OpenShift Container Platform 4.17

Project APIs

Reference guide for project APIs

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Legal Notice

Abstract

This document describes the OpenShift Container Platform project API objects and their detailed specifications.

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CHAPTER 1. PROJECT APIS

1.1. PROJECT [PROJECT.OPENSHIFT.IO/V1]

Description

Projects are the unit of isolation and collaboration in OpenShift. A project has one or more members, a quota on the resources that the project may consume, and the security controls on the resources in the project. Within a project, members may have different roles - project administrators can set membership, editors can create and manage the resources, and viewers can see but not access running containers. In a normal cluster project administrators are not able to alter their quotas - that is restricted to cluster administrators.
Listing or watching projects will return only projects the user has the reader role on.

An OpenShift project is an alternative representation of a Kubernetes namespace. Projects are exposed as editable to end users while namespaces are not. Direct creation of a project is typically restricted to administrators, while end users should use the requestproject resource.

Compatibility level 1: Stable within a major release for a minimum of 12 months or 3 minor releases (whichever is longer).

Type

object

1.2. PROJECTREQUEST [PROJECT.OPENSHIFT.IO/V1]

Description

ProjectRequest is the set of options necessary to fully qualify a project request
Compatibility level 1: Stable within a major release for a minimum of 12 months or 3 minor releases (whichever is longer).

Type

object

CHAPTER 2. PROJECT [PROJECT.OPENSHIFT.IO/V1]

Description

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Compatibility level 1: Stable within a major release for a minimum of 12 months or 3 minor releases (whichever is longer).

Type

object

2.1. SPECIFICATION

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

Property	Type	Description
metadata	**ObjectMeta_v2**	metadata is the standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata
spec	**object**	ProjectSpec describes the attributes on a Project
status	**object**	ProjectStatus is information about the current status of a Project

2.1.1. .spec

Description

ProjectSpec describes the attributes on a Project

Type

object

Property	Type	Description
finalizers	**array (string)**	Finalizers is an opaque list of values that must be empty to permanently remove object from storage

2.1.2. .status

Description

ProjectStatus is information about the current status of a Project

Type

object

Property	Type	Description
conditions	**array (NamespaceCondition)**	Represents the latest available observations of the project current state.

Property	Type	Description
phase	**string**	Phase is the current lifecycle phase of the project Possible enum values: - **"Active"** means the namespace is available for use in the system - **"Terminating"** means the namespace is undergoing graceful termination

2.2. API ENDPOINTS

The following API endpoints are available:

- **/apis/project.openshift.io/v1/projects**
  - **GET**: list or watch objects of kind Project
  - **POST**: create a Project
- **/apis/project.openshift.io/v1/watch/projects**
  - **GET**: watch individual changes to a list of Project. deprecated: use the 'watch' parameter with a list operation instead.
- **/apis/project.openshift.io/v1/projects/{name}**
  - **DELETE**: delete a Project
  - **GET**: read the specified Project
  - **PATCH**: partially update the specified Project
  - **PUT**: replace the specified Project
- **/apis/project.openshift.io/v1/watch/projects/{name}**
  - **GET**: watch changes to an object of kind Project. deprecated: use the 'watch' parameter with a list operation instead, filtered to a single item with the 'fieldSelector' parameter.

2.2.1. /apis/project.openshift.io/v1/projects

HTTP method

GET

Description

list or watch objects of kind Project

Table 2.1. HTTP responses

HTTP code	Reponse body
200 - OK	**ProjectList** schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a Project

Table 2.2. 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
fieldValidation	**string**	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.

Table 2.3. Body parameters

Parameter	Type	Description
body	**Project** schema	

Table 2.4. HTTP responses

HTTP code	Reponse body
200 - OK	**Project** schema
201 - Created	**Project** schema
202 - Accepted	**Project** schema
401 - Unauthorized	Empty

2.2.2. /apis/project.openshift.io/v1/watch/projects

HTTP method

GET

Description

watch individual changes to a list of Project. deprecated: use the 'watch' parameter with a list operation instead.

Table 2.5. HTTP responses

HTTP code	Reponse body
200 - OK	**WatchEvent** schema
401 - Unauthorized	Empty

2.2.3. /apis/project.openshift.io/v1/projects/{name}

Table 2.6. Global path parameters

Parameter	Type	Description
name	**string**	name of the Project

HTTP method

DELETE

Description

delete a Project

Table 2.7. Query parameters

Parameter	Type	Description

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

Table 2.8. HTTP responses

HTTP code	Reponse body
200 - OK	**Status_v7** schema
202 - Accepted	**Status_v7** schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified Project

Table 2.9. HTTP responses

HTTP code	Reponse body
200 - OK	**Project** schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified Project

Table 2.10. 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
fieldValidation	**string**	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.

Table 2.11. HTTP responses

HTTP code	Reponse body
200 - OK	**Project** schema
201 - Created	**Project** schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified Project

Table 2.12. 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
fieldValidation	**string**	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.

Table 2.13. Body parameters

Parameter	Type	Description
body	**Project** schema	

Table 2.14. HTTP responses

HTTP code	Reponse body
200 - OK	**Project** schema
201 - Created	**Project** schema
401 - Unauthorized	Empty

2.2.4. /apis/project.openshift.io/v1/watch/projects/{name}

Table 2.15. Global path parameters

Parameter	Type	Description
name	**string**	name of the Project

HTTP method

GET

Description

watch changes to an object of kind Project. deprecated: use the 'watch' parameter with a list operation instead, filtered to a single item with the 'fieldSelector' parameter.

Table 2.16. HTTP responses

HTTP code	Reponse body
200 - OK	**WatchEvent** schema
401 - Unauthorized	Empty

CHAPTER 3. PROJECTREQUEST [PROJECT.OPENSHIFT.IO/V1]

Description

ProjectRequest is the set of options necessary to fully qualify a project request
Compatibility level 1: Stable within a major release for a minimum of 12 months or 3 minor releases (whichever is longer).

Type

object

3.1. SPECIFICATION

Property	Type	Description
apiVersion	**string**	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources
description	**string**	Description is the description to apply to a project
displayName	**string**	DisplayName is the display name to apply to a project
kind	**string**	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
metadata	**ObjectMeta_v2**	metadata is the standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata

3.2. API ENDPOINTS

The following API endpoints are available:

- **/apis/project.openshift.io/v1/projectrequests**
  - **GET**: list objects of kind ProjectRequest
  - **POST**: create a ProjectRequest

3.2.1. /apis/project.openshift.io/v1/projectrequests

HTTP method

GET

Description

list objects of kind ProjectRequest

Table 3.1. HTTP responses

HTTP code	Reponse body
200 - OK	**Status_v7** schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a ProjectRequest

Table 3.2. 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
fieldValidation	**string**	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.

Table 3.3. Body parameters

Parameter	Type	Description
body	**ProjectRequest** schema	

Table 3.4. HTTP responses

HTTP code	Reponse body
200 - OK	**ProjectRequest** schema
201 - Created	**ProjectRequest** schema
202 - Accepted	**ProjectRequest** schema
401 - Unauthorized	Empty