

# Application APIs

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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/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`

# 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/{namespac`

# e}/{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`