



[Documentation](#) [Kubernetes Blog](#) [Training](#) [Partners](#) [Community](#) [Case Studies](#) [Versions ▾](#) [English ▾](#)

KubeCon + CloudNativeCon 2024

Join us for three days of incredible opportunities to collaborate, learn and share with the cloud native community.

[Buy your ticket now! 12 - 15 November | Salt Lake City.](#)



KubeCon



CloudNativeCon

North America 2024

🔍 Search this site

- ▶ Documentation
- ▶ Getting started
- ▶ Concepts
- ▶ Tasks
- ▶ Tutorials
- ▼ Reference
 - Glossary
 - ▶ API Overview
 - ▶ API Access Control
 - ▶ Well-Known Labels, Annotations and Taints

[Kubernetes Documentation](#) / [Reference](#) / [Configuration APIs](#) / [kube-apiserver Audit Configuration \(v1\)](#)

kube-apiserver Audit Configuration (v1)

Resource Types

- [Event](#)
- [EventList](#)
- [Policy](#)
- [PolicyList](#)

Event

Appears in:

- [EventList](#)

Event captures all the information that can be included in an API audit log.



- ▶ Kubernetes API
- ▶ Instrumentation
- ▶ Kubernetes Issues and Security
- ▶ Node

Field	Description
apiVersion string	audit.k8s.io/v1
kind string	Event
level [Required] Level	AuditLevel at which
auditID [Required] k8s.io/apimachinery/pkg/types.UID	Unique audit ID, generated by the request.
stage [Required] Stage	Stage of the request event instance was
requestURI [Required] string	RequestURI is the request URI from the client to a server.
verb [Required] string	Verb is the kubernetes action with the request. For GET requests, this is the method.
user [Required] authentication/v1.UserInfo	Authenticated user
impersonatedUser authentication/v1.UserInfo	Impersonated user
sourceIPs []string	Source IPs, from which the request originated and intermediate source IPs are listed.



kubernetes

Documentation

1. X-Forwarded-For
 2. X-Real-Ip header
 3. X-Forwarded-For header
- The remote address of the connection, if the connection is proxied. The last IP in the list is the IP of the client. The X-Forwarded-For header is not trusted by the client.

userAgent
string

UserAgent records the user agent reported by the client. The UserAgent is provided by the client and must not be trusted.

objectRef
[ObjectReference](#)

Object reference that refers to the requested object. Does not apply to non-resource requests.

responseStatus
[meta/v1.Status](#)

The response status of the request. When the Response type is Status, only the Code and Message fields are included. For non-status type, the response status will be auto-populated with the Message.

requestObject
[k8s.io/apimachinery/pkg/runtime.Unknown](#)

API object from the request. The Request object is in the request (payload), prior to versioning. The Request object is not a valid object.



kubernetes

Documentation

[Kubernetes Blog](#) [Training](#) [Partners](#) [Community](#) [Case Studies](#) [Versions](#) [English](#)

responseObject

k8s.io/apimachinery/pkg/runtime.Unknown

for non-resource requests.
Request Level and Response Level.

API object returned as JSON. The Response object is returned after conversion to the target API version, serialized as JSON. Only for resource requests. Response Level.

requestReceivedTimestamp

[meta/v1.MicroTime](#)

Time the request received.

stageTimestamp

[meta/v1.MicroTime](#)

Time the request reached the stage.

annotations

map[string]string

Annotations is an unstructured map stored with an object. It can be set by plugins in the request serving chain, including admission, authorization and authentication. These annotations are not persisted to the event, and do not count towards the object's metadata.annotations size. Keys should be lowercase and inform components. Avoid collisions (e.g. podsecuritypolicy.alpha.kubernetes.io). Values should be short and included in the Metadata.

EventList



kubernetes

Documentation

EventList is a list of audit Events.

Field	Description
apiVersion string	audit.k8s.io/v1
kind string	EventList
metadata meta/v1.ListMeta	No description provided.
items [Required] []Event	No description provided.

Policy

Appears in:

- [PolicyList](#)

Policy defines the configuration of audit logging, and the rules for how different request categories are logged.

Field	Description
apiVersion string	audit.k8s.io/v1
kind string	Policy
metadata meta/v1.ObjectMeta	ObjectMeta is included for interoperability with API infrastructure.



kubernetes

Documentation

Refer to the Kubernetes API documentation for the fields of the `metadata` field.

`rules` **[Required]**
[\[\]PolicyRule](#)

Rules specify the audit Level a request should be recorded at. A request may match multiple rules, in which case the FIRST matching rule is used. The default audit level is None, but can be overridden by a catch-all rule at the end of the list. PolicyRules are strictly ordered.

`omitStages`
[\[\]Stage](#)

OmitStages is a list of stages for which no events are created. Note that this can also be specified per rule in which case the union of both are omitted.

`omitManagedFields`
`bool`

OmitManagedFields indicates whether to omit the managed fields of the request and response bodies from being written to the API audit log. This is used as a global default - a value of 'true' will omit the managed fileds, otherwise the managed fields will be included in the API audit log. Note that this can also be specified per rule in which case the value specified in a rule will override the global default.

PolicyList

PolicyList is a list of audit Policies.

Field	Description
-------	-------------



kubernetes

Documentation

apiVersion	audit.k8s.io/v1
string	

kind	PolicyList
string	

metadata	No description provided.
meta/v1.ListMeta	

items [Required]	No description provided.
[]Policy	

GroupResources

Appears in:

- [PolicyRule](#)

GroupResources represents resource kinds in an API group.

Field	Description
-------	-------------

group	Group is the name of the API group that contains the resources. The empty string represents the core API group.
string	

resources	Resources is a list of resources this rule applies to.
[]string	

For example:

- `pods` matches pods.
- `pods/log` matches the log subresource of pods.



kubernetes

Documentation

- `*` matches all resources and their subresources.
- `pods/*` matches all subresources of pods.
- `*/scale` matches all scale subresources.

If wildcard is present, the validation rule will ensure resources do not overlap with each other.

An empty list implies all resources and subresources in this API groups apply.

`resourceNames`
`[]string`

`ResourceNames` is a list of resource instance names that the policy matches. Using this field requires `Resources` to be specified. An empty list implies that every instance of the resource is matched.

Level

(Alias of `string`)

Appears in:

- [Event](#)
- [PolicyRule](#)

Level defines the amount of information logged during auditing

ObjectReference

Appears in:



kubernetes

Documentation

- [Event](#)

ObjectReference contains enough information to let you inspect or modify the referred object.

Field	Description
resource string	No description provided.
namespace string	No description provided.
name string	No description provided.
uid k8s.io/apimachinery/pkg/types.UID	No description provided.
apiGroup string	APIGroup is the name of the API group that contains the referred object. The empty string represents the core API group.
apiVersion string	APIVersion is the version of the API group that contains the referred object.
resourceVersion string	No description provided.



kubernetes

Documentation

subresource
string

No description provided.

PolicyRule

Appears in:

- [Policy](#)

PolicyRule maps requests based off metadata to an audit Level. Requests must match the rules of every field (an intersection of rules).

Field	Description
level [Required] Level	The Level that requests matching this rule are recorded at.
users []string	The users (by authenticated user name) this rule applies to. An empty list implies every user.
userGroups []string	The user groups this rule applies to. A user is considered matching if it is a member of any of the UserGroups. An empty list implies every user group.
verbs []string	The verbs that match this rule. An empty list implies every verb.
resources []GroupResources	Resources that this rule matches. An empty list implies all kinds in all API groups.



kubernetes

Documentation

namespaces
[]string

Namespaces that this rule matches. The empty string "" matches non-namespaced resources. An empty list implies every namespace.

nonResourceURLs
[]string

NonResourceURLs is a set of URL paths that should be audited. * s are allowed, but only as the full, final step in the path. Examples:

- /metrics - Log requests for apiserver metrics
- /healthz* - Log all health checks

omitStages
[]Stage

OmitStages is a list of stages for which no events are created. Note that this can also be specified policy wide in which case the union of both are omitted. An empty list means no restrictions will apply.

omitManagedFields
bool

OmitManagedFields indicates whether to omit the managed fields of the request and response bodies from being written to the API audit log.

- a value of 'true' will drop the managed fields from the API audit log
- a value of 'false' indicates that the managed fields should be included in the API audit log Note that the value, if specified, in this rule will override the global default If a value is not specified then the global default specified in Policy.OmitManagedFields will stand.



kubernetes

Documentation

Stage

(Alias of `string`)

Appears in:

- [Event](#)
- [Policy](#)
- [PolicyRule](#)

Stage defines the stages in request handling that audit events may be generated.

This page is automatically generated.

If you plan to report an issue with this page, mention that the page is auto-generated in your issue description. The fix may need to happen elsewhere in the Kubernetes project.

Feedback

Was this page helpful?

Yes

No

Last modified August 19, 2024 at 4:39 PM PST: [Update config API for v1.31 \(f69f28fb6b\)](#)



Documentation

Kubernetes Blog

Training

Partners

Community

Case Studies

Versions ▾

English ▾

© 2024 The Kubernetes Authors |

Documentation Distributed under CC BY 4.0

© 2024 The Linux Foundation ®. All rights reserved. The Linux Foundation has registered trademarks and uses trademarks. For a list of trademarks of The Linux Foundation, please see our Trademark Usage page

ICP license: 京ICP备17074266号-3