Application APIs

Application Lifecycle

Application Management Opera

Application

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 required

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 required

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_name}/namespaces/{namespace}/applications/{name}/chartpackage

`post` Export Application as Chart Package

Exports the application as a Helm chart package (.tar.gz).

Parameters

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

Request Body

ApplicationChartPackage required

Response

- `200` : Chart package stream.

/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 required

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`

ApplicationChartPackage

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

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}

`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 required

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}/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`

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`