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Application Lifecycle

This section describes the APIs for managing the lifecycle of applications in the Alauda Container Platform.

/acp/v1/kubernetes/{cluster_name}/namespaces/{namespace}/applications

post Create Application

Creates a new application resource with a list of component templates.

Parameters

- `cluster_name` (in path): `string` `required`
- `namespace` (in path): `string` `required`

Request Body

[Application](#)

Response

- `200` [Application](#): Successful operation.

/acp/v1/kubernetes/{cluster_name}/namespaces/{namespace}/applications/{name}

get List Application Resources

Lists the application resource itself and its sub-resources.

Parameters

- `cluster_name` (*in path*): `string` `required`
- `namespace` (*in path*): `string` `required`
- `name` (*in path*): `string` `required`

Response

- `200` `array` : Successful
Items: `object`

put Update Application

Parameters

- `cluster_name` (*in path*): `string` `required`
- `namespace` (*in path*): `string` `required`
- `name` (*in path*): `string` `required`

Request Body

[Application](#)

Response

- `200` [Application](#): Successful update.

delete Delete Application

Parameters

- `cluster_name` (*in path*): `string` `required`
- `namespace` (*in path*): `string` `required`
- `name` (*in path*): `string` `required`

Response

- `204` : No Content

/acp/v1/kubernetes/{cluster_name}/namespaces/{namespace}/applications/{name}/rollback

post Rollback Application

Parameters

- `cluster_name` (*in path*): `string` `required`
- `namespace` (*in path*): `string` `required`
- `name` (*in path*): `string` `required`

Response

- `204` : No Content

/acp/v1/kubernetes/{cluster_name}/namespaces/{namespace}/applications/{name}/start

post Start Application

Parameters

- `cluster_name` (*in path*): `string` `required`
- `namespace` (*in path*): `string` `required`
- `name` (*in path*): `string` `required`

Response

- `204` : No Content

/acp/v1/kubernetes/{cluster_name}/namespaces/{namespace}/applications/{name}/stop

`post` Stop Application

Parameters

- `cluster_name` (*in path*): `string` `required`
- `namespace` (*in path*): `string` `required`
- `name` (*in path*): `string` `required`

Response

- `204` : No Content

Application

- `kind` : `string`
- `apiVersion` : `string`
- `metadata` : `ObjectMeta`
- `spec` : `ApplicationSpec`

- `status` : [ApplicationStatus](#)

ObjectMeta

- `name` : `string`
- `namespace` : `string`
- `uid` : `string`
- `resourceVersion` : `string`
- `creationTimestamp` : `string`
- `labels` : `map[string]string`
- `annotations` : `map[string]string`

ApplicationSpec

- `componentTemplates` : `[]KubernetesResource`
- `assemblyPhase` : `string`
- `componentKinds` : `[]object`
- `selector` : `object`
- `descriptor` : `object`

KubernetesResource

A generic Kubernetes resource object.

- `apiVersion` : `string`
- `kind` : `string`
- `metadata` : [ObjectMeta](#)
- `spec` : `object`

The specification of the resource.

- `status` : `object`

The current status of the resource.

ApplicationStatus

- `state` : `string`
- `totalComponents` : `integer`
- `workloadsStatus` : `object`
- `conditions` : `[]object`
- `observedGeneration` : `integer`

Application Management Operations

This section describes management APIs for application snapshots, exports, and task executions.

/acp/v1/kubernetes/{cluster_name}/namespaces/{namespace}/applications/{name}/snapshot

post Application Snapshot

Parameters

- `cluster_name` (in path): `string` `required`
- `namespace` (in path): `string` `required`
- `name` (in path): `string` `required`

Response

- `200` : Successful

/acp/v1/kubernetes/{cluster}/cronjobs/{namespace}/{name}/exec

post Execute CronJob

Parameters

- `cluster` (*in path*): `string` `required`
- `namespace` (*in path*): `string` `required`
- `name` (*in path*): `string` `required`

Response

- `200` `object` : Successful

/acp/v1/kubernetes/{cluster}/general-namespaces

post Create General Namespaces

Creates a namespace with LimitRange and ResourceQuota.

Parameters

- `cluster` (*in path*): `string` `required`
- `project_name` (*in query*): `string`
The associated project name.

Request Body

[GeneralNamespace](#)

Response

- `200` [GeneralNamespace](#): Successful

/acp/v1/resources/{cluster}/resources

post Batch Create Resources

Parameters

- `cluster` (*in path*): `string` required

Response

- `204` : No Content

ObjectMeta

- `name` : `string`
- `namespace` : `string`
- `uid` : `string`
- `resourceVersion` : `string`
- `creationTimestamp` : `string`
- `labels` : `map[string]string`
- `annotations` : `map[string]string`

GeneralNamespace

- `namespace` : [KubernetesResource](#)
A generic Kubernetes resource object.
- `resourcequota` : [KubernetesResource](#)
A generic Kubernetes resource object.
- `limitrange` : [KubernetesResource](#)
A generic Kubernetes resource object.

KubernetesResource

A generic Kubernetes resource object.

- `apiVersion` : `string`
- `kind` : `string`
- `metadata` : [ObjectMeta](#)
- `spec` : `object`

The specification of the resource.

- `status` : `object`

The current status of the resource.

Application Query and Resources

This section describes the APIs for querying application status, resource lists, and related topology information.

/acp/v1/kubernetes/{cluster_name}/namespaces/{namespace}/applications/{name}/address

get Get Application Address

Parameters

- `cluster_name` (in path): `string` `required`
- `namespace` (in path): `string` `required`
- `name` (in path): `string` `required`

Response

- `200` `object` : Successful

Properties:

- `workloads` : `map[string]object`

/acp/v1/kubernetes/{cluster}/topology/{namespace}/{kind}/{name}

get Get Resource Topology

Parameters

- `cluster` (in path): `string` required
- `namespace` (in path): `string` required
- `kind` (in path): `string` required
- `name` (in path): `string` required
- `depth` (in query): `string`

Response

- `200` `object` : Successful

Properties:

- `nodes` : `object`
- `edges` : `[]object`

/acp/v1/resources/search/{list-url}

get Resource Search

Parameters

- `list-url` (in path): `string` required
- `field` (in query): `string`
- `keyword` (in query): `string` required
- `limit` (in query): `integer`

- `continue` (*in query*): `string`

Response

- `200` `object` : Successful

Properties:

- `items` : `[]object`
- `kind` : `string`
- `apiVersion` : `string`
- `metadata` : `object`