

Alert APIs

[AlertTemplate \[alerttemplates.a](#) [PrometheusRule \[prometheusrules.monitorin](#)

AlertTemplate

[alerttemplates.aiops.alauda.io/v1beta1]

Type

object

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	<p>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/api-conventions.md#resources</p>

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/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 contains specification parameters for a template resource

.spec

Description

spec contains specification parameters for a template resource

Type

object

Property	Type	Description
templates	array	templates is a list of alert template

.spec.templates

Description

templates is a list of alert template

Type

array

.spec.templates[]

Description

template item

Type

object

Required

compare

metric

name

threshold

wait

Property	Type	Description
annotations	object	rule annotations
compare	string	compare of a template
expr	string	query expression
labels	object	rule labels
metric	object	metric info for this alert
name	string	alert range

Property	Type	Description
<code>metric_name</code>	<code>string</code>	metric name
<code>notifications</code>	<code>array</code>	notifcations triggered by this alert
<code>threshold</code>	<code>number</code>	alert threshold
<code>unit</code>	<code>string</code>	unit for metric
<code>wait</code>	<code>integer</code>	time of duration

`.spec.templates[].annotations`

Description

rule annotations

Type

`object`

`.spec.templates[].labels`

Description

rule labels

Type

`object`

`.spec.templates[].metric`

Description

metric info for this alert

Type

object

Property	Type	Description
<code>queries</code>	<code>array</code>	queries array for this metric

`.spec.templates[].metric.queries`

Description

queries array for this metric

Type

array

`.spec.templates[].metric.queries[]`

Type

object

Property	Type	Description
<code>aggregator</code>	<code>string</code>	aggregator functions
<code>labels</code>	<code>array</code>	labels for alert object

Property	Type	Description
range	integer	aggregate range

`.spec.templates[].metric.queries[].labels`

Description

labels for alert object

Type

array

`.spec.templates[].metric.queries[].labels[]`

Type

object

Property	Type	Description
name	string	label name
value	string	label value

`.spec.templates[].notifications`

Description

notifcations triggered by this alert

Type

array

.spec.templates[].notifications[]

Type

object

Property	Type	Description
name	string	notification name
namespace	string	notification namespace
uuid	string	notification uuid

API Endpoints

The following API endpoints are available:

- `/apis/aiops.alauda.io/v1beta1/namespaces/{namespace}/alerttemplates`
 - `DELETE` : delete collection of AlertTemplate
 - `GET` : list objects of kind AlertTemplate
 - `POST` : create a new AlertTemplate
- `/apis/aiops.alauda.io/v1beta1/namespaces/{namespace}/alerttemplates/{name}`
 - `DELETE` : delete the specified AlertTemplate
 - `GET` : read the specified AlertTemplate
 - `PATCH` : partially update the specified AlertTemplate
 - `PUT` : replace the specified AlertTemplate

/apis/aiops.alauda.io/v1beta1/namespaces/{namespace}/alerttemplates

HTTP method

DELETE

Description

delete collection of AlertTemplate

HTTP responses

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

HTTP method

GET

Description

list objects of kind AlertTemplate

HTTP responses

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

HTTP method

POST

Description

create a new AlertTemplate

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>AlertTemplate</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>AlertTemplate</code> schema
201 - Created	<code>AlertTemplate</code> schema
202 - Accepted	<code>AlertTemplate</code> schema

HTTP code	Response body
401 - Unauthorized	Empty

/apis/aiops.alauda.io/v1beta1/namespaces/{namespace}/alerttemplates/{name}

HTTP method

DELETE

Description

delete the specified AlertTemplate

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 AlertTemplate

HTTP responses

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

HTTP method

PATCH

Description

partially update the specified AlertTemplate

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>AlertTemplate</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified AlertTemplate

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	AlertTemplate schema	application/json formatted

HTTP responses

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

PrometheusRule

[prometheusrules.monitoring.coreos.com/v1]

Description

The `PrometheusRule` custom resource definition (CRD) defines [alerting] (https://prometheus.io/docs/prometheus/latest/configuration/alerting_rules/) and [recording] (https://prometheus.io/docs/prometheus/latest/configuration/recording_rules/) rules to be evaluated by `Prometheus` or `ThanosRuler` objects. `Prometheus` and `ThanosRuler` objects select `PrometheusRule` objects using label and namespace selectors.

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:

Property	Type	Description
		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 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	Specification of desired alerting rule definitions for Prometheus.

.spec

Description

Specification of desired alerting rule definitions for Prometheus.

Type

object

Property	Type	Description
groups	array	Content of Prometheus rule file

.spec.groups

Description

Content of Prometheus rule file

Type

array

.spec.groups[]

Description

RuleGroup is a list of sequentially evaluated recording and alerting rules.

Type

object

Required

name

Property	Type	Description
interval	string	Interval determines how often rules in the group are evaluated.
labels	object	Labels to add or overwrite before storing the results of its rules. The labels defined at the rule level take precedence. It requires Prometheus >= 3.0.0. The field is ignored for Thanos Ruler.

Property	Type	Description
<code>limit</code>	<code>integer</code>	Limit the number of alerts an alerting rule and series recording rule can produce. Limit is supported starting with Prometheus ≥ 2.31 and Thanos Ruler ≥ 0
<code>name</code>	<code>string</code>	Name of the rule group.
<code>partial_response_strategy</code>	<code>string</code>	PartialResponseStrategy is only used by Thanos and will be ignored by Prometheus instances. More info: https://github.com/thanos-io/thanos/blob/main/docs/components/rule.md#partial-response
<code>query_offset</code>	<code>string</code>	Defines the offset the rule evaluation timestamp compared to this particular group by the specified duration into the past. It requires Prometheus $\geq v2.53.0$. It is not supported for ThanosRuler.
<code>rules</code>	<code>array</code>	List of alerting and recording rules.

`.spec.groups[].labels`

Description

Labels to add or overwrite before storing the result for its rules. The labels defined at the rule level take precedence. It requires Prometheus $\geq 3.0.0$. The field is ignored for Thanos Ruler.

Type

object

.spec.groups[].rules

Description

List of alerting and recording rules.

Type

array

.spec.groups[].rules[]

Description

Rule describes an alerting or recording rule See Prometheus documentation: [alerting] (https://www.prometheus.io/docs/prometheus/latest/configuration/alerting_rules/) or [recording] (https://www.prometheus.io/docs/prometheus/latest/configuration/recording_rules/#recording-rules) rule

Type

object

Required

expr

Property	Type	Description
alert	string	Name of the alert. Must be a valid label value. Only one of <code>record</code> and <code>alert</code> must be set.
annotations	object	Annotations to add to each alert. Only valid for alerting rules.

Property	Type	Description
<code>expr</code>		PromQL expression to evaluate.
<code>for</code>	<code>string</code>	Alerts are considered firing once they have been returned for this long.
<code>keep_firing_for</code>	<code>string</code>	KeepFiringFor defines how long an alert will continue firing after the condition that triggered it has cleared.
<code>labels</code>	<code>object</code>	Labels to add or overwrite.
<code>record</code>	<code>string</code>	Name of the time series to output to. Must be a valid metric name. Only one of <code>record</code> and <code>alert</code> must be set.

`.spec.groups[].rules[].annotations`

Description

Annotations to add to each alert. Only valid for alerting rules.

Type

`object`

`.spec.groups[].rules[].labels`

Description

Labels to add or overwrite.

Type

object

API Endpoints

The following API endpoints are available:

- `/apis/monitoring.coreos.com/v1/namespaces/{namespace}/prometheusrules`
 - `DELETE` : delete collection of PrometheusRule
 - `GET` : list objects of kind PrometheusRule
 - `POST` : create a new PrometheusRule
- `/apis/monitoring.coreos.com/v1/namespaces/{namespace}/prometheusrules/{name}`
 - `DELETE` : delete the specified PrometheusRule
 - `GET` : read the specified PrometheusRule
 - `PATCH` : partially update the specified PrometheusRule
 - `PUT` : replace the specified PrometheusRule

`/apis/monitoring.coreos.com/v1/namespaces/{namespace}/prometheusrules`

HTTP method

`DELETE`

Description

delete collection of PrometheusRule

HTTP responses

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

HTTP code	Response body
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind PrometheusRule

HTTP responses

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

HTTP method

POST

Description

create a new PrometheusRule

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.

Body parameters

Parameter	Type	Description
body	PrometheusRule schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	PrometheusRule schema
201 - Created	PrometheusRule schema
202 - Accepted	PrometheusRule schema
401 - Unauthorized	Empty

/apis/monitoring.coreos.com/v1/namespaces/{namespace}/prometheusrules/{name}

HTTP method

DELETE

Description

delete the specified PrometheusRule

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

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 PrometheusRule

HTTP responses

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

HTTP method

`PATCH`

Description

partially update the specified PrometheusRule

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>PrometheusRule</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified `PrometheusRule`

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>PrometheusRule</code> schema	<code>application/json</code> formatted

HTTP responses

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

