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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.

Field	Description
apiVersion string	audit.k8s.io/v1
kind string	Event
level [Required] Level	AuditLevel at which event was generated
<pre>auditID [Required] k8s.io/apimachinery/pkg/types.UID</pre>	Unique audit ID, generated for each request.
stage [Required] Stage	Stage of the request handling when this event instance was generated.
requestURI [Required] string	RequestURI is the request URI as sent by the client to a server.



Event Rate
Limit
Configuration
(v1alpha1)
Image Policy
API
(v1alpha1)
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verb [Required] string ernetes Blog Training Partners Commun	Verb is the kubernetes verb associated with the request. For non-resource requests, this is the lower-cased HTTP method.
<pre>user [Required] authentication/v1.UserInfo</pre>	Authenticated user information.
<pre>impersonatedUser authentication/v1.UserInfo</pre>	Impersonated user information.
sourceIPs []string	Source IPs, from where the request originated and intermediate proxies. The source IPs are listed from (in order): 1. X-Forwarded-For request header IPs 2. X-Real-Ip header, if not present in the X-Forwarded-For list
	3. The remote address for the connection, if it doesn't match the last IP in the list up to here (X-Forwarded-For or X-Real-Ip). Note: All but the last IP can be arbitrarily set by the client.
userAgent string	UserAgent records the user agent string reported by the client. Note that the UserAgent is provided by the client, and must not be trusted.
objectRef ObjectReference	Object reference this request is targeted at. Does not apply for List-type requests, or non-resource requests.
responseStatus meta/v1.Status	The response status, populated even when the ResponseObject is not a Status type. For successful responses, this will only include the Code and StatusSuccess. For non-status type error responses, this will be auto-populated with the error Message.
<pre>requestObject k8s.io/apimachinery/pkg/runtime.Unknown</pre>	API object from the request, in JSON format. The RequestObject is recorded asis in the request (possibly re-encoded as JSON), prior to version conversion, defaulting, admission or merging. It is an external versioned object type, and may not be a valid object on its own. Omitted for non-resource requests. Only logged at Request Level and higher.



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responseObject k8s.io/apimachinery/pkg/runtime.Unknown bernetes Blog Training Partners Comm	after conversion to the external type, and
<pre>requestReceivedTimestamp meta/v1.MicroTime</pre>	Time the request reached the apiserver.
<pre>stageTimestamp meta/v1.MicroTime</pre>	Time the request reached current audit stage.
annotations map[string]string	Annotations is an unstructured key value map stored with an audit event that may be set by plugins invoked in the request serving chain, including authentication, authorization and admission plugins. Note that these annotations are for the audit event, and do not correspond to the metadata.annotations of the submitted object. Keys should uniquely identify the informing component to avoid name collisions (e.g. podsecuritypolicy.admission.k8s.io/policy). Values should be short. Annotations are included in the Metadata level.

EventList

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.
<pre>items [Required] []Event</pre>	No description provided.

Policy

Appears in:

• PolicyList

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



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Field	Description
apiVersion String	paudit.k8s.io/v1 Case Studies Versions English
kind string	Policy
<pre>metadata meta/v1.ObjectMeta</pre>	ObjectMeta is included for interoperability with API infrastructure.
	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
apiVersion string	audit.k8s.io/v1
kind string	PolicyList
metadata meta/v1.ListMeta	No description provided.
<pre>items [Required] []Policy</pre>	No description provided.

GroupResources

Appears in:

• PolicyRule



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GroupResources represents resource kinds in an API group.

Field	Description
group string	Group is the name of the API group that contains the resources. The empty string represents the core API group.
resources []string	Resources is a list of resources this rule applies to. For example: • pods matches pods. • pods/log matches the log subresource of pods. • * 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

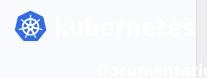
ObjectReference

Appears in:

• 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.
<pre>uid k8s.io/apimachinery/pkg/types.UID</pre>	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.
subresource string	No description provided.

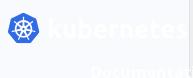
PolicyRule

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.
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



omitStages

omitStages
[]Stage

• /healthz* - Log all health checks

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 fileds 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.

Stage

(Alias of string)

Appears in:

- Event
- Policy
- PolicyRule

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

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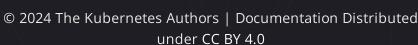
Last modified August 19, 2024 at 4:39 PM PST: Update config API for v1.31 (f69f28fb6b)





















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