My book

K8sconsole Api

Table of Contents

Chapter 1. Overview

This is a k8sconsole api docs

K8sconsole is a web console designed to manage kubernetes resources, just like the command-line tool kubectl.

We can use apis list below to get/post/delete kubernetes resources.

1.1. Version information

Version : v0.0.1

1.2. Contact information

Contact Email : wzt3309@gmail.com

1.3. URI scheme

Host : localhost:9090
BasePath : /api/v1
Schemes : HTTP, HTTPS

1.4. Tags

- auth : Authertication & Authorization
- csrf : Defense CSRF
- pod : CRUD Operations of Pods
- node : CRUD Operations of Nodes
- namespace : CRUD Operations of Namespaces
- secret : CRUD Operations of secret
- configmap : CRUD Operations of ConfigMap
- persistent-volume : CRUD Operations of Persistent Volume
- persistent-volume-claim : CRUD Operations of Persistent Volume Claim
- storageclass : CRUD Operations of StorageClass
- service : CRUD Operations of Service

1.5. Consumes

- application/json

1.6. Produces

- application/json

Chapter 2. Paths

2.1. Get all list of configmap

```
GET /configmap
```

2.1.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(configmap.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - configmap.ObjectMeta.name * creationTimestamp - configmap.ObjectMeta.creationTimestamp * namespace - configmap.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/configmap?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/configmap?sortBy=d,name'	string	"d,name"

2.1.2. Responses

HTTP Code	Description	Schema
200	ok	ConfigMapList
500	Internal Server Error	No Content

2.1.3. Produces

- application/json
- text/plain

2.1.4. Tags

- configmap

2.2. Get all list of configmap

```
GET /configmap/{namespace}
```

2.2.1. Parameters

Type	Name	Description	Schema	Default
Path	**namespace** required	The name of namespace	string	"default"

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(configmap.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - configmap.ObjectMeta.name * creationTimestamp - configmap.ObjectMeta.creationTimestamp * namespace - configmap.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/configmap/{namespace}?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/configmap/{namespace}?sortBy=d,name'	string	"d,name"

2.2.2. Responses

HTTP Code	Description	Schema
200	ok	ConfigMapList
500	Internal Server Error	No Content

2.2.3. Produces

- application/json
- text/plain

2.2.4. Tags

- configmap

2.3. Get all list of configmap

```
GET /configmap/{namespace}/{configmap}
```

2.3.1. Parameters

Type	Name	Description	Schema	Default
Path	**configmap** required	The name of configmap	string	"cluster-info"
Path	**namespace** required	The name of namespace	string	"kube-public"

2.3.2. Responses

HTTP Code	Description	Schema
200	ok	ConfigMapDetail
500	Internal Server Error	No Content

2.3.3. Produces

- application/json
- text/plain

2.3.4. Tags

- configmap

2.4. Get csrftoken for different verb

```
GET /csrftoken/{action}
```

2.4.1. Description

Note. csrf has not be enable yet. So you can just test this api, but is meaningless.

2.4.2. Parameters

Type	Name	Description	Schema	Default
Path	**action** required	Different verb, e.g. if action is 'put' means to get csrftoken for verb post Posible value of path parameter - action: * PUT * POST * GET * DELETE	string	"get"

2.4.3. Responses

HTTP Code	Description	Schema
200	ok	Response 200

Response 200

Name	Description	Schema
token optional		string(byte)

2.4.4. Tags

- csrf

2.5. Login k8sconsole

```
POST /login
```

2.5.1. Description

We hava three authentication modes:
* basic - use username and password, and k8s apiserver need support ABAC mode
* token(recommand) - use k8s secret token for a service account
* kubeconfig - not support yet

2.5.2. Parameters

Type	Name	Description	Schema	Default
Body	**LoginSpec** required	LoginSpec contains information required to authenticate user.	LoginSpec	

2.5.3. Responses

HTTP Code	Description	Schema
200	ok	AuthResponse
500	Internal Server Error	No Content

2.5.4. Consumes

- application/json

2.5.5. Produces

- application/json
- text/plain

2.5.6. Tags

- auth

2.6. Retrive authentication modes supported

```
GET /login/modes
```

2.6.1. Responses

HTTP Code	Description	Schema
200	ok	Response 200

Response 200

Name	Description	Schema
modes required	List of supported authentication mdoes.	< string > array

2.6.2. Tags

- auth

2.7. A flag of hide 'auth skip' button

```
GET /login/skippable
```

2.7.1. Description

LoginSkippableResponse contains a flag that tells the frontend not to display the 'auth skip' button
It’ s just for hide the button, not disable unauthenticated access

2.7.2. Responses

HTTP Code	Description	Schema
200	ok	Response 200

Response 200

Name	Description	Schema
skippable required		boolean

2.7.3. Tags

- auth

2.8. Create a new namespace

```
POST /namespace
```

2.8.1. Parameters

Type	Name	Description	Schema	Default
Body	**NamespaceSpec** required	NamespaceSpec is a specification of namespace to create	NamespaceSpec	

NamespaceSpec

Name	Description	Schema
name required	Name of the namespace **Example** : "test"	string

2.8.2. Responses

HTTP Code	Description	Schema
200	ok	Response 200
500	Internal Server Error	No Content

Response 200

Name	Description	Schema
name required	Name of the namespace	string

2.8.3. Consumes

- application/json

2.8.4. Produces

- application/json
- text/plain

2.8.5. Tags

- namespace

2.9. Get all list of namespaces

```
GET /namespace
```

2.9.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(namespace.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - namespace.ObjectMeta.name * creationTimestamp - namespace.ObjectMeta.creationTimestamp * namespace - namespace.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/namespace?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"

Type	Name	Description	Schema	Default
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/namespace?sortBy=d,name'	string	"d,name"

2.9.2. Responses

HTTP Code	Description	Schema
200	ok	NamespaceList
500	Internal Server Error	No Content

2.9.3. Produces

- application/json
- text/plain

2.9.4. Tags

- namespace

2.10. Get the detail of namespace

```
GET /namespace/{name}
```

2.10.1. Parameters

Type	Name	Description	Schema	Default
Path	**name** required	The name of namespace	string	"default"

2.10.2. Responses

HTTP Code	Description	Schema
200	ok	NamespaceDetail
500	Internal Server Error	No Content

2.10.3. Produces

- application/json
- text/plain

2.10.4. Tags

- namespace

2.11. Get all events of the namespace

```
GET /namespace/{name}/event
```

2.11.1. Parameters

Type	Name	Description	Schema	Default
Path	**name** required	The name of namespace	string	"default"

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(namespace.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - namespace.ObjectMeta.name * creationTimestamp - namespace.ObjectMeta.creationTimestamp * namespace - namespace.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/namespace/{name}/event?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/namespace/{name}/event?sortBy=d,name'	string	"d,name"

2.11.2. Responses

HTTP Code	Description	Schema
200	ok	EventList
500	Internal Server Error	No Content

2.11.3. Produces

- application/json
- text/plain

2.11.4. Tags

- namespace

2.12. Get node

```
GET /node
```

2.12.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(Node.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - Node.ObjectMeta.name * creationTimestamp - Node.ObjectMeta.creationTimestamp * namespace - Node.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/node?filterBy=name,minikube' will filter all pods which ObjectMeta.name contains string 'minikube'	string	"name,minikube"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"

Type	Name	Description	Schema	Default
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/node?sortBy=d,name'	string	"d,name"

2.12.2. Responses

HTTP Code	Description	Schema
200	ok	NodeList
500	Internal Server Error	No Content

2.12.3. Produces

- application/json
- text/plain

2.12.4. Tags

- node

2.13. Get node’s detail with specific name

```
GET /node/{name}
```

2.13.1. Parameters

Type	Name	Description	Schema	Default
Path	**name** required	Node’s name	string	"minikube"

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(Node.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - Node.ObjectMeta.name * creationTimestamp - Node.ObjectMeta.creationTimestamp * namespace - Node.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/node/{name}?filterBy=name,minikube' will filter all pods which ObjectMeta.name contains string 'minikube'	string	"name,minikube"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/node/{name}?sortBy=d,name'	string	"d,name"

2.13.2. Responses

HTTP Code	Description	Schema
200	ok	NodeDetail
500	Internal Server Error	No Content

2.13.3. Produces

- application/json
- text/plain

2.13.4. Tags

- node

2.14. Get node’s events with specific name

```
GET /node/{name}/event
```

2.14.1. Parameters

Type	Name	Description	Schema	Default
Path	**name** required	Node’ s name	string	"minikube"
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(Node.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - Node.ObjectMeta.name * creationTimestamp - Node.ObjectMeta.creationTimestamp * namespace - Node.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/node/{name}/event?filterBy=name,minikube' will filter all pods which ObjectMeta.name contains string 'minikube'	string	"name,minikube"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"

Type	Name	Description	Schema	Default
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/node/{name}/event?sortBy=d,name'	string	"d,name"

2.14.2. Responses

HTTP Code	Description	Schema
200	ok	EventList
500	Internal Server Error	No Content

2.14.3. Produces

- application/json
- text/plain

2.14.4. Tags

- node

2.15. Get node’s pods with specific name

```
GET /node/{name}/pod
```

2.15.1. Parameters

Type	Name	Description	Schema	Default
Path	**name** required	Node’s name	string	"minikube"

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(Node.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - Node.ObjectMeta.name * creationTimestamp - Node.ObjectMeta.creationTimestamp * namespace - Node.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/node/{name}/pod?filterBy=name,minikube' will filter all pods which ObjectMeta.name contains string 'minikube'	string	"name,minikube"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/node/{name}/pod?sortBy=d,name'	string	"d,name"

2.15.2. Responses

HTTP Code	Description	Schema
200	ok	PodList
500	Internal Server Error	No Content

2.15.3. Produces

- application/json
- text/plain

2.15.4. Tags

- node

2.16. Get all list of persistent volume

```
GET /persistentvolume
```

2.16.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(persistentvolume.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - persistentvolume.ObjectMeta.name * creationTimestamp - persistentvolume.ObjectMeta.creationTimestamp * namespace - persistentvolume.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/persistentvolume?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"

Type	Name	Description	Schema	Default
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/persistentvolume?sortBy=d,name'	string	"d,name"

2.16.2. Responses

HTTP Code	Description	Schema
200	ok	PersistentVolumeList
500	Internal Server Error	No Content

2.16.3. Produces

- application/json
- text/plain

2.16.4. Tags

- persistent-volume

2.17. Get detail of persistent volume

```
GET /persistentvolume/{persistentvolume}
```

2.17.1. Parameters

Type	Name	Description	Schema	Default
Path	**persistentvolume** required	The name of persistentvolume	string	"test"

2.17.2. Responses

HTTP Code	Description	Schema
200	ok	PersistentVolumeDetail
500	Internal Server Error	No Content

2.17.3. Produces

- application/json
- text/plain

2.17.4. Tags

- persistent-volume

2.18. Get all list of persistent volume claim

```
GET /persistentvolumeclaim
```

2.18.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(persistentvolumeclaim.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - persistentvolumeclaim.ObjectMeta.name * creationTimestamp - persistentvolumeclaim.ObjectMeta.creationTimestamp * namespace - persistentvolumeclaim.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/persistentvolumeclaim?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/persistentvolumeclaim?sortBy=d,name'	string	"d,name"

2.18.2. Responses

HTTP Code	Description	Schema
200	ok	PersistentVolumeClaimList

HTTP Code	Description	Schema
500	Internal Server Error	No Content

2.18.3. Produces

- application/json
- text/plain

2.18.4. Tags

- persistent-volume-claim

2.19. Get all of persistent volume claims in a specific namespace

```
GET /persistentvolumeclaim/{namespace}
```

2.19.1. Parameters

Type	Name	Description	Schema	Default
Path	**namespace** required	The name of namespace	string	"default"

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(persistentvolumeclaim.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - persistentvolumeclaim.ObjectMeta.name * creationTimestamp - persistentvolumeclaim.ObjectMeta.creationTimestamp * namespace - persistentvolumeclaim.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/persistentvolumeclaim/{namespace}?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/persistentvolumeclaim/{namespace}?sortBy=d,name'	string	"d,name"

2.19.2. Responses

HTTP Code	Description	Schema
200	ok	PersistentVolumeClaimList

HTTP Code	Description	Schema
500	Internal Server Error	No Content

2.19.3. Produces

- application/json
- text/plain

2.19.4. Tags

- persistent-volume-claim

2.20. Get detail of persistent volume claim in a specific namespace

```
GET /persistentvolumeclaim/{namespace}/{name}
```

2.20.1. Parameters

Type	Name	Description	Schema	Default
Path	**name** required	The name of persistent volume claim	string	"default"
Path	**namespace** required	The name of namespace	string	"default"

2.20.2. Responses

HTTP Code	Description	Schema
200	ok	PersistentVolumeClaimDetail
500	Internal Server Error	No Content

2.20.3. Produces

- application/json
- text/plain

2.20.4. Tags

- persistent-volume-claim

2.21. Get all pods in k8s cluster

```
GET /pod
```

2.21.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(Pod.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - Pod.ObjectMeta.name * creationTimestamp - Pod.ObjectMeta.creationTimestamp * namespace - Pod.ObjectMeta.namespace * status - Pod.Status.Phase And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/pod?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"2"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"

Type	Name	Description	Schema	Default
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/pod?sortBy=d,name'	string	"d,name"

2.21.2. Responses

HTTP Code	Description	Schema
200	ok	PodList
500	Internal Server Error	No Content

2.21.3. Produces

- application/json
- text/plain

2.21.4. Tags

- pod

2.22. Get list of pods in a namespace

```
GET /pod/{namespace}
```

2.22.1. Parameters

Type	Name	Description	Schema	Default
Path	**namespace** required	The k8s namespace, e.g. 'kube-system', 'default'	string	"default"

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(Pod.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - Pod.ObjectMeta.name * creationTimestamp - Pod.ObjectMeta.creationTimestamp * namespace - Pod.ObjectMeta.namespace * status - Pod.Status.Phase And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/pod/{namespace}?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/pod/{namespace}?sortBy=d,name'	string	"d,name"

2.22.2. Responses

HTTP Code	Description	Schema
200	ok	PodList
500	Internal Server Error	No Content

2.22.3. Produces

- application/json
- text/plain

2.22.4. Tags

- pod

2.23. Create a image pull secret

```
POST /secret
```

2.23.1. Parameters

Type	Name	Description	Schema	Default
Body	**ImagePullSecretSpec** required	ImagePullSecretSpec is a specification of an image pull secret implements SecretSpec	ImagePullSecretSpec	

ImagePullSecretSpec

Name	Description	Schema
data required	The value of the .dockercfg property. It must be Base64 encoded. The .dockercfg looks like below: json { "docker-register-server": { "username":"Your Username", "password":"Your Password", "email":"Your email", # Use command`echo <Your Username>: <Your Password> | base64`to get value of 'auth' "auth":"`base64(<Your Username>: <Your Password>)" } }  We can use command base64 .dockercfg to encode file .dockercfg `	string(byte)
name required	Name of the secret **Example** : "test"	string

Name	Description	Schema
namespace required	Name of the namespace	string

2.23.2. Responses

HTTP Code	Description	Schema
200	ok	Secret
500	Internal Server Error	No Content

2.23.3. Consumes

- application/json

2.23.4. Produces

- application/json
- text/plain

2.23.5. Tags

- secret

2.24. Get all list of secrets

```
GET /secret
```

2.24.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(secret.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - secret.ObjectMeta.name * creationTimestamp - secret.ObjectMeta.creationTimestamp * namespace - secret.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/secret?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/secret?sortBy=d,name'	string	"d,name"

2.24.2. Responses

HTTP Code	Description	Schema
200	ok	SecretList
500	Internal Server Error	No Content

2.24.3. Produces

- application/json
- text/plain

2.24.4. Tags

- secret

2.25. Get secrets of a specific namespace

```
GET /secret/{namespace}
```

2.25.1. Parameters

Type	Name	Description	Schema	Default
Path	**namespace** required	The name of namespace	string	"default"
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(secret.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - secret.ObjectMeta.name * creationTimestamp - secret.ObjectMeta.creationTimestamp * namespace - secret.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/secret/{namespace}?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"

Type	Name	Description	Schema	Default
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/secret/{namespace}?sortBy=d,name'	string	"d,name"

2.25.2. Responses

HTTP Code	Description	Schema
200	ok	SecretList
500	Internal Server Error	No Content

2.25.3. Produces

- application/json
- text/plain

2.25.4. Tags

- secret

2.26. Get details of a secret in a specific namespace

```
GET /secret/{namespace}/{name}
```

2.26.1. Parameters

Type	Name	Description	Schema	Default
Path	**name** required	The name of secret	string	"default-token-n8tj4"

Type	Name	Description	Schema	Default
Path	**namespace** required	The name of namespace	string	"default"

2.26.2. Responses

HTTP Code	Description	Schema
200	ok	SecretDetail
500	Internal Server Error	No Content

2.26.3. Produces

- application/json
- text/plain

2.26.4. Tags

- secret

2.27. Get all list of services

```
GET /service
```

2.27.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(service.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - service.ObjectMeta.name * creationTimestamp - service.ObjectMeta.creationTimestamp * namespace - service.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/service?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/service?sortBy=d,name'	string	"d,name"

2.27.2. Responses

HTTP Code	Description	Schema
200	ok	ServiceList
500	Internal Server Error	No Content

2.27.3. Produces

- application/json
- text/plain

2.27.4. Tags

- service

2.28. Get all list of services in a specific namespace

```
GET /service/{namespace}
```

2.28.1. Parameters

Type	Name	Description	Schema	Default
Path	**namespace** required	The name of namespace	string	"default"
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(service.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - service.ObjectMeta.name * creationTimestamp - service.ObjectMeta.creationTimestamp * namespace - service.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/service/{namespace}?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"

Type	Name	Description	Schema	Default
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/service/{namespace}?sortBy=d,name'	string	"d,name"

2.28.2. Responses

HTTP Code	Description	Schema
200	ok	ServiceList
500	Internal Server Error	No Content

2.28.3. Produces

- application/json
- text/plain

2.28.4. Tags

- service

2.29. Get detail of a specific service

```
GET /service/{namespace}/{service}
```

2.29.1. Parameters

Type	Name	Description	Schema	Default
Path	**namespace** required	The name of namespace	string	"default"

Type	Name	Description	Schema	Default
Path	**service** required	The name of service	string	"kubernetes"

2.29.2. Responses

HTTP Code	Description	Schema
200	ok	ServiceDetail
500	Internal Server Error	No Content

2.29.3. Produces

- application/json
- text/plain

2.29.4. Tags

- service

2.30. Get pods of a specific service

```
GET /service/{namespace}/{service}/pod
```

2.30.1. Parameters

Type	Name	Description	Schema	Default
Path	**namespace** required	The name of namespace	string	"default"
Path	**service** required	The name of service	string	"kubernetes"

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(Pod.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - Pod.ObjectMeta.name * creationTimestamp - Pod.ObjectMeta.creationTimestamp * namespace - Pod.ObjectMeta.namespace * status - Pod.Status.Phase And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/service/{namespace}/{service}/pod?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"2"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/service/{namespace}/{service}/pod?sortBy=d,name'	string	"d,name"

2.30.2. Responses

HTTP Code	Description	Schema
200	ok	PodList
500	Internal Server Error	No Content

2.30.3. Produces

- application/json
- text/plain

2.30.4. Tags

- service

2.31. Get all list of storageclass

```
GET /storageclass
```

2.31.1. Parameters

Type	Name	Description	Schema	Default
Query	**filterBy** optional	The 'filterBy' takes raw filter options string like param1=val1,param2=val2. The valid filter parameters like below(storageclass.ObjectMeta is in k8s.io/api/core/v1/types.go): * name - storageclass.ObjectMeta.name * creationTimestamp - storageclass.ObjectMeta.creationTimestamp * namespace - storageclass.ObjectMeta.namespace And we use full match to filter value, just like syntax of 'like' in mysql e.g. '/storageclass?filterBy=name,kube-' will filter all pods which ObjectMeta.name contains string 'kube-'	string	"name,kube-"
Query	**itemsPerPage** optional	The number of items per page	integer	"1"
Query	**page** optional	The page number, which must starts from '1'	integer	"1"

Type	Name	Description	Schema	Default
Query	**sortBy** optional	The 'sortBy' holds the name of property that should be sorted and whether order should be asc or desc. Like 'd,param1' means sort by param1 in desc. The valid sort parameters are same as 'filterBy' e.g. '/storageclass?sortBy=d,name'	string	"d,name"

2.31.2. Responses

HTTP Code	Description	Schema
200	ok	StorageClassList
500	Internal Server Error	No Content

2.31.3. Produces

- application/json
- text/plain

2.31.4. Tags

- storageclass

2.32. Get detail of storageclass

```
GET /storageclass/{storageclass}
```

2.32.1. Parameters

Type	Name	Description	Schema	Default
Path	**storageclass** required	Name of storageclass	string	"test"

2.32.2. Responses

HTTP Code	Description	Schema
200	ok	StorageClass
500	Internal Server Error	No Content

2.32.3. Produces

- application/json
- text/plain

2.32.4. Tags

- storageclass

2.33. Get persistent volume list of the storageclass

```
GET /storageclass/{storageclass}/persistentvolume
```

2.33.1. Parameters

Type	Name	Description	Schema	Default
Path	**storageclass** required	Name of storageclass	string	"test"

2.33.2. Responses

HTTP Code	Description	Schema
200	ok	PersistentVolumeList
500	Internal Server Error	No Content

2.33.3. Produces

- application/json
- text/plain

2.33.4. Tags

- storageclass

2.34. Refresh jweToken

```
POST /token/refresh
```

2.34.1. Description

Refresh jweToken avoiding which was expired.

2.34.2. Parameters

Type	Name	Description	Schema	Default
Body	**TokenRefreshSpec** required	TokenRefreshSpec contains token that is required by token refresh operation.	TokenRefreshSpec	

TokenRefreshSpec

Name	Description	Schema
jweToken optional		JWE

2.34.3. Responses

HTTP Code	Description	Schema
200	ok	AuthResponse
401	Unauthorized	No Content
500	Internal Server Error	No Content

2.34.4. Consumes

- application/json

2.34.5. Produces

- application/json
- text/plain

2.34.6. Tags

- auth

Chapter 3. Definitions

3.1. AuthResponse

AuthResponse represents the response returned from k8sconsole backend for login requests. It contains generated
jweToken and a list of non-critical errors such as 'Failed authentication' to tell the frontend what unexpected
happened during login request.

Name	Description	Schema
errors required		< string > array
jweToken required		JWE

3.2. Condition

Condition represents a single condition of a node or pod. e.g. v1.Pod.Status.Condition

Name	Description	Schema
lastProbeTime required	Last probe time of a condition	string
lastTransitionTime required	Last transition time of a condition	string
message required	Message of a condition	string
reason required	Reason of a condition	string
status required	Status of condition	enum (True, False, Unknown)
type required	Type of condition	string

3.3. ConfigMap

ConfigMap API resource provides mechanisms to inject containers with configuration data while keeping
containers agnostic of Kubernetes

Name	Description	Schema
objectMeta required		ObjectMeta
typeMeta required		TypeMeta

3.4. ConfigMapDetail

ConfigMapDetail API resource provides mechanisms to inject containers with configuration data while keeping
containers agnostic of Kubernetes

Name	Description	Schema
data required	Data contains the configuration data. Each key must be a valid DNS_SUBDOMAIN with an optional leading dot.	< string, string > map
objectMeta required		ObjectMeta
typeMeta required		TypeMeta

3.5. ConfigMapList

ConfigMapList contains a list of Config Maps in the cluster

Name	Description	Schema
errors required		< string > array
items required		< ConfigMap > array
listMeta required		ListMeta

3.6. ContainerState

Name	Description	Schema
running optional		running
terminated optional		ContainerStateTerminated
waiting optional		ContainerStateWaiting

running

Name	Description	Schema
startedAt optional	Time at which the container was last (re-)started	string

3.7. ContainerStateTerminated

ContainerStateTerminated is a terminated state of a container

Name	Description	Schema
containerID optional	Container' s ID in the format 'docker://<container_id>'	string(uuid)
exitCode optional	Exit status from the last termination of the container	integer
finishedAt optional	Time at which the container last terminated	string
message optional	Message regarding the last termination of the container	string
reason optional	(brief) Reason from the last termination of the container	string
signal optional	Signal from the last termination of the container	integer
startedAt optional	Time at which previous execution of the container started	string

3.8. ContainerStateWaiting

ContainerStateWaiting is a waiting state of a container

Name	Description	Schema
message optional	Message regarding why the container is not yet running	string
reason optional	(brief) Reason the container is not yet running	string

3.9. Endpoint

Endpoint describes an endpoint that is host and a list of available ports for that host

Name	Description	Schema
host required	Hostname, either as a domain name or IP address	string
ports required		ServicePort

3.10. EndpointList

Name	Description	Schema
endpoints required		< Endpoint > array
listMeta required		ListMeta

3.11. Event

Event of k8s

Name	Description	Schema
count required	The number of times this event has occurred	integer(int32)
firstSeen required	The time at which the event was first occurred	string(date-time)
lastSeen required	The time at which the event was last occurred	string(date-time)
message required	A human-readable description of the status of related object	string
object required	An object triggered an event	string
objectMeta required		ObjectMeta
reason required	Short, machine-understandable string that gives the reason for this event being generated	string
sourceComponent required	Component from which the event is generated	string
sourceHost required	Host name on which the event is generated	string
type required	Event type	string
typeMeta required		TypeMeta

3.12. EventList

The list of k8s events

Name	Description	Schema
events required		< Event > array
listMeta required		ListMeta

3.13. JWE

JWE is the body of jweToken is a token generated during login request that contains auth info data in the payload.
We don’ t need to care about the content of jweToken in the frontend or client.

When we use other api, we need to put the jweToken in the request http header otherwise we will be returned
code 403.

Note. we don’ t have to use jweToken auth in the dev version(v0.0.1) to get resources.

Name	Description	Schema
add optional		string(byte)
ciphertext required		string(byte)
encrypted_key required		string(byte)
iv required		string(byte)
protected required		string(byte)

3.14. LimitRangeItem

Name	Description	Schema
default optional	Default resource requirement limit value by resource name.	string
defaultRequest optional	DefaultRequest resource requirement request value by resource name	string
max optional	Max usage constraints on this kind by resource name	string
maxLimitRequestRatio optional	MaxLimitRequestRatio represents the max burst value for the named resource	string
min optional	Min usage constraints on this kind by resource name	string
resourceName optional	ResourceName usage constraints on this kind by resource name	string

Name	Description	Schema
resourceType optional	ResourceType of resource that this limit applies to	string

3.15. ListMeta

ListMeta describes list of objects.

Name	Description	Schema
totalItems required	Total number of items in list	integer

3.16. LoginSpec

LoginSpec is extracted from request coming from k8sconsole frontend during loging request. It contains all
information required to authenticate user.

Name	Description	Schema
kubeConfig optional	KubeConfig is the content of users' kubeconfig file. We can extract all auth information from the data in the file.	string
passowrd optional	Use basic mode, need with username.	string
token optional	Can use kubectl describe secret ... get the token for the default service account. **Example** : "test-token"	string
username optional	Use basic mode, need with password.	string

3.17. Namespace

Name	Description	Schema
objectMeta required		ObjectMeta
phase required		enum (Active, Terminating)
typeMeta required		TypeMeta

3.18. NamespaceDetail

NamespaceDetail is a presentation layer view of Kubernetes Namespace resource. This means it is Namespace plus
additional augmented data we can get from other sources.

Name	Description	Schema
errors required		< string > array
eventList required		EventList
objectMeta required		ObjectMeta
phase required		enum (Active, Terminating)
resourceLimits required	ResourceLimits is list of limit ranges associated to the namespace	< LimitRangeItem > array
resourceQuotaList required		ResourceQuotaDetailList
typeMeta required		TypeMeta

3.19. NamespaceList

Name	Description	Schema
errors required		< string > array
listMeta required		ListMeta
namespaces required		< Namespace > array

3.20. Node

Node is a presentation layer view of kubernetes nodes

Name	Description	Schema
allocatedResources required		NodeAllocatedResources
objectMeta required		ObjectMeta
ready required	These are valid condition statuses. "True" means a resource is in the condition. "False" means a resource is not in the condition. "Unknown" means kubernetes can’ t decide if a resource is in the condition or not.	enum (True, False, Unknown)
typeMeta required		TypeMeta

3.21. NodeAddress

NodeAddress contains information for the node’ s address

Name	Description	Schema
address required	The node address	string
type required		enum (Hostname, ExternalIP, InternalIP, ExternalDNS, InternalDNS)

3.22. NodeAllocatedResources

NodeAllocatedResources describes node allocated resources

Name	Description	Schema
allocatedPods required	AllocatedPods in number of currently allocated pods on the node	integer
cpuCapacity required	CPUCapacity is specified node CPU capacity in millicores	integer(int64)
cpuLimits required	CPULimits is defined CPU limit	integer(int64)
cpuLimitsFraction required	CPULimitsFraction is a fraction of defined CPU limit. Note. can be over 100%, i.e. overcommitted.	number(double)
cpuRequestFraction required	CPURequestsFraction is a fraction of CPU, that is allocated	number(double)
cpuRequests required	Kubernetes has a new metric called Millicores that is used to measure CPU usage. It is a CPU core split into 1000 units (milli = 1000). - 1. 1 cpu with 1 core has 1000m - 2. 1 cpu with 2 core has 2*1000m = 2000m CPURequests is number of allocated millicores	integer(int64)
memoryCapacity required	MemoryCapacity is specified node memory capacity in bytes	integer(int64)
memoryLimits required	MemoryLimits is defined memory limit	integer(int64)

Name	Description	Schema
memoryLimitsFraction required	MemoryLimitsFraction is a fraction of defined memory limit, can be over 100%, i.e. overcommitted	number(double)
memoryRequests required	MemoryRequests is a fraction of memory, that is allocated	integer(int64)
memoryRequestsFraction required	MemoryRequestsFraction is a fraction of memory, that is allocated	number(double)
podCapacity required	PodCapacity is maximum number of pods, that can be allocated on the node	integer(int64)
podFraction required	PodFraction is a fraction of pods, that can be allocated on given node	number(double)

3.23. NodeDetail

NodeDetail is a presentation layer view of Kubernetes Node resource. This means it is Node plus
additional augmented data we can get from other sources.

Name	Description	Schema
address optional		NodeAddress
allocatedResources required		NodeAllocatedResources
conditions required		Condition
containerImages required		< string > array
errors required		< string > array
eventList required		EventList
nodeInfo required		nodeInfo
objectMeta required		ObjectMeta

Name	Description	Schema
phase required	The three valid phases of node: * Pending - the node has been created/added by the system, but not configured * Running - the node has been configured and has Kubernetes components running * Terminated - the node has been removed from the cluster	enum (Pending, Running, Terminated)
podCIDR required	PodCIDR represents the pod IP range assigned to the node	string
podList required		PodList
providerID required	ID of the node assigned by the cloud provider	string
taints optional	The node this Taint is attached to has the "effect" on any pod that does not tolerate the Taint	taints
typeMeta required		TypeMeta
unschedulable required	Unschedulable controls node schedulability of new pods. By default node is schedulable	boolean

nodeInfo

Name	Description	Schema
architecture optional	The Architecture reported by the node	string
bootID optional	Boot ID reported by the node	string
containerRuntimeVersion optional	ContainerRuntime Version reported by the node through runtime remote API (e.g. docker://1.5.0)	string
kernelVersion optional	Kernel Version reported by the node from 'uname -r' (e.g. 3.16.0-0.bpo.4-amd64)	string
kubeProxyVersion optional	KubeProxy Version reported by the node	string
kubeletVersion optional	Kubelet Version reported by the node	string
machineID optional	MachineID reported by the node. For unique machine identification in the cluster this field is preferred. Learn more from man(5) machine-id: http://man7.org/linux/man-pages/man5/machine-id.5.html	string

Name	Description	Schema
operatingSystem optional	The Operating System reported by the node	string
osImage optional	OS Image reported by the node from /etc/os-release (e.g. Debian GNU/Linux 7 (wheezy))	string
systemUUID optional	SystemUUID reported by the node. For unique machine identification MachineID is preferred. This field is specific to Red Hat hosts https://access.redhat.com/documentation/en-US/Red_Hat_Subscription_Management/1/html/RHSM/getting-system-uuid.html	string

taints

Name	Description	Schema
effect required	The effect of the taint on pods that do not tolerate the taint. Valid effects are NoSchedule, PreferNoSchedule and NoExecute.	enum (NoSchedule, PreferNoSchedule, NoExecute)
key required	The taint key to be applied to a node	string
timeAdded optional	TimeAdded represents the time at which the taint was added. It is only written for NoExecute taints	string(date-time)
value optional	The taint value corresponding to the taint key	string

3.24. NodeList

NodeList contains a list of nodes in the cluster

Name	Description	Schema
errors required		< string > array
listMeta required		ListMeta
nodes required		< Node > array

3.25. ObjectMeta

ObjectMeta is metadata about an instance of resource

Name	Description	Schema
annotations required	Annotations are unstructured key value data stored with a resource that be set by external tooling.	object

Name	Description	Schema
creationTimestamp required		string(date-time)
labels required	Labels are k-v pairs that may be scope and select individual resources.	object
name required	Object name and the name is unique within a namespace	string
namespace required	Any empty namespace equivalent to the 'default' namespace. Not all objects are required to be scoped to a namespace - the value of this field for those objects will be empty	string

3.26. PersistentVolume

PersistentVolume provides the simplified presentation layer view of kubernetes Persistent Volume resource.

Name	Description	Schema
accessModes required		enum (ReadWriteOnce, ReadOnlyMany, ReadWriteMany)
capacity required		< string, capacity > map
claim required		string
objectMeta required		ObjectMeta
reason required		string
reclaimPolicy required		enum (Recycle, Delete, Retain)
status required		enum (Pending, Available, Bound, Released, Failed)
storageClass required		string
typeMeta required		TypeMeta

capacity

Name	Description	Schema
d optional	d is the quantity in inf.Dec form if d.Dec != nil	d
format optional	Change Format at will. See the comment for Canonicalize for more details.	enum (DecimalExponent, BinarySI, DecimalSI)
i optional	i is the quantity in int64 scaled form, if d.Dec == nil	i
s optional	s is the generated value of this quantity to avoid recalculation	string

d

Name	Description	Schema
scale optional	Scale represents the type used for the scale of a Dec.	integer(int32)
unscaled optional	An Int represents a signed multi-precision integer. The zero value for an Int represents the value 0.	unscaled

unscaled

Name	Description	Schema
abs optional		integer
neg optional		boolean

i

Name	Description	Schema
scale optional	Scale is used for getting and setting the base-10 scaled value. Base-2 scales are omitted for mathematical simplicity. See Quantity.ScaledValue for more details.	integer
value optional		integer(int64)

3.27. PersistentVolumeClaim

PersistentVolumeClaim provides the simplified presentation layer view of Kubernetes Persistent Volume Claim
resource.

Name	Description	Schema
accessModes required		enum (ReadWriteOnce, ReadOnlyMany, ReadWriteMany)
capacity required		< string, capacity > map
objectMeta required		ObjectMeta
status required		enum (Pending, Available, Bound, Released, Failed)
storageClass required		string
typeMeta required		TypeMeta
volume required		string

capacity

Name	Description	Schema
d optional	d is the quantity in inf.Dec form if d.Dec != nil	d
format optional	Change Format at will. See the comment for Canonicalize for more details.	enum (DecimalExponent, BinarySI, DecimalSI)
i optional	i is the quantity in int64 scaled form, if d.Dec == nil	i
s optional	s is the generated value of this quantity to avoid recalculation	string

d

Name	Description	Schema
scale optional	Scale represents the type used for the scale of a Dec.	integer(int32)
unscaled optional	An Int represents a signed multi-precision integer. The zero value for an Int represents the value 0.	unscaled

unscaled

Name	Description	Schema
abs optional		integer

Name	Description	Schema
neg optional		boolean

i

Name	Description	Schema
scale optional	Scale is used for getting and setting the base-10 scaled value. Base-2 scales are omitted for mathematical simplicity. See Quantity.ScaledValue for more details.	integer
value optional		integer(int64)

3.28. PersistentVolumeClaimDetail

PersistentVolumeClaimDetail provides the presentation layer view of Kubernetes Persistent Volume Claim resource.

Name	Description	Schema
accessModes required		enum (ReadWriteOnce, ReadOnlyMany, ReadWriteMany)
capacity required		< string, capacity > map
objectMeta required		ObjectMeta
status required		enum (Pending, Available, Bound, Released, Failed)
storageClass required		string
typeMeta required		TypeMeta
volume required		string

capacity

Name	Description	Schema
d optional	d is the quantity in inf.Dec form if d.Dec != nil	d

Name	Description	Schema
format optional	Change Format at will. See the comment for Canonicalize for more details.	enum (DecimalExponent, BinarySI, DecimalSI)
i optional	i is the quantity in int64 scaled form, if d.Dec == nil	i
s optional	s is the generated value of this quantity to avoid recalculation	string

d

Name	Description	Schema
scale optional	Scale represents the type used for the scale of a Dec.	integer(int32)
unscaled optional	An Int represents a signed multi-precision integer. The zero value for an Int represents the value 0.	unscaled

unscaled

Name	Description	Schema
abs optional		integer
neg optional		boolean

i

Name	Description	Schema
scale optional	Scale is used for getting and setting the base-10 scaled value. Base-2 scales are omitted for mathematical simplicity. See Quantity.ScaledValue for more details.	integer
value optional		integer(int64)

3.29. PersistentVolumeClaimList

PersistentVolumeClaimList contains a list of Persistent Volume Claims in the cluster.

Name	Description	Schema
errors required		< string > array

Name	Description	Schema
items required		< PersistentVolumeClaim > array
listMeta required		ListMeta

3.30. PersistentVolumeDetail

PersistentVolumeDetail provides the presentation layer view of kubernetes Persistent Volume resource.

Name	Description	Schema
accessModes required		enum (ReadWriteOnce, ReadOnlyMany, ReadWriteMany)
capacity required		< string, capacity > map
claim required		string
message required		string
objectMeta required		ObjectMeta
persistentVolumeSource required	PersistentVolumeSource is similar to VolumeSource but meant for the administrator who creates PVs. Exactly one of its members must be set. See k8s.io/api/core/v1/types.go	object
reason required		string
reclaimPolicy required		enum (Recycle, Delete, Retain)
status required		enum (Pending, Available, Bound, Released, Failed)
storageClass required		string
typeMeta required		TypeMeta

capacity

Name	Description	Schema
d optional	d is the quantity in inf.Dec form if d.Dec != nil	d
format optional	Change Format at will. See the comment for Canonicalize for more details.	enum (DecimalExponent, BinarySI, DecimalSI)
i optional	i is the quantity in int64 scaled form, if d.Dec == nil	i
s optional	s is the generated value of this quantity to avoid recalculation	string

d

Name	Description	Schema
scale optional	Scale represents the type used for the scale of a Dec.	integer(int32)
unscaled optional	An Int represents a signed multi-precision integer. The zero value for an Int represents the value 0.	unscaled

unscaled

Name	Description	Schema
abs optional		integer
neg optional		boolean

i

Name	Description	Schema
scale optional	Scale is used for getting and setting the base-10 scaled value. Base-2 scales are omitted for mathematical simplicity. See Quantity.ScaledValue for more details.	integer
value optional		integer(int64)

3.31. PersistentVolumeList

PersistentVolumeList contains a list of Persistent Volumes in the cluster

Name	Description	Schema
errors required		< string > array

Name	Description	Schema
items required		< PersistentVolume > array
listMeta required		ListMeta

3.32. Pod

Pod is a view of kubernetes Pod resource, it is Pod plus additional augmented data

Name	Description	Schema
nodeName required	Name of the node this pod runs on	string
objectMeta required		ObjectMeta
podStatus required		PodStatus
restartCount required	Count of containers restarts	integer
typeMeta required		TypeMeta

3.33. PodList

Name	Description	Schema
errors required		< string > array
listMeta required		ListMeta
pods required		< Pod > array
status required		ResourceStatus

3.34. PodStatus

Name	Description	Schema
containerStates required		< ContainerState > array
podPhase required	Running Pending Failed Succeeded in apiserver guess	string
status required	Running Pending Failed Succeeded	string

3.35. ResourceQuotaDetail

Name	Description	Schema
objectMeta required		ObjectMeta
scopes required		< enum (Terminating, NotTerminating, BestEffort, NotBestEffort) > array
statusList required		< string, statusList > map
typeMeta required		TypeMeta

statusList

Name	Description	Schema
hard optional		string
used optional		string

3.36. ResourceQuotaDetailList

ResourceQuotaList is list of resource quotas associated to the namespace

Name	Description	Schema
items required		< ResourceQuotaDetail > array
listMeta required		ListMeta

3.37. ResourceStatus

ResourceStatus provides basic information about resource status on the list

Name	Description	Schema
failed required	Number of resources that are currently in failed state	integer
pending required	Number of resources that are currently in pending state	integer
running required	Number of resources that are currently in running state	integer
succeeded required	Number of resources that are currently in succeeded state	integer

3.38. Secret

Secret is a single secret returned to the frontend

Name	Description	Schema
objectMeta required		ObjectMeta
type required		enum (Opaque, kubernetes.io/service-account-token, kubernetes.io/service-account.name, kubernetes.io/service-account.uid, token, kubernetes.kubeconfig, ca.crt, namespace, kubernetes.io/dockercfg, .dockercfg, kubernetes.io/dockerconfigjson, .dockerconfigjson, kubernetes.io/basic-auth, username, password, kubernetes.io/ssh-auth, ssh-privatekey, kubernetes.io/tls, tls.crt, tls.key)
typeMeta required		TypeMeta

3.39. SecretDetail

SecretDetail API resource provides mechanisms to inject containers with configuration data while keeping containers agnostic of Kubernetes

Name	Description	Schema
data required	Data contains the secret data. Each key must be a valid DNS_SUBDOMAIN or leading dot followed by valid DNS_SUBDOMAIN. The serialized form of the secret data is a base64 encoded string, representing the arbitrary (possibly non-string) data value here.	< string, string(byte) > map
objectMeta required		ObjectMeta
type required		enum (Opaque, kubernetes.io/service-account-token, kubernetes.io/service-account.name, kubernetes.io/service-account.uid, token, kubernetes.kubeconfig, ca.crt, namespace, kubernetes.io/dockercfg, .dockercfg, kubernetes.io/dockerconfigjson, .dockerconfigjson, kubernetes.io/basic-auth, username, password, kubernetes.io/ssh-auth, ssh-privatekey, kubernetes.io/tls, tls.crt, tls.key)
typeMeta required		TypeMeta

3.40. SecretList

SecretsList is a response structure for a queried secrets list

Name	Description	Schema
errors required		< string > array

Name	Description	Schema
listMeta required		ListMeta
secrets required		< Secret > array

3.41. Service

SecretDetail API resource provides mechanisms to inject containers with configuration data while keeping containers agnostic of Kubernetes

Name	Description	Schema
clusterIP required	ClusterIP is usually assigned by the master. Valid values: - None (can be specified for headless services when proxying is not required) - empty string ("") - valid IP address	string
externalEndpoints required		< Endpoint > array
internalEndpoint required		Endpoint
objectMeta required		ObjectMeta
selector required	Label selector of the service	< string, string > map
type required	Service Type string describes ingress methods for a service	enum (ClusterIP, NodePort, LoadBalance, ExternalName)
typeMeta required		TypeMeta

3.42. ServiceDetail

Detail of service

Name	Description	Schema
clusterIP required	ClusterIP is usually assigned by the master. Valid values: - None (can be specified for headless services when proxying is not required) - empty string ("") - valid IP address	string
endpointList required		EndpointList

Name	Description	Schema
errors required		< string > array
eventList required		EventList
externalEndpoints required		< Endpoint > array
internalEndpoint required		Endpoint
objectMeta required		ObjectMeta
podList required		PodList
selector required	Label selector of the service	< string, string > map
sessionAffinity required	Session Affinity Type string	enum (ClientIP, None)
type required	Service Type string describes ingress methods for a service	enum (ClusterIP, NodePort, LoadBalance, ExternalName)
typeMeta required		TypeMeta

3.43. ServiceList

ServiceList contains a list of services in the cluster

Name	Description	Schema
errors required		< string > array
listMeta required		ListMeta
services required		< Service > array

3.44. ServicePort

ServicePort is a pair of port and protocol - service endpoint

Name	Description	Schema
nodePort required	The port on each node on which the service is exposed	integer(int32)
port required	Positive port number	integer(int32)

Name	Description	Schema
protocol required	Protocol defines network protocols supported for things like container ports	enum (TCP, UDP)

3.45. StorageClass

SecretDetail API resource provides mechanisms to inject containers with configuration data while keeping containers agnostic of Kubernetes

Name	Description	Schema
objectMeta required		ObjectMeta
parameters required	Parameters holds parameters for the provisioner	< string, string > map
provisioner required	Provisioner is the driver expected to handle this StorageClass. For example: "kubernetes.io/gce-pd" or "kubernetes.io/aws-ebs". This value may not be empty	string
typeMeta required		TypeMeta

3.46. StorageClassList

StorageClassList contains a list of StorageClass in the cluster.

Name	Description	Schema
errors required		< string > array
items required		< StorageClass > array
listMeta required		ListMeta

3.47. TypeMeta

TypeMeta describes the type of an object in response and request

Name	Description	Schema
kind required	Kind of an object	string