.

`$$$(VAR_NAME)` will produce the string literal `$(VAR_NAME)`. Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated.

More info: <https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell>

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].args[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].command`

Description

Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provided. Variable references `$(VAR_NAME)` are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double `$$` are reduced to a single `$`, which allows for escaping the `$(VAR_NAME)` syntax: i.e. `$$$(VAR_NAME)` will produce the string literal `$(VAR_NAME)`.

Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: <https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell>

Type

array

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].command[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

object

Required

name

Property	Type	Description
name	string	Name of the environment variable. Must be a C_IDENTIFIER.

Property	Type	Description
<code>value</code>	<code>string</code>	Variable references <code>\$(VAR_NAME)</code> are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code> , which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>\$\$\$(VAR_NAME)</code> will produce the string literal <code>\$(VAR_NAME)</code> . Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to <code>""</code> .
<code>valueFrom</code>	<code>object</code>	Source for the environment variable's value. Cannot be used if value is not empty.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].env[].valueFrom`

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
<code>configMapKeyRef</code>	<code>object</code>	Selects a key of a ConfigMap.
<code>fieldRef</code>	<code>object</code>	Selects a field of the pod: supports <code>metadata.name</code> , <code>metadata.namespace</code> , <code>metadata.labels[<KEY>]</code> , <code>metadata.annotations[<KEY>]</code> , <code>spec.nodeName</code> ,

Property	Type	Description
		spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
resourceFieldRef	object	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
secretKeyRef	object	Selects a key of a secret in the pod's namespace

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].env[].valueFrom.configMapKeyRef`

Description

Selects a key of a ConfigMap.

Type

object

Required

key

Property	Type	Description
key	string	The key to select.
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-

Property	Type	Description
		objects/names/#names ↗
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap or its key must be defined

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].env[].valueFrom.fieldRef`

Description

Selects a field of the pod: supports `metadata.name`, `metadata.namespace`, `metadata.labels[<KEY>]`, `metadata.annotations[<KEY>]`, `spec.nodeName`, `spec.serviceAccountName`, `status.hostIP`, `status.podIP`, `status.podIPs`.

Type

`object`

Required

`fieldPath`

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	Version of the schema the FieldPath is written in terms of, defaults to "v1".
<code>fieldPath</code>	<code>string</code>	Path of the field to select in the specified API version.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].env[].valueFrom.resourceFieldRef`

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

object

Required

resource

Property	Type	Description
containerName	string	Container name: required for volumes, optional for env vars
divisor		Specifies the output format of the exposed resources, defaults to "1"
resource	string	Required: resource to select

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].env[].valueFrom.secretKeyRef`

Description

Selects a key of a secret in the pod's namespace

Type

object

Required

key

Property	Type	Description
key	string	The key of the secret to select from. Must be a valid secret key.
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
optional	boolean	Specify whether the Secret or its key must be defined

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].envFrom`

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].envFrom[]`

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

object

Property	Type	Description
<code>configMapRef</code>	<code>object</code>	The ConfigMap to select from
<code>prefix</code>	<code>string</code>	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
<code>secretRef</code>	<code>object</code>	The Secret to select from

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].envFrom[].configMapRef`

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap must be defined

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].envFrom[].secretRef`

Description

The Secret to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
optional	boolean	Specify whether the Secret must be defined

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle`

Description

Lifecycle is not allowed for ephemeral containers.

Type

object

Property	Type	Description
postStart	object	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
preStop	object	<p>PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗</p>

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart`

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info:

<https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks>

Type

object

Property	Type	Description
<code>exec</code>	<code>object</code>	Exec specifies the action to take.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform.
<code>sleep</code>	<code>object</code>	Sleep represents the duration that the container should sleep before being terminated.
<code>tcpSocket</code>	<code>object</code>	Deprecated. TCP socket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart.exec`

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a

Property	Type	Description
		shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart.exec.command[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart.sleep`

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

object

Required

seconds

Property	Type	Description
seconds	integer	Seconds is the number of seconds to sleep.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.postStart.tcpSocket`

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.
port		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop`

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info:

<https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks>

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.
httpGet	object	HTTPGet specifies the http request to perform.
sleep	object	Sleep represents the duration that the container should sleep before being terminated.
tcpSocket	object	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

object

Property	Type	Description
command	array	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop.exec.command[]`

Type

string

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
<code>name</code>	<code>string</code>	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
<code>value</code>	<code>string</code>	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop.sleep`

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

object

Required

seconds

Property	Type	Description
seconds	integer	Seconds is the number of seconds to sleep.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].lifecycle.preStop.tcpSocket`

Description

Deprecated. TCP socket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
port	integer	Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe`

Description

Probes are not allowed for ephemeral containers.

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.
failureThreshold	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Default value is 3. Minimum value is 1.
grpc	object	GRPC specifies an action involving a GRPC
httpGet	object	HTTPGet specifies the http request to perform

Property	Type	Description
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. Default is 1. Must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port.

Property	Type	Description
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs gracefully upon probe failure. The grace period duration in seconds after the processes runr pod are sent a termination signal and the tim processes are forcibly halted with a kill signa value longer than the expected cleanup time process. If this value is nil, the pod's terminationGracePeriodSeconds will be use Otherwise, this value overrides the value prc pod spec. Value must be non-negative integ value zero indicates stop immediately via the (no opportunity to shut down). This is a beta requires enabling ProbeTerminationGracePe gate. Minimum value is 1. spec.terminationGracePeriodSeconds is use
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe tin Defaults to 1 second. Minimum value is 1. M https://kubernetes.io/docs/concepts/workloadlifecycle#container-probes

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe.exec`

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

object

Required

port

Property	Type	Description
port	integer	Port number of the gRPC service. Number must be in the range 1 to 65535.
service	string	<p>Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗).</p> <p>If this is not specified, the default behavior is defined by gRPC.</p>

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeader` **S**

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].livenessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>	<code>int</code>	Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].ports`

Description

Ports are not allowed for ephemeral containers.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].ports[]`

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
containerPort	integer	Number of port to expose on the pod's IP address. This must be a valid port number, $0 < x < 65536$.
hostIP	string	What host IP to bind the external port to.
hostPort	integer	Number of port to expose on the host. If specified, this must be a valid port number, $0 < x < 65536$. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
name	string	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
protocol	string	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe`

Description

Probes are not allowed for ephemeral containers.

Type

object

Property	Type	Description
<code>exec</code>	<code>object</code>	Exec specifies the action to take.
<code>failureThreshold</code>	<code>integer</code>	Minimum consecutive failures for the probe to be considered failed after having succeeded. Default value is 3. Minimum value is 1.
<code>grpc</code>	<code>object</code>	GRPC specifies an action involving a GRPC
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. Default is 1. Must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCP Socket specifies an action involving a TCP

Property	Type	Description
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs gracefully upon probe failure. The grace period duration in seconds after the processes running pod are sent a termination signal and the timer processes are forcibly halted with a kill signal. Value longer than the expected cleanup time process. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature that requires enabling ProbeTerminationGracePeriod. Minimum value is 1. <code>spec.terminationGracePeriodSeconds</code> is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. More info: https://kubernetes.io/docs/concepts/workload-lifecycle#container-probes

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe.exec`

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe.exec.command[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe.grpc`

Description

GRPC specifies an action involving a GRPC port.

Type

object

Required

port

Property	Type	Description
port	integer	Port number of the gRPC service. Number must be in the range 1 to 65535.
service	string	<p>Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗).</p> <p>If this is not specified, the default behavior is defined by gRPC.</p>

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe.httpGet.headers[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].readinessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.
port		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].resizePolicy`

Description

Resources resize policy for the container.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].resizePolicy[]`

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

object

Required

resourceName

restartPolicy

Property	Type	Description
<code>resourceName</code>	<code>string</code>	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.
<code>restartPolicy</code>	<code>string</code>	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].resources`

Description

Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod.

Type

`object`

Property	Type	Description
<code>claims</code>	<code>array</code>	<p>Claims lists the names of resources, defined in <code>spec.resourceClaims</code>, that are used by this container.</p> <p>This is an alpha field and requires enabling the <code>DynamicResourceAllocation</code> feature gate.</p> <p>This field is immutable. It can only be set for containers.</p>
<code>limits</code>	<code>object</code>	Limits describes the maximum amount of compute resources allowed. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
		Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
	requests	
	object	

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].resources.claims`

Description

Claims lists the names of resources, defined in `spec.resourceClaims`, that are used by this container. This is an alpha field and requires enabling the `DynamicResourceAllocation` feature gate. This field is immutable. It can only be set for containers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].resources.claims[]`

Description

ResourceClaim references one entry in `PodSpec.ResourceClaims`.

Type

object

Required

name

Property	Type	Description
name	string	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext

Description

Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext.

Type

object

Property	Type	Description
<code>allowPrivilegeEscalation</code>	<code>boolean</code>	<p>AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the <code>no_new_privs</code> flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is:</p> <ol style="list-style-type: none">run as Privilegedhas <code>CAP_SYS_ADMIN</code> Note that this field cannot be set when <code>spec.os.name</code> is windows.
<code>capabilities</code>	<code>object</code>	<p>The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>privileged</code>	<code>boolean</code>	<p>Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>

Property	Type	Description
<code>procMount</code>	<code>string</code>	<p><code>procMount</code> denotes the type of proc mount to use for the containers. The default is <code>DefaultProcMount</code> which uses the container runtime defaults for readonly paths and masked paths. This requires the <code>ProcMountType</code> feature flag to be enabled. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>readOnlyRootFilesystem</code>	<code>boolean</code>	<p>Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>runAsGroup</code>	<code>integer</code>	<p>The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in <code>PodSecurityContext</code>. If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code>, the value specified in <code>SecurityContext</code> takes precedence. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>runAsNonRoot</code>	<code>boolean</code>	<p>Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in <code>PodSecurityContext</code>. If set in</p>

Property	Type	Description
		both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
runAsUser	integer	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
seLinuxOptions	object	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
seccompProfile	object	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Property	Type	Description
<code>windowsOptions</code>	<code>object</code>	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when <code>spec.os.name</code> is <code>linux</code> .

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext.capabilities`

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when `spec.os.name` is `windows`.

Type

`object`

Property	Type	Description
<code>add</code>	<code>array</code>	Added capabilities
<code>drop</code>	<code>array</code>	Removed capabilities

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext.capabilities.add`

Description

Added capabilities

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext.capabilities.add[]`

Description

Capability represent POSIX capabilities type

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext.capabilities.drop`

Description

Removed capabilities

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext.capabilities.drop[]`

Description

Capability represent POSIX capabilities type

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext.seLinuxOptions`

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when `spec.os.name` is windows.

Type

object

Property	Type	Description
<code>level</code>	<code>string</code>	Level is SELinux level label that applies to the container.
<code>role</code>	<code>string</code>	Role is a SELinux role label that applies to the container.
<code>type</code>	<code>string</code>	Type is a SELinux type label that applies to the container.
<code>user</code>	<code>string</code>	User is a SELinux user label that applies to the container.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext.seccompProfile`

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when `spec.os.name` is windows.

Type

object

Required

type

Property	Type	Description
localhostProfile	string	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
type	string	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].securityContext.windowsOptions`

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when `spec.os.name` is `linux`.

Type

object

Property	Type	Description
<code>gmsaCredentialSpec</code>	<code>string</code>	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa) inlines the contents of the GMSA credential spec named by the <code>GMSACredentialSpecName</code> field.
<code>gmsaCredentialSpecName</code>	<code>string</code>	<code>GMSACredentialSpecName</code> is the name of the GMSA credential spec to use.
<code>hostProcess</code>	<code>boolean</code>	<code>HostProcess</code> determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective <code>HostProcess</code> value (it is not allowed to have a mix of <code>HostProcess</code> containers and non- <code>HostProcess</code> containers). In addition, if <code>HostProcess</code> is true then <code>HostNetwork</code> must also be set to true.
<code>runAsUserName</code>	<code>string</code>	The <code>UserName</code> in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in <code>PodSecurityContext</code> . If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code> , the value specified in <code>SecurityContext</code> takes precedence.

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe

Description

Probes are not allowed for ephemeral containers.

Type

object

Property	Type	Description
<code>exec</code>	object	Exec specifies the action to take.
<code>failureThreshold</code>	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Default value is 3. Minimum value is 1.
<code>grpc</code>	object	GRPC specifies an action involving a GRPC
<code>httpGet</code>	object	HTTPGet specifies the http request to perform
<code>initialDelaySeconds</code>	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes
<code>periodSeconds</code>	integer	How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1.

Property	Type	Description
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. Default is 1. Must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. Optional duration in seconds the pod needs to gracefully shutdown on probe failure. The grace period is the duration in seconds after the processes running in the pod are sent a termination signal and the time until the processes are forcibly halted with a kill signal. A higher value indicates a longer cleanup time. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided by the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used when unset.
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully shutdown on probe failure. The grace period is the duration in seconds after the processes running in the pod are sent a termination signal and the time until the processes are forcibly halted with a kill signal. A higher value indicates a longer cleanup time. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided by the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used when unset.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. More info: https://kubernetes.io/docs/concepts/workloads/controllers/lifecycle#container-probes

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe.exec`

Description

Exec specifies the action to take.

Type

object

Property	Type	Description
<code>command</code>	array	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe.exec.command[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe.grpc`

Description

GRPC specifies an action involving a GRPC port.

Type

object

Required

port

Property	Type	Description
<code>port</code>	<code>integer</code>	Port number of the gRPC service. Number must be in the range 1 to 65535.
<code>service</code>	<code>string</code>	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].startupProbe.tcpSocket`

Description

TCPsocket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.
port	int	Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].volumeDevices`

Description

volumeDevices is the list of block devices to be used by the container.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].volumeDevices[]`

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

object

Required

devicePath

name

Property	Type	Description
<code>devicePath</code>	<code>string</code>	devicePath is the path inside of the container that the device will be mapped to.
<code>name</code>	<code>string</code>	name must match the name of a persistentVolumeClaim in the pod

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].volumeMounts`

Description

Pod volumes to mount into the container's filesystem. Subpath mounts are not allowed for ephemeral containers. Cannot be updated.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.ephemeralContainers[].volumeMounts[]`

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath`

`name`

Property	Type	Description
<code>mountPath</code>	<code>string</code>	Path within the container at which the volume should be mounted. Must not contain ':'.
<code>mountPropagation</code>	<code>string</code>	<code>mountPropagation</code> determines how mounts are propagated from the host to container and the other way around. When not set, <code>MountPropagationNone</code> is used. This field is beta in 1.10.
<code>name</code>	<code>string</code>	This must match the Name of a Volume.
<code>readOnly</code>	<code>boolean</code>	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
<code>subPath</code>	<code>string</code>	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
<code>subPathExpr</code>	<code>string</code>	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to <code>SubPath</code> but environment variable references <code>\$(VAR_NAME)</code> are expanded using the container's environment. Defaults to "" (volume's root). <code>SubPathExpr</code> and <code>SubPath</code> are mutually exclusive.

`.spec.resources.kubernetesResource.spec.template.spec.hostAliases`

Description

HostAliases is an optional list of hosts and IPs that will be injected into the pod's hosts file if specified. This is only valid for non-hostNetwork pods.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.hostAliases[]`

Description

HostAlias holds the mapping between IP and hostnames that will be injected as an entry in the pod's hosts file.

Type

object

Property	Type	Description
<code>hostnames</code>	array	Hostnames for the above IP address.
<code>ip</code>	string	IP address of the host file entry.

`.spec.resources.kubernetesResource.spec.template.spec.hostAliases[].hostnames`

Description

Hostnames for the above IP address.

Type

array

**.spec.resources.kubernetesResource.spec.template.spec.
hostAliases[].hostnames[]**

Type

string

**.spec.resources.kubernetesResource.spec.template.spec.
imagePullSecrets**

Description

ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images used by this PodSpec. If specified, these secrets will be passed to individual puller implementations for them to use. More info:

<https://kubernetes.io/docs/concepts/containers/images#specifying-imagepullsecrets-on-a-pod>

Type

array

**.spec.resources.kubernetesResource.spec.template.spec.
imagePullSecrets[]**

Description

LocalObjectReference contains enough information to let you locate the referenced object inside the same namespace.

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

`.spec.resources.kubernetesResource.spec.template.spec.initContainers`

Description

List of initialization containers belonging to the pod. Init containers are executed in order prior to containers being started. If any init container fails, the pod is considered to have failed and is handled according to its restartPolicy. The name for an init container or normal container must be unique among all containers. Init containers may not have Lifecycle actions, Readiness probes, Liveness probes, or Startup probes. The resourceRequirements of an init container are taken into account during scheduling by finding the highest request/limit for each resource type, and then using the max of of that value or the sum of the normal containers. Limits are applied to init containers in a similar fashion. Init containers cannot currently be added or removed. Cannot be updated. More info: <https://kubernetes.io/docs/concepts/workloads/pods/init-containers/>

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[]`

Description

A single application container that you want to run within a pod.

Type

object

Required

name

Property	Type	Description
args	array	<p>Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references <code>\$(VAR_NAME)</code> are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code>, which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>"\$(VAR_NAME)"</code> will produce the string literal <code>"\$(VAR_NAME)"</code>. Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell</p>
command	array	<p>Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references <code>\$(VAR_NAME)</code> are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code>, which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>"\$(VAR_NAME)"</code> will produce the string literal <code>"\$(VAR_NAME)"</code>. Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell</p>
env	array	List of environment variables to set in the container. Cannot be updated.

Property	Type	Description
<code>envFrom</code>	<code>array</code>	List of sources to populate environment variables in container. The keys defined within a source must be unique. The keys defined within a source must be unique. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source in the list takes precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.
<code>image</code>	<code>string</code>	Container image name. More info: https://kubernetes.io/docs/concepts/containers/images field is optional to allow higher level config management to default or override container images in workload controllers Deployments and StatefulSets.
<code>imagePullPolicy</code>	<code>string</code>	Image pull policy. One of Always, Never, IfNotPresent. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise. Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/images
<code>lifecycle</code>	<code>object</code>	Actions that the management system should take in response to container lifecycle events. Cannot be updated.
<code>livenessProbe</code>	<code>object</code>	Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes

Property	Type	Description
name	string	Name of the container specified as a DNS_LABEL container in a pod must have a unique name (DNS Cannot be updated.
ports	array	List of ports to expose from the container. Not spe here DOES NOT prevent that port from being exp which is listening on the default "0.0.0.0" address i container will be accessible from the network. Moc array with strategic merge patch may corrupt the d information See https://github.com/kubernetes/kubernetes/issues/1 Cannot be updated.
readinessProbe	object	Periodic probe of container service readiness. Cor removed from service endpoints if the probe fails. updated. More info: https://kubernetes.io/docs/concepts/workloads/poc lifecycle#container-probes
resizePolicy	array	Resources resize policy for the container.
resources	object	Compute Resources required by this container. Ca updated. More info: https://kubernetes.io/docs/concepts/configuration/r resources-containers/

Property	Type	Description
<code>restartPolicy</code>	<code>string</code>	RestartPolicy defines the restart behavior of individual containers in a pod. This field may only be set for init containers. The only allowed value is "Always". For non-init containers, if this field is not specified, the restart policy is determined by the Pod's restart policy and the container type. Setting RestartPolicy as "Always" for the init container will have the following effect: this init container will be continually restarted until all regular containers have terminated. Once all regular containers have completed, all init containers with "Always" will be shut down. This lifecycle differs from regular containers and is often referred to as a "sidecar" container. Although this init container still starts in the init container sequence, it does not wait for the container to complete before proceeding to the next init container. Instead, the next regular container starts immediately after this init container completes, even if any startupProbe has successfully completed.
<code>securityContext</code>	<code>object</code>	SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/
<code>startupProbe</code>	<code>object</code>	StartupProbe indicates that the Pod has successfully started. If specified, no other probes are executed until this probe successfully. If this probe fails, the Pod will be restarted. If the livenessProbe fails. This can be used to provide probe parameters at the beginning of a Pod's lifecycle. It might take a long time to load data or warm a cache before reaching steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/tasks/configure-pod-container/configure-liveness-readiness-startup-probes/

Property	Type	Description
		https://kubernetes.io/docs/concepts/workloads/pod-lifecycle#container-probes ↗
<code>stdin</code>	<code>boolean</code>	Whether this container should allocate a buffer for container runtime. If this is not set, reads from stdio container will always result in EOF. Default is false
<code>stdinOnce</code>	<code>boolean</code>	Whether the container runtime should close the stream after it has been opened by a single attach. When the stdin stream will remain open across multiple attach sessions. If <code>stdinOnce</code> is set to true, stdin is opened at start, is empty until the first client attaches to stdin, remains open and accepts data until the client disconnects, at which time stdin is closed and remains closed until the container is restarted. If this flag is false, a container process from stdin will never receive an EOF. Default is false
<code>terminationMessagePath</code>	<code>string</code>	Optional: Path at which the file to which the container termination message will be written is mounted into the container's filesystem. Message written is intended to be consumed by a user-defined process on the container. Message length is truncated by the node if greater than 4096 bytes. Total message length across all containers will be limited by the node. Defaults to <code>/dev/termination-log</code> . Cannot be updated
<code>terminationMessagePolicy</code>	<code>string</code>	Indicate how the termination message should be populated. <code>File</code> will use the contents of <code>terminationMessagePath</code> to populate the container status message on both success and failure. <code>FallbackToLogsOnError</code> will use the last chunk of container output if the termination message file is empty and

Property	Type	Description
		exited with an error. The log output is limited to 20 lines, whichever is smaller. Defaults to File. Cannot be updated.
<code>tty</code>	<code>boolean</code>	Whether this container should allocate a TTY for it. Requires 'stdin' to be true. Default is false.
<code>volumeDevices</code>	<code>array</code>	volumeDevices is the list of block devices to be used in the container.
<code>volumeMounts</code>	<code>array</code>	Pod volumes to mount into the container's filesystem. Cannot be updated.
<code>workingDir</code>	<code>string</code>	Container's working directory. If not specified, the container runtime's default will be used, which might be configured for a container image. Cannot be updated.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].args`

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references `$(VAR_NAME)` are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double `$$` are reduced to a single `$`, which allows for escaping the `$(VAR_NAME)` syntax: i.e. `"$(VAR_NAME)"` will produce the string literal `"$(VAR_NAME)"`. Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: <https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell>

Type

array

**.spec.resources.kubernetesResource.spec.template.spec.
initContainers[].args[]**

Type

string

**.spec.resources.kubernetesResource.spec.template.spec.
initContainers[].command**

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $\$(VAR_NAME)$ are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $\$\$$ are reduced to a single $\$$, which allows for escaping the $\$(VAR_NAME)$ syntax: i.e. $\$\(VAR_NAME) will produce the string literal $\$(VAR_NAME)$. Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: <https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell>

Type

array

**.spec.resources.kubernetesResource.spec.template.spec.
initContainers[].command[]**

Type

string

**.spec.resources.kubernetesResource.spec.template.spec.
initContainers[].env**

Description

List of environment variables to set in the container. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec. initContainers[].env[]`

Description

EnvVar represents an environment variable present in a Container.

Type

object

Required

name

Property	Type	Description
name	string	Name of the environment variable. Must be a C_IDENTIFIER.
value	string	Variable references <code>\$(VAR_NAME)</code> are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code> , which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>\$\$\$(VAR_NAME)</code> will produce the string literal <code>\$(VAR_NAME)</code> . Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to <code>""</code> .

Property	Type	Description
<code>valueFrom</code>	<code>object</code>	Source for the environment variable's value. Cannot be used if value is not empty.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].env[].valueFrom`

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
<code>configMapKeyRef</code>	<code>object</code>	Selects a key of a ConfigMap.
<code>fieldRef</code>	<code>object</code>	Selects a field of the pod: supports <code>metadata.name</code> , <code>metadata.namespace</code> , <code>metadata.labels['<KEY>']</code> , <code>metadata.annotations['<KEY>']</code> , <code>spec.nodeName</code> , <code>spec.serviceAccountName</code> , <code>status.hostIP</code> , <code>status.podIP</code> , <code>status.podIPs</code> .
<code>resourceFieldRef</code>	<code>object</code>	Selects a resource of the container: only resources limits and requests (<code>limits.cpu</code> , <code>limits.memory</code> , <code>limits.ephemeral-storage</code> , <code>requests.cpu</code> , <code>requests.memory</code> and <code>requests.ephemeral-storage</code>) are currently supported.

Property	Type	Description
secretKeyRef	object	Selects a key of a secret in the pod's namespace

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].env[].valueFrom.configMapKeyRef`

Description

Selects a key of a ConfigMap.

Type

object

Required

key

Property	Type	Description
key	string	The key to select.
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
optional	boolean	Specify whether the ConfigMap or its key must be defined

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].env[].valueFrom.fieldRef`

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels[<KEY>]`, `metadata.annotations[<KEY>]`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

object

Required

fieldPath

Property	Type	Description
apiVersion	string	Version of the schema the FieldPath is written in terms of, defaults to "v1".
fieldPath	string	Path of the field to select in the specified API version.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].env[].valueFrom.resourceFieldRef`

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

object

Required

resource

Property	Type	Description
<code>containerName</code>	<code>string</code>	Container name: required for volumes, optional for env vars
<code>divisor</code>		Specifies the output format of the exposed resources, defaults to "1"
<code>resource</code>	<code>string</code>	Required: resource to select

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].env[].valueFrom.secretKeyRef`

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
<code>key</code>	<code>string</code>	The key of the secret to select from. Must be a valid secret key.
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names

Property	Type	Description
optional	boolean	Specify whether the Secret or its key must be defined

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].envFrom`

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].envFrom[]`

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

object

Property	Type	Description
configMapRef	object	The ConfigMap to select from

Property	Type	Description
prefix	string	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
secretRef	object	The Secret to select from

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].envFrom[].configMapRef`

Description

The ConfigMap to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
optional	boolean	Specify whether the ConfigMap must be defined

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].envFrom[].secretRef`

Description

The Secret to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
optional	boolean	Specify whether the Secret must be defined

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle`

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

object

Property	Type	Description
postStart	object	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

Property	Type	Description
preStop	object	<p>PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks</p>

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart`

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info:

<https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks>

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.

Property	Type	Description
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform.
<code>sleep</code>	<code>object</code>	Sleep represents the duration that the container should sleep before being terminated.
<code>tcpSocket</code>	<code>object</code>	Deprecated. TCP socket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart.exec`

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart.exec.command[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart.sleep`

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

object

Required

seconds

Property	Type	Description
seconds	integer	Seconds is the number of seconds to sleep.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.postStart.tcpSocket`

Description

Deprecated. TCP Socket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.
port		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop`

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the

hook completes or until the termination grace period is reached. More info:

<https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks>

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.
httpGet	object	HTTPGet specifies the http request to perform.
sleep	object	Sleep represents the duration that the container should sleep before being terminated.
tcpSocket	object	Deprecated. TCP Socket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop.exec`

Description

Exec specifies the action to take.

Type

object

Property	Type	Description
<code>command</code>	<code>array</code>	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop.exec.command[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop.sleep`

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

object

Required

seconds

Property	Type	Description
seconds	integer	Seconds is the number of seconds to sleep.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].lifecycle.preStop.tcpSocket`

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.
port		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].livenessProbe`

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: <https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes>

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.
failureThreshold	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Default value is 3. Minimum value is 1.
grpc	object	GRPC specifies an action involving a GRPC
httpGet	object	HTTPGet specifies the http request to perform
initialDelaySeconds	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes
periodSeconds	integer	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.
successThreshold	integer	Minimum consecutive successes for the probe to be considered successful after having failed. Default value is 1.

Property	Type	Description
		Must be 1 for liveness and startup. Minimum
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a T
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs gracefully upon probe failure. The grace period duration in seconds after the processes running pod are sent a termination signal and the timer processes are forcibly halted with a kill signal. If this value is longer than the expected cleanup time process. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the (no opportunity to shut down). This is a beta feature that requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].livenessProbe.exec`

Description

Exec specifies the action to take.

Type

object

Property	Type	Description
command	array	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.resources.kubernetesResource.spec.template.spec. initContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

.spec.resources.kubernetesResource.spec.template.spec. initContainers[].livenessProbe.exec.command[]

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].livenessProbe.grpc`

Description

GRPC specifies an action involving a GRPC port.

Type

object

Required

port

Property	Type	Description
<code>port</code>	<code>integer</code>	Port number of the gRPC service. Number must be in the range 1 to 65535.
<code>service</code>	<code>string</code>	<p>Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗).</p> <p>If this is not specified, the default behavior is defined by gRPC.</p>

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].livenessProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.resources.kubernetesResource.spec.template.spec.initContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].livenessProbe.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].livenessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.
port		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].ports`

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See <https://github.com/kubernetes/kubernetes/issues/108255>. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].ports[]`

Description

ContainerPort represents a network port in a single container.

Type

object

Required

containerPort

Property	Type	Description
containerPort	integer	Number of port to expose on the pod's IP address. This must be a valid port number, $0 < x < 65536$.
hostIP	string	What host IP to bind the external port to.
hostPort	integer	Number of port to expose on the host. If specified, this must be a valid port number, $0 < x < 65536$. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
name	string	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
protocol	string	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe`

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info:

<https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes>

Type

object

Property	Type	Description
exec	object	Exec specifies the action to take.
failureThreshold	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Default value is 3. Minimum value is 1.
grpc	object	GRPC specifies an action involving a GRPC
httpGet	object	HTTPGet specifies the http request to perform
initialDelaySeconds	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/controllers/liveness-probe/#container-probes
periodSeconds	integer	How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1.
successThreshold	integer	Minimum consecutive successes for the probe to be considered successful after having failed. Default value is 1. Must be 1 for liveness and startup. Minimum value is 1.

Property	Type	Description
<code>tcpSocket</code>	<code>object</code>	TCP Socket specifies an action involving a TCP socket.
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs gracefully upon probe failure. The grace period duration in seconds after the processes running in the pod are sent a termination signal and the timer begins. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. Value must be less than or equal to spec.terminationGracePeriodSeconds is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe.exec`

Description

Exec specifies the action to take.

Type

object

Property	Type	Description
command	array	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe.exec.command[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

object

Required

port

Property	Type	Description
port	integer	Port number of the gRPC service. Number must be in the range 1 to 65535.
service	string	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
host	string	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
httpHeaders	array	Custom headers to set in the request. HTTP allows repeated headers.
path	string	Path to access on the HTTP server.
port		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
scheme	string	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].readinessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
<code>port</code>		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].resizePolicy`

Description

Resources resize policy for the container.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].resizePolicy[]`

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName`

`restartPolicy`

Property	Type	Description
<code>resourceName</code>	<code>string</code>	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
<code>restartPolicy</code>	<code>string</code>	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].resources`

Description

Compute Resources required by this container. Cannot be updated. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

`object`

Property	Type	Description
<code>claims</code>	<code>array</code>	<p>Claims lists the names of resources, defined in <code>spec.resourceClaims</code>, that are used by this container.</p> <p>This is an alpha field and requires enabling the <code>DynamicResourceAllocation</code> feature gate.</p> <p>This field is immutable. It can only be set for containers.</p>
<code>limits</code>	<code>object</code>	<p>Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/</p>

Property	Type	Description
requests	object	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].resources.claims`

Description

Claims lists the names of resources, defined in `spec.resourceClaims`, that are used by this container. This is an alpha field and requires enabling the `DynamicResourceAllocation` feature gate. This field is immutable. It can only be set for containers.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].resources.claims[]`

Description

ResourceClaim references one entry in `PodSpec.ResourceClaims`.

Type

object

Required

name

Property	Type	Description
<code>name</code>	<code>string</code>	Name must match the name of one entry in <code>pod.spec.resourceClaims</code> of the Pod where this field is used. It makes that resource available inside a container.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].resources.limits`

Description

Limits describes the maximum amount of compute resources allowed. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

`object`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].resources.requests`

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

`object`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].securityContext`

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: <https://kubernetes.io/docs/tasks/configure-pod-container/security-context/>

Type

object

Property	Type	Description
<code>allowPrivilegeEscalation</code>	<code>boolean</code>	<p>AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the <code>no_new_privs</code> flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is:</p> <ol style="list-style-type: none">run as Privilegedhas <code>CAP_SYS_ADMIN</code> Note that this field cannot be set when <code>spec.os.name</code> is windows.
<code>capabilities</code>	<code>object</code>	<p>The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>privileged</code>	<code>boolean</code>	<p>Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>

Property	Type	Description
<code>procMount</code>	<code>string</code>	<p><code>procMount</code> denotes the type of proc mount to use for the containers. The default is <code>DefaultProcMount</code> which uses the container runtime defaults for readonly paths and masked paths. This requires the <code>ProcMountType</code> feature flag to be enabled. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>readOnlyRootFilesystem</code>	<code>boolean</code>	<p>Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>runAsGroup</code>	<code>integer</code>	<p>The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in <code>PodSecurityContext</code>. If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code>, the value specified in <code>SecurityContext</code> takes precedence. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>runAsNonRoot</code>	<code>boolean</code>	<p>Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in <code>PodSecurityContext</code>. If set in</p>

Property	Type	Description
		both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
runAsUser	integer	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
seLinuxOptions	object	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
seccompProfile	object	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Property	Type	Description
<code>windowsOptions</code>	<code>object</code>	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when <code>spec.os.name</code> is <code>linux</code> .

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].securityContext.capabilities`

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when `spec.os.name` is `windows`.

Type

`object`

Property	Type	Description
<code>add</code>	<code>array</code>	Added capabilities
<code>drop</code>	<code>array</code>	Removed capabilities

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].securityContext.capabilities.add`

Description

Added capabilities

Type

array

**.spec.resources.kubernetesResource.spec.template.spec.
initContainers[].securityContext.capabilities.add[]**

Description

Capability represent POSIX capabilities type

Type

string

**.spec.resources.kubernetesResource.spec.template.spec.
initContainers[].securityContext.capabilities.drop**

Description

Removed capabilities

Type

array

**.spec.resources.kubernetesResource.spec.template.spec.
initContainers[].securityContext.capabilities.drop[]**

Description

Capability represent POSIX capabilities type

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].securityContext.seLinuxOptions`

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when `spec.os.name` is windows.

Type

object

Property	Type	Description
<code>level</code>	<code>string</code>	Level is SELinux level label that applies to the container.
<code>role</code>	<code>string</code>	Role is a SELinux role label that applies to the container.
<code>type</code>	<code>string</code>	Type is a SELinux type label that applies to the container.
<code>user</code>	<code>string</code>	User is a SELinux user label that applies to the container.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].securityContext.seccompProfile`

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when `spec.os.name` is windows.

Type

object

Required

type

Property	Type	Description
localhostProfile	string	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
type	string	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].securityContext.windowsOptions`

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when `spec.os.name` is `linux`.

Type

object

Property	Type	Description
<code>gmsaCredentialSpec</code>	<code>string</code>	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa) inlines the contents of the GMSA credential spec named by the <code>GMSACredentialSpecName</code> field.
<code>gmsaCredentialSpecName</code>	<code>string</code>	<code>GMSACredentialSpecName</code> is the name of the GMSA credential spec to use.
<code>hostProcess</code>	<code>boolean</code>	<code>HostProcess</code> determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective <code>HostProcess</code> value (it is not allowed to have a mix of <code>HostProcess</code> containers and non- <code>HostProcess</code> containers). In addition, if <code>HostProcess</code> is true then <code>HostNetwork</code> must also be set to true.
<code>runAsUserName</code>	<code>string</code>	The <code>UserName</code> in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in <code>PodSecurityContext</code> . If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code> , the value specified in <code>SecurityContext</code> takes precedence.

.spec.resources.kubernetesResource.spec.template.spec. initContainers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info:

<https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes>

Type

object

Property	Type	Description
<code>exec</code>	object	Exec specifies the action to take.
<code>failureThreshold</code>	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Default value is 3. Minimum value is 1.
<code>grpc</code>	object	GRPC specifies an action involving a GRPC
<code>httpGet</code>	object	HTTPGet specifies the http request to perform

Property	Type	Description
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. Default is 1. Must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port.

Property	Type	Description
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs gracefully upon probe failure. The grace period duration in seconds after the processes running in the pod are sent a termination signal and the remaining processes are forcibly halted with a kill signal. A value greater than the expected cleanup time may result in a process not being terminated. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature that requires enabling ProbeTerminationGracePeriod. Minimum value is 1. <code>spec.terminationGracePeriodSeconds</code> is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. More info: https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].startupProbe.exec`

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions (' ', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].startupProbe.exec.command`

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].startupProbe.exec.command[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].startupProbe.grpc`

Description

GRPC specifies an action involving a GRPC port.

Type

object

Required

port

Property	Type	Description
port	integer	Port number of the gRPC service. Number must be in the range 1 to 65535.
service	string	<p>Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗).</p> <p>If this is not specified, the default behavior is defined by gRPC.</p>

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].startupProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
<code>host</code>	<code>string</code>	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].startupProbe.httpGet.httpHeaders`

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].startupProbe.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

object

Required

name

value

Property	Type	Description
name	string	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
value	string	The header field value

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].startupProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port.

Type

object

Required

port

Property	Type	Description
host	string	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
<code>port</code>		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].volumeDevices`

Description

`volumeDevices` is the list of block devices to be used by the container.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].volumeDevices[]`

Description

`volumeDevice` describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath`

`name`

Property	Type	Description
<code>devicePath</code>	<code>string</code>	<code>devicePath</code> is the path inside of the container that the device will be mapped to.

Property	Type	Description
name	string	name must match the name of a persistentVolumeClaim in the pod

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].volumeMounts`

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.initContainers[].volumeMounts[]`

Description

VolumeMount describes a mounting of a Volume within a container.

Type

object

Required

mountPath

name

Property	Type	Description
mountPath	string	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
<code>mountPropagation</code>	<code>string</code>	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10.
<code>name</code>	<code>string</code>	This must match the Name of a Volume.
<code>readOnly</code>	<code>boolean</code>	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
<code>subPath</code>	<code>string</code>	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
<code>subPathExpr</code>	<code>string</code>	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references \$(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

`.spec.resources.kubernetesResource.spec.template.spec.nodeSelector`

Description

NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: <https://kubernetes.io/docs/concepts/configuration/assign-pod-node/>

Type

object

`.spec.resources.kubernetesResource.spec.template.spec.`

OS

Description

Specifies the OS of the containers in the pod. Some pod and container fields are restricted if this is set. If the OS field is set to linux, the following fields must be unset: - securityContext.windowsOptions If the OS field is set to windows, following fields must be unset: - spec.hostPID - spec.hostIPC - spec.hostUsers - spec.securityContext.seLinuxOptions - spec.securityContext.seccompProfile - spec.securityContext.fsGroup - spec.securityContext.fsGroupChangePolicy - spec.securityContext.sysctls - spec.shareProcessNamespace - spec.securityContext.runAsUser - spec.securityContext.runAsGroup - spec.securityContext.supplementalGroups - spec.containers[*].securityContext.seLinuxOptions - spec.containers[*].securityContext.seccompProfile - spec.containers[*].securityContext.capabilities - spec.containers[*].securityContext.readOnlyRootFilesystem - spec.containers[*].securityContext.privileged - spec.containers[*].securityContext.allowPrivilegeEscalation - spec.containers[*].securityContext.procMount - spec.containers[*].securityContext.runAsUser - spec.containers[*].securityContext.runAsGroup

Type

object

Required

name

Property	Type	Description
name	string	<p>Name is the name of the operating system. The currently supported values are linux and windows. Additional value may be defined in future and can be one of:</p> <p>https://github.com/opencontainers/runtime-spec/blob/master/config.md#platform-specific-configuration</p> <p>Clients should expect to handle additional values and treat unrecognized values in this field as os: null</p>

`.spec.resources.kubernetesResource.spec.template.spec.overhead`

Description

Overhead represents the resource overhead associated with running a pod for a given RuntimeClass. This field will be autopopulated at admission time by the RuntimeClass admission controller. If the RuntimeClass admission controller is enabled, overhead must not be set in Pod create requests. The RuntimeClass admission controller will reject Pod create requests which have the overhead already set. If RuntimeClass is configured and selected in the PodSpec, Overhead will be set to the value defined in the corresponding RuntimeClass, otherwise it will remain unset and treated as zero. More info: <https://git.k8s.io/enhancements/keps/sig-node/688-pod-overhead/README.md>

Type

object

`.spec.resources.kubernetesResource.spec.template.spec.readinessGates`

Description

If specified, all readiness gates will be evaluated for pod readiness. A pod is ready when all its containers are ready AND all conditions specified in the readiness gates have status

equal to "True" More info: <https://git.k8s.io/enhancements/keps/sig-network/580-pod-readiness-gates>

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.readinessGates[]`

Description

PodReadinessGate contains the reference to a pod condition

Type

object

Required

conditionType

Property	Type	Description
conditionType	string	ConditionType refers to a condition in the pod's condition list with matching type.

`.spec.resources.kubernetesResource.spec.template.spec.resourceClaims`

Description

ResourceClaims defines which ResourceClaims must be allocated and reserved before the Pod is allowed to start. The resources will be made available to those containers which consume them by name. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.resourceClaims[]`

Description

PodResourceClaim references exactly one ResourceClaim through a ClaimSource. It adds a name to it that uniquely identifies the ResourceClaim inside the Pod. Containers that need access to the ResourceClaim reference it with this name.

Type

object

Required

name

Property	Type	Description
<code>name</code>	<code>string</code>	Name uniquely identifies this resource claim inside the pod. This must be a DNS_LABEL.
<code>source</code>	<code>object</code>	Source describes where to find the ResourceClaim.

`.spec.resources.kubernetesResource.spec.template.spec.resourceClaims[].source`

Description

Source describes where to find the ResourceClaim.

Type

object

Property	Type	Description
<code>resourceClaimName</code>	<code>string</code>	ResourceClaimName is the name of a ResourceClaim object in the same namespace as this pod.
<code>resourceClaimTemplateName</code>	<code>string</code>	<p>ResourceClaimTemplateName is the name of a ResourceClaimTemplate object in the same namespace as this pod.</p> <p>The template will be used to create a new ResourceClaim, which will be bound to this pod. When this pod is deleted, the ResourceClaim will also be deleted. The pod name and resource name, along with a generated component, will be used to form a unique name for the ResourceClaim, which will be recorded in <code>pod.status.resourceClaimStatuses</code>.</p> <p>This field is immutable and no changes will be made to the corresponding ResourceClaim by the control plane after creating the ResourceClaim.</p>

`.spec.resources.kubernetesResource.spec.template.spec.schedulingGates`

Description

SchedulingGates is an opaque list of values that if specified will block scheduling the pod. If schedulingGates is not empty, the pod will stay in the SchedulingGated state and the scheduler will not attempt to schedule the pod. SchedulingGates can only be set at pod

creation time, and be removed only afterwards. This is a beta feature enabled by the PodSchedulingReadiness feature gate.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.schedulingGates[]`

Description

PodSchedulingGate is associated to a Pod to guard its scheduling.

Type

object

Required

name

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the scheduling gate. Each scheduling gate must have a unique name field.

`.spec.resources.kubernetesResource.spec.template.spec.securityContext`

Description

SecurityContext holds pod-level security attributes and common container settings. Optional: Defaults to empty. See type description for default values of each field.

Type

object

Property	Type	Description
<code>fsGroup</code>	<code>integer</code>	<p>A special supplemental group that applies to all containers in a pod. Some volume types allow the Kubelet to change the ownership of that volume to be owned by the pod:</p> <ol style="list-style-type: none">1. The owning GID will be the FSGroup2. The setgid bit is set (new files created in the volume will be owned by FSGroup)3. The permission bits are OR'd with rw-rw---- <p>If unset, the Kubelet will not modify the ownership and permissions of any volume. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>fsGroupChangePolicy</code>	<code>string</code>	<p><code>fsGroupChangePolicy</code> defines behavior of changing ownership and permission of the volume before being exposed inside Pod. This field will only apply to volume types which support <code>fsGroup</code> based ownership(and permissions). It will have no effect on ephemeral volume types such as: <code>secret</code>, <code>configmaps</code> and <code>emptydir</code>. Valid values are "OnRootMismatch" and "Always". If not specified, "Always" is used. Note that this field cannot be set when <code>spec.os.name</code> is windows.</p>
<code>runAsGroup</code>	<code>integer</code>	<p>The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in <code>SecurityContext</code>. If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code>, the value specified in <code>SecurityContext</code> takes</p>

Property	Type	Description
		precedence for that container. Note that this field cannot be set when spec.os.name is windows.
<code>runAsNonRoot</code>	<code>boolean</code>	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
<code>runAsUser</code>	<code>integer</code>	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.

Property	Type	Description
<code>seLinuxOptions</code>	<code>object</code>	<p>The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.</p>
<code>seccompProfile</code>	<code>object</code>	<p>The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.</p>
<code>supplementalGroups</code>	<code>array</code>	<p>A list of groups applied to the first process run in each container, in addition to the container's primary GID, the fsGroup (if specified), and group memberships defined in the container image for the uid of the container process. If unspecified, no additional groups are added to any container. Note that group memberships defined in the container image for the uid of the container process are still effective, even if they are not included in this list. Note that this field cannot be set when spec.os.name is windows.</p>
<code>sysctls</code>	<code>array</code>	<p>Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that</p>

Property	Type	Description
		this field cannot be set when spec.os.name is windows.
<code>windowsOptions</code>	<code>object</code>	The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

`.spec.resources.kubernetesResource.spec.template.spec.securityContext.seLinuxOptions`

Description

The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
<code>level</code>	<code>string</code>	Level is SELinux level label that applies to the container.
<code>role</code>	<code>string</code>	Role is a SELinux role label that applies to the container.

Property	Type	Description
type	string	Type is a SELinux type label that applies to the container.
user	string	User is a SELinux user label that applies to the container.

`.spec.resources.kubernetesResource.spec.template.spec.securityContext.seccompProfile`

Description

The seccomp options to use by the containers in this pod. Note that this field cannot be set when `spec.os.name` is `windows`.

Type

object

Required

type

Property	Type	Description
localhostProfile	string	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
type	string	type indicates which kind of seccomp profile will be applied. Valid options are:

Property	Type	Description
		Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

`.spec.resources.kubernetesResource.spec.template.spec.securityContext.supplementalGroups`

Description

A list of groups applied to the first process run in each container, in addition to the container's primary GID, the fsGroup (if specified), and group memberships defined in the container image for the uid of the container process. If unspecified, no additional groups are added to any container. Note that group memberships defined in the container image for the uid of the container process are still effective, even if they are not included in this list. Note that this field cannot be set when spec.os.name is windows.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.securityContext.supplementalGroups[]`

Type

integer

`.spec.resources.kubernetesResource.spec.template.spec.securityContext.sysctls`

Description

Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when

spec.os.name is windows.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.securityContext.sysctls[]`

Description

Sysctl defines a kernel parameter to be set

Type

object

Required

name

value

Property	Type	Description
<code>name</code>	<code>string</code>	Name of a property to set
<code>value</code>	<code>string</code>	Value of a property to set

`.spec.resources.kubernetesResource.spec.template.spec.securityContext.windowsOptions`

Description

The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

object

Property	Type	Description
<code>gmsaCredentialSpec</code>	<code>string</code>	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa) inlines the contents of the GMSA credential spec named by the <code>GMSACredentialSpecName</code> field.
<code>gmsaCredentialSpecName</code>	<code>string</code>	<code>GMSACredentialSpecName</code> is the name of the GMSA credential spec to use.
<code>hostProcess</code>	<code>boolean</code>	<code>HostProcess</code> determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective <code>HostProcess</code> value (it is not allowed to have a mix of <code>HostProcess</code> containers and non- <code>HostProcess</code> containers). In addition, if <code>HostProcess</code> is true then <code>HostNetwork</code> must also be set to true.
<code>runAsUserName</code>	<code>string</code>	The <code>UserName</code> in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in <code>PodSecurityContext</code> . If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code> , the value specified in <code>SecurityContext</code> takes precedence.

.spec.resources.kubernetesResource.spec.template.spec.tolerations

Description

If specified, the pod's tolerations.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.tolerations[]

Description

The pod this Toleration is attached to tolerates any taint that matches the triple <key,value,effect> using the matching operator <operator>.

Type

object

Property	Type	Description
effect	string	Effect indicates the taint effect to match. Empty means match all taint effects. When specified, allowed values are NoSchedule, PreferNoSchedule and NoExecute.
key	string	Key is the taint key that the toleration applies to. Empty means match all taint keys. If the key is empty, operator must be Exists; this combination means to match all values and all keys.

Property	Type	Description
<code>operator</code>	<code>string</code>	Operator represents a key's relationship to the value. Valid operators are Exists and Equal. Defaults to Equal. Exists is equivalent to wildcard for value, so that a pod can tolerate all taints of a particular category.
<code>tolerationSeconds</code>	<code>integer</code>	TolerationSeconds represents the period of time the toleration (which must be of effect NoExecute, otherwise this field is ignored) tolerates the taint. By default, it is not set, which means tolerate the taint forever (do not evict). Zero and negative values will be treated as 0 (evict immediately) by the system.
<code>value</code>	<code>string</code>	Value is the taint value the toleration matches to. If the operator is Exists, the value should be empty, otherwise just a regular string.

`.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints`

Description

TopologySpreadConstraints describes how a group of pods ought to spread across topology domains. Scheduler will schedule pods in a way which abides by the constraints. All topologySpreadConstraints are ANDed.

Type

`array`

.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[]

Description

TopologySpreadConstraint specifies how to spread matching pods among the given topology.

Type

object

Required

maxSkew

topologyKey

whenUnsatisfiable

Property	Type	Description
labelSelector	object	LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.
matchLabelKeys	array	<p>MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector.</p> <p>This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate</p>

Property	Type	Description
		<p>to be enabled (enabled by default).</p> <p>MaxSkew describes the degree to which pods may be unevenly distributed. When <code>whenUnsatisfiable=DoNotSchedule</code>, it is the maximum permitted difference between the number of matching pods in the target topology and the global minimum. The global minimum is the minimum number of matching pods in an eligible domain or zero if the number of eligible domains is less than MinDomains. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 2/2/1: In this case, the global minimum is 1. zone1 zone2 zone3 P P P P P </p> <ul style="list-style-type: none"> if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become 2/2/2; scheduling it onto zone1(zone2) would make the ActualSkew(3-1) on zone1(zone2) violate MaxSkew(1). if MaxSkew is 2, incoming pod can be scheduled onto any zone. When <code>whenUnsatisfiable=ScheduleAnyway</code>, it is used to give higher precedence to topologies that satisfy it. It's a required field. Default value is 1 and 0 is not allowed.
<p><code>maxSkew</code></p>	<p><code>integer</code></p>	<p>MinDomains indicates a minimum number of eligible domains. When the number of eligible domains with matching topology keys is less than minDomains, Pod Topology Spread treats "global</p>

Property	Type	Description
		<p>minimum" as 0, and then the calculation of Skew is performed. And when the number of eligible domains with matching topology keys equals or greater than minDomains, this value has no effect on scheduling. As a result, when the number of eligible domains is less than minDomains, scheduler won't schedule more than maxSkew Pods to those domains. If value is nil, the constraint behaves as if MinDomains is equal to 1. Valid values are integers greater than 0. When value is not nil, WhenUnsatisfiable must be DoNotSchedule.</p> <p>For example, in a 3-zone cluster, MaxSkew is set to 2, MinDomains is set to 5 and pods with the same labelSelector spread as 2/2/2: zone1 zone2 zone3 P P P P P P The number of domains is less than 5(MinDomains), so "global minimum" is treated as 0. In this situation, new pod with the same labelSelector cannot be scheduled, because computed skew will be 3(3 - 0) if new Pod is scheduled to any of the three zones, it will violate MaxSkew.</p> <p>This is a beta field and requires the MinDomainsInPodTopologySpread feature gate to be enabled (enabled by default).</p>
nodeAffinityPolicy	string	<p>NodeAffinityPolicy indicates how we will treat Pod's nodeAffinity/nodeSelector when calculating pod topology spread skew. Options are:</p> <ul style="list-style-type: none"> Honor: only nodes matching nodeAffinity/nodeSelector are included in the calculations.

Property	Type	Description
		<ul style="list-style-type: none"> Ignore: nodeAffinity/nodeSelector are ignored. All nodes are included in the calculations. <p>If this value is nil, the behavior is equivalent to the Honor policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.</p>
<code>nodeTaintsPolicy</code>	<code>string</code>	<p>NodeTaintsPolicy indicates how we will treat node taints when calculating pod topology spread skew. Options are:</p> <ul style="list-style-type: none"> Honor: nodes without taints, along with tainted nodes for which the incoming pod has a toleration, are included. Ignore: node taints are ignored. All nodes are included. <p>If this value is nil, the behavior is equivalent to the Ignore policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.</p>
<code>topologyKey</code>	<code>string</code>	<p>TopologyKey is the key of node labels. Nodes that have a label with this key and identical values are considered to be in the same topology. We consider each <key, value> as a "bucket", and try to put balanced number of pods into each bucket. We define a domain as a particular instance of a topology. Also, we define an eligible domain as a domain whose nodes meet the requirements of</p>

Property	Type	Description
		nodeAffinityPolicy and nodeTaintsPolicy. e.g. If TopologyKey is "kubernetes.io/hostname", each Node is a domain of that topology. And, if TopologyKey is "topology.kubernetes.io/zone", each zone is a domain of that topology. It's a required field.
whenUnsatisfiable	string	<p>WhenUnsatisfiable indicates how to deal with a pod if it doesn't satisfy the spread constraint.</p> <ul style="list-style-type: none"> DoNotSchedule (default) tells the scheduler not to schedule it. ScheduleAnyway tells the scheduler to schedule the pod in any location, but giving higher precedence to topologies that would help reduce the skew. A constraint is considered "Unsatisfiable" for an incoming pod if and only if every possible node assignment for that pod would violate "MaxSkew" on some topology. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 3/1/1: zone1 zone2 zone3 P P P P P If WhenUnsatisfiable is set to DoNotSchedule, incoming pod can only be scheduled to zone2(zone3) to become 3/2/1(3/1/2) as ActualSkew(2-1) on zone2(zone3) satisfies MaxSkew(1). In other words, the cluster can still be imbalanced, but scheduler won't make it <i>more</i> imbalanced. It's a required field.

.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[].labelSelector

Description

LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.

Type

object

Property	Type	Description
matchExpressions	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.
matchLabels	object	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

`.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[].labelSelector.matchExpressions`

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[]`

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

`.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values`

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[].labelSelector.matchLabels`

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

`.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[].matchLabelKeys`

Description

MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.topologySpreadConstraints[].matchLabelKeys[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.volumes`

Description

List of volumes that can be mounted by containers belonging to the pod. More info: <https://kubernetes.io/docs/concepts/storage/volumes>

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.volumes[]`

Description

Volume represents a named volume in a pod that may be accessed by any container in the pod.


Type

`object`

Required

`name`

Property	Type	Description
<code>awsElasticBlockStore</code>	object	awsElasticBlockStore represents an AWS Disk resource mounted on a kubelet's host machine and then exposed to the pod. https://kubernetes.io/docs/concepts/storage/volumes#aws-elastic-block-store
<code>azureDisk</code>	object	azureDisk represents an Azure Data Disk mount on the host and mounted to the pod.
<code>azureFile</code>	object	azureFile represents an Azure File Service mount on the host and mounted to the pod.
<code>cephfs</code>	object	cephFS represents a Ceph FS mount on the host that shares a pod lifecycle.
<code>cinder</code>	object	cinder represents a cinder volume attached and mounted on the host machine. More info: https://examples.k8s.io/mysql-cinder-pd/
<code>configMap</code>	object	configMap represents a configMap that should populate the container's filesystem.
<code>csi</code>	object	csi (Container Storage Interface) represents ephemeral storage volumes handled by certain external CSI drivers (Beta feature).

Property	Type	Description
downwardAPI	object	downwardAPI represents downward API about the pod populate this volume
emptyDir	object	emptyDir represents a temporary directory that shares More info: https://kubernetes.io/docs/concepts/storage/ 
ephemeral	object	<p>ephemeral represents a volume that is handled by a cl The volume's lifecycle is tied to the pod that defines it - before the pod starts, and deleted when the pod is rem</p> <p>Use this if: a) the volume is only needed while the pod i normal volumes like restoring from snapshot or capacit needed, c) the storage driver is specified through a stoi the storage driver supports dynamic volume provisionir PersistentVolumeClaim (see EphemeralVolumeSource information on the connection between this volume typ PersistentVolumeClaim).</p> <p>Use PersistentVolumeClaim or one of the vendor-speci volumes that persist for longer than the lifecycle of an ii</p> <p>Use CSI for light-weight local ephemeral volumes if the meant to be used that way - see the documentation of t information.</p> <p>A pod can use both types of ephemeral volumes and p at the same time.</p>

Property	Type	Description
<code>fc</code>	object	<code>fc</code> represents a Fibre Channel resource that is attached to the host machine and then exposed to the pod.
<code>flexVolume</code>	object	<code>flexVolume</code> represents a generic volume resource that is dynamically provisioned/attached using an exec based plugin.
<code>flocker</code>	object	<code>flocker</code> represents a Flocker volume attached to a kubelet. This depends on the Flocker control service being running on the
<code>gcePersistentDisk</code>	object	<code>gcePersistentDisk</code> represents a GCE Disk resource that is attached to the kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#gce-persistent-disk
<code>gitRepo</code>	object	<code>gitRepo</code> represents a git repository at a particular revision. <code>GitRepo</code> is deprecated. To provision a container with a git repository, use <code>EmptyDir</code> into an InitContainer that clones the repo using <code>git</code> , and then expose the <code>EmptyDir</code> into the Pod's container.
<code>glusterfs</code>	object	<code>glusterfs</code> represents a Glusterfs mount on the host that is shared with the pod. More info: https://examples.k8s.io/volumes/glusterfs/
<code>hostPath</code>	object	<code>hostPath</code> represents a pre-existing file or directory on the host that is directly exposed to the container. This is general purpose and can be used to mount agents or other privileged things that are allowed to see

Property	Type	Description
		Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#h
<code>iscsi</code>	object	iscsi represents an ISCSI Disk resource that is attached to the host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md
<code>name</code>	string	name of the volume. Must be a DNS_LABEL and unique within the namespace. More info: https://kubernetes.io/docs/concepts/overview/objects/names/#names
<code>nfs</code>	object	nfs represents an NFS mount on the host that shares a folder over the network. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs
<code>persistentVolumeClaim</code>	object	persistentVolumeClaimVolumeSource represents a reference to a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims
<code>photonPersistentDisk</code>	object	photonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine
<code>portworxVolume</code>	object	portworxVolume represents a portworx volume attached to the kubelets host machine

Property	Type	Description
projected	object	projected items for all in one resources secrets, config downward API
quobyte	object	quobyte represents a Quobyte mount on the host that s lifetime
rbd	object	rbd represents a Rados Block Device mount on the hos pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md
scaleIO	object	scaleIO represents a ScaleIO persistent volume attach Kubernetes nodes.
secret	object	secret represents a secret that should populate this vol https://kubernetes.io/docs/concepts/storage/volumes#s
storageos	object	storageOS represents a StorageOS volume attached a Kubernetes nodes.
vsphereVolume	object	vsphereVolume represents a vSphere volume attached kubelets host machine

.spec.resources.kubernetesResource.spec.template.spec.volumes[].awsElasticBlockStore

Description

awsElasticBlockStore represents an AWS Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info:

<https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore>

Type

object

Required

volumeID

Property	Type	Description
fsType	string	fsType is the filesystem type of the volume that you want to mount. 1 Ensure that the filesystem type is supported by the host operating sy Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspe More info: https://kubernetes.io/docs/concepts/storage/volumes#awselasticblo
partition	integer	partition is the partition in the volume that you want to mount. If omit the default is to mount by volume name. Examples: For volume /dev you specify the partition as "1". Similarly, the volume partition for /de is "0" (or you can leave the property empty).
readOnly	boolean	readOnly value true will force the readOnly setting in VolumeMounts info: https://kubernetes.io/docs/concepts/storage/volumes#awselasticblo
volumeID	string	volumeID is unique ID of the persistent disk resource in AWS (Amazon EBS volume). More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/storage/volumes#awselasticblob

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].azureDisk`

Description

azureDisk represents an Azure Data Disk mount on the host and bind mount to the pod.

Type

object

Required

diskName

diskURI

Property	Type	Description
<p> cachingMode </p>	<p> string </p>	<p> cachingMode is the Host Caching mode: None, Read Only, Read Write. </p>
<p> diskName </p>	<p> string </p>	<p> diskName is the Name of the data disk in the blob storage </p>
<p> diskURI </p>	<p> string </p>	<p> diskURI is the URI of data disk in the blob storage </p>
<p> fsType </p>	<p> string </p>	<p> fsType is Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. </p>

Property	Type	Description
<code>kind</code>	<code>string</code>	kind expected values are Shared: multiple blob disks per storage account Dedicated: single blob disk per storage account Managed: azure managed data disk (only in managed availability set). defaults to shared
<code>readOnly</code>	<code>boolean</code>	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].azureFile`

Description

azureFile represents an Azure File Service mount on the host and bind mount to the pod.

Type

`object`

Required

`secretName`

`shareName`

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>secretName</code>	<code>string</code>	secretName is the name of secret that contains Azure Storage Account Name and Key

Property	Type	Description
shareName	string	shareName is the azure share Name

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].cephfs`

Description

cephFS represents a Ceph FS mount on the host that shares a pod's lifetime

Type

object

Required

monitors

Property	Type	Description
monitors	array	monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it
path	string	path is Optional: Used as the mounted root, rather than the full Ceph tree, default is /

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it
<code>secretFile</code>	<code>string</code>	secretFile is Optional: SecretFile is the path to key ring for User, default is /etc/ceph/user.secret More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it
<code>secretRef</code>	<code>object</code>	secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it
<code>user</code>	<code>string</code>	user is optional: User is the rados user name, default is admin More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].cephfs.monitors`

Description

monitors is Required: Monitors is a collection of Ceph monitors More info:
<https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it>

Type

array

.spec.resources.kubernetesResource.spec.template.spec.volumes[].cephfs.monitors[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.volumes[].cephfs.secretRef

Description

secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: <https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it>

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names

.spec.resources.kubernetesResource.spec.template.spec.volumes[].cinder

Description

cinder represents a cinder volume attached and mounted on kubelets host machine. More info: <https://examples.k8s.io/mysql-cinder-pd/README.md>

Type

object

Required

volumeID

Property	Type	Description
fsType	string	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.md
readOnly	boolean	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/mysql-cinder-pd/README.md
secretRef	object	secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.
volumeID	string	volumeID used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md

.spec.resources.kubernetesResource.spec.template.spec.volumes[].cinder.secretRef

Description

secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].configMap`

Description

configMap represents a configMap that should populate this volume

Type

object

Property	Type	Description
defaultMode	integer	defaultMode is optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
items	array	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If

Property	Type	Description
		specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '.' path or start with '..'.
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
optional	boolean	optional specify whether the ConfigMap or its keys must be defined

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].configMap.items`

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '.' path or start with '..'.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].configMap.items[]`

Description

Maps a string key to a path within a volume.

Type

object

Required

key

path

Property	Type	Description
key	string	key is the key to project.
mode	integer	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
path	string	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].csi`

Description

csi (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature).

Type

`object`**Required**`driver`

Property	Type	Description
<code>driver</code>	<code>string</code>	driver is the name of the CSI driver that handles this volume. Consult with your admin for the correct name as registered in the cluster.
<code>fsType</code>	<code>string</code>	fsType to mount. Ex. "ext4", "xfs", "ntfs". If not provided, the empty value is passed to the associated CSI driver which will determine the default filesystem to apply.
<code>nodePublishSecretRef</code>	<code>object</code>	nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.
<code>readOnly</code>	<code>boolean</code>	readOnly specifies a read-only configuration for the volume. Defaults to false (read/write).

Property	Type	Description
volumeAttributes	object	volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].csi.nodePublishSecretRef`

Description

nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].csi.volumeAttributes`

Description

volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

Type

object

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].downwardAPI`

Description

downwardAPI represents downward API about the pod that should populate this volume

Type

object

Property	Type	Description
<code>defaultMode</code>	<code>integer</code>	Optional: mode bits to use on created files by default. Must be a Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
<code>items</code>	<code>array</code>	Items is a list of downward API volume file

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].downwardAPI.items`

Description

Items is a list of downward API volume file

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].downwardAPI.items[]`

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

object

Required

path

Property	Type	Description
<code>fieldRef</code>	<code>object</code>	Required: Selects a field of the pod: only annotations, labels, name and namespace are supported.
<code>mode</code>	<code>integer</code>	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
<code>path</code>	<code>string</code>	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'

Property	Type	Description
<code>resourceFieldRef</code>	<code>object</code>	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].downwardAPI.items[].fieldRef`

Description

Required: Selects a field of the pod: only annotations, labels, name and namespace are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	Version of the schema the FieldPath is written in terms of, defaults to "v1".
<code>fieldPath</code>	<code>string</code>	Path of the field to select in the specified API version.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].downwardAPI.items[].resourceFieldRef`

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

object

Required

resource

Property	Type	Description
containerName	string	Container name: required for volumes, optional for env vars
divisor		Specifies the output format of the exposed resources, defaults to "1"
resource	string	Required: resource to select

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].emptyDir`

Description

emptyDir represents a temporary directory that shares a pod's lifetime. More info: <https://kubernetes.io/docs/concepts/storage/volumes#emptydir>

Type

object

Property	Type	Description
<code>medium</code>	<code>string</code>	<p>medium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info:</p> <p>https://kubernetes.io/docs/concepts/storage/volumes#emptydir</p>
<code>sizeLimit</code>		<p>sizeLimit is the total amount of local storage required for this EmptyDir volume. The size limit is also applicable for memory medium. The maximum usage on memory medium EmptyDir would be the minimum value between the SizeLimit specified here and the sum of memory limits of all containers in a pod. The default is nil which means that the limit is undefined. More info:</p> <p>https://kubernetes.io/docs/concepts/storage/volumes#emptydir</p>

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral`

Description

ephemeral represents a volume that is handled by a cluster storage driver. The volume's lifecycle is tied to the pod that defines it - it will be created before the pod starts, and deleted when the pod is removed. Use this if: a) the volume is only needed while the pod runs, b) features of normal volumes like restoring from snapshot or capacity tracking are needed, c) the storage driver is specified through a storage class, and d) the storage driver supports dynamic volume provisioning through a PersistentVolumeClaim (see `EphemeralVolumeSource` for more information on the connection between this volume type and `PersistentVolumeClaim`). Use `PersistentVolumeClaim` or one of the vendor-specific APIs for volumes that persist for longer than the lifecycle of an individual pod. Use CSI for

light-weight local ephemeral volumes if the CSI driver is meant to be used that way - see the documentation of the driver for more information. A pod can use both types of ephemeral volumes and persistent volumes at the same time.

Type

object

Property	Type	Description
		<p>Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be <code><pod name>-<volume name></code> where <code><volume name></code> is the name from the <code>PodSpec.Volumes</code> array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long).</p>
<code>volumeClaimTemplate</code>	object	<p>An existing PVC with that name that is not owned by the pod will <i>not</i> be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster.</p> <p>This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created.</p> <p>Required, must not be nil.</p>

.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate

Description

Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be ``<pod name>-<volume name>`` where ``<volume name>`` is the name from the ``PodSpec.Volumes`` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created. Required, must not be nil.

Type

object

Required

spec

Property	Type	Description
metadata	ObjectMeta	May contain labels and annotations that will be copied into the PVC when creating it. No other fields are allowed and will be rejected during validation.
spec	object	The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec

Description

The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

Type

object

Property	Type	Description
accessModes	array	<p>accessModes contains the desired access modes volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistentvolumes#access-modes-1</p>
dataSource	object	<p>dataSource field can be used to specify either:</p> <ul style="list-style-type: none"> An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) An existing PVC (PersistentVolumeClaim) If the provisioner or an external controller can support the specified data source, it will create a new volume based on the contents of the specified data source. When the AnyVolumeDataSource feature gate is enabled, dataSource contents will be copied to dataSourceRef, and dataSourceRef contents will be copied to dataSource when dataSourceRef.namespace is not specified. If dataSourceRef.namespace is specified, then dataSourceRef contents will not be copied to dataSource.

Property	Type	Description
<code>dataSourceRef</code>	<code>object</code>	<p><code>dataSourceRef</code> specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any object from a non-empty API group (non core object) or a <code>PersistentVolumeClaim</code> object. When this field is specified, volume binding will only succeed if the type of the specified object matches some installed volume populator or dynamic provisioner. This field will require the functionality of the <code>dataSource</code> field and as such both fields are non-empty, they must have the same value. For backwards compatibility, when <code>namespace</code> isn't specified in <code>dataSourceRef</code>, both fields (<code>dataSource</code> and <code>dataSourceRef</code>) will be set to the same value automatically if one of them is empty and the other is non-empty. When <code>namespace</code> is specified in <code>dataSourceRef</code>, <code>dataSource</code> isn't set to the same value and must be empty. There are three important differences between <code>dataSource</code> and <code>dataSourceRef</code></p> <ul style="list-style-type: none">• While <code>dataSource</code> only allows two specific type objects, <code>dataSourceRef</code> allows any non-core object as well as <code>PersistentVolumeClaim</code> objects.• While <code>dataSource</code> ignores disallowed values (dropping them), <code>dataSourceRef</code> preserves all values, and generates an error if a disallowed value is specified.• While <code>dataSource</code> only allows local objects, <code>dataSourceRef</code> allows objects in any namespace (Beta) Using this field requires the <code>AnyVolumeDataSource</code> feature gate to be enabled (Alpha) Using the <code>namespace</code> field of <code>dataSourceRef</code> requires the <code>CrossNamespaceVolumeDataSource</code> feature gate to be enabled.

Property	Type	Description
<code>resources</code>	<code>object</code>	<p><code>resources</code> represents the minimum resources the volume should have. If <code>RecoverVolumeExpansionFailure</code> feature is enable users are allowed to specify resource requirement that are lower than previous value but must still be higher than capacity recorded in the status field of claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources</p>
<code>selector</code>	<code>object</code>	<p><code>selector</code> is a label query over volumes to consider binding.</p>
<code>storageClassName</code>	<code>string</code>	<p><code>storageClassName</code> is the name of the StorageClass required by the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#class-1</p>
<code>volumeAttributesClassName</code>	<code>string</code>	<p><code>volumeAttributesClassName</code> may be used to set the VolumeAttributesClass used by this claim. If specified the CSI driver will create or update the volume with attributes defined in the corresponding VolumeAttributesClass. This has a different purpose than <code>storageClassName</code>, it can be changed after the claim is created. An empty string value means that VolumeAttributesClass will be applied to the claim it's not allowed to reset this field to empty string once it's set. If unspecified and the PersistentVolumeClaim is unbound, the default VolumeAttributesClass will be</p>

Property	Type	Description
		by the persistentvolume controller if it exists. If the resource referred to by volumeAttributesClass does not exist, this PersistentVolumeClaim will be set to Pending state, as reflected by the modifyVolumeStatus field, until such as a resource exists. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#volumeattributesclass (Alpha) Using this field requires the VolumeAttributesClass feature gate to be enabled.
volumeMode	string	volumeMode defines what type of volume is required by the claim. Value of Filesystem is implied when not included in claim spec.
volumeName	string	volumeName is the binding reference to the PersistentVolume backing this claim.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes`

Description

accessModes contains the desired access modes the volume should have. More info: <https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1>

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource`

Description

dataSource field can be used to specify either: * An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) * An existing PVC (PersistentVolumeClaim) If the provisioner or an external controller can support the specified data source, it will create a new volume based on the contents of the specified data source. When the AnyVolumeDataSource feature gate is enabled, dataSource contents will be copied to dataSourceRef, and dataSourceRef contents will be copied to dataSource when dataSourceRef.namespace is not specified. If the namespace is specified, then dataSourceRef will not be copied to dataSource.

Type

object

Required

kind

name

Property	Type	Description
apiGroup	string	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.

Property	Type	Description
kind	string	Kind is the type of resource being referenced
name	string	Name is the name of resource being referenced

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef`

Description

dataSourceRef specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any object from a non-empty API group (non core object) or a PersistentVolumeClaim object. When this field is specified, volume binding will only succeed if the type of the specified object matches some installed volume populator or dynamic provisioner. This field will replace the functionality of the dataSource field and as such if both fields are non-empty, they must have the same value. For backwards compatibility, when namespace isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to the same value automatically if one of them is empty and the other is non-empty. When namespace is specified in dataSourceRef, dataSource isn't set to the same value and must be empty. There are three important differences between dataSource and dataSourceRef: * While dataSource only allows two specific types of objects, dataSourceRef allows any non-core object, as well as PersistentVolumeClaim objects. * While dataSource ignores disallowed values (dropping them), dataSourceRef preserves all values, and generates an error if a disallowed value is specified. * While dataSource only allows local objects, dataSourceRef allows objects in any namespaces. (Beta) Using this field requires the AnyVolumeDataSource feature gate to be enabled. (Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

Type

object

Required

kind

name

Property	Type	Description
apiGroup	string	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
kind	string	Kind is the type of resource being referenced
name	string	Name is the name of resource being referenced
namespace	string	Namespace is the namespace of resource being referenced Note that when a namespace is specified, a gateway.networking.k8s.io/ReferenceGrant object is required in the referent namespace to allow that namespace's owner to accept the reference. See the ReferenceGrant documentation for details. (Alpha) This field requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources

Description

resources represents the minimum resources the volume should have. If RecoverVolumeExpansionFailure feature is enabled users are allowed to specify resource requirements that are lower than previous value but must still be higher than capacity

recorded in the status field of the claim. More info:

<https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources>

Type

object

Property	Type	Description
limits	object	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/
requests	object	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.limits`

Description

Limits describes the maximum amount of compute resources allowed. More info:

<https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.requests`

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info:

<https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector`

Description

selector is a label query over volumes to consider for binding.

Type

object

Property	Type	Description
<code>matchExpressions</code>	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	object	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions`

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[]`

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
<code>values</code>	<code>array</code>	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values`

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchLabels`

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

.spec.resources.kubernetesResource.spec.template.spec.volumes[].fc

Description

fc represents a Fibre Channel resource that is attached to a kubelet's host machine and then exposed to the pod.

Type

object

Property	Type	Description
fsType	string	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
lun	integer	lun is Optional: FC target lun number
readOnly	boolean	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
targetWWNs	array	targetWWNs is Optional: FC target worldwide names (WWNs)

Property	Type	Description
<code>wwids</code>	<code>array</code>	<code>wwids</code> Optional: FC volume world wide identifiers (wwids) Either <code>wwids</code> or combination of <code>targetWWNs</code> and <code>lun</code> must be set, but not both simultaneously.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].fc.targetWWNs`

Description

`targetWWNs` is Optional: FC target worldwide names (WWNs)

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].fc.targetWWNs[]`

Type

`string`

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].fc.wwids`

Description

`wwids` Optional: FC volume world wide identifiers (wwids) Either `wwids` or combination of `targetWWNs` and `lun` must be set, but not both simultaneously.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].fc.wwid[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].flexVolume`

Description

flexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.

Type

object

Required

driver

Property	Type	Description
driver	string	driver is the name of the driver to use for this volume.
fsType	string	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default filesystem depends on FlexVolume script.
options	object	options is Optional: this field holds extra command options if any.

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	<code>readOnly</code> is Optional: defaults to false (read/write). <code>ReadOnly</code> here will force the <code>ReadOnly</code> setting in <code>VolumeMounts</code> .
<code>secretRef</code>	<code>object</code>	<code>secretRef</code> is Optional: <code>secretRef</code> is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].flexVolume.options`

Description

`options` is Optional: this field holds extra command options if any.

Type

`object`

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].flexVolume.secretRef`

Description

`secretRef` is Optional: `secretRef` is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

Type

`object`

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].flocker`

Description

flocker represents a Flocker volume attached to a kubelet's host machine. This depends on the Flocker control service being running

Type

object

Property	Type	Description
datasetName	string	datasetName is Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
datasetUUID	string	datasetUUID is the UUID of the dataset. This is unique identifier of a Flocker dataset

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].gcePersistentDisk`

Description

gcePersistentDisk represents a GCE Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info:

<https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk>

Type

object

Required

pdName

Property	Type	Description
fsType	string	fsType is filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk
partition	integer	partition is the partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev/sda1, you specify the partition as "1". Similarly, the volume partition for /dev/sda is "0" (or you can leave the property empty). More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk
pdName	string	pdName is unique name of the PD resource in GCE. Used to identify the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk

Property	Type	Description
readOnly	boolean	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistent

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].gitRepo`

Description

gitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a container with a git repo, mount an EmptyDir into an InitContainer that clones the repo using git, then mount the EmptyDir into the Pod's container.

Type

object

Required

repository

Property	Type	Description
directory	string	directory is the target directory name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository. Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.
repository	string	repository is the URL

Property	Type	Description
revision	string	revision is the commit hash for the specified revision.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].glusterfs`

Description

glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: <https://examples.k8s.io/volumes/glusterfs/README.md>

Type

object

Required

endpoints

path

Property	Type	Description
endpoints	string	endpoints is the endpoint name that details Glusterfs topology. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod
path	string	path is the Glusterfs volume path. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod
readOnly	boolean	readOnly here will force the Glusterfs volume to be mounted with read-only permissions. Defaults to false. More info:

Property	Type	Description
		https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].hostPath`

Description

hostPath represents a pre-existing file or directory on the host machine that is directly exposed to the container. This is generally used for system agents or other privileged things that are allowed to see the host machine. Most containers will NOT need this. More info: <https://kubernetes.io/docs/concepts/storage/volumes#hostpath>

Type

object

Required

path

Property	Type	Description
path	string	path of the directory on the host. If the path is a symlink, it will follow the link to the real path. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗
type	string	type for HostPath Volume Defaults to "" More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].iscsi`

Description

iscsi represents an iSCSI Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: <https://examples.k8s.io/volumes/iscsi/README.md>

Type

object

Required

iqn

lun

targetPortal

Property	Type	Description
chapAuthDiscovery	boolean	chapAuthDiscovery defines whether support iSCSI Discovery CHAP authentication
chapAuthSession	boolean	chapAuthSession defines whether support iSCSI Session CHAP authentication
fsType	string	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#iscsi
initiatorName	string	initiatorName is the custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : will be created for the connection.

Property	Type	Description
<code>iqn</code>	<code>string</code>	iqn is the target iSCSI Qualified Name.
<code>iscsiInterface</code>	<code>string</code>	iscsiInterface is the interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
<code>lun</code>	<code>integer</code>	lun represents iSCSI Target Lun number.
<code>portals</code>	<code>array</code>	portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).
<code>readOnly</code>	<code>boolean</code>	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.
<code>secretRef</code>	<code>object</code>	secretRef is the CHAP Secret for iSCSI target and initiator authentication
<code>targetPortal</code>	<code>string</code>	targetPortal is iSCSI Target Portal. The Portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

.spec.resources.kubernetesResource.spec.template.spec.volumes[].iscsi.portals

Description

portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

Type

array

.spec.resources.kubernetesResource.spec.template.spec.volumes[].iscsi.portals[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.volumes[].iscsi.secretRef

Description

secretRef is the CHAP Secret for iSCSI target and initiator authentication

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.resources.kubernetesResource.spec.template.spec.volumes[].nfs

Description

nfs represents an NFS mount on the host that shares a pod's lifetime More info:
<https://kubernetes.io/docs/concepts/storage/volumes#nfs>

Type

object

Required

path

server

Property	Type	Description
path	string	path that is exported by the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs
readOnly	boolean	readOnly here will force the NFS export to be mounted with read-only permissions. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs
server	string	server is the hostname or IP address of the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].persistentVolumeClaim`

Description

`persistentVolumeClaimVolumeSource` represents a reference to a `PersistentVolumeClaim` in the same namespace. More info: <https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims>

Type

object

Required

claimName

Property	Type	Description
claimName	string	claimName is the name of a PersistentVolumeClaim in the same namespace as the pod using this volume. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims
readOnly	boolean	readOnly Will force the ReadOnly setting in VolumeMounts. Default false.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].photonPersistentDisk`

Description

photonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine

Type

object

Required

pdID

Property	Type	Description
fsType	string	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.

Property	Type	Description
pdID	string	pdID is the ID that identifies Photon Controller persistent disk

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].portworxVolume`

Description

portworxVolume represents a portworx volume attached and mounted on kubelets host machine

Type

object

Required

volumeID

Property	Type	Description
fsType	string	fsType represents the filesystem type to mount Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
readOnly	boolean	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
volumeID	string	volumeID uniquely identifies a Portworx volume

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected`

Description

projected items for all in one resources secrets, configmaps, and downward API

Type

object

Property	Type	Description
<code>defaultMode</code>	<code>integer</code>	<code>defaultMode</code> are the mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like <code>fsGroup</code> , and the result can be other mode bits set.
<code>sources</code>	<code>array</code>	<code>sources</code> is the list of volume projections

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources`

Description

`sources` is the list of volume projections

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[]`

Description

Projection that may be projected along with other supported volume types

Type

object

Property	Type	Description
<code>clusterTrustBundle</code>	object	<p>ClusterTrustBundle allows a pod to access the <code>.spec.trustBundle</code> field of ClusterTrustBundle objects in an auto-updating file.</p> <p>Alpha, gated by the ClusterTrustBundleProjection feature gate.</p> <p>ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector.</p> <p>Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.</p>
<code>configMap</code>	object	<p>configMap information about the configMap data to project</p>

Property	Type	Description
<code>downwardAPI</code>	<code>object</code>	downwardAPI information about the downwardAPI data to project
<code>secret</code>	<code>object</code>	secret information about the secret data to project
<code>serviceAccountToken</code>	<code>object</code>	serviceAccountToken is information about the serviceAccountToken data to project

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].clusterTrustBundle`

Description

ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.`

Type

`object`

Required

`path`

Property	Type	Description
<code>labelSelector</code>	<code>object</code>	Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".
<code>name</code>	<code>string</code>	Select a single ClusterTrustBundle by object name. Mutually-exclusive with signerName and labelSelector.
<code>optional</code>	<code>boolean</code>	If true, don't block pod startup if the referenced ClusterTrustBundle(s) aren't available. If using name, then the named ClusterTrustBundle is allowed not to exist. If using signerName, then the combination of signerName and labelSelector is allowed to match zero ClusterTrustBundles.
<code>path</code>	<code>string</code>	Relative path from the volume root to write the bundle.
<code>signerName</code>	<code>string</code>	Select all ClusterTrustBundles that match this signer name. Mutually-exclusive with name. The contents of all selected ClusterTrustBundles will be unified and deduplicated.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector`

Description

Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Type

object

Property	Type	Description
matchExpressions	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.
matchLabels	object	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSel

ector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

object

Required

key

operator

Property	Type	Description
key	string	key is the label key that the selector applies to.
operator	string	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
values	array	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This

array is replaced during a strategic merge patch.

Type

array

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values[]

Type

string

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

object

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].configMap

Description

configMap information about the configMap data to project

Type

object

Property	Type	Description
items	array	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
optional	boolean	optional specify whether the ConfigMap or its keys must be defined

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].configMap.items`

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].configMap.items[]`

Description

Maps a string key to a path within a volume.

Type

object

Required

key

path

Property	Type	Description
key	string	key is the key to project.
mode	integer	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
path	string	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].downwardAPI`

Description

downwardAPI information about the downwardAPI data to project

Type

object

Property	Type	Description
items	array	Items is a list of DownwardAPIVolume file

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].downwardAPI.items

Description

Items is a list of DownwardAPIVolume file

Type

array

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

object

Required

path

Property	Type	Description
<code>fieldRef</code>	<code>object</code>	Required: Selects a field of the pod: only annotations, labels, name and namespace are supported.
<code>mode</code>	<code>integer</code>	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume <code>defaultMode</code> will be used. This might be in conflict with other options that affect the file mode, like <code>fsGroup</code> , and the result can be other mode bits set.
<code>path</code>	<code>string</code>	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the <code>'..'</code> path. Must be utf-8 encoded. The first item of the relative path must not start with <code>'..'</code>
<code>resourceFieldRef</code>	<code>object</code>	Selects a resource of the container: only resources limits and requests (<code>limits.cpu</code> , <code>limits.memory</code> , <code>requests.cpu</code> and <code>requests.memory</code>) are currently supported.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].downwardAPI.items[].fieldRef`

Description

Required: Selects a field of the pod: only annotations, labels, name and namespace are supported.

Type

object

Required

fieldPath

Property	Type	Description
apiVersion	string	Version of the schema the FieldPath is written in terms of, defaults to "v1".
fieldPath	string	Path of the field to select in the specified API version.

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

object

Required

resource

Property	Type	Description
<code>containerName</code>	<code>string</code>	Container name: required for volumes, optional for env vars
<code>divisor</code>		Specifies the output format of the exposed resources, defaults to "1"
<code>resource</code>	<code>string</code>	Required: resource to select

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].secret`

Description

secret information about the secret data to project

Type

`object`

Property	Type	Description
<code>items</code>	<code>array</code>	items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
optional	boolean	optional field specify whether the Secret or its key must be defined

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].secret.items`

Description

items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].secret.items[]`

Description

Maps a string key to a path within a volume.

Type

object

Required

key

path

Property	Type	Description
key	string	key is the key to project.
mode	integer	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
path	string	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.resources.kubernetesResource.spec.template.spec.volumes[].projected.sources[].serviceAccountToken

Description

serviceAccountToken is information about the serviceAccountToken data to project

Type

object

Required

path

Property	Type	Description
<code>audience</code>	<code>string</code>	audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.
<code>expirationSeconds</code>	<code>integer</code>	expirationSeconds is the requested duration of validity of the service account token. As the token approaches expiration, the kubelet volume plugin will proactively rotate the service account token. The kubelet will start trying to rotate the token if the token is older than 80 percent of its time to live or if the token is older than 24 hours. Defaults to 1 hour and must be at least 10 minutes.
<code>path</code>	<code>string</code>	path is the path relative to the mount point of the file to project the token into.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].quobyte`

Description

quobyte represents a Quobyte mount on the host that shares a pod's lifetime

Type

`object`

Required

`registry` `volume`

Property	Type	Description
group	string	group to map volume access to Default is no group
readOnly	boolean	readOnly here will force the Quobyte volume to be mounted with read-only permissions. Defaults to false.
registry	string	registry represents a single or multiple Quobyte Registry services specified as a string as host:port pair (multiple entries are separated with commas) which acts as the central registry for volumes
tenant	string	tenant owning the given Quobyte volume in the Backend Used with dynamically provisioned Quobyte volumes, value is set by the plugin
user	string	user to map volume access to Defaults to serviceaccount user
volume	string	volume is a string that references an already created Quobyte volume by name.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].rbd`

Description

rbd represents a Rados Block Device mount on the host that shares a pod's lifetime. More info: <https://examples.k8s.io/volumes/rbd/README.md>

Type

object

Required

image

monitors

Property	Type	Description
fsType	string	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#rbd
image	string	image is the rados image name. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
keyring	string	keyring is the path to key ring for RBDUser. Default is /etc/ceph/keyring. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
monitors	array	monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Property	Type	Description
pool	string	pool is the rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
readOnly	boolean	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
secretRef	object	secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
user	string	user is the rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].rbd.monitors`

Description

monitors is a collection of Ceph monitors. More info: <https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it>

Type

array

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].rbd.monitors[]`

Type

string

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].rbd.secretRef`

Description

secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: <https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it>

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].scaleIO`

Description

scaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes.

Type

object

Required

gateway

secretRef

system

Property	Type	Description
fsType	string	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
gateway	string	gateway is the host address of the ScaleIO API Gateway.
protectionDomain	string	protectionDomain is the name of the ScaleIO Protection Domain for the configured storage.
readOnly	boolean	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
secretRef	object	secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.
sslEnabled	boolean	sslEnabled Flag enable/disable SSL communication with Gateway, default false
storageMode	string	storageMode indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.

Property	Type	Description
storagePool	string	storagePool is the ScaleIO Storage Pool associated with the protection domain.
system	string	system is the name of the storage system as configured in ScaleIO.
volumeName	string	volumeName is the name of a volume already created in the ScaleIO system that is associated with this volume source.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].scaleIO.secretRef`

Description

secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names

.spec.resources.kubernetesResource.spec.template.spec.volumes[].secret

Description

secret represents a secret that should populate this volume. More info:

<https://kubernetes.io/docs/concepts/storage/volumes#secret>

Type

object

Property	Type	Description
defaultMode	integer	defaultMode is Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
items	array	items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Property	Type	Description
<code>optional</code>	<code>boolean</code>	optional field specify whether the Secret or its keys must be defined
<code>secretName</code>	<code>string</code>	secretName is the name of the secret in the pod's namespace to use. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].secret.items`

Description

items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].secret.items[]`

Description

Maps a string key to a path within a volume.

Type

`object`

Required

key

path

Property	Type	Description
key	string	key is the key to project.
mode	integer	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
path	string	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].storageos`

Description

storageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

object

Property	Type	Description
<code>fsType</code>	<code>string</code>	<code>fsType</code> is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
<code>readOnly</code>	<code>boolean</code>	<code>readOnly</code> defaults to false (read/write). <code>ReadOnly</code> here will force the <code>ReadOnly</code> setting in <code>VolumeMounts</code> .
<code>secretRef</code>	<code>object</code>	<code>secretRef</code> specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
<code>volumeName</code>	<code>string</code>	<code>volumeName</code> is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
<code>volumeNamespace</code>	<code>string</code>	<code>volumeNamespace</code> specifies the scope of the volume within StorageOS. If no namespace is specified then the Pod's namespace will be used. This allows the Kubernetes name scoping to be mirrored within StorageOS for tighter integration. Set <code>VolumeName</code> to any name to override the default behaviour. Set to "default" if you are not using namespaces within StorageOS. Namespaces that do not pre-exist within StorageOS will be created.

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].storageos.secretRef`

Description

secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

`.spec.resources.kubernetesResource.spec.template.spec.volumes[].vsphereVolume`

Description

vsphereVolume represents a vSphere volume attached and mounted on kubelets host machine

Type

object

Required

volumePath

Property	Type	Description
fsType	string	fsType is filesystem type to mount. Must be a filesystem type supported by the host operating

Property	Type	Description
		system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
<code>storagePolicyID</code>	<code>string</code>	storagePolicyID is the storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.
<code>storagePolicyName</code>	<code>string</code>	storagePolicyName is the storage Policy Based Management (SPBM) profile name.
<code>volumePath</code>	<code>string</code>	volumePath is the path that identifies vSphere volume vmdk

`.spec.triggers`

Type

`array`

`.spec.triggers[]`

Description

EventListenerTrigger represents a connection between TriggerBinding, Params, and TriggerTemplate; TriggerBinding provides extracted values for TriggerTemplate to then create resources from. TriggerRef can also be provided instead of TriggerBinding, Interceptors and TriggerTemplate

Type

`object`

Property	Type	Description
<code>bindings</code>	<code>array</code>	
<code>interceptors</code>	<code>array</code>	
<code>name</code>	<code>string</code>	
<code>serviceName</code>	<code>string</code>	ServiceAccountName optionally associates credentials with each trigger; more granular authorization for who is allowed to utilize the associated pipeline vs. defaulting to whatever permissions are associated with the entire EventListener and associated sink facilitates multi-tenant model based scenarios
<code>template</code>	<code>object</code>	
<code>triggerRef</code>	<code>string</code>	

`.spec.triggers[].bindings`

Type

`array`

`.spec.triggers[].bindings[]`

Type

`object`

Property	Type	Description
<code>apiversion</code>	<code>string</code>	APIVersion of the binding ref

Property	Type	Description
<code>kind</code>	<code>string</code>	Kind can only be provided if Ref is also provided. Defaults to TriggerBinding
<code>name</code>	<code>string</code>	Name is the name of the binding param Mutually exclusive with Ref
<code>ref</code>	<code>string</code>	Ref is a reference to a TriggerBinding kind. Mutually exclusive with Name
<code>value</code>	<code>string</code>	Value is the value of the binding param. Can contain JSONPath Has to be pointer since "" is a valid value Required if Name is also specified.

`.spec.triggers[].interceptors`

Type

`array`

`.spec.triggers[].interceptors[]`

Description

TriggerInterceptor provides a hook to intercept and pre-process events

Type

`object`

Required

`ref`

Property	Type	Description
<code>bitbucket</code>	<code>object</code>	BitbucketInterceptor provides a webhook to intercept and pre-process events
<code>cel</code>	<code>object</code>	CELInterceptor provides a webhook to intercept and pre-process events
<code>github</code>	<code>object</code>	Deprecated old fields below
<code>gitlab</code>	<code>object</code>	GitLabInterceptor provides a webhook to intercept and pre-process events
<code>name</code>	<code>string</code>	Optional name to identify the current interceptor configuration
<code>params</code>	<code>array</code>	Params are the params to send to the interceptor
<code>ref</code>	<code>object</code>	Ref refers to the Interceptor to use
<code>webhook</code>	<code>object</code>	WebhookInterceptor refers to an old style webhook interceptor service

`.spec.triggers[].interceptors[].bitbucket`

Description

BitbucketInterceptor provides a webhook to intercept and pre-process events

Type

object

Property	Type	Description
eventTypes	array	
secretRef	object	SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

`.spec.triggers[].interceptors[].bitbucket.eventTypes`

Type

array

`.spec.triggers[].interceptors[].bitbucket.eventTypes[]`

Type

string

`.spec.triggers[].interceptors[].bitbucket.secretRef`

Description

SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

Type

object

Property	Type	Description
secretKey	string	
secretName	string	

`.spec.triggers[].interceptors[].cel`

Description

CELInterceptor provides a webhook to intercept and pre-process events

Type

object

Property	Type	Description
filter	string	
overlays	array	

`.spec.triggers[].interceptors[].cel.overlays`

Type

array

`.spec.triggers[].interceptors[].cel.overlays[]`

Description

CELOverlay provides a way to modify the request body using DeprecatedCEL expressions

Type

object

Property	Type	Description
expression	string	
key	string	

`.spec.triggers[].interceptors[].github`

Description

Deprecated old fields below

Type

object

Property	Type	Description
eventTypes	array	
secretRef	object	SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

`.spec.triggers[].interceptors[].github.eventTypes`

Type

array

`.spec.triggers[].interceptors[].github.eventTypes[]`

Type

string

`.spec.triggers[].interceptors[].github.secretRef`

Description

SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

Type

object

Property	Type	Description
<code>secretKey</code>	string	
<code>secretName</code>	string	

`.spec.triggers[].interceptors[].gitlab`

Description

GitLabInterceptor provides a webhook to intercept and pre-process events

Type

object

Property	Type	Description
<code>eventTypes</code>	array	
<code>secretRef</code>	object	SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

`.spec.triggers[].interceptors[].gitlab.eventTypes`

Type

array

`.spec.triggers[].interceptors[].gitlab.eventTypes[]`

Type

string

`.spec.triggers[].interceptors[].gitlab.secretRef`

Description

SecretRef contains the information required to reference a single secret string This is needed because the other secretRef types are not cross-namespace and do not actually contain the "SecretName" field, which allows us to access a single secret value.

Type

object

Property	Type	Description
<code>secretKey</code>	string	
<code>secretName</code>	string	

`.spec.triggers[].interceptors[].params`

Description

Params are the params to send to the interceptor

Type

array

`.spec.triggers[].interceptors[].params[]`

Description

InterceptorParams defines a key-value pair that can be passed on an interceptor

Type

object

Required

name

value

Property	Type	Description
name	string	
value		

.spec.triggers[].interceptors[].ref

Description

Ref refers to the Interceptor to use

Type

object

Property	Type	Description
apiVersion	string	API version of the referent
kind	string	InterceptorKind indicates the kind of the Interceptor, namespaced or cluster scoped.
name	string	Name of the referent; More info: http://kubernetes.io/docs/user-guide/identifiers#names

.spec.triggers[].interceptors[].webhook

Description

WebhookInterceptor refers to an old style webhook interceptor service

Type

object

Property	Type	Description
header	array	Header is a group of key-value pairs that can be appended to the interceptor request headers. This allows the interceptor to make decisions specific to an EventListenerTrigger.
objectRef	object	ObjectRef is a reference to an object that will resolve to a cluster DNS name to use as the EventInterceptor. Either objectRef or url can be specified
url	string	

.spec.triggers[].interceptors[].webhook.header

Description

Header is a group of key-value pairs that can be appended to the interceptor request headers. This allows the interceptor to make decisions specific to an EventListenerTrigger.

Type

array

.spec.triggers[].interceptors[].webhook.header[]

Description

Param declares an ParamValues to use for the parameter called name.

Type

object

Required

name

value

Property	Type	Description
name	string	
value	object	ParamValue is a type that can hold a single string or string array. Used in JSON unmarshalling so that a single JSON field can accept either an individual string or an array of strings.

`.spec.triggers[].interceptors[].webhook.header[].value`

Description

ParamValue is a type that can hold a single string or string array. Used in JSON unmarshalling so that a single JSON field can accept either an individual string or an array of strings.

Type

object

`.spec.triggers[].interceptors[].webhook.objectRef`

Description

ObjectRef is a reference to an object that will resolve to a cluster DNS name to use as the EventInterceptor. Either objectRef or url can be specified

Type

object

Property	Type	Description
apiVersion	string	API version of the referent.
fieldPath	string	<p>If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field access statement, such as <code>desiredState.manifest.containers[2]</code>. For example, if the object reference is to a container within a pod, this would take on a value like: <code>"spec.containers{name}"</code> (where "name" refers to the name of the container that triggered the event) or if no container name is specified <code>"spec.containers[2]"</code> (container with index 2 in this pod). This syntax is chosen only to have some well-defined way of referencing a part of an object.</p>
kind	string	<p>Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</p>
name	string	<p>Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names</p>
namespace	string	<p>Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/</p>

Property	Type	Description
resourceVersion	string	Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency
uid	string	UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids

.spec.triggers[].template

Type

object

Property	Type	Description
apiversion	string	
ref	string	
spec	object	TriggerTemplateSpec holds the desired state of TriggerTemplate

.spec.triggers[].template.spec

Description

TriggerTemplateSpec holds the desired state of TriggerTemplate

Type

object

Property	Type	Description
params	array	
resourcetemplates	array	

`.spec.triggers[].template.spec.params`

Type

array

`.spec.triggers[].template.spec.params[]`

Description

ParamSpec defines an arbitrary named input whose value can be supplied by a `Param`.

Type

object

Required

name

Property	Type	Description
default	string	Default is the value a parameter takes if no input value via a Param is supplied.
description	string	Description is a user-facing description of the parameter that may be used to populate a UI.

Property	Type	Description
name	string	Name declares the name by which a parameter is referenced.

`.spec.triggers[].template.spec.resourcetemplates`

Type

array

`.spec.triggers[].template.spec.resourcetemplates[]`

Description

TriggerResourceTemplate describes a resource to create

Type

object

`.status`

Description

EventListenerStatus holds the status of the EventListener

Type

object

Required

configuration

Property	Type	Description
address	object	Address is a single Addressable address. If Addresses is present, Address will be ignored by

Property	Type	Description
		clients.
<code>addresses</code>	<code>array</code>	Addresses is a list of addresses for different protocols (HTTP and HTTPS) If Addresses is present, Address must be ignored by clients.
<code>annotations</code>	<code>object</code>	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
<code>conditions</code>	<code>array</code>	Conditions the latest available observations of a resource's current state.
<code>configuration</code>	<code>object</code>	Configuration stores configuration for the EventListener service
<code>observedGeneration</code>	<code>integer</code>	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.address

Description

Address is a single Addressable address. If Addresses is present, Address will be ignored by clients.

Type

object

Property	Type	Description
CACerts	string	CACerts is the Certification Authority (CA) certificates in PEM format according to https://www.rfc-editor.org/rfc/rfc7468 .
hostname	string	
name	string	Name is the name of the address.
url	string	

.status.addresses

Description

Addresses is a list of addresses for different protocols (HTTP and HTTPS) If Addresses is present, Address must be ignored by clients.

Type

array

.status.addresses[]

Description

Addressable provides a generic mechanism for a custom resource definition to indicate a destination for message delivery. Addressable is the schema for the destination information. This is typically stored in the object's `status`, as this information may be generated by the controller.

Type

object

Property	Type	Description
CACerts	string	CACerts is the Certification Authority (CA) certificates in PEM format according to https://www.rfc-editor.org/rfc/rfc7468 .
hostname	string	
name	string	Name is the name of the address.
url	string	

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

object

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

array

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: <https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties>

Type

object

Required

status

type

Property	Type	Description
<code>lastTransitionTime</code>	<code>string</code>	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
<code>message</code>	<code>string</code>	A human readable message indicating details about the transition.
<code>reason</code>	<code>string</code>	The reason for the condition's last transition.
<code>severity</code>	<code>string</code>	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
<code>status</code>	<code>string</code>	Status of the condition, one of True, False, Unknown.

Property	Type	Description
<code>type</code>	<code>string</code>	Type of condition.

.status.configuration

Description

Configuration stores configuration for the EventListener service

Type

`object`

Required

`generatedName`

Property	Type	Description
<code>generatedName</code>	<code>string</code>	GeneratedResourceName is the name given to all resources reconciled by the EventListener

API Endpoints

The following API endpoints are available:

- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/eventlisteners`
 - `DELETE` : delete collection of EventListener
 - `GET` : list objects of kind EventListener
 - `POST` : create a new EventListener
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/eventlisteners/{name}`

- **DELETE** : delete the specified EventListener
- **GET** : read the specified EventListener
- **PATCH** : partially update the specified EventListener
- **PUT** : replace the specified EventListener
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/eventlisteners/{name}/status`
 - **GET** : read status of the specified EventListener
 - **PATCH** : partially update status of the specified EventListener
 - **PUT** : replace status of the specified EventListener

`/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/eventlisteners`

HTTP method

DELETE

Description

delete collection of EventListener

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind EventListener

HTTP responses

HTTP code	Response body
200 - OK	<code>EventListenerList</code> schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new EventListener

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	EventListener schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	EventListener schema
201 - Created	EventListener schema
202 - Accepted	EventListener schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/eventlisteners/{name}

HTTP method

DELETE

Description

delete the specified EventListener

Query parameters

Parameter	Type	Description
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified EventListener

HTTP responses

HTTP code	Response body
200 - OK	<code>EventListener</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified EventListener

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore:

Parameter	Type	Description
		This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>EventListener</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified EventListener

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

Parameter	Type	Description
<code>fieldValidation</code>	<code>string</code>	<p><code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are:</p> <ul style="list-style-type: none"> - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+. - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>EventListener</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>EventListener</code> schema
201 - Created	<code>EventListener</code> schema
401 - Unauthorized	Empty

`/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/eventlisteners/{name}/status`

HTTP method

GET

Description

read status of the specified EventListener

HTTP responses

HTTP code	Response body
200 - OK	<code>EventListener</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified EventListener

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default

Parameter	Type	Description
		in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>EventListener</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace status of the specified EventListener

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request

Parameter	Type	Description
		will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	EventListener schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	EventListener schema
201 - Created	EventListener schema
401 - Unauthorized	Empty

TriggerBinding

[triggers.tekton.dev/v1beta1]

Description

TriggerBinding defines a mapping of an input event to parameters. This is used to extract information from events to be passed to TriggerTemplates within a Trigger.

Type

object

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources
<code>kind</code>	<code>string</code>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
metadata	ObjectMeta	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
spec	object	Spec holds the desired state of the TriggerBinding
status	object	TriggerBindingStatus defines the observed state of TriggerBinding.

.spec

Description

Spec holds the desired state of the TriggerBinding

Type

object

Property	Type	Description
params	array	Params defines the parameter mapping from the given input event.

.spec.params

Description

Params defines the parameter mapping from the given input event.

Type

array

.spec.params[]

Description

Param defines a string value to be used for a ParamSpec with the same name.

Type

object

Required

name

value

Property	Type	Description
name	string	
value	string	

.status

Description

TriggerBindingStatus defines the observed state of TriggerBinding.

Type

object

API Endpoints

The following API endpoints are available:

- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggerbindings`
 - `DELETE` : delete collection of TriggerBinding
 - `GET` : list objects of kind TriggerBinding

- **POST** : create a new TriggerBinding
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggerbindings/{name}`
 - **DELETE** : delete the specified TriggerBinding
 - **GET** : read the specified TriggerBinding
 - **PATCH** : partially update the specified TriggerBinding
 - **PUT** : replace the specified TriggerBinding
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggerbindings/{name}/status`
 - **GET** : read status of the specified TriggerBinding
 - **PATCH** : partially update status of the specified TriggerBinding
 - **PUT** : replace status of the specified TriggerBinding

`/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggerbindings`

HTTP method

DELETE

Description

delete collection of TriggerBinding

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind TriggerBinding

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerBindingList</code> schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new TriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are

Parameter	Type	Description
		present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	TriggerBinding schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	TriggerBinding schema
201 - Created	TriggerBinding schema
202 - Accepted	TriggerBinding schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggerbindings/{name}

HTTP method

DELETE

Description

delete the specified TriggerBinding

Query parameters

Parameter	Type	Description
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result

Parameter	Type	Description
		in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	Status schema
202 - Accepted	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified TriggerBinding

HTTP responses

HTTP code	Response body
200 - OK	TriggerBinding schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified TriggerBinding

Query parameters

Parameter	Type	Description
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive

Parameter	Type	Description
		will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerBinding</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified TriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>TriggerBinding</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerBinding</code> schema
201 - Created	<code>TriggerBinding</code> schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/triggerbindings/{name}/status

HTTP method

GET

Description

read status of the specified TriggerBinding

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerBinding</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified TriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a

Parameter	Type	Description
		warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>TriggerBinding</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace status of the specified TriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last

Parameter	Type	Description
		duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	TriggerBinding schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	TriggerBinding schema
201 - Created	TriggerBinding schema
401 - Unauthorized	Empty

Interceptor [triggers.tekton.dev/v1alpha1]

Description

Interceptor describes a pluggable interceptor including configuration such as the fields it accepts and its deployment address. The type is based on the Validating/MutatingWebhookConfiguration types for configuring AdmissionWebhooks

Type

object

Required

spec

Specification

Property	Type	Description
apiVersion	string	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources
kind	string	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be

Property	Type	Description
		updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
<code>metadata</code>	<code>ObjectMeta</code>	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
<code>spec</code>	<code>object</code>	InterceptorSpec describes the Spec for an Interceptor
<code>status</code>	<code>object</code>	InterceptorStatus holds the status of the Interceptor

.spec

Description

InterceptorSpec describes the Spec for an Interceptor

Type

`object`

Required

`clientConfig`

Property	Type	Description
<code>clientConfig</code>	<code>object</code>	ClientConfig describes how a client can communicate with the Interceptor

.spec.clientConfig

Description

ClientConfig describes how a client can communicate with the Interceptor

Type

object

Property	Type	Description
caBundle	string	CaBundle is a PEM encoded CA bundle which will be used to validate the clusterinterceptor server certificate
service	object	Service is a reference to a Service object where the interceptor is running Mutually exclusive with URL
url	string	URL is a fully formed URL pointing to the interceptor Mutually exclusive with Service

.spec.clientConfig.service

Description

Service is a reference to a Service object where the interceptor is running Mutually exclusive with URL

Type

object

Required

name

namespace

Property	Type	Description
<code>name</code>	<code>string</code>	Name is the name of the service
<code>namespace</code>	<code>string</code>	Namespace is the namespace of the service
<code>path</code>	<code>string</code>	Path is an optional URL path
<code>port</code>	<code>integer</code>	Port is a valid port number

.status

Description

InterceptorStatus holds the status of the Interceptor

Type

`object`

Property	Type	Description
<code>address</code>	<code>object</code>	Address is a single Addressable address. If Addresses is present, Address will be ignored by clients.
<code>addresses</code>	<code>array</code>	Addresses is a list of addresses for different protocols (HTTP and HTTPS) If Addresses is present, Address must be ignored by clients.

Property	Type	Description
annotations	object	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
conditions	array	Conditions the latest available observations of a resource's current state.
observedGeneration	integer	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.address

Description

Address is a single Addressable address. If Addresses is present, Address will be ignored by clients.

Type

object

Property	Type	Description
CACerts	string	CACerts is the Certification Authority (CA) certificates in PEM format according to https://www.rfc-editor.org/rfc/rfc7468 .
audience	string	Audience is the OIDC audience for this address.

Property	Type	Description
name	string	Name is the name of the address.
url	string	

.status.addresses

Description

Addresses is a list of addresses for different protocols (HTTP and HTTPS) If Addresses is present, Address must be ignored by clients.

Type

array

.status.addresses[]

Description

Addressable provides a generic mechanism for a custom resource definition to indicate a destination for message delivery. Addressable is the schema for the destination information. This is typically stored in the object's `status`, as this information may be generated by the controller.

Type

object

Property	Type	Description
CACerts	string	CACerts is the Certification Authority (CA) certificates in PEM format according to https://www.rfc-editor.org/rfc/rfc7468 .
audience	string	Audience is the OIDC audience for this address.

Property	Type	Description
<code>name</code>	<code>string</code>	Name is the name of the address.
<code>url</code>	<code>string</code>	

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

`object`

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

`array`

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: <https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties>

Type

`object`

Required

status

type

Property	Type	Description
lastTransitionTime	string	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
message	string	A human readable message indicating details about the transition.
reason	string	The reason for the condition's last transition.
severity	string	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
status	string	Status of the condition, one of True, False, Unknown.
type	string	Type of condition.

API Endpoints

The following API endpoints are available:

- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/interceptors`
 - `DELETE` : delete collection of Interceptor
 - `GET` : list objects of kind Interceptor
 - `POST` : create a new Interceptor
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/interceptors/{name}`
 - `DELETE` : delete the specified Interceptor
 - `GET` : read the specified Interceptor
 - `PATCH` : partially update the specified Interceptor
 - `PUT` : replace the specified Interceptor
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/interceptors/{name}/status`
 - `GET` : read status of the specified Interceptor
 - `PATCH` : partially update status of the specified Interceptor
 - `PUT` : replace status of the specified Interceptor

`/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/interceptors`

HTTP method

`DELETE`

Description

delete collection of Interceptor

HTTP responses

HTTP code	Response body
200 - OK	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind Interceptor

HTTP responses

HTTP code	Response body
200 - OK	<code>InterceptorList</code> schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new Interceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default

Parameter	Type	Description
		in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	Interceptor schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	Interceptor schema
201 - Created	Interceptor schema
202 - Accepted	Interceptor schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/interceptors/{name}

HTTP method

DELETE

Description

delete the specified Interceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified Interceptor

HTTP responses

HTTP code	Response body
200 - OK	<code>Interceptor</code> schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified Interceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>Interceptor</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified Interceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>Interceptor</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>Interceptor</code> schema
201 - Created	<code>Interceptor</code> schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/interceptors/{name}/status

HTTP method

GET

Description

read status of the specified Interceptor

HTTP responses

HTTP code	Response body
200 - OK	<code>Interceptor</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified Interceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a

Parameter	Type	Description
		warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>Interceptor</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified Interceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last

Parameter	Type	Description
		duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	Interceptor schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	Interceptor schema
201 - Created	Interceptor schema
401 - Unauthorized	Empty

ClusterTriggerBinding

[triggers.tekton.dev/v1beta1]

Description

ClusterTriggerBinding is a TriggerBinding with a cluster scope. ClusterTriggerBindings are used to represent TriggerBindings that should be publicly addressable from any namespace in the cluster.

Type

object

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources
<code>kind</code>	<code>string</code>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
metadata	ObjectMeta	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
spec	object	Spec holds the desired state of the ClusterTriggerBinding from the client
status	object	TriggerBindingStatus defines the observed state of TriggerBinding.

.spec

Description

Spec holds the desired state of the ClusterTriggerBinding from the client

Type

object

Property	Type	Description
params	array	Params defines the parameter mapping from the given input event.

.spec.params

Description

Params defines the parameter mapping from the given input event.

Type

array

.spec.params[]

Description

Param defines a string value to be used for a ParamSpec with the same name.

Type

object

Required

name

value

Property	Type	Description
name	string	
value	string	

.status

Description

TriggerBindingStatus defines the observed state of TriggerBinding.

Type

object

API Endpoints

The following API endpoints are available:

- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clustertriggerbindings`

- **DELETE** : delete collection of ClusterTriggerBinding
- **GET** : list objects of kind ClusterTriggerBinding
- **POST** : create a new ClusterTriggerBinding
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clustertriggerbindings/{name}`
 - **DELETE** : delete the specified ClusterTriggerBinding
 - **GET** : read the specified ClusterTriggerBinding
 - **PATCH** : partially update the specified ClusterTriggerBinding
 - **PUT** : replace the specified ClusterTriggerBinding
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clustertriggerbindings/{name}/status`
 - **GET** : read status of the specified ClusterTriggerBinding
 - **PATCH** : partially update status of the specified ClusterTriggerBinding
 - **PUT** : replace status of the specified ClusterTriggerBinding

`/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clustertriggerbindings`

HTTP method

DELETE

Description

delete collection of ClusterTriggerBinding

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind ClusterTriggerBinding

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterTriggerBindingList</code> schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new ClusterTriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a

Parameter	Type	Description
		BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	ClusterTriggerBinding schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	ClusterTriggerBinding schema
201 - Created	ClusterTriggerBinding schema
202 - Accepted	ClusterTriggerBinding schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clustertriggerbindings/{name}

HTTP method

DELETE

Description

delete the specified ClusterTriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	<code>Status</code> ↗ schema
202 - Accepted	<code>Status</code> ↗ schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified ClusterTriggerBinding

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterTriggerBinding</code> ↗ schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified ClusterTriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterTriggerBinding</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified `ClusterTriggerBinding`

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>ClusterTriggerBinding</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterTriggerBinding</code> schema
201 - Created	<code>ClusterTriggerBinding</code> schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clustertriggerbindings/{name}/status

HTTP method

GET

Description

read status of the specified ClusterTriggerBinding

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterTriggerBinding</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified ClusterTriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a

Parameter	Type	Description
		warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterTriggerBinding</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace status of the specified ClusterTriggerBinding

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last

Parameter	Type	Description
		duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	ClusterTriggerBinding schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	ClusterTriggerBinding schema
201 - Created	ClusterTriggerBinding schema
401 - Unauthorized	Empty

ClusterInterceptor

[triggers.tekton.dev/v1alpha1]

Description

ClusterInterceptor describes a pluggable interceptor including configuration such as the fields it accepts and its deployment address. The type is based on the Validating/MutatingWebhookConfiguration types for configuring AdmissionWebhooks

Type

`object`

Required

`spec`

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources

Property	Type	Description
<code>kind</code>	<code>string</code>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
<code>metadata</code>	<code>ObjectMeta</code>	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
<code>spec</code>	<code>object</code>	ClusterInterceptorSpec describes the Spec for an ClusterInterceptor
<code>status</code>	<code>object</code>	ClusterInterceptorStatus holds the status of the ClusterInterceptor

.spec

Description

ClusterInterceptorSpec describes the Spec for an ClusterInterceptor

Type

`object`

Required

`clientConfig`

Property	Type	Description
<code>clientConfig</code>	<code>object</code>	ClientConfig describes how a client can communicate with the Interceptor

`.spec.clientConfig`

Description

ClientConfig describes how a client can communicate with the Interceptor

Type

`object`

Property	Type	Description
<code>caBundle</code>	<code>string</code>	CaBundle is a PEM encoded CA bundle which will be used to validate the clusterinterceptor server certificate
<code>service</code>	<code>object</code>	Service is a reference to a Service object where the interceptor is running Mutually exclusive with URL
<code>url</code>	<code>string</code>	URL is a fully formed URL pointing to the interceptor Mutually exclusive with Service

`.spec.clientConfig.service`

Description

Service is a reference to a Service object where the interceptor is running Mutually exclusive with URL

Type

object

Required

name

namespace

Property	Type	Description
name	string	Name is the name of the service
namespace	string	Namespace is the namespace of the service
path	string	Path is an optional URL path
port	integer	Port is a valid port number

.status

Description

ClusterInterceptorStatus holds the status of the ClusterInterceptor

Type

object

Property	Type	Description
address	object	Address is a single Addressable address. If Addresses is present, Address will be ignored by clients.

Property	Type	Description
<code>addresses</code>	<code>array</code>	Addresses is a list of addresses for different protocols (HTTP and HTTPS) If Addresses is present, Address must be ignored by clients.
<code>annotations</code>	<code>object</code>	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
<code>conditions</code>	<code>array</code>	Conditions the latest available observations of a resource's current state.
<code>observedGeneration</code>	<code>integer</code>	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.address

Description

Address is a single Addressable address. If Addresses is present, Address will be ignored by clients.

Type

`object`

Property	Type	Description
<code>CACerts</code>	<code>string</code>	CACerts is the Certification Authority (CA) certificates in PEM format according to https://www.rfc-editor.org/rfc/rfc7468 .
<code>audience</code>	<code>string</code>	Audience is the OIDC audience for this address.
<code>name</code>	<code>string</code>	Name is the name of the address.
<code>url</code>	<code>string</code>	

.status.addresses

Description

Addresses is a list of addresses for different protocols (HTTP and HTTPS) If Addresses is present, Address must be ignored by clients.

Type

`array`

.status.addresses[]

Description

Addressable provides a generic mechanism for a custom resource definition to indicate a destination for message delivery. Addressable is the schema for the destination information. This is typically stored in the object's `status`, as this information may be generated by the controller.

Type

`object`

Property	Type	Description
<code>CACerts</code>	<code>string</code>	CACerts is the Certification Authority (CA) certificates in PEM format according to https://www.rfc-editor.org/rfc/rfc7468 .
<code>audience</code>	<code>string</code>	Audience is the OIDC audience for this address.
<code>name</code>	<code>string</code>	Name is the name of the address.
<code>url</code>	<code>string</code>	

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

`object`

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

`array`

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: <https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties>

Type

object

Required

status

type

Property	Type	Description
<code>lastTransitionTime</code>	<code>string</code>	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
<code>message</code>	<code>string</code>	A human readable message indicating details about the transition.
<code>reason</code>	<code>string</code>	The reason for the condition's last transition.
<code>severity</code>	<code>string</code>	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
<code>status</code>	<code>string</code>	Status of the condition, one of True, False, Unknown.

Property	Type	Description
type	string	Type of condition.

API Endpoints

The following API endpoints are available:

- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clusterinterceptors`
 - **DELETE** : delete collection of ClusterInterceptor
 - **GET** : list objects of kind ClusterInterceptor
 - **POST** : create a new ClusterInterceptor
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clusterinterceptors/{name}`
 - **DELETE** : delete the specified ClusterInterceptor
 - **GET** : read the specified ClusterInterceptor
 - **PATCH** : partially update the specified ClusterInterceptor
 - **PUT** : replace the specified ClusterInterceptor
- `/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clusterinterceptors/{name}/status`
 - **GET** : read status of the specified ClusterInterceptor
 - **PATCH** : partially update status of the specified ClusterInterceptor
 - **PUT** : replace status of the specified ClusterInterceptor

`/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clusterinterceptors`

HTTP method

DELETE

Description

delete collection of ClusterInterceptor

HTTP responses

HTTP code	Response body
200 - OK	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind ClusterInterceptor

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterInterceptorList</code> schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new ClusterInterceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing

Parameter	Type	Description
		of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>ClusterInterceptor</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterInterceptor</code> schema
201 - Created	<code>ClusterInterceptor</code> schema
202 - Accepted	<code>ClusterInterceptor</code> schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clusterinterceptors/{name}

HTTP method

DELETE

Description

delete the specified ClusterInterceptor

Query parameters

Parameter	Type	Description
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	Status schema
202 - Accepted	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified ClusterInterceptor

HTTP responses

HTTP code	Response body
200 - OK	ClusterInterceptor schema

HTTP code	Response body
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified ClusterInterceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterInterceptor</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified ClusterInterceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
body	ClusterInterceptor schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	ClusterInterceptor schema
201 - Created	ClusterInterceptor schema
401 - Unauthorized	Empty

/apis/triggers.tekton.dev/v1alpha1/namespaces/{namespace}/clusterinterceptors/{name}/status

HTTP method

GET

Description

read status of the specified ClusterInterceptor

HTTP responses

HTTP code	Response body
200 - OK	ClusterInterceptor schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified ClusterInterceptor

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterInterceptor</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified `ClusterInterceptor`

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
<code>body</code>	<code>ClusterInterceptor</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterInterceptor</code> schema
201 - Created	<code>ClusterInterceptor</code> schema
401 - Unauthorized	Empty

