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## Type

object

# Specification

| Property          | Type              | Description                                                                                                                                                                                                                                             |
|-------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>spec</div>   | <div>object</div> | Configuration affecting load balancing, outlier detection, etc. See more details at:<br><a href="https://istio.io/docs/reference/config/networking/destination-rule.html">https://istio.io/docs/reference/config/networking/destination-rule.html</a> ↗ |
| <div>status</div> | <div>object</div> |                                                                                                                                                                                                                                                         |

## .spec

### Description

Configuration affecting load balancing, outlier detection, etc. See more details at:  
<https://istio.io/docs/reference/config/networking/destination-rule.html>

### Type

object

| Property                      | Type                | Description                                                      |
|-------------------------------|---------------------|------------------------------------------------------------------|
| <code>exportTo</code>         | <code>array</code>  | A list of namespaces to which this destination rule is exported. |
| <code>host</code>             | <code>string</code> | The name of a service from the service registry.                 |
| <code>subsets</code>          | <code>array</code>  |                                                                  |
| <code>trafficPolicy</code>    | <code>object</code> |                                                                  |
| <code>workloadSelector</code> | <code>object</code> |                                                                  |

## `.spec.exportTo`

### Description

A list of namespaces to which this destination rule is exported.

### Type

`array`

## `.spec.exportTo[]`

### Type

`string`

## `.spec.subsets`

### Type

`array`

## `.spec.subsets[]`

**Type**

object

| Property      | Type   | Description                                 |
|---------------|--------|---------------------------------------------|
| labels        | object |                                             |
| name          | string | Name of the subset.                         |
| trafficPolicy | object | Traffic policies that apply to this subset. |

**.spec.subsets[].labels****Type**

object

**.spec.subsets[].trafficPolicy****Description**

Traffic policies that apply to this subset.

**Type**

object

| Property         | Type   | Description                                        |
|------------------|--------|----------------------------------------------------|
| connectionPool   | object |                                                    |
| loadBalancer     | object | Settings controlling the load balancer algorithms. |
| outlierDetection | object |                                                    |
|                  |        |                                                    |

| Property                       | Type                | Description                                                   |
|--------------------------------|---------------------|---------------------------------------------------------------|
| <code>portLevelSettings</code> | <code>array</code>  | Traffic policies specific to individual ports.                |
| <code>tls</code>               | <code>object</code> | TLS related settings for connections to the upstream service. |
| <code>tunnel</code>            | <code>object</code> |                                                               |

## `.spec.subsets[].trafficPolicy.connectionPool`

### Type

`object`

| Property          | Type                | Description                                                |
|-------------------|---------------------|------------------------------------------------------------|
| <code>http</code> | <code>object</code> | HTTP connection pool settings.                             |
| <code>tcp</code>  | <code>object</code> | Settings common to both HTTP and TCP upstream connections. |

## `.spec.subsets[].trafficPolicy.connectionPool.http`

### Description

HTTP connection pool settings.

### Type

`object`

| Property                              | Type                 | Description                                                                               |
|---------------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>h2UpgradePolicy</code>          | <code>string</code>  | Specify if http1.1 connection should be upgraded to http2 for the associated destination. |
| <code>http1MaxPendingRequests</code>  | <code>integer</code> |                                                                                           |
| <code>http2MaxRequests</code>         | <code>integer</code> | Maximum number of active requests to a destination.                                       |
| <code>idleTimeout</code>              | <code>string</code>  | The idle timeout for upstream connection pool connections.                                |
| <code>maxRequestsPerConnection</code> | <code>integer</code> | Maximum number of requests per connection to a backend.                                   |
| <code>maxRetries</code>               | <code>integer</code> |                                                                                           |
| <code>useClientProtocol</code>        | <code>boolean</code> | If set to true, client protocol will be preserved while initiating connection to backend. |

## `.spec.subsets[].trafficPolicy.connectionPool.tcp`

### Description

Settings common to both HTTP and TCP upstream connections.

### Type

`object`

| Property                           | Type                 | Description                                                          |
|------------------------------------|----------------------|----------------------------------------------------------------------|
| <code>connectTimeout</code>        | <code>string</code>  | TCP connection timeout.                                              |
| <code>maxConnectionDuration</code> | <code>string</code>  | The maximum duration of a connection.                                |
| <code>maxConnections</code>        | <code>integer</code> | Maximum number of HTTP1 /TCP connections to a destination host.      |
| <code>tcpKeepalive</code>          | <code>object</code>  | If set then set SO_KEEPALIVE on the socket to enable TCP Keepalives. |

## `.spec.subsets[].trafficPolicy.connectionPool.tcp.tcpKeepalive`

### Description

If set then set SO\_KEEPALIVE on the socket to enable TCP Keepalives.

### Type

`object`

| Property              | Type                 | Description                                  |
|-----------------------|----------------------|----------------------------------------------|
| <code>interval</code> | <code>string</code>  | The time duration between keep-alive probes. |
| <code>probes</code>   | <code>integer</code> |                                              |
| <code>time</code>     | <code>string</code>  |                                              |

## `.spec.subsets[].trafficPolicy.loadBalancer`

### Description

Settings controlling the load balancer algorithms.

### Type

object

| Property                        | Type   | Description                                |
|---------------------------------|--------|--------------------------------------------|
| <code>consistentHash</code>     | object |                                            |
| <code>localityLbSetting</code>  | object |                                            |
| <code>simple</code>             | string |                                            |
| <code>warmupDurationSecs</code> | string | Represents the warmup duration of Service. |

## `.spec.subsets[].trafficPolicy.loadBalancer.consistentHash`

### Type

object

| Property                            | Type   | Description                                    |
|-------------------------------------|--------|------------------------------------------------|
| <code>httpCookie</code>             | object | Hash based on HTTP cookie.                     |
| <code>httpHeaderName</code>         | string | Hash based on a specific HTTP header.          |
| <code>httpQueryParameterName</code> | string | Hash based on a specific HTTP query parameter. |

| Property        | Type    | Description                                                                        |
|-----------------|---------|------------------------------------------------------------------------------------|
| maglev          | object  | The Maglev load balancer implements consistent hashing to backend hosts.           |
| minimumRingSize | integer | Deprecated.                                                                        |
| ringHash        | object  | The ring/modulo hash load balancer implements consistent hashing to backend hosts. |
| useSourceIp     | boolean | Hash based on the source IP address.                                               |

**.spec.subsets[].trafficPolicy.loadBalancer.consistentHash.  
httpCookie**

**Description**

Hash based on HTTP cookie.

**Type**

object

| Property | Type   | Description                 |
|----------|--------|-----------------------------|
| name     | string | Name of the cookie.         |
| path     | string | Path to set for the cookie. |
|          |        |                             |

| Property         | Type                | Description             |
|------------------|---------------------|-------------------------|
| <code>ttl</code> | <code>string</code> | Lifetime of the cookie. |

## `.spec.subsets[].trafficPolicy.loadBalancer.consistentHash.maglev`

### Description

The Maglev load balancer implements consistent hashing to backend hosts.

### Type

`object`

| Property               | Type                 | Description                        |
|------------------------|----------------------|------------------------------------|
| <code>tableSize</code> | <code>integer</code> | The table size for Maglev hashing. |

## `.spec.subsets[].trafficPolicy.loadBalancer.consistentHash.ringHash`

### Description

The ring/modulo hash load balancer implements consistent hashing to backend hosts.

### Type

`object`

| Property                     | Type                 | Description |
|------------------------------|----------------------|-------------|
| <code>minimumRingSize</code> | <code>integer</code> |             |

# `.spec.subsets[].trafficPolicy.loadBalancer.localityLbSetting`

## Type

`object`

| Property                      | Type                 | Description                                                                                                     |
|-------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| <code>distribute</code>       | <code>array</code>   | Optional: only one of distribute, failover or failoverPriority can be set.                                      |
| <code>enabled</code>          | <code>boolean</code> | enable locality load balancing, this is DestinationRule-level and will override mesh wide settings in entirety. |
| <code>failover</code>         | <code>array</code>   | Optional: only one of distribute, failover or failoverPriority can be set.                                      |
| <code>failoverPriority</code> | <code>array</code>   | failoverPriority is an ordered list of labels used to sort endpoints to do priority based load balancing.       |

# `.spec.subsets[].trafficPolicy.loadBalancer.localityLbSetting.distribute`

## Description

Optional: only one of distribute, failover or failoverPriority can be set.

## Type

`array`

## `.spec.subsets[].trafficPolicy.loadBalancer.localityLbSetting.distribute[]`

### Type

object

| Property          | Type   | Description                                                 |
|-------------------|--------|-------------------------------------------------------------|
| <code>from</code> | string | Originating locality, '/' separated, e.g.                   |
| <code>to</code>   | object | Map of upstream localities to traffic distribution weights. |

## `.spec.subsets[].trafficPolicy.loadBalancer.localityLbSetting.distribute[].to`

### Description

Map of upstream localities to traffic distribution weights.

### Type

object

## `.spec.subsets[].trafficPolicy.loadBalancer.localityLbSetting.failover`

### Description

Optional: only one of distribute, failover or failoverPriority can be set.

### Type

array

## `.spec.subsets[].trafficPolicy.loadBalancer.localityLbSetting.failover[]`

### Type

`object`

| Property          | Type                | Description         |
|-------------------|---------------------|---------------------|
| <code>from</code> | <code>string</code> | Originating region. |
| <code>to</code>   | <code>string</code> |                     |

## `.spec.subsets[].trafficPolicy.loadBalancer.localityLbSetting.failoverPriority`

### Description

failoverPriority is an ordered list of labels used to sort endpoints to do priority based load balancing.

### Type

`array`

## `.spec.subsets[].trafficPolicy.loadBalancer.localityLbSetting.failoverPriority[]`

### Type

`string`

## `.spec.subsets[].trafficPolicy.outlierDetection`

### Type

`object`

| Property                                    | Type                 | Description                                                                   |
|---------------------------------------------|----------------------|-------------------------------------------------------------------------------|
| <code>baseEjectionTime</code>               | <code>string</code>  | Minimum ejection duration.                                                    |
| <code>consecutive5xxErrors</code>           | <code>integer</code> | Number of 5xx errors before a host is ejected from the connection pool.       |
| <code>consecutiveErrors</code>              | <code>integer</code> |                                                                               |
| <code>consecutiveGatewayErrors</code>       | <code>integer</code> | Number of gateway errors before a host is ejected from the connection pool.   |
| <code>consecutiveLocalOriginFailures</code> | <code>integer</code> |                                                                               |
| <code>interval</code>                       | <code>string</code>  | Time interval between ejection sweep analysis.                                |
| <code>maxEjectionPercent</code>             | <code>integer</code> |                                                                               |
| <code>minHealthPercent</code>               | <code>integer</code> |                                                                               |
| <code>splitExternalLocalOriginErrors</code> | <code>boolean</code> | Determines whether to distinguish local origin failures from external errors. |

## `.spec.subsets[].trafficPolicy.portLevelSettings`

### Description

Traffic policies specific to individual ports.

Type

array

.spec.subsets[].trafficPolicy.portLevelSettings[]

Type

object

| Property         | Type   | Description                                                   |
|------------------|--------|---------------------------------------------------------------|
| connectionPool   | object |                                                               |
| loadBalancer     | object | Settings controlling the load balancer algorithms.            |
| outlierDetection | object |                                                               |
| port             | object |                                                               |
| tls              | object | TLS related settings for connections to the upstream service. |

.spec.subsets[].trafficPolicy.portLevelSettings[].connectionPool

Type

object

| Property | Type   | Description                    |
|----------|--------|--------------------------------|
| http     | object | HTTP connection pool settings. |
|          |        |                                |

| Property         | Type                | Description                                                |
|------------------|---------------------|------------------------------------------------------------|
| <code>tcp</code> | <code>object</code> | Settings common to both HTTP and TCP upstream connections. |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].connectionPool.http`

### Description

HTTP connection pool settings.

### Type

`object`

| Property                             | Type                 | Description                                                                               |
|--------------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>h2UpgradePolicy</code>         | <code>string</code>  | Specify if http1.1 connection should be upgraded to http2 for the associated destination. |
| <code>http1MaxPendingRequests</code> | <code>integer</code> |                                                                                           |
| <code>http2MaxRequests</code>        | <code>integer</code> | Maximum number of active requests to a destination.                                       |
| <code>idleTimeout</code>             | <code>string</code>  | The idle timeout for upstream connection pool connections.                                |
|                                      |                      |                                                                                           |

| Property                              | Type                 | Description                                                                               |
|---------------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>maxRequestsPerConnection</code> | <code>integer</code> | Maximum number of requests per connection to a backend.                                   |
| <code>maxRetries</code>               | <code>integer</code> |                                                                                           |
| <code>useClientProtocol</code>        | <code>boolean</code> | If set to true, client protocol will be preserved while initiating connection to backend. |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].connectionPool.tcp`

### Description

Settings common to both HTTP and TCP upstream connections.

### Type

`object`

| Property                           | Type                 | Description                                                     |
|------------------------------------|----------------------|-----------------------------------------------------------------|
| <code>connectTimeout</code>        | <code>string</code>  | TCP connection timeout.                                         |
| <code>maxConnectionDuration</code> | <code>string</code>  | The maximum duration of a connection.                           |
| <code>maxConnections</code>        | <code>integer</code> | Maximum number of HTTP1 /TCP connections to a destination host. |
|                                    |                      |                                                                 |

| Property                  | Type                | Description                                                          |
|---------------------------|---------------------|----------------------------------------------------------------------|
| <code>tcpKeepalive</code> | <code>object</code> | If set then set SO_KEEPALIVE on the socket to enable TCP Keepalives. |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].connectionPool.tcp.tcpKeepalive`

### Description

If set then set SO\_KEEPALIVE on the socket to enable TCP Keepalives.

### Type

`object`

| Property              | Type                 | Description                                  |
|-----------------------|----------------------|----------------------------------------------|
| <code>interval</code> | <code>string</code>  | The time duration between keep-alive probes. |
| <code>probes</code>   | <code>integer</code> |                                              |
| <code>time</code>     | <code>string</code>  |                                              |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer`

### Description

Settings controlling the load balancer algorithms.

### Type

`object`

| Property                        | Type                | Description                                |
|---------------------------------|---------------------|--------------------------------------------|
| <code>consistentHash</code>     | <code>object</code> |                                            |
| <code>localityLbSetting</code>  | <code>object</code> |                                            |
| <code>simple</code>             | <code>string</code> |                                            |
| <code>warmupDurationSecs</code> | <code>string</code> | Represents the warmup duration of Service. |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.consistentHash`

### Type

`object`

| Property                            | Type                | Description                                                              |
|-------------------------------------|---------------------|--------------------------------------------------------------------------|
| <code>httpCookie</code>             | <code>object</code> | Hash based on HTTP cookie.                                               |
| <code>httpHeaderName</code>         | <code>string</code> | Hash based on a specific HTTP header.                                    |
| <code>httpQueryParameterName</code> | <code>string</code> | Hash based on a specific HTTP query parameter.                           |
| <code>maglev</code>                 | <code>object</code> | The Maglev load balancer implements consistent hashing to backend hosts. |
|                                     |                     |                                                                          |

| Property                     | Type                 | Description                                                                        |
|------------------------------|----------------------|------------------------------------------------------------------------------------|
| <code>minimumRingSize</code> | <code>integer</code> | Deprecated.                                                                        |
| <code>ringHash</code>        | <code>object</code>  | The ring/modulo hash load balancer implements consistent hashing to backend hosts. |
| <code>useSourceIp</code>     | <code>boolean</code> | Hash based on the source IP address.                                               |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.consistentHash.httpCookie`

### Description

Hash based on HTTP cookie.

### Type

`object`

| Property          | Type                | Description                 |
|-------------------|---------------------|-----------------------------|
| <code>name</code> | <code>string</code> | Name of the cookie.         |
| <code>path</code> | <code>string</code> | Path to set for the cookie. |
| <code>ttl</code>  | <code>string</code> | Lifetime of the cookie.     |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.consistentHash.maglev`

### Description

The Maglev load balancer implements consistent hashing to backend hosts.

### Type

object

| Property               | Type    | Description                        |
|------------------------|---------|------------------------------------|
| <code>tableSize</code> | integer | The table size for Maglev hashing. |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.consistentHash.ringHash`

### Description

The ring/modulo hash load balancer implements consistent hashing to backend hosts.

### Type

object

| Property                     | Type    | Description |
|------------------------------|---------|-------------|
| <code>minimumRingSize</code> | integer |             |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting`

### Type

object

| Property                      | Type                 | Description                                                                                                     |
|-------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| <code>distribute</code>       | <code>array</code>   | Optional: only one of distribute, failover or failoverPriority can be set.                                      |
| <code>enabled</code>          | <code>boolean</code> | enable locality load balancing, this is DestinationRule-level and will override mesh wide settings in entirety. |
| <code>failover</code>         | <code>array</code>   | Optional: only one of distribute, failover or failoverPriority can be set.                                      |
| <code>failoverPriority</code> | <code>array</code>   | failoverPriority is an ordered list of labels used to sort endpoints to do priority based load balancing.       |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.distribute`

### Description

Optional: only one of distribute, failover or failoverPriority can be set.

### Type

`array`

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.distribute[]`

### Type

`object`

| Property          | Type                | Description                                                 |
|-------------------|---------------------|-------------------------------------------------------------|
| <code>from</code> | <code>string</code> | Originating locality, '/' separated, e.g.                   |
| <code>to</code>   | <code>object</code> | Map of upstream localities to traffic distribution weights. |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.distribute[].to`

### Description

Map of upstream localities to traffic distribution weights.

### Type

`object`

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.failover`

### Description

Optional: only one of distribute, failover or failoverPriority can be set.

### Type

`array`

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.failover[]`

### Type

`object`

| Property          | Type                | Description         |
|-------------------|---------------------|---------------------|
| <code>from</code> | <code>string</code> | Originating region. |
| <code>to</code>   | <code>string</code> |                     |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.failoverPriority`

### Description

`failoverPriority` is an ordered list of labels used to sort endpoints to do priority based load balancing.

### Type

`array`

## `.spec.subsets[].trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.failoverPriority[]`

### Type

`string`

## `.spec.subsets[].trafficPolicy.portLevelSettings[].outlierDetection`

### Type

`object`

| Property                                    | Type                 | Description                                                                   |
|---------------------------------------------|----------------------|-------------------------------------------------------------------------------|
| <code>baseEjectionTime</code>               | <code>string</code>  | Minimum ejection duration.                                                    |
| <code>consecutive5xxErrors</code>           | <code>integer</code> | Number of 5xx errors before a host is ejected from the connection pool.       |
| <code>consecutiveErrors</code>              | <code>integer</code> |                                                                               |
| <code>consecutiveGatewayErrors</code>       | <code>integer</code> | Number of gateway errors before a host is ejected from the connection pool.   |
| <code>consecutiveLocalOriginFailures</code> | <code>integer</code> |                                                                               |
| <code>interval</code>                       | <code>string</code>  | Time interval between ejection sweep analysis.                                |
| <code>maxEjectionPercent</code>             | <code>integer</code> |                                                                               |
| <code>minHealthPercent</code>               | <code>integer</code> |                                                                               |
| <code>splitExternalLocalOriginErrors</code> | <code>boolean</code> | Determines whether to distinguish local origin failures from external errors. |

**`.spec.subsets[].trafficPolicy.portLevelSettings[].port`**

**Type**

`object`

| Property            | Type                 | Description |
|---------------------|----------------------|-------------|
| <code>number</code> | <code>integer</code> |             |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].tls`

### Description

TLS related settings for connections to the upstream service.

### Type

`object`

| Property                        | Type                 | Description                                               |
|---------------------------------|----------------------|-----------------------------------------------------------|
| <code>caCertificates</code>     | <code>string</code>  |                                                           |
| <code>clientCertificate</code>  | <code>string</code>  | REQUIRED if mode is <code>MUTUAL</code> .                 |
| <code>credentialName</code>     | <code>string</code>  |                                                           |
| <code>insecureSkipVerify</code> | <code>boolean</code> |                                                           |
| <code>mode</code>               | <code>string</code>  |                                                           |
| <code>privateKey</code>         | <code>string</code>  | REQUIRED if mode is <code>MUTUAL</code> .                 |
| <code>sni</code>                | <code>string</code>  | SNI string to present to the server during TLS handshake. |
| <code>subjectAltNames</code>    | <code>array</code>   |                                                           |

## `.spec.subsets[].trafficPolicy.portLevelSettings[].tls.subjectAltNames`

### Type

`array`

## `.spec.subsets[].trafficPolicy.portLevelSettings[].tls.subjectAltNames[]`

### Type

`string`

## `.spec.subsets[].trafficPolicy.tls`

### Description

TLS related settings for connections to the upstream service.

### Type

`object`

| Property                        | Type                 | Description                               |
|---------------------------------|----------------------|-------------------------------------------|
| <code>caCertificates</code>     | <code>string</code>  |                                           |
| <code>clientCertificate</code>  | <code>string</code>  | REQUIRED if mode is <code>MUTUAL</code> . |
| <code>credentialName</code>     | <code>string</code>  |                                           |
| <code>insecureSkipVerify</code> | <code>boolean</code> |                                           |
| <code>mode</code>               | <code>string</code>  |                                           |
|                                 |                      |                                           |

| Property                     | Type                | Description                                               |
|------------------------------|---------------------|-----------------------------------------------------------|
| <code>privateKey</code>      | <code>string</code> | REQUIRED if mode is <code>MUTUAL</code> .                 |
| <code>sni</code>             | <code>string</code> | SNI string to present to the server during TLS handshake. |
| <code>subjectAltNames</code> | <code>array</code>  |                                                           |

## `.spec.subsets[].trafficPolicy.tls.subjectAltNames`

### Type

`array`

## `.spec.subsets[].trafficPolicy.tls.subjectAltNames[]`

### Type

`string`

## `.spec.subsets[].trafficPolicy.tunnel`

### Type

`object`

| Property              | Type                | Description                                                              |
|-----------------------|---------------------|--------------------------------------------------------------------------|
| <code>protocol</code> | <code>string</code> | Specifies which protocol to use for tunneling the downstream connection. |
|                       |                     |                                                                          |

| Property                | Type                 | Description                                                      |
|-------------------------|----------------------|------------------------------------------------------------------|
| <code>targetHost</code> | <code>string</code>  | Specifies a host to which the downstream connection is tunneled. |
| <code>targetPort</code> | <code>integer</code> | Specifies a port to which the downstream connection is tunneled. |

## `.spec.trafficPolicy`

### Type

`object`

| Property                       | Type                | Description                                                   |
|--------------------------------|---------------------|---------------------------------------------------------------|
| <code>connectionPool</code>    | <code>object</code> |                                                               |
| <code>loadBalancer</code>      | <code>object</code> | Settings controlling the load balancer algorithms.            |
| <code>outlierDetection</code>  | <code>object</code> |                                                               |
| <code>portLevelSettings</code> | <code>array</code>  | Traffic policies specific to individual ports.                |
| <code>tls</code>               | <code>object</code> | TLS related settings for connections to the upstream service. |
| <code>tunnel</code>            | <code>object</code> |                                                               |

## `.spec.trafficPolicy.connectionPool`

## Type

object

| Property | Type   | Description                                                |
|----------|--------|------------------------------------------------------------|
| http     | object | HTTP connection pool settings.                             |
| tcp      | object | Settings common to both HTTP and TCP upstream connections. |

## .spec.trafficPolicy.connectionPool.http

### Description

HTTP connection pool settings.

### Type

object

| Property                | Type    | Description                                                                               |
|-------------------------|---------|-------------------------------------------------------------------------------------------|
| h2UpgradePolicy         | string  | Specify if http1.1 connection should be upgraded to http2 for the associated destination. |
| http1MaxPendingRequests | integer |                                                                                           |
| http2MaxRequests        | integer | Maximum number of active requests to a destination.                                       |
|                         |         |                                                                                           |

| Property                              | Type                 | Description                                                                               |
|---------------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>idleTimeout</code>              | <code>string</code>  | The idle timeout for upstream connection pool connections.                                |
| <code>maxRequestsPerConnection</code> | <code>integer</code> | Maximum number of requests per connection to a backend.                                   |
| <code>maxRetries</code>               | <code>integer</code> |                                                                                           |
| <code>useClientProtocol</code>        | <code>boolean</code> | If set to true, client protocol will be preserved while initiating connection to backend. |

## `.spec.trafficPolicy.connectionPool.tcp`

### Description

Settings common to both HTTP and TCP upstream connections.

### Type

`object`

| Property                           | Type                | Description                           |
|------------------------------------|---------------------|---------------------------------------|
| <code>connectTimeout</code>        | <code>string</code> | TCP connection timeout.               |
| <code>maxConnectionDuration</code> | <code>string</code> | The maximum duration of a connection. |
|                                    |                     |                                       |

| Property                    | Type                 | Description                                                          |
|-----------------------------|----------------------|----------------------------------------------------------------------|
| <code>maxConnections</code> | <code>integer</code> | Maximum number of HTTP1 /TCP connections to a destination host.      |
| <code>tcpKeepalive</code>   | <code>object</code>  | If set then set SO_KEEPALIVE on the socket to enable TCP Keepalives. |

## `.spec.trafficPolicy.connectionPool.tcp.tcpKeepalive`

### Description

If set then set SO\_KEEPALIVE on the socket to enable TCP Keepalives.

### Type

`object`

| Property              | Type                 | Description                                  |
|-----------------------|----------------------|----------------------------------------------|
| <code>interval</code> | <code>string</code>  | The time duration between keep-alive probes. |
| <code>probes</code>   | <code>integer</code> |                                              |
| <code>time</code>     | <code>string</code>  |                                              |

## `.spec.trafficPolicy.loadBalancer`

### Description

Settings controlling the load balancer algorithms.

### Type

`object`

| Property                        | Type                | Description                                |
|---------------------------------|---------------------|--------------------------------------------|
| <code>consistentHash</code>     | <code>object</code> |                                            |
| <code>localityLbSetting</code>  | <code>object</code> |                                            |
| <code>simple</code>             | <code>string</code> |                                            |
| <code>warmupDurationSecs</code> | <code>string</code> | Represents the warmup duration of Service. |

## `.spec.trafficPolicy.loadBalancer.consistentHash`

### Type

`object`

| Property                            | Type                 | Description                                                              |
|-------------------------------------|----------------------|--------------------------------------------------------------------------|
| <code>httpCookie</code>             | <code>object</code>  | Hash based on HTTP cookie.                                               |
| <code>httpHeaderName</code>         | <code>string</code>  | Hash based on a specific HTTP header.                                    |
| <code>httpQueryParameterName</code> | <code>string</code>  | Hash based on a specific HTTP query parameter.                           |
| <code>maglev</code>                 | <code>object</code>  | The Maglev load balancer implements consistent hashing to backend hosts. |
| <code>minimumRingSize</code>        | <code>integer</code> | Deprecated.                                                              |

| Property                 | Type                 | Description                                                                        |
|--------------------------|----------------------|------------------------------------------------------------------------------------|
| <code>ringHash</code>    | <code>object</code>  | The ring/modulo hash load balancer implements consistent hashing to backend hosts. |
| <code>useSourceIp</code> | <code>boolean</code> | Hash based on the source IP address.                                               |

## `.spec.trafficPolicy.loadBalancer.consistentHash.httpCookie`

### Description

Hash based on HTTP cookie.

### Type

`object`

| Property          | Type                | Description                 |
|-------------------|---------------------|-----------------------------|
| <code>name</code> | <code>string</code> | Name of the cookie.         |
| <code>path</code> | <code>string</code> | Path to set for the cookie. |
| <code>ttl</code>  | <code>string</code> | Lifetime of the cookie.     |

## `.spec.trafficPolicy.loadBalancer.consistentHash.maglev`

### Description

The Maglev load balancer implements consistent hashing to backend hosts.

### Type

object

| Property               | Type                 | Description                        |
|------------------------|----------------------|------------------------------------|
| <code>tableSize</code> | <code>integer</code> | The table size for Maglev hashing. |

## `.spec.trafficPolicy.loadBalancer.consistentHash.ringHash`

### Description

The ring/modulo hash load balancer implements consistent hashing to backend hosts.

### Type

object

| Property                     | Type                 | Description |
|------------------------------|----------------------|-------------|
| <code>minimumRingSize</code> | <code>integer</code> |             |

## `.spec.trafficPolicy.loadBalancer.localityLbSetting`

### Type

object

| Property                | Type                 | Description                                                                               |
|-------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>distribute</code> | <code>array</code>   | Optional: only one of distribute, failover or failoverPriority can be set.                |
| <code>enabled</code>    | <code>boolean</code> | enable locality load balancing, this is DestinationRule-level and will override mesh wide |

| Property                      | Type               | Description                                                                                               |
|-------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------|
|                               |                    | settings in entirety.                                                                                     |
| <code>failover</code>         | <code>array</code> | Optional: only one of distribute, failover or failoverPriority can be set.                                |
| <code>failoverPriority</code> | <code>array</code> | failoverPriority is an ordered list of labels used to sort endpoints to do priority based load balancing. |

**.spec.trafficPolicy.loadBalancer.localityLbSetting.distribute**

**Description**

Optional: only one of distribute, failover or failoverPriority can be set.

**Type**

`array`

**.spec.trafficPolicy.loadBalancer.localityLbSetting.distribute[]**

**Type**

`object`

| Property          | Type                | Description                               |
|-------------------|---------------------|-------------------------------------------|
| <code>from</code> | <code>string</code> | Originating locality, '/' separated, e.g. |
|                   |                     |                                           |

| Property | Type   | Description                                                 |
|----------|--------|-------------------------------------------------------------|
| to       | object | Map of upstream localities to traffic distribution weights. |

**.spec.trafficPolicy.loadBalancer.localityLbSetting.distribute[]**

**Description**

Map of upstream localities to traffic distribution weights.

**Type**

object

**.spec.trafficPolicy.loadBalancer.localityLbSetting.failover**

**Description**

Optional: only one of distribute, failover or failoverPriority can be set.

**Type**

array

**.spec.trafficPolicy.loadBalancer.localityLbSetting.failover[]**

**Type**

object

| Property | Type   | Description         |
|----------|--------|---------------------|
| from     | string | Originating region. |
|          |        |                     |

| Property | Type   | Description |
|----------|--------|-------------|
| to       | string |             |

## **.spec.trafficPolicy.loadBalancer.localityLbSetting.failoverPriority**

### Description

failoverPriority is an ordered list of labels used to sort endpoints to do priority based load balancing.

### Type

array

## **.spec.trafficPolicy.loadBalancer.localityLbSetting.failoverPriority[]**

### Type

string

## **.spec.trafficPolicy.outlierDetection**

### Type

object

| Property             | Type    | Description                                                             |
|----------------------|---------|-------------------------------------------------------------------------|
| baseEjectionTime     | string  | Minimum ejection duration.                                              |
| consecutive5xxErrors | integer | Number of 5xx errors before a host is ejected from the connection pool. |

| Property                                    | Type                 | Description                                                                   |
|---------------------------------------------|----------------------|-------------------------------------------------------------------------------|
| <code>consecutiveErrors</code>              | <code>integer</code> |                                                                               |
| <code>consecutiveGatewayErrors</code>       | <code>integer</code> | Number of gateway errors before a host is ejected from the connection pool.   |
| <code>consecutiveLocalOriginFailures</code> | <code>integer</code> |                                                                               |
| <code>interval</code>                       | <code>string</code>  | Time interval between ejection sweep analysis.                                |
| <code>maxEjectionPercent</code>             | <code>integer</code> |                                                                               |
| <code>minHealthPercent</code>               | <code>integer</code> |                                                                               |
| <code>splitExternalLocalOriginErrors</code> | <code>boolean</code> | Determines whether to distinguish local origin failures from external errors. |

## `.spec.trafficPolicy.portLevelSettings`

### Description

Traffic policies specific to individual ports.

### Type

`array`

## `.spec.trafficPolicy.portLevelSettings[]`

### Type

`object`

| Property                      | Type                | Description                                                   |
|-------------------------------|---------------------|---------------------------------------------------------------|
| <code>connectionPool</code>   | <code>object</code> |                                                               |
| <code>loadBalancer</code>     | <code>object</code> | Settings controlling the load balancer algorithms.            |
| <code>outlierDetection</code> | <code>object</code> |                                                               |
| <code>port</code>             | <code>object</code> |                                                               |
| <code>tls</code>              | <code>object</code> | TLS related settings for connections to the upstream service. |

## `.spec.trafficPolicy.portLevelSettings[].connectionPool`

### Type

`object`

| Property          | Type                | Description                                                |
|-------------------|---------------------|------------------------------------------------------------|
| <code>http</code> | <code>object</code> | HTTP connection pool settings.                             |
| <code>tcp</code>  | <code>object</code> | Settings common to both HTTP and TCP upstream connections. |

## `.spec.trafficPolicy.portLevelSettings[].connectionPool.http`

## Description

HTTP connection pool settings.

## Type

object

| Property                              | Type                 | Description                                                                               |
|---------------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>h2UpgradePolicy</code>          | <code>string</code>  | Specify if http1.1 connection should be upgraded to http2 for the associated destination. |
| <code>http1MaxPendingRequests</code>  | <code>integer</code> |                                                                                           |
| <code>http2MaxRequests</code>         | <code>integer</code> | Maximum number of active requests to a destination.                                       |
| <code>idleTimeout</code>              | <code>string</code>  | The idle timeout for upstream connection pool connections.                                |
| <code>maxRequestsPerConnection</code> | <code>integer</code> | Maximum number of requests per connection to a backend.                                   |
| <code>maxRetries</code>               | <code>integer</code> |                                                                                           |
| <code>useClientProtocol</code>        | <code>boolean</code> | If set to true, client protocol will be preserved while initiating connection to backend. |

**.spec.trafficPolicy.portLevelSettings[].connectionPool.tcp**

## Description

Settings common to both HTTP and TCP upstream connections.

## Type

object

| Property                           | Type                 | Description                                                          |
|------------------------------------|----------------------|----------------------------------------------------------------------|
| <code>connectTimeout</code>        | <code>string</code>  | TCP connection timeout.                                              |
| <code>maxConnectionDuration</code> | <code>string</code>  | The maximum duration of a connection.                                |
| <code>maxConnections</code>        | <code>integer</code> | Maximum number of HTTP1 /TCP connections to a destination host.      |
| <code>tcpKeepalive</code>          | <code>object</code>  | If set then set SO_KEEPALIVE on the socket to enable TCP Keepalives. |

## `.spec.trafficPolicy.portLevelSettings[].connectionPool.tcp.tcpKeepalive`

## Description

If set then set SO\_KEEPALIVE on the socket to enable TCP Keepalives.

## Type

object

| Property              | Type                 | Description                                  |
|-----------------------|----------------------|----------------------------------------------|
| <code>interval</code> | <code>string</code>  | The time duration between keep-alive probes. |
| <code>probes</code>   | <code>integer</code> |                                              |
| <code>time</code>     | <code>string</code>  |                                              |

## `.spec.trafficPolicy.portLevelSettings[].loadBalancer`

### Description

Settings controlling the load balancer algorithms.

### Type

`object`

| Property                        | Type                | Description                                |
|---------------------------------|---------------------|--------------------------------------------|
| <code>consistentHash</code>     | <code>object</code> |                                            |
| <code>localityLbSetting</code>  | <code>object</code> |                                            |
| <code>simple</code>             | <code>string</code> |                                            |
| <code>warmupDurationSecs</code> | <code>string</code> | Represents the warmup duration of Service. |

## `.spec.trafficPolicy.portLevelSettings[].loadBalancer.consistentHash`

### Type

`object`

| Property                            | Type                 | Description                                                                        |
|-------------------------------------|----------------------|------------------------------------------------------------------------------------|
| <code>httpCookie</code>             | <code>object</code>  | Hash based on HTTP cookie.                                                         |
| <code>httpHeaderName</code>         | <code>string</code>  | Hash based on a specific HTTP header.                                              |
| <code>httpQueryParameterName</code> | <code>string</code>  | Hash based on a specific HTTP query parameter.                                     |
| <code>maglev</code>                 | <code>object</code>  | The Maglev load balancer implements consistent hashing to backend hosts.           |
| <code>minimumRingSize</code>        | <code>integer</code> | Deprecated.                                                                        |
| <code>ringHash</code>               | <code>object</code>  | The ring/modulo hash load balancer implements consistent hashing to backend hosts. |
| <code>useSourceIp</code>            | <code>boolean</code> | Hash based on the source IP address.                                               |

## `.spec.trafficPolicy.portLevelSettings[].loadBalancer.consistentHash.httpCookie`

### Description

Hash based on HTTP cookie.

### Type

`object`

| Property          | Type                | Description                 |
|-------------------|---------------------|-----------------------------|
| <code>name</code> | <code>string</code> | Name of the cookie.         |
| <code>path</code> | <code>string</code> | Path to set for the cookie. |
| <code>ttl</code>  | <code>string</code> | Lifetime of the cookie.     |

## `.spec.trafficPolicy.portLevelSettings[].loadBalancer.consistentHash.maglev`

### Description

The Maglev load balancer implements consistent hashing to backend hosts.

### Type

`object`

| Property               | Type                 | Description                        |
|------------------------|----------------------|------------------------------------|
| <code>tableSize</code> | <code>integer</code> | The table size for Maglev hashing. |

## `.spec.trafficPolicy.portLevelSettings[].loadBalancer.consistentHash.ringHash`

### Description

The ring/modulo hash load balancer implements consistent hashing to backend hosts.

### Type

object

| Property        | Type    | Description |
|-----------------|---------|-------------|
| minimumRingSize | integer |             |

## **.spec.trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting**

### Type

object

| Property         | Type    | Description                                                                                                     |
|------------------|---------|-----------------------------------------------------------------------------------------------------------------|
| distribute       | array   | Optional: only one of distribute, failover or failoverPriority can be set.                                      |
| enabled          | boolean | enable locality load balancing, this is DestinationRule-level and will override mesh wide settings in entirety. |
| failover         | array   | Optional: only one of distribute, failover or failoverPriority can be set.                                      |
| failoverPriority | array   | failoverPriority is an ordered list of labels used to sort endpoints to do priority based load balancing.       |

## **.spec.trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.distribute**

## Description

Optional: only one of distribute, failover or failoverPriority can be set.

## Type

array

## `.spec.trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.distribute[]`

## Type

object

| Property          | Type                | Description                                                 |
|-------------------|---------------------|-------------------------------------------------------------|
| <code>from</code> | <code>string</code> | Originating locality, '/' separated, e.g.                   |
| <code>to</code>   | <code>object</code> | Map of upstream localities to traffic distribution weights. |

## `.spec.trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.distribute[].to`

## Description

Map of upstream localities to traffic distribution weights.

## Type

object

## `.spec.trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.failover`

## Description

Optional: only one of distribute, failover or failoverPriority can be set.

### Type

array

## **.spec.trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.failover[]**

### Type

object

| Property | Type   | Description         |
|----------|--------|---------------------|
| from     | string | Originating region. |
| to       | string |                     |

## **.spec.trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.failoverPriority**

### Description

failoverPriority is an ordered list of labels used to sort endpoints to do priority based load balancing.

### Type

array

## **.spec.trafficPolicy.portLevelSettings[].loadBalancer.localityLbSetting.failoverPriority[]**

### Type

string

# .spec.trafficPolicy.portLevelSettings[].outlierDetection

Type

object

| Property                       | Type    | Description                                                                   |
|--------------------------------|---------|-------------------------------------------------------------------------------|
| baseEjectionTime               | string  | Minimum ejection duration.                                                    |
| consecutive5xxErrors           | integer | Number of 5xx errors before a host is ejected from the connection pool.       |
| consecutiveErrors              | integer |                                                                               |
| consecutiveGatewayErrors       | integer | Number of gateway errors before a host is ejected from the connection pool.   |
| consecutiveLocalOriginFailures | integer |                                                                               |
| interval                       | string  | Time interval between ejection sweep analysis.                                |
| maxEjectionPercent             | integer |                                                                               |
| minHealthPercent               | integer |                                                                               |
| splitExternalLocalOriginErrors | boolean | Determines whether to distinguish local origin failures from external errors. |

## .spec.trafficPolicy.portLevelSettings[].port

### Type

object

| Property | Type    | Description |
|----------|---------|-------------|
| number   | integer |             |

## .spec.trafficPolicy.portLevelSettings[].tls

### Description

TLS related settings for connections to the upstream service.

### Type

object

| Property           | Type    | Description                               |
|--------------------|---------|-------------------------------------------|
| caCertificates     | string  |                                           |
| clientCertificate  | string  | REQUIRED if mode is <code>MUTUAL</code> . |
| credentialName     | string  |                                           |
| insecureSkipVerify | boolean |                                           |
| mode               | string  |                                           |
| privateKey         | string  | REQUIRED if mode is <code>MUTUAL</code> . |
|                    |         |                                           |

| Property                     | Type                | Description                                               |
|------------------------------|---------------------|-----------------------------------------------------------|
| <code>sni</code>             | <code>string</code> | SNi string to present to the server during TLS handshake. |
| <code>subjectAltNames</code> | <code>array</code>  |                                                           |

## `.spec.trafficPolicy.portLevelSettings[].tls.subjectAltNames`

### Type

`array`

## `.spec.trafficPolicy.portLevelSettings[].tls.subjectAltNames` `[]`

### Type

`string`

## `.spec.trafficPolicy.tls`

### Description

TLS related settings for connections to the upstream service.

### Type

`object`

| Property                       | Type                | Description                               |
|--------------------------------|---------------------|-------------------------------------------|
| <code>caCertificates</code>    | <code>string</code> |                                           |
| <code>clientCertificate</code> | <code>string</code> | REQUIRED if mode is <code>MUTUAL</code> . |
|                                |                     |                                           |

| Property                        | Type                 | Description                                               |
|---------------------------------|----------------------|-----------------------------------------------------------|
| <code>credentialName</code>     | <code>string</code>  |                                                           |
| <code>insecureSkipVerify</code> | <code>boolean</code> |                                                           |
| <code>mode</code>               | <code>string</code>  |                                                           |
| <code>privateKey</code>         | <code>string</code>  | REQUIRED if mode is <code>MUTUAL</code> .                 |
| <code>sni</code>                | <code>string</code>  | SNI string to present to the server during TLS handshake. |
| <code>subjectAltNames</code>    | <code>array</code>   |                                                           |

## `.spec.trafficPolicy.tls.subjectAltNames`

### Type

`array`

## `.spec.trafficPolicy.tls.subjectAltNames[]`

### Type

`string`

## `.spec.trafficPolicy.tunnel`

### Type

`object`

| Property                | Type                 | Description                                                              |
|-------------------------|----------------------|--------------------------------------------------------------------------|
| <code>protocol</code>   | <code>string</code>  | Specifies which protocol to use for tunneling the downstream connection. |
| <code>targetHost</code> | <code>string</code>  | Specifies a host to which the downstream connection is tunneled.         |
| <code>targetPort</code> | <code>integer</code> | Specifies a port to which the downstream connection is tunneled.         |

## **.spec.workloadSelector**

### Type

`object`

| Property                 | Type                | Description |
|--------------------------|---------------------|-------------|
| <code>matchLabels</code> | <code>object</code> |             |

## **.spec.workloadSelector.matchLabels**

### Type

`object`

## **.status**

### Type

`object`

# API Endpoints

The following API endpoints are available:

- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/destinationrules`
  - **DELETE** : delete collection of DestinationRule
  - **GET** : list objects of kind DestinationRule
  - **POST** : create a new DestinationRule
- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/destinationrules/{name}`
  - **DELETE** : delete the specified DestinationRule
  - **GET** : read the specified DestinationRule
  - **PATCH** : partially update the specified DestinationRule
  - **PUT** : replace the specified DestinationRule
- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/destinationrules/{name}/status`
  - **GET** : read status of the specified DestinationRule
  - **PATCH** : partially update status of the specified DestinationRule
  - **PUT** : replace status of the specified DestinationRule

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/destinationrules

### HTTP method

**DELETE**

### Description

delete collection of DestinationRule

### HTTP responses

| HTTP code          | Response body                   |
|--------------------|---------------------------------|
| 200 - OK           | <a href="#">Status ↗</a> schema |
| 401 - Unauthorized | Empty                           |

## HTTP method

[GET](#)

## Description

list objects of kind DestinationRule

## HTTP responses

| HTTP code          | Response body                              |
|--------------------|--------------------------------------------|
| 200 - OK           | <a href="#">DestinationRuleList</a> schema |
| 401 - Unauthorized | Empty                                      |

## HTTP method

[POST](#)

## Description

create a new DestinationRule

## Query parameters

| Parameter                       | Type                   | Description                                                                                                                                                                                                                                                                       |
|---------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">dryRun</a>          | <a href="#">string</a> | 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                          |
| <a href="#">fieldValidation</a> | <a href="#">string</a> | 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      | DestinationRule schema | application/json formatted |

### HTTP responses

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

**/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/destinationrules/{name}**

### HTTP method

DELETE

## Description

delete the specified DestinationRule

## 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           | <a href="#">Status ↗</a> schema |
| 202 - Accepted     | <a href="#">Status ↗</a> schema |
| 401 - Unauthorized | Empty                           |

## HTTP method

GET

## Description

read the specified DestinationRule

## HTTP responses

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

## HTTP method

PATCH

## Description

partially update the specified DestinationRule

## 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 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>DestinationRule</code> schema |
| 401 - Unauthorized | Empty                               |

## HTTP method

`PUT`

## Description

replace the specified DestinationRule

## 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 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>DestinationRule</code> schema | <code>application/json</code> formatted |

## HTTP responses

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

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/destinationrules/{name}/status

### HTTP method

`GET`

### Description

read status of the specified DestinationRule

### HTTP responses

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

### HTTP method

`PATCH`

### Description

partially update status of the specified DestinationRule

### 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 |

| Parameter                    | Type                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              |                     | processing of the request. Valid values are: - All: all dry run stages will be processed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <code>fieldValidation</code> | <code>string</code> | <p>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.</p> |

## HTTP responses

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

## HTTP method

`PUT`

## Description

replace status of the specified DestinationRule

## 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> | <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 <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.</p> |

## Body parameters

| Parameter         | Type                                | Description                             |
|-------------------|-------------------------------------|-----------------------------------------|
| <code>body</code> | <code>DestinationRule</code> schema | <code>application/json</code> formatted |

## HTTP responses

| HTTP code     | Response body                       |
|---------------|-------------------------------------|
| 200 - OK      | <code>DestinationRule</code> schema |
| 201 - Created | <code>DestinationRule</code> schema |
|               |                                     |

| HTTP code          | Response body |
|--------------------|---------------|
| 401 - Unauthorized | Empty         |

---

[Alauda Service Mesh](#) > [API Reference](#) > [Kubernetes APIs](#) > [networking.istio.io](#) > [gatev](#)

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## Type

object

# Specification

| Property          | Type              | Description                                                                                                                                                                                                          |
|-------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>spec</div>   | <div>object</div> | Configuration affecting edge load balancer. See more details at:<br><a href="https://istio.io/docs/reference/config/networking/gateway.html">https://istio.io/docs/reference/config/networking/gateway.html</a><br>↗ |
| <div>status</div> | <div>object</div> |                                                                                                                                                                                                                      |

## .spec

### Description

Configuration affecting edge load balancer. See more details at:  
<https://istio.io/docs/reference/config/networking/gateway.html>

### Type

object

| Property | Type   | Description                      |
|----------|--------|----------------------------------|
| selector | object |                                  |
| servers  | array  | A list of server specifications. |

.spec.selector

Type

object

.spec.servers

Description

A list of server specifications.

Type

array

.spec.servers[]

Type

object

| Property        | Type   | Description                                |
|-----------------|--------|--------------------------------------------|
| bind            | string |                                            |
| defaultEndpoint | string |                                            |
| hosts           | array  | One or more hosts exposed by this gateway. |
|                 |        |                                            |

| Property          | Type                | Description                                                                 |
|-------------------|---------------------|-----------------------------------------------------------------------------|
| <code>name</code> | <code>string</code> | An optional name of the server, when set must be unique across all servers. |
| <code>port</code> | <code>object</code> |                                                                             |
| <code>tls</code>  | <code>object</code> | Set of TLS related options that govern the server's behavior.               |

## `.spec.servers[].hosts`

### Description

One or more hosts exposed by this gateway.

### Type

`array`

## `.spec.servers[].hosts[]`

### Type

`string`

## `.spec.servers[].port`

### Type

`object`

| Property                | Type                 | Description                               |
|-------------------------|----------------------|-------------------------------------------|
| <code>name</code>       | <code>string</code>  | Label assigned to the port.               |
| <code>number</code>     | <code>integer</code> | A valid non-negative integer port number. |
| <code>protocol</code>   | <code>string</code>  | The protocol exposed on the port.         |
| <code>targetPort</code> | <code>integer</code> |                                           |

## `.spec.servers[].tls`

### Description

Set of TLS related options that govern the server's behavior.

### Type

`object`

| Property                    | Type                 | Description                                                     |
|-----------------------------|----------------------|-----------------------------------------------------------------|
| <code>caCertificates</code> | <code>string</code>  | REQUIRED if mode is <code>MUTUAL</code> .                       |
| <code>cipherSuites</code>   | <code>array</code>   | Optional: If specified, only support the specified cipher list. |
| <code>credentialName</code> | <code>string</code>  |                                                                 |
| <code>httpsRedirect</code>  | <code>boolean</code> |                                                                 |
|                             |                      |                                                                 |

| Property                           | Type                | Description                                                      |
|------------------------------------|---------------------|------------------------------------------------------------------|
| <code>maxProtocolVersion</code>    | <code>string</code> | Optional: Maximum TLS protocol version.                          |
| <code>minProtocolVersion</code>    | <code>string</code> | Optional: Minimum TLS protocol version.                          |
| <code>mode</code>                  | <code>string</code> |                                                                  |
| <code>privateKey</code>            | <code>string</code> | REQUIRED if mode is <code>SIMPLE</code> or <code>MUTUAL</code> . |
| <code>serverCertificate</code>     | <code>string</code> | REQUIRED if mode is <code>SIMPLE</code> or <code>MUTUAL</code> . |
| <code>subjectAltNames</code>       | <code>array</code>  |                                                                  |
| <code>verifyCertificateHash</code> | <code>array</code>  |                                                                  |
| <code>verifyCertificateSpki</code> | <code>array</code>  |                                                                  |

## `.spec.servers[].tls.cipherSuites`

### Description

Optional: If specified, only support the specified cipher list.

### Type

`array`

## `.spec.servers[].tls.cipherSuites[]`

### Type

`string`

## **.spec.servers[].tls.subjectAltNames**

Type

array

## **.spec.servers[].tls.subjectAltNames[]**

Type

string

## **.spec.servers[].tls.verifyCertificateHash**

Type

array

## **.spec.servers[].tls.verifyCertificateHash[]**

Type

string

## **.spec.servers[].tls.verifyCertificateSpki**

Type

array

## **.spec.servers[].tls.verifyCertificateSpki[]**

Type

string

## **.status**

## Type

object

# API Endpoints

The following API endpoints are available:

- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/gateways`
  - `DELETE` : delete collection of Gateway
  - `GET` : list objects of kind Gateway
  - `POST` : create a new Gateway
- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/gateways/{name}`
  - `DELETE` : delete the specified Gateway
  - `GET` : read the specified Gateway
  - `PATCH` : partially update the specified Gateway
  - `PUT` : replace the specified Gateway
- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/gateways/{name}/status`
  - `GET` : read status of the specified Gateway
  - `PATCH` : partially update status of the specified Gateway
  - `PUT` : replace status of the specified Gateway

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/gateways

### HTTP method

DELETE

### Description

delete collection of Gateway

## HTTP responses

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

## HTTP method

`GET`

## Description

list objects of kind Gateway

## HTTP responses

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

## HTTP method

`POST`

## Description

create a new Gateway

## 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:                                                                                        |

| Parameter | Type | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |      | <p>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>Gateway</code> schema | <code>application/json</code> formatted |

### HTTP responses

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

**`/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/gateways/{name}`**

**HTTP method**

DELETE

Description

delete the specified Gateway

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 Gateway

HTTP responses

| HTTP code          | Response body  |
|--------------------|----------------|
| 200 - OK           | Gateway schema |
| 401 - Unauthorized | Empty          |

HTTP method

## PATCH

## Description

partially update the specified Gateway

## 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>Gateway</code> schema |
| 401 - Unauthorized | Empty                       |

## HTTP method

PUT

## Description

replace the specified Gateway

## 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 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>Gateway</code> schema | <code>application/json</code> formatted |

## HTTP responses

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

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/gateways/{name}/status

### HTTP method

`GET`

### Description

read status of the specified Gateway

### HTTP responses

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

### HTTP method

`PATCH`

### Description

partially update status of the specified Gateway

### 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 |

| Parameter                    | Type                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              |                     | 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 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>Gateway</code> schema |
| 401 - Unauthorized | Empty                       |

## HTTP method

`PUT`

## Description

replace status of the specified Gateway

## 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>Gateway</code> schema | <code>application/json</code> formatted |

## HTTP responses

| HTTP code     | Response body               |
|---------------|-----------------------------|
| 200 - OK      | <code>Gateway</code> schema |
| 201 - Created | <code>Gateway</code> schema |
|               |                             |

| HTTP code          | Response body |
|--------------------|---------------|
| 401 - Unauthorized | Empty         |

Type

object

Specification

| Property | Type   | Description                                                                                                                                                                                                                       |
|----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| spec     | object | Configuration affecting network reachability of a sidecar.<br>See more details at:<br><a href="https://istio.io/docs/reference/config/networking/sidecar.html">https://istio.io/docs/reference/config/networking/sidecar.html</a> |
| status   | object |                                                                                                                                                                                                                                   |

.spec

Description

Configuration affecting network reachability of a sidecar. See more details at:  
<https://istio.io/docs/reference/config/networking/sidecar.html>

Type

object

| Property                           | Type                | Description                                    |
|------------------------------------|---------------------|------------------------------------------------|
| <code>egress</code>                | <code>array</code>  |                                                |
| <code>ingress</code>               | <code>array</code>  |                                                |
| <code>outboundTrafficPolicy</code> | <code>object</code> | Configuration for the outbound traffic policy. |
| <code>workloadSelector</code>      | <code>object</code> |                                                |

**.spec.egress**

Type

`array`

**.spec.egress[]**

Type

`object`

| Property                 | Type                | Description                            |
|--------------------------|---------------------|----------------------------------------|
| <code>bind</code>        | <code>string</code> |                                        |
| <code>captureMode</code> | <code>string</code> |                                        |
| <code>hosts</code>       | <code>array</code>  |                                        |
| <code>port</code>        | <code>object</code> | The port associated with the listener. |

**.spec.egress[].hosts**

Type

array

## **.spec.egress[].hosts[]**

### Type

string

## **.spec.egress[].port**

### Description

The port associated with the listener.

### Type

object

| Property   | Type    | Description                               |
|------------|---------|-------------------------------------------|
| name       | string  | Label assigned to the port.               |
| number     | integer | A valid non-negative integer port number. |
| protocol   | string  | The protocol exposed on the port.         |
| targetPort | integer |                                           |

## **.spec.ingress**

### Type

array

## `.spec.ingress[]`

### Type

`object`

| Property                     | Type                | Description                                                 |
|------------------------------|---------------------|-------------------------------------------------------------|
| <code>bind</code>            | <code>string</code> | The IP(IPv4 or IPv6) to which the listener should be bound. |
| <code>captureMode</code>     | <code>string</code> |                                                             |
| <code>defaultEndpoint</code> | <code>string</code> |                                                             |
| <code>port</code>            | <code>object</code> | The port associated with the listener.                      |
| <code>tls</code>             | <code>object</code> |                                                             |

## `.spec.ingress[].port`

### Description

The port associated with the listener.

### Type

`object`

| Property            | Type                 | Description                               |
|---------------------|----------------------|-------------------------------------------|
| <code>name</code>   | <code>string</code>  | Label assigned to the port.               |
| <code>number</code> | <code>integer</code> | A valid non-negative integer port number. |

| Property                | Type                 | Description                       |
|-------------------------|----------------------|-----------------------------------|
| <code>protocol</code>   | <code>string</code>  | The protocol exposed on the port. |
| <code>targetPort</code> | <code>integer</code> |                                   |

`.spec.ingress[].tls`

Type

`object`

| Property                        | Type                 | Description                                                     |
|---------------------------------|----------------------|-----------------------------------------------------------------|
| <code>caCertificates</code>     | <code>string</code>  | REQUIRED if mode is <code>MUTUAL</code> .                       |
| <code>cipherSuites</code>       | <code>array</code>   | Optional: If specified, only support the specified cipher list. |
| <code>credentialName</code>     | <code>string</code>  |                                                                 |
| <code>httpsRedirect</code>      | <code>boolean</code> |                                                                 |
| <code>maxProtocolVersion</code> | <code>string</code>  | Optional: Maximum TLS protocol version.                         |
| <code>minProtocolVersion</code> | <code>string</code>  | Optional: Minimum TLS protocol version.                         |
| <code>mode</code>               | <code>string</code>  |                                                                 |
|                                 |                      |                                                                 |

| Property              | Type   | Description                            |
|-----------------------|--------|----------------------------------------|
| privateKey            | string | REQUIRED if mode is SIMPLE or MUTUAL . |
| serverCertificate     | string | REQUIRED if mode is SIMPLE or MUTUAL . |
| subjectAltNames       | array  |                                        |
| verifyCertificateHash | array  |                                        |
| verifyCertificateSpki | array  |                                        |

**.spec.ingress[].tls.cipherSuites**

**Description**

Optional: If specified, only support the specified cipher list.

**Type**

array

**.spec.ingress[].tls.cipherSuites[]**

**Type**

string

**.spec.ingress[].tls.subjectAltNames**

**Type**

array

**.spec.ingress[].tls.subjectAltNames[]**

**Type**`string`**.spec.ingress[].tls.verifyCertificateHash****Type**`array`**.spec.ingress[].tls.verifyCertificateHash[]****Type**`string`**.spec.ingress[].tls.verifyCertificateSpki****Type**`array`**.spec.ingress[].tls.verifyCertificateSpki[]****Type**`string`**.spec.outboundTrafficPolicy****Description**

Configuration for the outbound traffic policy.

**Type**`object`

| Property                 | Type                | Description |
|--------------------------|---------------------|-------------|
| <code>egressProxy</code> | <code>object</code> |             |
| <code>mode</code>        | <code>string</code> |             |

## `.spec.outboundTrafficPolicy.egressProxy`

### Type

`object`

| Property            | Type                | Description                                             |
|---------------------|---------------------|---------------------------------------------------------|
| <code>host</code>   | <code>string</code> | The name of a service from the service registry.        |
| <code>port</code>   | <code>object</code> | Specifies the port on the host that is being addressed. |
| <code>subset</code> | <code>string</code> | The name of a subset within the service.                |

## `.spec.outboundTrafficPolicy.egressProxy.port`

### Description

Specifies the port on the host that is being addressed.

### Type

`object`

| Property            | Type                 | Description |
|---------------------|----------------------|-------------|
| <code>number</code> | <code>integer</code> |             |

## .spec.workloadSelector

### Type

object

| Property | Type   | Description |
|----------|--------|-------------|
| labels   | object |             |

## .spec.workloadSelector.labels

### Type

object

## .status

### Type

object

## API Endpoints

The following API endpoints are available:

- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/sidecars`
  - `DELETE` : delete collection of Sidecar
  - `GET` : list objects of kind Sidecar
  - `POST` : create a new Sidecar
- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/sidecars/{name}`
  - `DELETE` : delete the specified Sidecar
  - `GET` : read the specified Sidecar
  - `PATCH` : partially update the specified Sidecar

- **PUT** : replace the specified Sidecar
- **/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/sidecars/{name}/status**
  - **GET** : read status of the specified Sidecar
  - **PATCH** : partially update status of the specified Sidecar
  - **PUT** : replace status of the specified Sidecar

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/sidecars

### HTTP method

**DELETE**

### Description

delete collection of Sidecar

### HTTP responses

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

### HTTP method

**GET**

### Description

list objects of kind Sidecar

### HTTP responses

| HTTP code          | Response body                                                                                                 |
|--------------------|---------------------------------------------------------------------------------------------------------------|
| 200 - OK           | <b>SidecarList</b>  schema |
| 401 - Unauthorized | Empty                                                                                                         |

## HTTP method

POST

## Description

create a new Sidecar

## 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 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>Sidecar</code> schema | <code>application/json</code> formatted |

## HTTP responses

| HTTP code          | Response body                  |
|--------------------|--------------------------------|
| 200 - OK           | <a href="#">Sidecar</a> schema |
| 201 - Created      | <a href="#">Sidecar</a> schema |
| 202 - Accepted     | <a href="#">Sidecar</a> schema |
| 401 - Unauthorized | Empty                          |

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/sidecars/{name}

### HTTP method

[DELETE](#)

### Description

delete the specified Sidecar

### Query parameters

| Parameter              | Type                   | Description                                                                                                                                                                                                                                              |
|------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">dryRun</a> | <a href="#">string</a> | 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       | <a href="#">Status</a> schema |
| 202 - Accepted | <a href="#">Status</a> schema |
|                |                               |

| HTTP code          | Response body |
|--------------------|---------------|
| 401 - Unauthorized | Empty         |

## HTTP method

GET

## Description

read the specified Sidecar

## HTTP responses

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

## HTTP method

PATCH

## Description

partially update the specified Sidecar

## 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>Sidecar</code> schema |
| 401 - Unauthorized | Empty                       |

## HTTP method

PUT

## Description

replace the specified Sidecar

## 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                                  |

| Parameter | Type | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |      | 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>Sidecar</code> schema | <code>application/json</code> formatted |

### HTTP responses

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

**/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/sidecars/{name}/status**

### HTTP method

`GET`

### Description

read status of the specified Sidecar

## HTTP responses

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

## HTTP method

`PATCH`

## Description

partially update status of the specified Sidecar

## 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 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 |

| Parameter | Type | Description                                                |
|-----------|------|------------------------------------------------------------|
|           |      | will contain all unknown and duplicate fields encountered. |

## HTTP responses

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

## HTTP method

`PUT`

## Description

replace status of the specified Sidecar

## 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 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 |

| Parameter | Type | Description                                                                                                                                                                                                                   |
|-----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |      | 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      | Sidecar schema | application/json formatted |

HTTP responses

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

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[Alauda Service Mesh](#) > [API Reference](#) > [Kubernetes APIs](#) > [networking.istio.io](#) > [virtua](#)

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## Type

object

# Specification

| Property          | Type              | Description                                                                                                                                                                                                                                            |
|-------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>spec</div>   | <div>object</div> | Configuration affecting label/content routing, sni routing, etc. See more details at:<br><a href="https://istio.io/docs/reference/config/networking/virtual-service.html">https://istio.io/docs/reference/config/networking/virtual-service.html</a> ↗ |
| <div>status</div> | <div>object</div> |                                                                                                                                                                                                                                                        |

## .spec

### Description

Configuration affecting label/content routing, sni routing, etc. See more details at:  
<https://istio.io/docs/reference/config/networking/virtual-service.html>

### Type

object

| Property              | Type               | Description                                                        |
|-----------------------|--------------------|--------------------------------------------------------------------|
| <code>exportTo</code> | <code>array</code> | A list of namespaces to which this virtual service is exported.    |
| <code>gateways</code> | <code>array</code> | The names of gateways and sidecars that should apply these routes. |
| <code>hosts</code>    | <code>array</code> | The destination hosts to which traffic is being sent.              |
| <code>http</code>     | <code>array</code> | An ordered list of route rules for HTTP traffic.                   |
| <code>tcp</code>      | <code>array</code> | An ordered list of route rules for opaque TCP traffic.             |
| <code>tls</code>      | <code>array</code> |                                                                    |

## `.spec.exportTo`

### Description

A list of namespaces to which this virtual service is exported.

### Type

`array`

## `.spec.exportTo[]`

### Type

`string`

## **.spec.gateways**

### **Description**

The names of gateways and sidecars that should apply these routes.

### **Type**

array

## **.spec.gateways[]**

### **Type**

string

## **.spec.hosts**

### **Description**

The destination hosts to which traffic is being sent.

### **Type**

array

## **.spec.hosts[]**

### **Type**

string

## **.spec.http**

### **Description**

An ordered list of route rules for HTTP traffic.

### **Type**

array

# .spec.http[]

## Type

object

| Property                    | Type    | Description                                                                                           |
|-----------------------------|---------|-------------------------------------------------------------------------------------------------------|
| <code>corsPolicy</code>     | object  | Cross-Origin Resource Sharing policy (CORS).                                                          |
| <code>delegate</code>       | object  |                                                                                                       |
| <code>directResponse</code> | object  | A HTTP rule can either return a <code>direct_response</code> , redirect or forward (default) traffic. |
| <code>fault</code>          | object  | Fault injection policy to apply on HTTP traffic at the client side.                                   |
| <code>headers</code>        | object  |                                                                                                       |
| <code>match</code>          | array   |                                                                                                       |
| <code>mirror</code>         | object  |                                                                                                       |
| <code>mirror_percent</code> | integer | Percentage of the traffic to be mirrored by the <code>mirror</code> field.                            |
| <code>mirrorPercent</code>  | integer | Percentage of the traffic to be mirrored by the <code>mirror</code> field.                            |
|                             |         |                                                                                                       |

| Property                      | Type                | Description                                                                                                                     |
|-------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <code>mirrorPercentage</code> | <code>object</code> | Percentage of the traffic to be mirrored by the <code>mirror</code> field.                                                      |
| <code>name</code>             | <code>string</code> | The name assigned to the route for debugging purposes.                                                                          |
| <code>redirect</code>         | <code>object</code> | A HTTP rule can either return a <code>direct_response</code> , <code>redirect</code> or <code>forward</code> (default) traffic. |
| <code>retries</code>          | <code>object</code> | Retry policy for HTTP requests.                                                                                                 |
| <code>rewrite</code>          | <code>object</code> | Rewrite HTTP URIs and Authority headers.                                                                                        |
| <code>route</code>            | <code>array</code>  | A HTTP rule can either return a <code>direct_response</code> , <code>redirect</code> or <code>forward</code> (default) traffic. |
| <code>timeout</code>          | <code>string</code> | Timeout for HTTP requests, default is disabled.                                                                                 |

## `.spec.http[].corsPolicy`

### Description

Cross-Origin Resource Sharing policy (CORS).

### Type

`object`

| Property                      | Type                 | Description                                                    |
|-------------------------------|----------------------|----------------------------------------------------------------|
| <code>allowCredentials</code> | <code>boolean</code> |                                                                |
| <code>allowHeaders</code>     | <code>array</code>   |                                                                |
| <code>allowMethods</code>     | <code>array</code>   | List of HTTP methods allowed to access the resource.           |
| <code>allowOrigin</code>      | <code>array</code>   | The list of origins that are allowed to perform CORS requests. |
| <code>allowOrigins</code>     | <code>array</code>   | String patterns that match allowed origins.                    |
| <code>exposeHeaders</code>    | <code>array</code>   |                                                                |
| <code>maxAge</code>           | <code>string</code>  |                                                                |

## `.spec.http[].corsPolicy.allowHeaders`

### Type

`array`

## `.spec.http[].corsPolicy.allowHeaders[]`

### Type

`string`

## `.spec.http[].corsPolicy.allowMethods`

### Description

List of HTTP methods allowed to access the resource.

**Type**`array`**.spec.http[].corsPolicy.allowMethods[]****Type**`string`**.spec.http[].corsPolicy.allowOrigin****Description**

The list of origins that are allowed to perform CORS requests.

**Type**`array`**.spec.http[].corsPolicy.allowOrigin[]****Type**`string`**.spec.http[].corsPolicy.allowOrigins****Description**

String patterns that match allowed origins.

**Type**`array`**.spec.http[].corsPolicy.allowOrigins[]****Type**`object`

| Property            | Type                | Description                                                                                                                            |
|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <code>exact</code>  | <code>string</code> |                                                                                                                                        |
| <code>prefix</code> | <code>string</code> |                                                                                                                                        |
| <code>regex</code>  | <code>string</code> | RE2 style regex-based match<br>( <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a> ^). |

## `.spec.http[].corsPolicy.exposeHeaders`

### Type

`array`

## `.spec.http[].corsPolicy.exposeHeaders[]`

### Type

`string`

## `.spec.http[].delegate`

### Type

`object`

| Property               | Type                | Description                                                                  |
|------------------------|---------------------|------------------------------------------------------------------------------|
| <code>name</code>      | <code>string</code> | Name specifies the name of the delegate VirtualService.                      |
| <code>namespace</code> | <code>string</code> | Namespace specifies the namespace where the delegate VirtualService resides. |

## `.spec.http[].directResponse`

### Description

A HTTP rule can either return a `direct_response`, `redirect` or `forward` (default) traffic.

### Type

object

| Property            | Type    | Description                                        |
|---------------------|---------|----------------------------------------------------|
| <code>body</code>   | object  | Specifies the content of the response body.        |
| <code>status</code> | integer | Specifies the HTTP response status to be returned. |

## `.spec.http[].directResponse.body`

### Description

Specifies the content of the response body.

### Type

object

| Property            | Type   | Description                            |
|---------------------|--------|----------------------------------------|
| <code>bytes</code>  | string | response body as base64 encoded bytes. |
| <code>string</code> | string |                                        |

## `.spec.http[].fault`

### Description

Fault injection policy to apply on HTTP traffic at the client side.

**Type**

object

| Property | Type   | Description |
|----------|--------|-------------|
| abort    | object |             |
| delay    | object |             |

**.spec.http[].fault.abort****Type**

object

| Property   | Type    | Description                                                        |
|------------|---------|--------------------------------------------------------------------|
| grpcStatus | string  | GRPC status code to use to abort the request.                      |
| http2Error | string  |                                                                    |
| httpStatus | integer | HTTP status code to use to abort the Http request.                 |
| percentage | object  | Percentage of requests to be aborted with the error code provided. |

**.spec.http[].fault.abort.percentage****Description**

Percentage of requests to be aborted with the error code provided.

**Type**

object

| Property           | Type                | Description |
|--------------------|---------------------|-------------|
| <code>value</code> | <code>number</code> |             |

## `.spec.http[].fault.delay`

### Type

`object`

| Property                      | Type                 | Description                                                         |
|-------------------------------|----------------------|---------------------------------------------------------------------|
| <code>exponentialDelay</code> | <code>string</code>  |                                                                     |
| <code>fixedDelay</code>       | <code>string</code>  | Add a fixed delay before forwarding the request.                    |
| <code>percent</code>          | <code>integer</code> | Percentage of requests on which the delay will be injected (0-100). |
| <code>percentage</code>       | <code>object</code>  | Percentage of requests on which the delay will be injected.         |

## `.spec.http[].fault.delay.percentage`

### Description

Percentage of requests on which the delay will be injected.

### Type

`object`

| Property | Type   | Description |
|----------|--------|-------------|
| value    | number |             |

## `.spec.http[].headers`

### Type

object

| Property | Type   | Description |
|----------|--------|-------------|
| request  | object |             |
| response | object |             |

## `.spec.http[].headers.request`

### Type

object

| Property | Type   | Description |
|----------|--------|-------------|
| add      | object |             |
| remove   | array  |             |
| set      | object |             |

## `.spec.http[].headers.request.add`

### Type

object

## `.spec.http[].headers.request.remove`

Type

array

**.spec.http[].headers.request.remove[]**

Type

string

**.spec.http[].headers.request.set**

Type

object

**.spec.http[].headers.response**

Type

object

| Property | Type   | Description |
|----------|--------|-------------|
| add      | object |             |
| remove   | array  |             |
| set      | object |             |

**.spec.http[].headers.response.add**

Type

object

**.spec.http[].headers.response.remove**

Type

array

**.spec.http[].headers.response.remove[]**

Type

string

**.spec.http[].headers.response.set**

Type

object

**.spec.http[].match**

Type

array

**.spec.http[].match[]**

Type

object

| Property  | Type   | Description                                         |
|-----------|--------|-----------------------------------------------------|
| authority | object |                                                     |
| gateways  | array  | Names of gateways where the rule should be applied. |
| headers   | object |                                                     |
|           |        |                                                     |

| Property                     | Type                 | Description                                                                               |
|------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>ignoreUriCase</code>   | <code>boolean</code> | Flag to specify whether the URI matching should be case-insensitive.                      |
| <code>method</code>          | <code>object</code>  |                                                                                           |
| <code>name</code>            | <code>string</code>  | The name assigned to a match.                                                             |
| <code>port</code>            | <code>integer</code> | Specifies the ports on the host that is being addressed.                                  |
| <code>queryParams</code>     | <code>object</code>  | Query parameters for matching.                                                            |
| <code>scheme</code>          | <code>object</code>  |                                                                                           |
| <code>sourceLabels</code>    | <code>object</code>  |                                                                                           |
| <code>sourceNamespace</code> | <code>string</code>  | Source namespace constraining the applicability of a rule to workloads in that namespace. |
| <code>statPrefix</code>      | <code>string</code>  | The human readable prefix to use when emitting statistics for this route.                 |
| <code>uri</code>             | <code>object</code>  |                                                                                           |
| <code>withoutHeaders</code>  | <code>object</code>  | <code>withoutHeader</code> has the same syntax with the header, but has opposite meaning. |

## `.spec.http[].match[].authority`

### Type

object

| Property            | Type                | Description                                                                                                                            |
|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <code>exact</code>  | <code>string</code> |                                                                                                                                        |
| <code>prefix</code> | <code>string</code> |                                                                                                                                        |
| <code>regex</code>  | <code>string</code> | RE2 style regex-based match<br>( <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a> ^). |

## `.spec.http[].match[].gateways`

### Description

Names of gateways where the rule should be applied.

### Type

array

## `.spec.http[].match[].gateways[]`

### Type

string

## `.spec.http[].match[].headers`

### Type

object

## `.spec.http[].match[].method`

## Type

object

| Property | Type   | Description                                                                                                                            |
|----------|--------|----------------------------------------------------------------------------------------------------------------------------------------|
| exact    | string |                                                                                                                                        |
| prefix   | string |                                                                                                                                        |
| regex    | string | RE2 style regex-based match<br>( <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a> ^). |

## .spec.http[].match[].queryParams

### Description

Query parameters for matching.

### Type

object

## .spec.http[].match[].scheme

### Type

object

| Property | Type   | Description                                                                                                                            |
|----------|--------|----------------------------------------------------------------------------------------------------------------------------------------|
| exact    | string |                                                                                                                                        |
| prefix   | string |                                                                                                                                        |
| regex    | string | RE2 style regex-based match<br>( <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a> ^). |

## `.spec.http[].match[].sourceLabels`

### Type

`object`

## `.spec.http[].match[].uri`

### Type

`object`

| Property            | Type                | Description                                                                                                                            |
|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <code>exact</code>  | <code>string</code> |                                                                                                                                        |
| <code>prefix</code> | <code>string</code> |                                                                                                                                        |
| <code>regex</code>  | <code>string</code> | RE2 style regex-based match<br>( <a href="https://github.com/google/re2/wiki/Syntax">https://github.com/google/re2/wiki/Syntax</a> ↗). |

## `.spec.http[].match[].withoutHeaders`

### Description

`withoutHeader` has the same syntax with the header, but has opposite meaning.

### Type

`object`

## `.spec.http[].mirror`

### Type

`object`

| Property            | Type                | Description                                             |
|---------------------|---------------------|---------------------------------------------------------|
| <code>host</code>   | <code>string</code> | The name of a service from the service registry.        |
| <code>port</code>   | <code>object</code> | Specifies the port on the host that is being addressed. |
| <code>subset</code> | <code>string</code> | The name of a subset within the service.                |

## `.spec.http[].mirror.port`

### Description

Specifies the port on the host that is being addressed.

### Type

`object`

| Property            | Type                 | Description |
|---------------------|----------------------|-------------|
| <code>number</code> | <code>integer</code> |             |

## `.spec.http[].mirrorPercentage`

### Description

Percentage of the traffic to be mirrored by the ``mirror`` field.

### Type

`object`

| Property           | Type                | Description |
|--------------------|---------------------|-------------|
| <code>value</code> | <code>number</code> |             |

## .spec.http[].redirect

### Description

A HTTP rule can either return a `direct_response`, `redirect` or `forward` (default) traffic.

### Type

object

| Property                  | Type                 | Description                                                             |
|---------------------------|----------------------|-------------------------------------------------------------------------|
| <code>authority</code>    | <code>string</code>  |                                                                         |
| <code>derivePort</code>   | <code>string</code>  |                                                                         |
| <code>port</code>         | <code>integer</code> | On a redirect, overwrite the port portion of the URL with this value.   |
| <code>redirectCode</code> | <code>integer</code> |                                                                         |
| <code>scheme</code>       | <code>string</code>  | On a redirect, overwrite the scheme portion of the URL with this value. |
| <code>uri</code>          | <code>string</code>  |                                                                         |

## .spec.http[].retries

### Description

Retry policy for HTTP requests.

### Type

object

| Property                           | Type                 | Description                                                                          |
|------------------------------------|----------------------|--------------------------------------------------------------------------------------|
| <code>attempts</code>              | <code>integer</code> | Number of retries to be allowed for a given request.                                 |
| <code>perTryTimeout</code>         | <code>string</code>  | Timeout per attempt for a given request, including the initial call and any retries. |
| <code>retryOn</code>               | <code>string</code>  | Specifies the conditions under which retry takes place.                              |
| <code>retryRemoteLocalities</code> | <code>boolean</code> | Flag to specify whether the retries should retry to other localities.                |

## `.spec.http[].rewrite`

### Description

Rewrite HTTP URIs and Authority headers.

### Type

`object`

| Property               | Type                | Description                                        |
|------------------------|---------------------|----------------------------------------------------|
| <code>authority</code> | <code>string</code> | rewrite the Authority/Host header with this value. |
| <code>uri</code>       | <code>string</code> |                                                    |

## `.spec.http[].route`

### Description

A HTTP rule can either return a `direct_response`, `redirect` or `forward` (default) traffic.

### Type

array

## `.spec.http[].route[]`

### Type

object

| Property                 | Type                 | Description                                                                             |
|--------------------------|----------------------|-----------------------------------------------------------------------------------------|
| <code>destination</code> | <code>object</code>  |                                                                                         |
| <code>headers</code>     | <code>object</code>  |                                                                                         |
| <code>weight</code>      | <code>integer</code> | Weight specifies the relative proportion of traffic to be forwarded to the destination. |

## `.spec.http[].route[].destination`

### Type

object

| Property          | Type                | Description                                      |
|-------------------|---------------------|--------------------------------------------------|
| <code>host</code> | <code>string</code> | The name of a service from the service registry. |
|                   |                     |                                                  |

| Property            | Type                | Description                                             |
|---------------------|---------------------|---------------------------------------------------------|
| <code>port</code>   | <code>object</code> | Specifies the port on the host that is being addressed. |
| <code>subset</code> | <code>string</code> | The name of a subset within the service.                |

## `.spec.http[].route[].destination.port`

### Description

Specifies the port on the host that is being addressed.

### Type

`object`

| Property            | Type                 | Description |
|---------------------|----------------------|-------------|
| <code>number</code> | <code>integer</code> |             |

## `.spec.http[].route[].headers`

### Type

`object`

| Property              | Type                | Description |
|-----------------------|---------------------|-------------|
| <code>request</code>  | <code>object</code> |             |
| <code>response</code> | <code>object</code> |             |

## `.spec.http[].route[].headers.request`

### Type

`object`

| Property            | Type                | Description |
|---------------------|---------------------|-------------|
| <code>add</code>    | <code>object</code> |             |
| <code>remove</code> | <code>array</code>  |             |
| <code>set</code>    | <code>object</code> |             |

## `.spec.http[].route[].headers.request.add`

Type

`object`

## `.spec.http[].route[].headers.request.remove`

Type

`array`

## `.spec.http[].route[].headers.request.remove[]`

Type

`string`

## `.spec.http[].route[].headers.request.set`

Type

`object`

## `.spec.http[].route[].headers.response`

Type

`object`

| Property | Type   | Description |
|----------|--------|-------------|
| add      | object |             |
| remove   | array  |             |
| set      | object |             |

## **.spec.http[].route[].headers.response.add**

### Type

object

## **.spec.http[].route[].headers.response.remove**

### Type

array

## **.spec.http[].route[].headers.response.remove[]**

### Type

string

## **.spec.http[].route[].headers.response.set**

### Type

object

## **.spec.tcp**

### Description

An ordered list of route rules for opaque TCP traffic.

### Type

array

.spec.tcp[]

Type

object

| Property | Type  | Description                                                     |
|----------|-------|-----------------------------------------------------------------|
| match    | array |                                                                 |
| route    | array | The destination to which the connection should be forwarded to. |

.spec.tcp[].match

Type

array

.spec.tcp[].match[]

Type

object

| Property           | Type  | Description                                                    |
|--------------------|-------|----------------------------------------------------------------|
| destinationSubnets | array | IPv4 or IPv6 ip addresses of destination with optional subnet. |
|                    |       |                                                                |

| Property                     | Type                 | Description                                                                               |
|------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>gateways</code>        | <code>array</code>   | Names of gateways where the rule should be applied.                                       |
| <code>port</code>            | <code>integer</code> | Specifies the port on the host that is being addressed.                                   |
| <code>sourceLabels</code>    | <code>object</code>  |                                                                                           |
| <code>sourceNamespace</code> | <code>string</code>  | Source namespace constraining the applicability of a rule to workloads in that namespace. |
| <code>sourceSubnet</code>    | <code>string</code>  | IPv4 or IPv6 ip address of source with optional subnet.                                   |

## `.spec.tcp[].match[].destinationSubnets`

### Description

IPv4 or IPv6 ip addresses of destination with optional subnet.

### Type

`array`

## `.spec.tcp[].match[].destinationSubnets[]`

### Type

`string`

# .spec.tcp[].match[].gateways

## Description

Names of gateways where the rule should be applied.

## Type

array

# .spec.tcp[].match[].gateways[]

## Type

string

# .spec.tcp[].match[].sourceLabels

## Type

object

# .spec.tcp[].route

## Description

The destination to which the connection should be forwarded to.

## Type

array

# .spec.tcp[].route[]

## Type

object

| Property    | Type   | Description |
|-------------|--------|-------------|
| destination | object |             |
|             |        |             |

| Property            | Type                 | Description                                                                             |
|---------------------|----------------------|-----------------------------------------------------------------------------------------|
| <code>weight</code> | <code>integer</code> | Weight specifies the relative proportion of traffic to be forwarded to the destination. |

## `.spec.tcp[].route[].destination`

### Type

`object`

| Property            | Type                | Description                                             |
|---------------------|---------------------|---------------------------------------------------------|
| <code>host</code>   | <code>string</code> | The name of a service from the service registry.        |
| <code>port</code>   | <code>object</code> | Specifies the port on the host that is being addressed. |
| <code>subset</code> | <code>string</code> | The name of a subset within the service.                |

## `.spec.tcp[].route[].destination.port`

### Description

Specifies the port on the host that is being addressed.

### Type

`object`

| Property            | Type                 | Description |
|---------------------|----------------------|-------------|
| <code>number</code> | <code>integer</code> |             |

# .spec.tls

Type

array

# .spec.tls[]

Type

object

| Property | Type  | Description                                                     |
|----------|-------|-----------------------------------------------------------------|
| match    | array |                                                                 |
| route    | array | The destination to which the connection should be forwarded to. |

# .spec.tls[].match

Type

array

# .spec.tls[].match[]

Type

object

| Property           | Type  | Description                                                    |
|--------------------|-------|----------------------------------------------------------------|
| destinationSubnets | array | IPv4 or IPv6 ip addresses of destination with optional subnet. |

| Property                     | Type                 | Description                                                                               |
|------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| <code>gateways</code>        | <code>array</code>   | Names of gateways where the rule should be applied.                                       |
| <code>port</code>            | <code>integer</code> | Specifies the port on the host that is being addressed.                                   |
| <code>sniHosts</code>        | <code>array</code>   | SNI (server name indicator) to match on.                                                  |
| <code>sourceLabels</code>    | <code>object</code>  |                                                                                           |
| <code>sourceNamespace</code> | <code>string</code>  | Source namespace constraining the applicability of a rule to workloads in that namespace. |

## `.spec.tls[].match[].destinationSubnets`

### Description

IPv4 or IPv6 ip addresses of destination with optional subnet.

### Type

`array`

## `.spec.tls[].match[].destinationSubnets[]`

### Type

`string`

## `.spec.tls[].match[].gateways`

## Description

Names of gateways where the rule should be applied.

## Type

array

## `.spec.tls[].match[].gateways[]`

## Type

string

## `.spec.tls[].match[].sniHosts`

## Description

SNI (server name indicator) to match on.

## Type

array

## `.spec.tls[].match[].sniHosts[]`

## Type

string

## `.spec.tls[].match[].sourceLabels`

## Type

object

## `.spec.tls[].route`

## Description

The destination to which the connection should be forwarded to.

## Type

`array`

## `.spec.tls[].route[]`

### Type

`object`

| Property                 | Type                 | Description                                                                             |
|--------------------------|----------------------|-----------------------------------------------------------------------------------------|
| <code>destination</code> | <code>object</code>  |                                                                                         |
| <code>weight</code>      | <code>integer</code> | Weight specifies the relative proportion of traffic to be forwarded to the destination. |

## `.spec.tls[].route[].destination`

### Type

`object`

| Property            | Type                | Description                                             |
|---------------------|---------------------|---------------------------------------------------------|
| <code>host</code>   | <code>string</code> | The name of a service from the service registry.        |
| <code>port</code>   | <code>object</code> | Specifies the port on the host that is being addressed. |
| <code>subset</code> | <code>string</code> | The name of a subset within the service.                |

## `.spec.tls[].route[].destination.port`

## Description

Specifies the port on the host that is being addressed.

## Type

object

| Property | Type    | Description |
|----------|---------|-------------|
| number   | integer |             |

## .status

## Type

object

# API Endpoints

The following API endpoints are available:

- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/virtualservices`
  - `DELETE` : delete collection of VirtualService
  - `GET` : list objects of kind VirtualService
  - `POST` : create a new VirtualService
- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/virtualservices/{name}`
  - `DELETE` : delete the specified VirtualService
  - `GET` : read the specified VirtualService
  - `PATCH` : partially update the specified VirtualService
  - `PUT` : replace the specified VirtualService
- `/apis/networking.istio.io/v1alpha3/namespaces/{namespace}/virtualservices/{name}/status`

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

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/virtualservices

### HTTP method

**DELETE**

### Description

delete collection of VirtualService

### HTTP responses

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

### HTTP method

**GET**

### Description

list objects of kind VirtualService

### HTTP responses

| HTTP code          | Response body                    |
|--------------------|----------------------------------|
| 200 - OK           | <b>VirtualServiceList</b> schema |
| 401 - Unauthorized | Empty                            |

### HTTP method

**POST**

### Description

create a new VirtualService

## 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 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>VirtualService</code> schema | <code>application/json</code> formatted |

## HTTP responses

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

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/virtualservices/{name}

### HTTP method

`DELETE`

### Description

delete the specified VirtualService

### 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 VirtualService

## HTTP responses

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

## HTTP method

**PATCH**

## Description

partially update the specified VirtualService

## 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. |

| Parameter | Type | Description                                                                                                                                                                                                                                                                              |
|-----------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |      | 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>VirtualService</code> schema |
| 401 - Unauthorized | Empty                              |

## HTTP method

`PUT`

## Description

replace the specified VirtualService

## 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, |

| Parameter | Type | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |      | 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      | VirtualService schema | application/json formatted |

### HTTP responses

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

## /apis/networking.istio.io/v1alpha3/namespaces/{namespace}/virtualservices/{name}/status

### HTTP method

GET

### Description

read status of the specified VirtualService

### HTTP responses

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

## HTTP method

`PATCH`

## Description

partially update status of the specified VirtualService

## 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 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>VirtualService</code> schema |
| 401 - Unauthorized | Empty                              |

## HTTP method

PUT

### Description

replace status of the specified VirtualService

## 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 |

| Parameter                    | Type                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>fieldValidation</code> | <code>string</code> | <p>fieldValidation 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"> <li>- 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.</li> <li>- 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+.</li> <li>- 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.</li> </ul> |

## Body parameters

| Parameter         | Type                               | Description                             |
|-------------------|------------------------------------|-----------------------------------------|
| <code>body</code> | <code>VirtualService</code> schema | <code>application/json</code> formatted |

## HTTP responses

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