



Cisco Container Platform 3.1.0 API Guide

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Abstract

The Cisco Container Platform 3.1.0 API Guide gives information on Cisco Container Platform APIs and development features.

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Cisco Container Platform 3.1.0 API Guide
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1 Overview

Cisco Container Platform API provides REST API as a language-agnostic programmatic interface for applications to send requests to a Cisco Container Platform deployment.

An API conforms to the RESTful conventions and is defined by using resource and methods. A resource is a collection of information that is identified by a Uniform Resource Identifier (URI). For example, `providerclientconfig` is a resource that is used to represent configuration information to connect to an infrastructure provider such as vCenter. Methods are HTTP methods that are exposed for a resource. The commonly used HTTP methods are POST, GET, PATCH, PUT and DELETE.

2 Accessing Cisco Container Platform API

You can access the Cisco Container Platform APIs using the following URL:
<https://<CCP IP>/2/swaggerapi>

Where, <CCP_IP> is the virtual IP address that you provided during the installation of Cisco Container Platform. It is the Ingress Controller LoadBalancer IP address.

3 Key Concepts

3.1 Provider Client Configuration

Cisco Container Platform connects to infrastructure providers such as vCenter to create and manage Virtual Machines that are used for Kubernetes Clusters. The configuration information to connect to the infrastructure provider is represented by a `providerclientconfig` resource.

3.2 Cluster

Cisco Container Platform automates the creation and lifecycle operations for Kubernetes Clusters. Each Kubernetes Cluster corresponds to a cluster resource type in Cisco Container Platform. It is identified by name for GET methods allowing you to poll the status of a Kubernetes cluster before its creation is complete. All other methods on a cluster object identify the cluster by its UUID in the URI.

3.3 User Management and Authorization

3.3.1 LDAP and Local Users

Cisco Container Platform supports Active Directory users and local users. Active directory configuration and authorization correspond to the `ldap` resource type in Cisco Container Platform. Local User management and authorizations correspond to the `localusers` resource type.

3.4 Subnets and Virtual IP Address Pools

Cisco Container Platform enables you to select an existing network, create a subnet in that network, and then create a Cisco Container Platform Virtual IP Address (VIP) pool within that subnet.

VIP pools are reserved ranges of IP addresses that are assigned as virtual IP addresses within the Cisco Container Platform clusters. Subnets correspond to `network_service/subnets` resource and VIP pools are a sub-resource of subnets of the `type` pools.

4 Examples of API Use Cases for vSphere Clusters

4.1 Creating vSphere Tenant Clusters

Before you Begin

Ensure that `curl` and `jq` are installed on your client machine.

Procedure

1. Export Cisco Container Platform Virtual IP to the `MGMT_HOST` environment variable.

Command

```
export MGMT_HOST=<Control Plane VIP>
```

Example

```
export MGMT_HOST=10.20.30.40
```

2. Obtain a cookie using the username and password for your Cisco Container Platform instance.

Command

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

Example

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

3. Get list of Provider Client Configurations.

Command

```
curl -sk -b cookie.txt -H "Content-Type: application/json" https://$MGMT_HOST/2/providerclientconfigs/ | jq '[] .uuid'
```

Example

```
curl -sk -b cookie.txt -H "Content-Type: application/json" https://$MGMT_HOST/2/providerclientconfigs/ | jq '[] .uuid' "fb53eae8-d973-4644-b13f-893949154a22"
```

4. Configure the provider client that you want to use.

Command

```
export PCC=<Selected Provider Client Configuration>
```

Example

```
export PCC=fb53eae8-d973-4644-b13f-893949154a22
```

5. Get the list of datacenters.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter | jq '.Datacenters[]'
```

Example

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter | jq ' .Datacenters[]' "RTP09"
```

6. Configure the datacenter that you want to use.

Command

```
export DCC=<from list of DataCenters>
```

Example

```
export DCC=RTP09
```

7. Get the list of tenant image VMs.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/vm | jq '.VMs[] | select(. | startswith("ccp-tenant-image")) | sort -u
```

Example

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/vm | jq '.VMs[] | select(. | startswith("ccp-tenant-image"))' | sort -u
```

```
"ccp-tenant-image-1.11.5-3.1.0.ova"
```

```
"ccp-tenant-image-1.12.3-3.1.0.ova"
```

8. Configure the name of the VM image that you want to use.

Command

```
export VM=<from list of VMs>
```

Example

```
export VM=ccp-tenant-image-1.12.3-3.1.0.ova
```

9. Get the list of networks.

Command

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/network | jq '.Networks[]'
```

Example

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/network | jq '.Networks[]'
```

```
"r9-hx2-ccp"
```

```
"Storage Controller Data Network"
```

```
"k8-priv-iscsivm-network"
```

10. Configure the network that you want to use.

Command

```
export NETWORK=<From list of Networks>
```

Example

```
export NETWORK=r9-hx2-ccp
```

11. Get the list of clusters.

Command

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/cluster | jq '.Clusters[]'
```

Example

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/cluster | jq '.Clusters[]'
```

```
"r9-hx2"
```

12. Configure the name of the cluster you want to use.

Command

```
export CLUSTER=<from list of clusters>
```

Example

```
export CLUSTER=r9-hx2
```

13. Get the list of pools.

Command

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/cluster/${CLUSTER}/pool| jq ".Pools[]"
```

Example

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/cluster/${CLUSTER}/pool| jq ".Pools[]"
"Resources"
"Resources/Infrastructure"
```

14. Configure the vSphere resource pool you want to use.

Command

```
export POOL=<from list of Pools>
```

Example

```
export POOL=Resources
```

15. Get the list of datastores.

Command

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/datastore | jq -r '.Datastores[] | select(.| startswith("SpringpathDS"))|not'
```

Example

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/providerclientconfigs/${PCC}/vsphere/datacenter/${DCC}/datastore | jq -r '.Datastores[] | select(.| startswith("SpringpathDS"))|not)'
ds1
ISOs
Hxdump
r9-hx2-datastore-1
```

16. Configure the datastore that you want to use.

Command

```
export DATASTORE=<from list of datastores>
```

Example

```
export DATASTORE=r9-hx2-datastore-1
```

17. Configure a name for the tenant cluster.

Note: The cluster name must start with an alphanumeric character (a-z, A-Z, 0-9). It can contain a combination of hyphen (-) symbols and alphanumeric characters (a-z, A-Z, 0-9). The maximum length of the cluster name is 46 characters.

Command

```
export NAME=<Name of cluster>
```

Example

```
export NAME=tc4
```

18. Configure a username to remotely access cluster nodes with a given sshkey.

Command

```
export USER=<Username>
```

Example

```
export USER=ccpuser
```

19. Configure the ssh public key for remote access.

Command

```
export SSHKEY=<Selected ssh public key for remote access>
```

Example

```
export SSHKEY=`head -1 ~/.ssh/id_rsa.pub`
```

Note: If there is no public key file, please run `ssh-keygen` to create a key pair.

20. Get the list of subnets.

Command

```
curl -sk -b cookie.txt -H "Content-Type: application/json"  
https://$MGMT_HOST/2/network_service/subnets/ | jq -r '[0].uuid'
```

Example

```
curl -sk -b cookie.txt -H "Content-Type: application/json"  
https://10.20.30.40:32442/2/network\_service/subnets/ | jq -r  
'.[0].uuid'
```

```
"842e4baf-4877-4330-a3e3-  
4249983922a4"
```

21. Configure the subnet for the cluster.

Command

```
export SUBNET=<From the list of subnets>
```

Example

```
export SUBNET=842e4baf-4877-4330-a3e3-4249983922a4
```

22. Get the list of VIP pools in the subnet that you have chosen.

Command

```
curl -sk -b cookie.txt -H "Content-Type: application/json"  
https://$MGMT_HOST/2/network_service/subnets/${SUBNET}/pools | jq -r '[0].uuid'
```

Example

```
curl -sk -b cookie.txt -H "Content-Type: application/json"  
https://10.20.30.40:32442/2/network\_service/subnets/\${SUBNET}/pools | jq -r  
'.[0].uuid'
```

```
"fef830ce-dc92-46fe-8acb-01eaa539dc46"
```

23. Select the appropriate VIP pool if there are multiple options.

Command

```
export VIP_POOL=<From the list of pools>
```

Example

```
export VIP_POOL=fef830ce-dc92-46fe-8acb-01eaa539dc46
```

24. Copy and paste the following code to create a cluster json payload.

```
#-----  
cat <<EOF > cluster_create.json  
{
```



```

    "provider_client_config_uuid": "${PCC}",
    "type": 1,
    "cluster": "${CLUSTER}",
    "name": "${NAME}",
    "description": "",
    "workers": 2,
    "masters": 1,
    "vcpus": 2,
    "memory": 8192,
    "datacenter": "${DCC}",
    "datastore": "${DATASTORE}",
    "networks": [
        "${NETWORK}"
    ],
    "ingress_vip_pool_id": "${SUBNET}",
    "load_balancer_ip_num": 1,
        "resource_pool": "${CLUSTER}/${POOL}",
        "template": "${VM}",
        "ssh_user": "${USER}",
        "ssh_key": "${SSHKEY}",
        "deployer_type": "kubeadm",
        "kubernetes_version": "1.11.3",
        "deployer": {
            "provider_type": "vsphere",
            "provider": {
                "vsphere_datacenter": "${DCC}",
                "vsphere_datastore": "${DATASTORE}",
                "vsphere_client_config_uuid": "${PCC}",
                "vsphere_working_dir": "\/${DCC}/vm"
            }
        }
    }
}
EOF

#-----

```

25. Edit the `cluster_create.json` file to modify the number of workers, CPUs, memory, Kubernetes version, or description as needed.
26. Create a tenant cluster.

Command

```
curl -sk -X POST -b cookie.txt -H "Content-Type: application/json" -d
@cluster_create.json https://$MGMT_HOST/2/clusters | tee output.txt | jq
'.name,.uuid,.state'
```

Example

```
curl -sk -X POST -b cookie.txt -H "Content-Type:
application/json" -d @cluster_create.json
https://$MGMT_HOST/2/clusters | tee output.txt | jq
'.name,.uuid,.state'
```

```
"tc4"
```

```
"8ccaa3a1-8a11-4996-9224-5723b7ecfdfd"
```

```
"READY"
```

27. Configure the tenant cluster UUID.

Command

```
#export TC=<UUID of the selected tenant cluster>
```

Example

```
export TC=8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

28. Download the KUBECONFIG environment file.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters/${TC}/env -o ${TC}.env
```

Example

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters/${TC}/env -o ${TC}.env
```

29. Export the config file to KUBECONFIG environment variable.

Command

```
export KUBECONFIG=./${TC}.env
```

Example

```
export KUBECONFIG=./${TC}.env
```

30. View nodes on a tenant cluster.

Command

```
kubectl get nodes -o wide
```

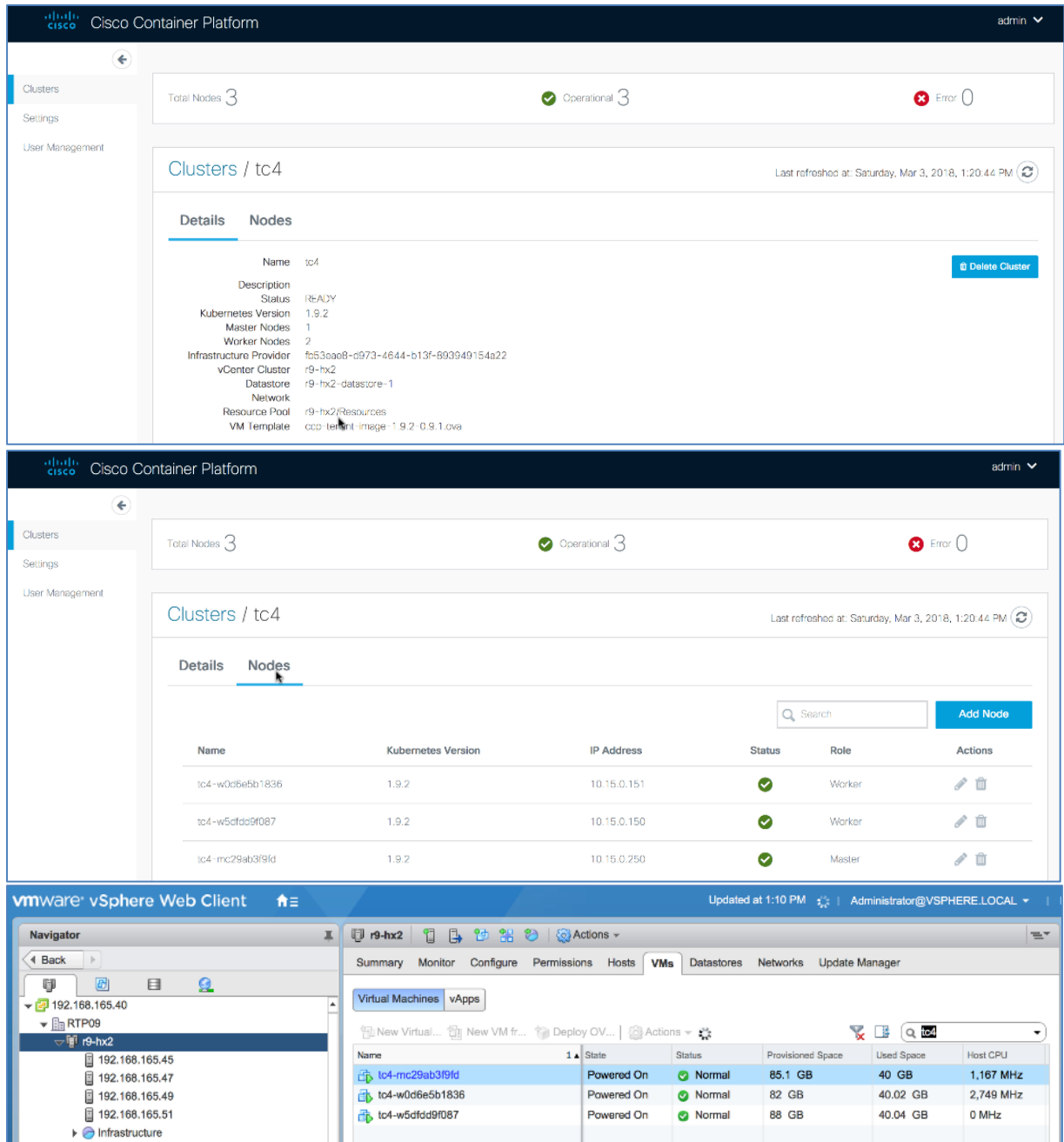
Example

```
kubectl get nodes -o wide
```

NAME	STATUS	ROLES	AGE	VERSION	EXTERNAL-IP	OS-IMAGE	KERNEL VERSION	CONTAINER RUNTIME
tc4-mc29ab3f9fd	Ready	master	3m	v1.9.2	10.15.0.250	Ubuntu 16.04.3 LTS	4.4.0-104-generic	Docker://1.13.1
tc4-w0d6e5b1836	Ready	<none>	2m	v1.9.2	10.15.0.151	Ubuntu 16.04.3 LTS	4.4.0-104-generic	Docker://1.13.1
Tc4-w5dfdd9f087	Ready	<none>	2m	v1.9.2	10.15.0.150	Ubuntu 16.04.3 LTS	4.4.0-104-generic	Docker://1.13.1

The screenshot shows the Cisco Container Platform web interface. The top navigation bar includes the Cisco logo, the text 'Cisco Container Platform', and a user profile dropdown for 'admin'. The main content area is titled 'Clusters' and shows a summary: 'Total Clusters 4', 'Healthy 4', 'Warning 0', and 'Error 0'. Below this is a table of clusters with columns for Name, Description, Status, Kubernetes Version, Nodes, and Actions. The cluster 'tc4' is highlighted with a yellow box. The table data is as follows:

Name	Description	Status	Kubernetes Version	Nodes	Actions
tc1	Tenant Cluster One	Healthy	1.9.2	Masters: 1 Workers: 3	[Icons]
tc2	Test Cluster Two	Healthy	1.8.4	Masters: 1 Workers: 2	[Icons]
tc3		Healthy	1.9.2	Masters: 1 Workers: 2	[Icons]
tc4		Healthy	1.9.2	Masters: 1 Workers: 2	[Icons]



4.2 Deleting vSphere Tenant Clusters

Before you Begin

Ensure that curl and jq are installed on your client machine.

Procedure

1. Export Cisco Container Platform Virtual IP to the MGMT_HOST environment variable.

Command

```
export MGMT_HOST=<Control Plane VIP>
```

Example

```
export MGMT_HOST=10.20.30.40
```

2. Obtain a cookie using the username and password for your Cisco Container Platform instance.

Command

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

Example

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

3. List tenant clusters.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters| jq -r '.[].name, .uuid'
```

Example

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters| jq -r '.[].name, .uuid'
tc1
aef65a35-c013-4d91-9edb-e2ef8359f95b
tc2
8dab31ef-3efa-4de6-9e0d-07e6ff68bc24
tc3
a523fce7-b71e-444a-9626-871e17fe1fcd
tc4
8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

4. Export the tenant cluster.

Command

```
export TC=<selected cluster from list>
```

Example

```
export TC=8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

5. Delete the tenant cluster.

Command

```
curl -sk -b cookie.txt -X DELETE https://$MGMT_HOST/2/clusters/${TC}
```

Example

```
curl -sk -b cookie.txt -X DELETE https://$MGMT_HOST/2/clusters/${TC}
```

4.3 Configuring Windows AD Service Account for Authentication

Before you Begin

Ensure that curl and jq are installed on your client machine.

Procedure

1. Export Cisco Container Platform Virtual IP to the MGMT_HOST environment variable.

Command

```
export MGMT_HOST=<Control Plane VIP>
```

Example

```
export MGMT_HOST=10.20.30.40
```

2. Obtain a cookie using the username and password for your Cisco Container Platform instance.

Command

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

Example

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

3. Query Windows AD server to verify the Service Account connection and members of the Cisco Container Platform accounts.

Command

```
ldapsearch -x -h <AD Server> -D "<Bind Distinguished Name>" -w '<Password>' -b "<Base Distinguished Name>" -s "<Scope>"
```

Example

```
ldapsearch -x -h 192.0.2.1 -D "CN=Adam A. Arkanis,CN=Users,DC=r9-hx,DC=local" -w 'Password' -b "dc=r9-hx,dc=local" -s sub "(cn=CCP*)" member cn
```

```
# extended LDIF
#
# LDAPv3
# base <dc=r9-hx,dc=local> with scope subtree
# filter: (cn=CCP*)
# requesting: member cn
#
# CCPAdmins, Users, r9-hx.local
dn: CN=CCPAdmins,CN=Users,DC=r9-hx,DC=local
cn: CCPAdmins
member: CN=Andrew A. Andres,CN=Users,DC=r9-hx,DC=local
member: CN=Adam A. Arkanis,CN=Users,DC=r9-hx,DC=local

# CCPDevOps, Users, r9-hx.local
dn: CN=CCPDevOps,CN=Users,DC=r9-hx,DC=local
cn: CCPDevOps
member: CN=Bob B. Bondurant,CN=Users,DC=r9-hx,DC=local
member: CN=Becky B. Bartholemew,CN=Users,DC=r9-hx,DC=local
```

4. Create json payload file for creating AD service account in Cisco Container Platform.

Command

```
cat << EOF > ldap_serviceaccount.json
{
  "Server": " <AD Server>",
  "Port": 3268,
  "ServiceAccountDN": "<Bind Distinguished Name>",
  "ServiceAccountPassword": "<Password>",
```

```
"StartTLS": false,  
"InsecureSkipVerify": true  
}  
EOF
```

Example

```
cat << EOF > ldap_serviceaccount.json  
{  
  "Server": "192.0.2.1",  
  "Port": 3268,  
  "ServiceAccountDN": "CN=Adam A. Arkanis,CN=Users,DC=r9-  
hx,DC=local",  
  "ServiceAccountPassword": "Password",  
  "StartTLS": false,  
  "InsecureSkipVerify": true  
}  
EOF
```

5. Create the service account for Cisco Container Platform.

Command

```
curl -sk -b cookie.txt -X PUT -H "Content-Type: application/json" -d  
@ldap_serviceaccount.json https://$MGMT_HOST/2/ldap/setup
```

Example

```
curl -sk -b cookie.txt -X PUT -H "Content-Type:  
application/json" -d @ldap_serviceaccount.json  
https://$MGMT_HOST/2/ldap/setup  
{  
  "Server": "192.0.2.1",  
  "Port": 3268,  
  "BaseDN": "DC=r9-hx,DC=local",  
  "ServiceAccountDN": "CN=Adam A. Arkanis,CN=Users,DC=r9-  
hx,DC=local",  
  "ServiceAccountPassword": "",  
  "StartTLS": false,  
  "InsecureSkipVerify": true  
}
```

6. Confirm service account configuration.

Command

```
curl -k -b cookie.txt https://$MGMT_HOST/2/ldap/setup
```

Example

```
curl -k -b cookie.txt https://$MGMT_HOST/2/ldap/setup  
{  
  "Server": "192.0.2.1",  
  "Port": 3268,  
  "BaseDN": "DC=r9-hx,DC=local",  
  "ServiceAccountDN": "CN=Adam A. Arkanis,CN=Users,DC=r9-  
hx,DC=local",  
  "ServiceAccountPassword": "",  
  "StartTLS": false,  
  "InsecureSkipVerify": true  
}
```

4.4 Managing Windows AD Group Authorizations for Tenant Clusters

Before you Begin

Ensure that curl and jq are installed on your client machine.

Procedure

1. Export Cisco Container Platform Virtual IP to the MGMT_HOST environment variable.

Command

```
export MGMT_HOST=<Control Plane VIP>
```

Example

```
export MGMT_HOST=10.20.30.40
```

2. Obtain a cookie using the username and password for your Cisco Container Platform instance.

Command

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

Example

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

3. Create json payload file for assigning an AD group to a SysAdmin or DevOps role.

```
cat << EOF > ldap_devops_group.json
{
  "LdapDN": "CN=CCPDevOps,CN=Users,DC=r9-hx,DC=local",
  "Role": "DevOps"
}
EOF
```

4. Create an LDAP group.
An error message is displayed, if an LDAP group already exists and can continue with script.

Command

```
curl -sk -b cookie.txt -X POST -H "Content-Type: application/json" -d @ldap_devops_group.json https://$MGMT_HOST/2/ldap/groups
```

Example

```
curl -sk -b cookie.txt -X POST -H "Content-Type: application/json" -d @ldap_devops_group.json https://$MGMT_HOST/2/ldap/groups
{
  "LdapDN": "CN=CCPDevOps,CN=Users,DC=r9-hx,DC=local",
  "Role": "DevOps"
}
```

5. Get list of configured AD groups in Cisco Container Platform.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/ldap/groups
```

Example

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/ldap/groups
```

```
[
  {
    "LdapDN": "CN=CCPDevOps,CN=Users,DC=r9-hx,DC=local",
    "Role": "DevOps"
  }
]
```

```
#Return list of clusters to assign AD group to
```

6. Get list of clusters for which you want to assign an AD group.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters| jq -r '[][.name, .uuid'
```

Example

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters| jq -r
'[][.name, .uuid'
```

```
tc1
aef65a35-c013-4d91-9edb-e2ef8359f95b
tc2
8dab31ef-3efa-4de6-9e0d-07e6ff68bc24
tc3
a523fce7-b71e-444a-9626-871e17fe1fcd
tc4
8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

7. Export the selected tenant cluster.

Command

```
export TC=<Selected tenant cluster>
```

Example

```
export TC=8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

8. Create a json payload for assigning AD group to a tenant cluster.

```
cat << EOF > ldap_authz.json
{
  "name": "CN=CCPDevOps,CN=Users,DC=r9-hx,DC=local",
  "local": false
}
EOF
```

9. Authorize group access to the selected tenant cluster.

Command

```
curl -sk -b cookie.txt -X POST -H "Content-Type: application/json" -d
@ldap_authz.json https://$MGMT_HOST/2/clusters/${TC}/authz
```

Example

```
curl -sk -b cookie.txt -X POST -H "Content-Type:
application/json" -d @ldap_authz.json
https://$MGMT_HOST/2/clusters/${TC}/authz

{
  "AuthID": "743e54da-037e-4386-99a7-a3da36e51936",
  "Name": "CN=CCPDevOps,CN=Users,DC=r9-hx,DC=local",
```



```
  "Local": false
}
```

10. Verify authorization of AD group to the tenant cluster.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters/${TC}/authz
```

Example

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/clusters/${TC}/authz
{
  "AuthList": [
    {
      "AuthID": "743e54da-037e-4386-99a7-a3da36e51936",
      "Name": "CN=CCPDevOps,CN=Users,DC=r9-hx,DC=local",
      "Local": false
    }
  ]
}
```

11. Authenticate as a user from an AD DevOps group.

Command

```
curl -sk -c cookie_user.txt -H "Content-Type:application/x-www-form-urlencoded" -d
"username=<AD User>&password=<Password>"
https://$MGMT_HOST/2/system/login/
```

Example

```
curl -sk -c cookie_user.txt -H "Content-Type:application/x-www-
form-urlencoded" -d "username=BobBB&password=Password"
https://$MGMT_HOST/2/system/login/
```

12. Verify tenant cluster access list for an AD user.

Command

```
curl -sk -b cookie_user.txt https://$MGMT_HOST/2/clusters| jq -r '[]|.name, .uuid'
```

Example

```
curl -sk -b cookie_user.txt https://$MGMT_HOST/2/clusters| jq -
r '[]|.name, .uuid'
tc4
8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

13. Export the selected tenant cluster.

Command

```
export TC=<Selected tenant cluster>
```

Example

```
export TC=8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

14. Download the KUBECONFIG environment file.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters/${TC}/env -o ${TC}.env
```

Example

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters/${TC}/env
-o ${TC}.env
```

- Export the config file to KUBECONFIG environment variable.

Command

```
export KUBECONFIG=./${TC}.env
```

Example

```
export KUBECONFIG=./${TC}.env
```

- View nodes on the tenant cluster.

Command

```
kubectl get nodes -o wide
```

Example

```
kubectl get nodes -o wide
```

NAME	STATUS	ROLES	AGE	VERSION	EXTERNAL-IP	OS-IMAGE	KERNEL VERSION
CONTAINER-RUNTIME							
tc4-mc29ab3f9fd docker://1.13.1	Ready	master	1h	v1.9.2	10.20.30.250	Ubuntu 16.04.3 LTS	4.4.0-104-generic
tc4-w0d6e5b1836 docker://1.13.1	Ready	<none>	1h	v1.9.2	10.20.30.151	Ubuntu 16.04.3 LTS	4.4.0-104-generic
tc4-w5dfdd9f087 docker://1.13.1	Ready	<none>	1h	v1.9.2	10.20.30.150	Ubuntu 16.04.3 LTS	4.4.0-104-generic

- Remove AD group access.

Command

```
#curl -sk -b cookie.txt -X DELETE https://$MGMT_HOST/2/ldap/groups/<DN of
Group>
```

Example

```
curl -sk -b cookie.txt -X DELETE
https://$MGMT_HOST/2/ldap/groups/CN=CCPDevOps,CN=Users,DC=r9-
hx,DC=local
```

- Verify that authorization of AD group to tenant cluster is removed.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters/${TC}/authz
```

Example

```
curl -sk -b cookie.txt
https://$MGMT_HOST/2/clusters/${TC}/authz

{
  "AuthList": []
}
```

4.5 Downloading Tenant Cluster KUBECONFIG Environment File

Before you Begin

Ensure that curl and jq are installed on your client machine.

Procedure

- Export Cisco Container Platform Virtual IP to the MGMT_HOST environment variable.

Command

```
export MGMT_HOST=<Control Plane VIP>
```

Example

```
export MGMT_HOST=10.20.30.40
```

2. Obtain a cookie using the username and password for your Cisco Container Platform instance.

Command

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

Example

```
curl -k -c cookie.txt -H "Content-Type:application/x-www-form-urlencoded" -d 'username=admin&password=<Password from the installer>' https://$MGMT_HOST/2/system/login/
```

3. List tenant clusters.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters| jq -r '[]|.name, .uuid'
```

Example

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters| jq -r '[]|.name, .uuid'
```

```
tc1  
aef65a35-c013-4d91-9edb-e2ef8359f9gb  
tc2  
8dab31ef-3efa-4de6-9e0d-07e6ff68bc24  
tc3  
a523fce7-b71e-444a-9626-871e17fe1fcd  
tc4  
8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

4. Export a tenant cluster.

Command

```
export TC=<selected cluster from list>
```

Example

```
export TC=8ccaa3a1-8a11-4996-9224-5723b7ecfdfd
```

5. Download the KUBECONFIG environmental file.

Command

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters/${TC}/env -o ${TC}.env
```

Example

```
curl -sk -b cookie.txt https://$MGMT_HOST/2/clusters/${TC}/env -o ${TC}.env
```

6. Export the config file to KUBECONFIG environment variable.

Command

```
export KUBECONFIG=./${TC}.env
```

Example

```
export KUBECONFIG=./${TC}.env
```



```
export
TOKEN=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJBTExfQVU1RFU1NfQVVUSCI6dHJ1ZSwiZXhwIjoxNTQ4NjM5MDMyLCJyY2x1IjoiaW5pYjZlIjoiQWRtaW5pc3RyYXRvcj9.ypjTZFKKmfuBvRxodu-MLedIkQROVNqHdqXgKKdAv7M
```

5.2 Creating Providers for EKS

Command

```
curl -k -X POST -H "x-auth-token: $TOKEN" -d \
'{
  "type": "eks",
  "name": "name_of_your_eks_cluster",
  "role_arn": "you_aws_role_arn",
  "access_key_id": "your_AWS_access_key_id",
  "secret_access_key": "your_AWS_secret_access_key"
}' https:// <ccp-url>/v3/providers/
```

Example

```
curl -k -X POST -H "x-auth-token: $TOKEN" -d \
'{
  "type": "eks",
  "name": "selvi-eks-provider",
  "role_arn":
"arn:aws:iam::123456789123:role/eksServiceRole",
  "access_key_id": "ABCDEFGHijklmnopqrst",
  "secret_access_key":
"THISISNOTAREALSECRETKEYBUTLOOKSLIKEONE"
}' https://10.20.30.40/v3/providers/
```

5.3 Retrieving List of Providers for EKS

Command

```
curl -k -X GET -H "X-Auth-Token": "$TOKEN" https://<ccp-url>/v3/providers
```

Example

```
curl -k -X GET -H "X-Auth-Token": "$TOKEN"
https://10.20.30.40/v3/providers
```

5.4 Retrieving Specific Provider for EKS

Command

```
curl -k -X GET -H "X-Auth-Token": "$TOKEN" https:// <ccp-
url>/v3/providers/<provider_uuid>
```

Example

```
curl -k -X GET -H "X-Auth-Token": "$TOKEN" https://
10.20.30.40/v3/providers/17d7d949-cf95-4676-80a7-ae3d773dc3b0/
```

```
[
  {
    "access_key_id": "ABCDEFGHijklmnopqrst",
    "id": "7edd7790-a776-4a91-91f3-0938483dbf78",
    "name": "selvi-eks-provider",
    "role_arn": "arn:aws:iam::12345678912:role/ccp-eks-
7edd7790-a776-4a91-91f3-0938483dbf78",
    "type": "eks"
```

```
    }
  ]
}
```

5.5 Modifying Providers for EKS

You cannot update the provider details once it is created. This includes parameters such as the Role_ARN, Type, Access_Key_ID, and Secret_Access_Key.

5.6 Deleting Providers for EKS

Command

```
curl -k -X DELETE -H "x-auth-token: $TOKEN" https:// <ccp-url>/v3/providers/<provider_uuid>
```

Example

```
curl -k -X DELETE -H "x-auth-token: $TOKEN"
https://10.20.30.40/v3/providers/7edd7790-a776-4a91-91f3-
0938483dbf78/
```

5.7 Creating EKS clusters

Command

```
curl -k -X POST -H "x-auth-token: $TOKEN" -d \
'{
  "provider": "provider_uuid",
  "vpc_sizing": {
    "subnet": "<your_desired_subnet>",
    "public_subnets": ["<desired_pub_subnet1>", "<desired_pub_subnet2>", "<desired_pub_subnet3>"],
    "private_subnets": ["<desired_priv_subnet1>", "<desired_priv_subnet2>", "<desired_priv_subnet3>"]
  },
  "region": "<aws_region_string>",
  "type": "eks",
  "ami": "<ami_id>",
  "instance_type": "<amazon_instance_type>",
  "worker_count": <number_of_workers_in_eks_cluster>,
  "access_role_arn": "<arn_of_role_in_your_aws_account>",
  "name": "<name_of_your_eks_cluster>",
  "ssh_keys": ["<your_ssh_key_to_be_able_to_access_your_workers>", "<optionally_another_ssh_key>"]
}' https://<ccp_url>/v3/clusters/
```

Example

```
curl -k -X POST -H "x-auth-token: $TOKEN" -d \
'{
  "provider": "17d7d949-cf95-4676-80a7-ae3d773dc3b0",
  "vpc_sizing": {
    "subnet": "10.20.0.0/16",
    "public_subnets": ["10.20.1.0/24", "10.20.2.0/24", "10.20.3.0/24"],
    "private_subnets": ["10.20.4.0/24", "10.20.5.0/24", "10.20.6.0/24"]
  },
}
```

```

    "region": "us-west-2",
    "type": "eks",
    "ami": "ami-09677889326e51ea1",
    "instance_type": "t2.small",
    "worker_count": 1,

    "access_role_arn": "arn:aws:iam::123456789123:role/KubernetesAdmin",
    "name": "selvi_eks_1",
    "ssh_keys": ["ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAIHdSrKkWhwED6awk9sjegF0dgcKnotmyrealkey
selvik@SELVIK-M-C1DM", "another_dummy"]
}' https://10.20.30.40/v3/clusters/

{
  "id": "094c1544-58e5-46cf-8a3f-94de81f35574",
  "type": "eks",
  "name": "selvi_eks_1",
  "provider": "17d7d949-cf95-4676-80a7-ae3d773dc3b0",
  "region": "us-west-2",
  "status": "CREATING",
  "status_detail": null,
  "access_role_arn": "arn:aws:iam::123456789123:role/KubernetesAd
min",
  "kubeconfig": null,
  "vpc_sizing": {
    "subnet": "10.20.0.0/16",
    "public_subnets": [
      "10.20.1.0/24",
      "10.20.2.0/24",
      "10.20.3.0/24"
    ],
    "private_subnets": [
      "10.20.4.0/24",
      "10.20.5.0/24",
      "10.20.6.0/24"
    ]
  },
  "ami": "ami-09677889326e51ea1",
  "instance_type": "t2.small",
  "ssh_key_name": "",
  "worker_count": 1,
  "vpc_id": null
}

```

Note: The API returns the values immediately and the status is indicated as *CREATING*.

5.8 Retrieving all EKS clusters

Command

```
curl -k -X GET -H "X-Auth-Token": "$TOKEN" https://<ccp_url>/v3/clusters
```

Example

```
curl -k -X GET -H "X-Auth-Token": "$TOKEN"
https://10.10.99.190/v3/clusters
```

```
[
  {
    "id": "094c1544-58e5-46cf-8a3f-94de81f35574",
```

```

    "type":"eks",
    "name":"selvi_eks_1",
    "provider":"17d7d949-cf95-4676-80a7-ae3d773dc3b0",
    "region":"us-west-2",
    "status":"CREATING_MASTER",
    "status_detail":"","
    "access_role_arn":"arn:aws:iam::123456789123:role/Kubernet
sAdmin",
    "kubeconfig":null,
    "vpc_sizing":{
      "subnet":"10.20.0.0/16",
      "public_subnets":[
        "10.20.1.0/24",
        "10.20.2.0/24",
        "10.20.3.0/24"
      ],
      "private_subnets":[
        "10.20.4.0/24",
        "10.20.5.0/24",
        "10.20.6.0/24"
      ]
    },
    "ami":"ami-09677889326e51ea1",
    "instance_type":"t2.small",
    "ssh_key_name":"","
    "worker_count":1,
    "vpc_id":"vpc-thisis72e6cnotreal"
  }
]

```

5.9 Retrieving Specific EKS Clusters

Command

```
curl -k -X GET -H "X-Auth-Token":"$TOKEN"
https://<ccp\_url>/v3/clusters/<your\_cluster\_uuid>
```

Example

```
curl -k -X GET -H "X-Auth-Token":"$TOKEN"
https://10.10.99.190/v3/clusters/5a5f0db5-110c-4151-80e8-
9b78889d30bc/
```

```

[
  {
    "id":"094c1544-58e5-46cf-8a3f-94de81f35574",
    "type":"eks",
    "name":"selvi_eks_1",
    "provider":"17d7d949-cf95-4676-80a7-ae3d773dc3b0",
    "region":"us-west-2",
    "status":"CREATING_MASTER",
    "status_detail":"","
    "access_role_arn":"arn:aws:iam::123456789123:role/Kubernet
sAdmin",
    "kubeconfig":null,
    "vpc_sizing":{
      "subnet":"10.20.0.0/16",
      "public_subnets":[
        "10.20.1.0/24",
        "10.20.2.0/24",
        "10.20.3.0/24"

```



```

    ],
    "private_subnets":[
        "10.20.4.0/24",
        "10.20.5.0/24",
        "10.20.6.0/24"
    ]
},
"ami":"ami-09677889326e51ea1",
"instance_type":"t2.small",
"ssh_key_name":"",
"worker_count":1,
"vpc_id":"vpc-thisis72e6cnotreal"
}
]

```

5.10 Modifying EKS clusters

Command

```

curl -k -X PATCH -H "x-auth-token: $TOKEN" -d \
'{
  "worker_count": 2
}' https://<ccp_url>/v3/clusters/<cluster_uuid>/

```

Example

```

curl -k -X PATCH -H "x-auth-token: $TOKEN" -d \
'{"worker_count": 2
}' https://10.20.99.190/v3/clusters/5a5f0db5-110c-4151-80e8-
9b78889d30bc/

[
  {
    "id":"094c1544-58e5-46cf-8a3f-94de81f35574",
    "type":"eks",
    "name":"selvi_eks_1",
    "provider":"17d7d949-cf95-4676-80a7-ae3d773dc3b0",
    "region":"us-west-2",
    "status":"CREATING_MASTER",
    "status_detail":"",
    "access_role_arn":"arn:aws:iam::123456789123:role/Kubernet
sAdmin",
    "kubeconfig":null,
    "vpc_sizing":{
      "subnet":"10.20.0.0/16",
      "public_subnets":[
        "10.20.1.0/24",
        "10.20.2.0/24",
        "10.20.3.0/24"
      ],
      "private_subnets":[
        "10.20.4.0/24",
        "10.20.5.0/24",
        "10.20.6.0/24"
      ]
    },
    "ami":"ami-09677889326e51ea1",
    "instance_type":"t2.small",
    "ssh_key_name":"",
    "worker_count":1,
  }
]

```

```
    "vpc_id": "vpc-thisis72e6cnotreal"  
  }  
]
```

5.11 Deleting EKS clusters

Command

```
curl -k -X DELETE -H "x-auth-token: $TOKEN"  
https://<ccp_url>/v3/clusters/cluster_uuid/
```

Example

```
curl -k -X DELETE -H "x-auth-token: $TOKEN"  
https://10.10.99.190/v3/clusters/5a5f0db5-110c-4151-80e8-  
9b78889d30bc/
```

6 Cisco Container Platform API Reference

2/system : List of system endpoints

POST /2/system/login

Management server login

Response Class (Status 200)

OK

Model | Example Value

```
{
  "status": "string",
  "login_id": "string",
  "total_fail": 0,
  "last_success": "2019-02-04T03:49:44.726Z",
  "last_fail": "2019-02-04T03:49:44.726Z",
  "to_host": "string",
  "from_host": "string",
  "proto": "string"
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
username	<input type="text"/>	User Name	formData	string
password	<input type="text"/>	Password	formData	string
token	<input type="text"/>	JWT Token	formData	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

[Try it out!](#)

GET /2/system/livenessHealth

Returns a string representing the health of the system

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200 OK

default

Try it out!

GET /2/system/health

Returns the health of the system

Response Class (Status 200)

OK

Model | Example Value

```
{
  "TotalSystemHealth": "string",
  "CurrentNodes": 0,
  "ExpectedNodes": 0,
  "NodesStatus": [
    {
      "NodeName": "string",
      "NodeCondition": "string",
      "NodeStatus": "string",
      "LastTransitionTime": "string"
    }
  ],
  "PodStatusList": [
    {
      "PodName": "string",
      "PodCondition": "string",
      "PodStatus": "string",
      "LastTransitionTime": "string"
    }
  ]
}
```

Response Content Type

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

Try it out!

GET /2/system/CorcHealth

Get corc health

Response Class (Status 200)

OK

Model | Example Value

```
{}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	<div style="border: 1px solid #ccc; padding: 5px; min-height: 80px;">(required)</div>		body	Model Example Value <div style="border: 1px solid #ccc; padding: 5px; min-height: 30px;">{ }</div>

Parameter content type:

Response Messages

HTTP Status Code	Reason	Response Model	Headers
default		Model Example Value <div style="border: 1px solid #ccc; padding: 5px; min-height: 30px;">{ }</div>	

Try it out!

/2/providerclientconfigs : List of provider client config endpoints

GET /2/providerclientconfigs [Get provider client configuration list](#)

Parameters

Parameter	Value	Description	Parameter Type	Data Type
name	<input type="text"/>	Provider Client Config Name	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Config found		
401	Unauthorized		
404	Config not found		

default
Try it out!

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	(required)		body	Model Example Value
	Parameter content type: application/json ▼			<pre>{ "uuid": "string", "name": "string", "config": {} }</pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
201	Added config successfully	Model Example Value	
		<pre>{ "uuid": "string", "name": "string", "config": {} }</pre>	
400	Bad request		
401	Unauthorized		

Try it out!

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	(required)	Client Config UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
204	Deleted config successfully		
400	Config in use		
401	Unauthorized		

HTTP Status Code	Reason	Response Model	Headers
404	Config not found		

Try it out!

GET /2/providerclientconfigs/{clientconfigUUID} Get provider client configuration

Response Class (Status 200)
Config found

Model | Example Value

```

{
  "uuid": "string",
  "name": "string",
  "config": {}
}

```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Client Config UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	Config not found		

default

Try it out!

PATCH /2/providerclientconfigs/{clientconfigUUID} Update provider client configuration

Response Class (Status 200)
Config found

Model | Example Value

```

{
  "uuid": "string",
  "name": "string",
}

```



```
"config": {}  
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	<input type="text" value="(required)"/> Parameter content type: <input type="text" value="application/json"/>		body	Model Example Value <pre>{ "uuid": "string", "name": "string", "config": {} }</pre>
clientconfigUUID	<input type="text" value="(required)"/>	Client Config UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	Config not found		

default

GET </2/providerclientconfigs/{clientconfigUUID}/clusters> [Get list of clusters who are using providerclientconfig](#)

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Client Config UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Clusters found		
401	Unauthorized		
404	Clusters not found		

default

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter [Gets the list of vSphere Data Centers.](#)

Response Class (Status 200)

OK

Model | Example Value

```
{
  "Datacenters": [
    "string"
  ]
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Client Config UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

[Try it out!](#)

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/cluster [Gets the list of vSphere Clusters in a datacenter.](#)

Response Class (Status 200)

OK

Model | Example Value

```
{
  "Clusters": [
    "string"
  ]
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Client Config UUID	path	string
datacenterName	<input type="text" value="(required)"/>	Datacenter Name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

[Try it out!](#)

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/vm

[Gets the list of vSphere Virtual Machines.](#)

Response Class (Status 200)

OK

Model | Example Value

```
{
  "VMs": [
    "string"
  ]
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Client Config UUID	path	string
datacenterName	<input type="text" value="(required)"/>	Datacenter Name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

[Try it out!](#)

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/network

[Gets the list of vSphere Networks.](#)

Response Class (Status 200)

OK

Model | Example Value

```
{
  "Networks": [
    "string"
  ]
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Client Config UUID	path	string
datacenterName	<input type="text" value="(required)"/>	Datacenter Name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
default			

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/datastore

[Gets the list of vSphere Datastores.](#)

Response Class (Status 200)

OK

Model | Example Value

```
{
  "Datastores": [
    "string"
  ]
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Client Config UUID	path	string
datacenterName	<input type="text" value="(required)"/>	Datacenter Name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

[Try it out!](#)

GET
 /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/cluster/{clusterName}/pools
[Gets the list of vSphere Pools.](#)

Response Class (Status 200)

OK

Model | Example Value

```
{
  "Pools": [
    "string"
  ]
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Datacenter Name	path	string
datacenterName	<input type="text" value="(required)"/>	Datacenter Name	path	string
clusterName	<input type="text" value="(required)"/>	Cluster Name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

[Try it out!](#)

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/cluster/{clusterName}/gpu

Gets the list of VSphere GPUs.

Response Class (Status 200)

OK

Model | Example Value

```
{
  "Gpus": [
    {
      "Name": "string",
      "Count": 0
    }
  ]
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clientconfigUUID	<input type="text" value="(required)"/>	Datacenter Name	path	string
datacenterName	<input type="text" value="(required)"/>	Datacenter Name	path	string
clusterName	<input type="text" value="(required)"/>	Cluster Name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

2/clusters : List of cluster endpoints

GET /2/clusters Get all clusters

Response Class (Status 200)

Clusters found

Model | Example Value

```
{
  "uuid": "string",
  "provider_client_config_uuid": "string",
}
```

```
"aci_profile_uuid": "string",
"name": "string",
"description": "string",
"workers": 0,
"masters": 0,
"state": "string",
"template": "string",
"ssh_user": "string",
"ssh_key": "string",
"Infra": {},
"labels": [
  {
    "key": "string",
    "value": "string"
  }
],
"nodes": [
  {
    "uuid": "string",
    "name": "string",
    "ip_info": [
      {
        "IPInfo": {
          "id": 0,
          "uuid": "string",
          "ip": "string",
          "subnet": "string",
          "gateway": "string",
          "nameservers": [
            "string"
          ],
          "netmask": "string",
          "mtu": 0
        },
        "if_name": "string"
      }
    ],
    "public_ip": "string",
    "private_ip": "string",
    "is_master": true,
    "state": "string",
    "cloud_init_data": "string",
    "kubernetes_version": "string",
    "error_log": "string",
    "template": "string",
    "mac_addresses": [
      "string"
    ],
    "node_pool_type": "string",
    "node_pool_id": 0
  }
],
```

```
"deployer": {
  "provider_type": "string",
  "provider": {
    "vsphere_datacenter": "string",
    "vsphere_datastore": "string",
    "vsphere_scsi_controller_type": "string",
    "vsphere_working_dir": "string",
    "vsphere_client_config_uuid": "string",
    "client_config;omitempty": {
      "ip": "string",
      "port": 0,
      "username": "string",
      "password": "string"
    }
  }
},
"kubernetes_version": "string",
"cluster_env_url": "string",
"cluster_dashboard_url": "string",
"network_plugin": {
  "name": "string",
  "status": "string",
  "details": "string"
},
"node_ip_pool_uuid": "string",
"ccp_private_ssh_key": "string",
"ccp_public_ssh_key": "string",
"ntp_pools": [
  "string"
],
"ntp_servers": [
  "string"
],
"is_control_cluster": true,
"is_adopt": true,
"registries_self_signed": [
  "string"
],
"registries_insecure": [
  "string"
],
"registries_root_ca": [
  "string"
],
"ingress_vip_pool_id": "string",
"ingress_vips": [
  "string"
],
"helm_charts": [
  {
    "helmchart_uuid": "string",
    "cluster_UUID": "string",
```



```
    "chart_url": "string",
    "name": "string",
    "options": "string"
  }
],
"master_vip_addr_id": "string",
"master_vip": "string",
"master_mac_addresses": [
  "string"
],
"load_balancer_ip_num": 0,
"load_balancer_ip_info_list": [
  {
    "IPInfo": {
      "id": 0,
      "uuid": "string",
      "ip": "string",
      "subnet": "string",
      "gateway": "string",
      "nameservers": [
        "string"
      ],
      "netmask": "string",
      "mtu": 0
    },
    "never_release": true
  }
],
"node_pools": [
  {}
],
"is_istio_enabled": true,
"is_harbor_enabled": true,
"harbor_registry_size": "string",
"harbor_admin_server_password": "string",
"master_node_pool": {},
"worker_node_pool": {},
"storage_class": "string",
"aws_iam_enabled": true,
"aws_iam_role_arn": "string",
"etcd_encrypted": true
}
```

Response Content Type ▼

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	No cluster found		

HTTP Status Code

Reason

Response Model

Headers

default

Try it out!

POST /2/clusters

Create a cluster with the given specification

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

body

(required)

Parameter content type:

application/json ▼

body

Model Example Value

```
{
  "uuid": "string",
  "provider_client_config_uuid": "string",
  "aci_profile_uuid": "string",
  "name": "string",
  "description": "string",
  "workers": 0,
  "masters": 0,
  "state": "string",
  "template": "string",
  "ssh_user": "string",
  "ssh_key": "string",
  "Infra": {},
  "labels": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "nodes": [
    {
      "uuid": "string",
      "name": "string",
      "ip_info": [
        {
          "IPInfo": {
            "id": 0,
            "uuid": "string",
            "ip": "string",
            "subnet": "string",
            "gateway": "string",
            "nameservers": [
              "string"
            ],
            "netmask": "string",
            "mtu": 0
          },
          "if_name": "string"
        }
      ],
      "public_ip": "string",
      "private_ip": "string",

```

Parameter	Value	Description	Parameter Type	Data Type
				<pre> "is_master": true, "state": "string", "cloud_init_data": "string", "kubernetes_version": "string", "error_log": "string", "template": "string", "mac_addresses": ["string"], "node_pool_type": "string", "node_pool_id": 0 }], "deployer": { "provider_type": "string", "provider": { "vsphere_datacenter": "string", "vsphere_datastore": "string", "vsphere_scsi_controller_type": "string", "vsphere_working_dir": "string", "vsphere_client_config_uuid": "string", "client_config;omitempty": { "ip": "string", "port": 0, "username": "string", "password": "string" } } }, "kubernetes_version": "string", "cluster_env_url": "string", "cluster_dashboard_url": "string", "network_plugin": { "name": "string", "status": "string", "details": "string" }, "node_ip_pool_uuid": "string", "ccp_private_ssh_key": "string", "ccp_public_ssh_key": "string", "ntp_pools": ["string"], "ntp_servers": ["string"], "is_control_cluster": true, "is_adopt": true, "registries_self_signed": ["string"], "registries_insecure": ["string"], "registries_root_ca": ["string"], </pre>

Parameter	Value	Description	Parameter Type	Data Type
				<pre> "ingress_vip_pool_id": "string", "ingress_vips": ["string"], "helm_charts": [{ "helmchart_uuid": "string", "cluster_UUID": "string", "chart_url": "string", "name": "string", "options": "string" }], "master_vip_addr_id": "string", "master_vip": "string", "master_mac_addresses": ["string"], "load_balancer_ip_num": 0, "load_balancer_ip_info_list": [{ "IPInfo": { "id": 0, "uuid": "string", "ip": "string", "subnet": "string", "gateway": "string", "nameservers": ["string"], "netmask": "string", "mtu": 0 }, "never_release": true }], "node_pools": [{}], "is_istio_enabled": true, "is_harbor_enabled": true, "harbor_registry_size": "string", "harbor_admin_server_password": "string", "master_node_pool": {}, "worker_node_pool": {}, "storage_class": "string", "aws_iam_enabled": true, "aws_iam_role_arn": "string", "etcd_encrypted": true } </pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			

201 HTTP Status Code

Created cluster successfully Reason

Model Example Value Response Model

Headers

```
{
  "uuid": "string",
  "provider_client_config_uuid": "string",
  "aci_profile_uuid": "string",
  "name": "string",
  "description": "string",
  "workers": 0,
  "masters": 0,
  "state": "string",
  "template": "string",
  "ssh_user": "string",
  "ssh_key": "string",
  "Infra": {},
  "labels": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "nodes": [
    {
      "uuid": "string",
      "name": "string",
      "ip_info": [
        {
          "IPInfo": {
            "id": 0,
            "uuid": "string",
            "ip": "string",
            "subnet": "string",
            "gateway": "string",
            "nameservers": [
              "string"
            ],
            "netmask": "string",
            "mtu": 0
          },
          "if_name": "string"
        }
      ],
      "public_ip": "string",
      "private_ip": "string",
      "is_master": true,
      "state": "string",
      "cloud_init_data": "string",
      "kubernetes_version": "string",
      "error_log": "string",
      "template": "string",
      "mac_addresses": [
        "string"
      ],
      "node_pool_type": "string",
      "node_pool_id": 0
    }
  ],
  "deployer": {
```

HTTP Status Code	Reason	Response Model	Headers
		<pre> "provider_type": "string", "provider": { "vsphere_datacenter": "string", "vsphere_datastore": "string", "vsphere_scsi_controller_type": "string", "vsphere_working_dir": "string", "vsphere_client_config_uuid": "string", "client_config;omitempty": { "ip": "string", "port": 0, "username": "string", "password": "string" } } }, "kubernetes_version": "string", "cluster_env_url": "string", "cluster_dashboard_url": "string", "network_plugin": { "name": "string", "status": "string", "details": "string" }, "node_ip_pool_uuid": "string", "ccp_private_ssh_key": "string", "ccp_public_ssh_key": "string", "ntp_pools": ["string"], "ntp_servers": ["string"], "is_control_cluster": true, "is_adopt": true, "registries_self_signed": ["string"], "registries_insecure": ["string"], "registries_root_ca": ["string"], "ingress_vip_pool_id": "string", "ingress_vips": ["string"], "helm_charts": [{ "helmchart_uuid": "string", "cluster_UUID": "string", "chart_url": "string", "name": "string", "options": "string" }], "master_vip_addr_id": "string", </pre>	

HTTP Status Code	Reason	Response Model	Headers
		<pre> "master_vip": "string", "master_mac_addresses": ["string"], "load_balancer_ip_num": 0, "load_balancer_ip_info_list": [{ "IPInfo": { "id": 0, "uuid": "string", "ip": "string", "subnet": "string", "gateway": "string", "nameservers": ["string"], "netmask": "string", "mtu": 0 }, "never_release": true }], "node_pools": [{}], "is_istio_enabled": true, "is_harbor_enabled": true, "harbor_registry_size": "string", "harbor_admin_server_password": "string", "master_node_pool": {}, "worker_node_pool": {}, "storage_class": "string", "aws_iam_enabled": true, "aws_iam_role_arn": "string", "etcd_encrypted": true } </pre>	
400	Bad request		
401	Unauthorized		

Try it out!

DELETE /2/clusters/{clusterUUID} Delete a cluster

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
204	Deleted cluster successfully		
401	Unauthorized		
404	Cluster not found		

Try it out!

PATCH /2/clusters/{clusterUUID}

Patch a cluster

Response Class (Status 200)

Cluster patched successfully

Model | Example Value

```
{
  "uuid": "string",
  "provider_client_config_uuid": "string",
  "aci_profile_uuid": "string",
  "name": "string",
  "description": "string",
  "workers": 0,
  "masters": 0,
  "state": "string",
  "template": "string",
  "ssh_user": "string",
  "ssh_key": "string",
  "Infra": {},
  "labels": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "nodes": [
    {
      "uuid": "string",
      "name": "string",
      "ip_info": [
        {
          "IPInfo": {
            "id": 0,
            "uuid": "string",
            "ip": "string",
            "subnet": "string",
            "gateway": "string",
            "nameservers": [
              "string"
            ]
          }
        }
      ]
    }
  ]
}
```



```
    ],
    "netmask": "string",
    "mtu": 0
  },
  "if_name": "string"
}
],
"public_ip": "string",
"private_ip": "string",
"is_master": true,
"state": "string",
"cloud_init_data": "string",
"kubernetes_version": "string",
"error_log": "string",
"template": "string",
"mac_addresses": [
  "string"
],
"node_pool_type": "string",
"node_pool_id": 0
}
],
"deployer": {
  "provider_type": "string",
  "provider": {
    "vsphere_datacenter": "string",
    "vsphere_datastore": "string",
    "vsphere_scsi_controller_type": "string",
    "vsphere_working_dir": "string",
    "vsphere_client_config_uuid": "string",
    "client_config;omitempty": {
      "ip": "string",
      "port": 0,
      "username": "string",
      "password": "string"
    }
  }
}
},
"kubernetes_version": "string",
"cluster_env_url": "string",
"cluster_dashboard_url": "string",
"network_plugin": {
  "name": "string",
  "status": "string",
  "details": "string"
},
"node_ip_pool_uuid": "string",
"ccp_private_ssh_key": "string",
"ccp_public_ssh_key": "string",
"ntp_pools": [
  "string"
],

```

```
"ntp_servers": [
  "string"
],
"is_control_cluster": true,
"is_adopt": true,
"registries_self_signed": [
  "string"
],
"registries_insecure": [
  "string"
],
"registries_root_ca": [
  "string"
],
"ingress_vip_pool_id": "string",
"ingress_vips": [
  "string"
],
"helm_charts": [
  {
    "helmchart_uuid": "string",
    "cluster_UUID": "string",
    "chart_url": "string",
    "name": "string",
    "options": "string"
  }
],
"master_vip_addr_id": "string",
"master_vip": "string",
"master_mac_addresses": [
  "string"
],
"load_balancer_ip_num": 0,
"load_balancer_ip_info_list": [
  {
    "IPInfo": {
      "id": 0,
      "uuid": "string",
      "ip": "string",
      "subnet": "string",
      "gateway": "string",
      "nameservers": [
        "string"
      ],
      "netmask": "string",
      "mtu": 0
    },
    "never_release": true
  }
],
"node_pools": [
  {}
]
```

```

],
"is_istio_enabled": true,
"is_harbor_enabled": true,
"harbor_registry_size": "string",
"harbor_admin_server_password": "string",
"master_node_pool": {},
"worker_node_pool": {},
"storage_class": "string",
"aws_iam_enabled": true,
"aws_iam_role_arn": "string",
"etcd_encrypted": true
}

```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	(required)		body	Model Example Value
	<div style="border: 1px solid #ccc; width: 100px; height: 100px; margin: 0 auto;"></div> <p>Parameter content type: <input type="text" value="application/json"/></p>			<pre> { "uuid": "string", "provider_client_config_uuid": "string", "aci_profile_uuid": "string", "name": "string", "description": "string", "workers": 0, "masters": 0, "state": "string", "template": "string", "ssh_user": "string", "ssh_key": "string", "Infra": {}, "labels": [{ "key": "string", "value": "string" }], "nodes": [{ "uuid": "string", "name": "string", "ip_info": [{ "IPInfo": { "id": 0, "uuid": "string", "ip": "string", "subnet": "string", "gateway": "string", "nameservers": ["string"], "netmask": "string", </pre>

Parameter	Value	Description	Parameter Type	Data Type
				<pre> "mtu": 0 }, "if_name": "string" }], "public_ip": "string", "private_ip": "string", "is_master": true, "state": "string", "cloud_init_data": "string", "kubernetes_version": "string", "error_log": "string", "template": "string", "mac_addresses": ["string"], "node_pool_type": "string", "node_pool_id": 0 }], "deployer": { "provider_type": "string", "provider": { "vsphere_datacenter": "string", "vsphere_datastore": "string", "vsphere_scsi_controller_type": "string", "vsphere_working_dir": "string", "vsphere_client_config_uuid": "string", "client_config;omitempty": { "ip": "string", "port": 0, "username": "string", "password": "string" } } }], "kubernetes_version": "string", "cluster_env_url": "string", "cluster_dashboard_url": "string", "network_plugin": { "name": "string", "status": "string", "details": "string" }, "node_ip_pool_uuid": "string", "ccp_private_ssh_key": "string", "ccp_public_ssh_key": "string", "ntp_pools": ["string"], "ntp_servers": ["string"], "is_control_cluster": true, "is_adopt": true, "registries_self_signed": ["string" </pre>

Parameter	Value	Description	Parameter Type	Data Type
				<pre>], "registries_insecure": ["string"], "registries_root_ca": ["string"], "ingress_vip_pool_id": "string", "ingress_vips": ["string"], "helm_charts": [{ "helmchart_uuid": "string", "cluster_UUID": "string", "chart_url": "string", "name": "string", "options": "string" }], "master_vip_addr_id": "string", "master_vip": "string", "master_mac_addresses": ["string"], "load_balancer_ip_num": 0, "load_balancer_ip_info_list": [{ "IPInfo": { "id": 0, "uuid": "string", "ip": "string", "subnet": "string", "gateway": "string", "nameservers": ["string"], "netmask": "string", "mtu": 0 }, "never_release": true }], "node_pools": [{}], "is_istio_enabled": true, "is_harbor_enabled": true, "harbor_registry_size": "string", "harbor_admin_server_password": "string", "master_node_pool": {}, "worker_node_pool": {}, "storage_class": "string", "aws_iam_enabled": true, "aws_iam_role_arn": "string", "etcd_encrypted": true } </pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	Cluster not found		

default

Try it out!

PUT /2/clusters/{clusterUUID}

Update a cluster

Response Class (Status 200)

Cluster updated successfully

Model | Example Value

```
{
  "uuid": "string",
  "provider_client_config_uuid": "string",
  "aci_profile_uuid": "string",
  "name": "string",
  "description": "string",
  "workers": 0,
  "masters": 0,
  "state": "string",
  "template": "string",
  "ssh_user": "string",
  "ssh_key": "string",
  "Infra": {},
  "labels": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "nodes": [
    {
      "uuid": "string",
      "name": "string",
      "ip_info": [
        {
          "IPInfo": {
            "id": 0,
            "uuid": "string",
            "ip": "string",
            "subnet": "string",
            "gateway": "string",
            "nameservers": [
```

```
        "string"
      ],
      "netmask": "string",
      "mtu": 0
    },
    "if_name": "string"
  }
],
"public_ip": "string",
"private_ip": "string",
"is_master": true,
"state": "string",
"cloud_init_data": "string",
"kubernetes_version": "string",
"error_log": "string",
"template": "string",
"mac_addresses": [
  "string"
],
"node_pool_type": "string",
"node_pool_id": 0
}
],
"deployer": {
  "provider_type": "string",
  "provider": {
    "vsphere_datacenter": "string",
    "vsphere_datastore": "string",
    "vsphere_scsi_controller_type": "string",
    "vsphere_working_dir": "string",
    "vsphere_client_config_uuid": "string",
    "client_config;omitempty": {
      "ip": "string",
      "port": 0,
      "username": "string",
      "password": "string"
    }
  }
}
},
"kubernetes_version": "string",
"cluster_env_url": "string",
"cluster_dashboard_url": "string",
"network_plugin": {
  "name": "string",
  "status": "string",
  "details": "string"
},
"node_ip_pool_uuid": "string",
"ccp_private_ssh_key": "string",
"ccp_public_ssh_key": "string",
"ntp_pools": [
  "string"
```

```
],
"ntp_servers": [
  "string"
],
"is_control_cluster": true,
"is_adopt": true,
"registries_self_signed": [
  "string"
],
"registries_insecure": [
  "string"
],
"registries_root_ca": [
  "string"
],
"ingress_vip_pool_id": "string",
"ingress_vips": [
  "string"
],
"helm_charts": [
  {
    "helmchart_uuid": "string",
    "cluster_UUID": "string",
    "chart_url": "string",
    "name": "string",
    "options": "string"
  }
],
"master_vip_addr_id": "string",
"master_vip": "string",
"master_mac_addresses": [
  "string"
],
"load_balancer_ip_num": 0,
"load_balancer_ip_info_list": [
  {
    "IPInfo": {
      "id": 0,
      "uuid": "string",
      "ip": "string",
      "subnet": "string",
      "gateway": "string",
      "nameservers": [
        "string"
      ],
      "netmask": "string",
      "mtu": 0
    },
    "never_release": true
  }
],
"node_pools": [
```



```

    {}
  ],
  "is_istio_enabled": true,
  "is_harbor_enabled": true,
  "harbor_registry_size": "string",
  "harbor_admin_server_password": "string",
  "master_node_pool": {},
  "worker_node_pool": {},
  "storage_class": "string",
  "aws_iam_enabled": true,
  "aws_iam_role_arn": "string",
  "etcd_encrypted": true
}

```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	(required)		body	Model Example Value
	<div style="border: 1px solid #ccc; height: 100px; width: 100%;"></div> <p>Parameter content type: <input type="text" value="application/json"/></p>			<pre> { "uuid": "string", "provider_client_config_uuid": "string", "aci_profile_uuid": "string", "name": "string", "description": "string", "workers": 0, "masters": 0, "state": "string", "template": "string", "ssh_user": "string", "ssh_key": "string", "Infra": {}, "labels": [{ "key": "string", "value": "string" }], "nodes": [{ "uuid": "string", "name": "string", "ip_info": [{ "IPInfo": { "id": 0, "uuid": "string", "ip": "string", "subnet": "string", "gateway": "string", "nameservers": ["string"] } }] }] } </pre>

Parameter	Value	Description	Parameter Type	Data Type
				<pre> "netmask": "string", "mtu": 0 }, "if_name": "string" }], "public_ip": "string", "private_ip": "string", "is_master": true, "state": "string", "cloud_init_data": "string", "kubernetes_version": "string", "error_log": "string", "template": "string", "mac_addresses": ["string"], "node_pool_type": "string", "node_pool_id": 0 }], "deployer": { "provider_type": "string", "provider": { "vsphere_datacenter": "string", "vsphere_datastore": "string", "vsphere_scsi_controller_type": "string", "vsphere_working_dir": "string", "vsphere_client_config_uuid": "string", "client_config;omitempty": { "ip": "string", "port": 0, "username": "string", "password": "string" } } }, "kubernetes_version": "string", "cluster_env_url": "string", "cluster_dashboard_url": "string", "network_plugin": { "name": "string", "status": "string", "details": "string" }, "node_ip_pool_uuid": "string", "ccp_private_ssh_key": "string", "ccp_public_ssh_key": "string", "ntp_pools": ["string"], "ntp_servers": ["string"], "is_control_cluster": true, "is_adopt": true, "registries_self_signed": [</pre>

Parameter	Value	Description	Parameter Type	Data Type
				<pre> "string"], "registries_insecure": ["string"], "registries_root_ca": ["string"], "ingress_vip_pool_id": "string", "ingress_vips": ["string"], "helm_charts": [{ "helmchart_uuid": "string", "cluster_UUID": "string", "chart_url": "string", "name": "string", "options": "string" }], "master_vip_addr_id": "string", "master_vip": "string", "master_mac_addresses": ["string"], "load_balancer_ip_num": 0, "load_balancer_ip_info_list": [{ "IPInfo": { "id": 0, "uuid": "string", "ip": "string", "subnet": "string", "gateway": "string", "nameservers": ["string"], "netmask": "string", "mtu": 0 }, "never_release": true }], "node_pools": [{}], "is_istio_enabled": true, "is_harbor_enabled": true, "harbor_registry_size": "string", "harbor_admin_server_password": "string", "master_node_pool": {}, "worker_node_pool": {}, "storage_class": "string", "aws_iam_enabled": true, "aws_iam_role_arn": "string", </pre>

Parameter	Value	Description	Parameter Type	Data Type
				"etcd_encrypted": true }

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	Cluster not found		

default

Try it out!

GET /2/clusters/{clusterName}

Get a cluster by name

Response Class (Status 200)

Cluster found

Model | Example Value

```
{
  "uuid": "string",
  "provider_client_config_uuid": "string",
  "aci_profile_uuid": "string",
  "name": "string",
  "description": "string",
  "workers": 0,
  "masters": 0,
  "state": "string",
  "template": "string",
  "ssh_user": "string",
  "ssh_key": "string",
  "Infra": {},
  "labels": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "nodes": [
    {
      "uuid": "string",
      "name": "string",
      "ip_info": [
        {
          "IPInfo": {
            "id": 0,
            "uuid": "string",
```

```
    "ip": "string",
    "subnet": "string",
    "gateway": "string",
    "nameservers": [
      "string"
    ],
    "netmask": "string",
    "mtu": 0
  },
  "if_name": "string"
}
],
"public_ip": "string",
"private_ip": "string",
"is_master": true,
"state": "string",
"cloud_init_data": "string",
"kubernetes_version": "string",
"error_log": "string",
"template": "string",
"mac_addresses": [
  "string"
],
"node_pool_type": "string",
"node_pool_id": 0
}
],
"deployer": {
  "provider_type": "string",
  "provider": {
    "vsphere_datacenter": "string",
    "vsphere_datastore": "string",
    "vsphere_scsi_controller_type": "string",
    "vsphere_working_dir": "string",
    "vsphere_client_config_uuid": "string",
    "client_config;omitempty": {
      "ip": "string",
      "port": 0,
      "username": "string",
      "password": "string"
    }
  }
}
},
"kubernetes_version": "string",
"cluster_env_url": "string",
"cluster_dashboard_url": "string",
"network_plugin": {
  "name": "string",
  "status": "string",
  "details": "string"
},
"node_ip_pool_uuid": "string",
```

```
"ccp_private_ssh_key": "string",
"ccp_public_ssh_key": "string",
"ntp_pools": [
  "string"
],
"ntp_servers": [
  "string"
],
"is_control_cluster": true,
"is_adopt": true,
"registries_self_signed": [
  "string"
],
"registries_insecure": [
  "string"
],
"registries_root_ca": [
  "string"
],
"ingress_vip_pool_id": "string",
"ingress_vips": [
  "string"
],
"helm_charts": [
  {
    "helmchart_uuid": "string",
    "cluster_UUID": "string",
    "chart_url": "string",
    "name": "string",
    "options": "string"
  }
],
"master_vip_addr_id": "string",
"master_vip": "string",
"master_mac_addresses": [
  "string"
],
"load_balancer_ip_num": 0,
"load_balancer_ip_info_list": [
  {
    "IPInfo": {
      "id": 0,
      "uuid": "string",
      "ip": "string",
      "subnet": "string",
      "gateway": "string",
      "nameservers": [
        "string"
      ],
      "netmask": "string",
      "mtu": 0
    }
  },

```

```

    "never_release": true
  }
],
"node_pools": [
  {}
],
"is_istio_enabled": true,
"is_harbor_enabled": true,
"harbor_registry_size": "string",
"harbor_admin_server_password": "string",
"master_node_pool": {},
"worker_node_pool": {},
"storage_class": "string",
"aws_iam_enabled": true,
"aws_iam_role_arn": "string",
"etcd_encrypted": true
}

```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterName	<input type="text" value="(required)"/>	Cluster Name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	Cluster not found		

default

[Try it out!](#)

PATCH /2/clusters/{clusterUUID}/upgrade

Upgrade a cluster

Response Class (Status 200)

Cluster updated successfully

Model | Example Value

```

{
  "uuid": "string",
  "provider_client_config_uuid": "string",
  "aci_profile_uuid": "string",
  "name": "string",
  "description": "string",
  "workers": 0,

```

```
"masters": 0,
"state": "string",
"template": "string",
"ssh_user": "string",
"ssh_key": "string",
"Infra": {},
"labels": [
  {
    "key": "string",
    "value": "string"
  }
],
"nodes": [
  {
    "uuid": "string",
    "name": "string",
    "ip_info": [
      {
        "IPInfo": {
          "id": 0,
          "uuid": "string",
          "ip": "string",
          "subnet": "string",
          "gateway": "string",
          "nameservers": [
            "string"
          ],
          "netmask": "string",
          "mtu": 0
        },
        "if_name": "string"
      }
    ],
    "public_ip": "string",
    "private_ip": "string",
    "is_master": true,
    "state": "string",
    "cloud_init_data": "string",
    "kubernetes_version": "string",
    "error_log": "string",
    "template": "string",
    "mac_addresses": [
      "string"
    ],
    "node_pool_type": "string",
    "node_pool_id": 0
  }
],
"deployer": {
  "provider_type": "string",
  "provider": {
    "vsphere_datacenter": "string",
```



```
"vsphere_datastore": "string",
"vsphere_scsi_controller_type": "string",
"vsphere_working_dir": "string",
"vsphere_client_config_uuid": "string",
"client_config;omitempty": {
  "ip": "string",
  "port": 0,
  "username": "string",
  "password": "string"
}
},
"kubernetes_version": "string",
"cluster_env_url": "string",
"cluster_dashboard_url": "string",
"network_plugin": {
  "name": "string",
  "status": "string",
  "details": "string"
},
"node_ip_pool_uuid": "string",
"ccp_private_ssh_key": "string",
"ccp_public_ssh_key": "string",
"ntp_pools": [
  "string"
],
"ntp_servers": [
  "string"
],
"is_control_cluster": true,
"is_adopt": true,
"registries_self_signed": [
  "string"
],
"registries_insecure": [
  "string"
],
"registries_root_ca": [
  "string"
],
"ingress_vip_pool_id": "string",
"ingress_vips": [
  "string"
],
"helm_charts": [
  {
    "helmchart_uuid": "string",
    "cluster_UUID": "string",
    "chart_url": "string",
    "name": "string",
    "options": "string"
  }
]
```

```

],
"master_vip_addr_id": "string",
"master_vip": "string",
"master_mac_addresses": [
  "string"
],
"load_balancer_ip_num": 0,
"load_balancer_ip_info_list": [
  {
    "IPInfo": {
      "id": 0,
      "uuid": "string",
      "ip": "string",
      "subnet": "string",
      "gateway": "string",
      "nameservers": [
        "string"
      ],
      "netmask": "string",
      "mtu": 0
    },
    "never_release": true
  }
],
"node_pools": [
  {}
],
"is_istio_enabled": true,
"is_harbor_enabled": true,
"harbor_registry_size": "string",
"harbor_admin_server_password": "string",
"master_node_pool": {},
"worker_node_pool": {},
"storage_class": "string",
"aws_iam_enabled": true,
"aws_iam_role_arn": "string",
"etcd_encrypted": true
}

```

Response Content Type ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	(required)		body	Model Example Value
				<pre> { "uuid": "string", "provider_client_config_uuid": "string", "aci_profile_uuid": "string", "name": "string", "description": "string", </pre>

Parameter	Parameter content type: Value	Description	Parameter Type	Data Type
	application/json ▼			<pre> "workers": 0, "masters": 0, "state": "string", "template": "string", "ssh_user": "string", "ssh_key": "string", "Infra": {}, "labels": [{ "key": "string", "value": "string" }], "nodes": [{ "uuid": "string", "name": "string", "ip_info": [{ "IPInfo": { "id": 0, "uuid": "string", "ip": "string", "subnet": "string", "gateway": "string", "nameservers": ["string"], "netmask": "string", "mtu": 0 }, "if_name": "string" }], "public_ip": "string", "private_ip": "string", "is_master": true, "state": "string", "cloud_init_data": "string", "kubernetes_version": "string", "error_log": "string", "template": "string", "mac_addresses": ["string"], "node_pool_type": "string", "node_pool_id": 0 }], "deployer": { "provider_type": "string", "provider": { "vsphere_datacenter": "string", "vsphere_datastore": "string", "vsphere_scsi_controller_type": "string", "vsphere_working_dir": "string", "vsphere_client_config_uuid": "string", </pre>

Parameter	Value	Description	Parameter Type	Data Type
				<pre> "client_config;omitempty": { "ip": "string", "port": 0, "username": "string", "password": "string" } } }, "kubernetes_version": "string", "cluster_env_url": "string", "cluster_dashboard_url": "string", "network_plugin": { "name": "string", "status": "string", "details": "string" }, "node_ip_pool_uuid": "string", "ccp_private_ssh_key": "string", "ccp_public_ssh_key": "string", "ntp_pools": ["string"], "ntp_servers": ["string"], "is_control_cluster": true, "is_adopt": true, "registries_self_signed": ["string"], "registries_insecure": ["string"], "registries_root_ca": ["string"], "ingress_vip_pool_id": "string", "ingress_vips": ["string"], "helm_charts": [{ "helmchart_uuid": "string", "cluster_UUID": "string", "chart_url": "string", "name": "string", "options": "string" }], "master_vip_addr_id": "string", "master_vip": "string", "master_mac_addresses": ["string"], "load_balancer_ip_num": 0, "load_balancer_ip_info_list": [{ </pre>

Parameter	Value	Description	Parameter Type	Data Type
				<pre> "IPInfo": { "id": 0, "uuid": "string", "ip": "string", "subnet": "string", "gateway": "string", "nameservers": ["string"], "netmask": "string", "mtu": 0 }, "never_release": true }], "node_pools": [{}], "is_istio_enabled": true, "is_harbor_enabled": true, "harbor_registry_size": "string", "harbor_admin_server_password": "string", "master_node_pool": {}, "worker_node_pool": {}, "storage_class": "string", "aws_iam_enabled": true, "aws_iam_role_arn": "string", "etcd_encrypted": true } </pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	Cluster not found		

default

Try it out!

GET </2/clusters/{clusterID}/authz> List authorizations for a cluster

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterID	<input type="text" value="(required)"/>	Cluster UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

HTTP Status Code	Reason	Response Model	Headers
200	OK		
401	Unauthorized		
404	Record not found		

default

[Try it out!](#)

POST `/2/clusters/{clusterID}/authz` Add authorization for a cluster

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterID	<input type="text" value="(required)"/>	Cluster UUID	path	string

body

Parameter content type:

Model	Example Value
	<pre>{ "Name": "string", "Local": true }</pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
201	OK		
		Model Example Value	
		<pre>{ "AuthID": "string", "Name": "string", "Local": true }</pre>	
401	Unauthorized		
404	Record not found		

[Try it out!](#)

DELETE `/2/clusters/{clusterID}/authz/{authID}` Delete authorization for a cluster

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterID	<input type="text" value="(required)"/>	Cluster UUID	path	string
authID	<input type="text" value="(required)"/>	Authorization UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
204			
401	Unauthorized		
404	Record not found		

Try it out!

GET </2/clusters/{clusterUUID}/dashboard> [Get dashboard](#)

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	OK		
404	Record not found		

default

Try it out!

GET </2/clusters/{clusterUUID}/env> [Get cluster environment](#)

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

HTTP Status Code	Reason	Response Model	Headers
200	OK		
404	Record not found		

default

Try it out!

DELETE /2/clusters/{clusterUUID}/helmcharts/{HelmChartUUID} Delete helm chart for cluster

Parameters

Parameter	Value	Description	Parameter Type	Data Type
HelmChartUUID	<input type="text" value="(required)"/>	HelmChartUUID	path	string
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200			
204	Deleted helm chart successfully	Model Example Value	

```

{
  "helmchart_uuid": "string",
  "cluster_uuid": "string",
  "chart_url": "string",
  "name": "string",
  "options": "string"
}

```

401	Unauthorized		
404	HelmChart not found		

Try it out!

GET /2/clusters/{clusterUUID}/helmcharts Get HelmCharts object for a given cluster

Response Class (Status 200)

HelmCharts found

Model | Example Value

```

{
  "helmchart_uuid": "string",

```



```
"cluster_UUID": "string",
"chart_url": "string",
"name": "string",
"options": "string"
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	HelmCharts not found		

default

POST /2/clusters/{clusterUUID}/helmcharts

Create a helmChart for cluster with the given specification

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string

body	(required)	body	Model	Example Value
	<input type="text" value="(required)"/>			<pre>{ "helmchart_uuid": "string", "cluster_UUID": "string", "chart_url": "string", "name": "string", "options": "string" }</pre>

Parameter content type:

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			

HTTP Status Code	Reason	Response Model	Headers
201	Created helmChart successfully	Model Example Value	
		<pre>{ "helmchart_uuid": "string", "cluster_UUID": "string", "chart_url": "string", "name": "string", "options": "string" }</pre>	
400	Bad request		
401	Unauthorized		

[Try it out!](#)

POST /2/clusters/{clusterUUID}/nodepools Create a node pool for a cluster

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string

body	Value	Parameter Type	Model Example Value
	<input type="text" value="(required)"/> Parameter content type: <input type="text" value="application/json"/>	body	<pre>{ "name": "string", "size": 0, "labels": "string", "taints": "string", "node_ip_pool_uuid": "string", "vcpus": 0, "memory": 0, "template": "string" }</pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
201	Created nodepool successfully	Model Example Value	
		<pre>{ "NodePool": {} }</pre>	
400	Bad request		

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	Cluster not found		

[Try it out!](#)

DELETE `/2/clusters/{clusterUUID}/nodepools/{nodePoolID}` Delete a node pool from a cluster

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string
nodePoolID	<input type="text" value="(required)"/>	Node Pool ID	path	integer

Response Messages

HTTP Status Code	Reason	Response Model	Headers				
200							
204	Deleted nodepool successfully	<table border="1"> <thead> <tr> <th>Model</th> <th>Example Value</th> </tr> </thead> <tbody> <tr> <td></td> <td><input type="text" value="{}"/></td> </tr> </tbody> </table>	Model	Example Value		<input type="text" value="{}"/>	
Model	Example Value						
	<input type="text" value="{}"/>						
401	Unauthorized						
404	Cluster or NodePool not found						

[Try it out!](#)

PATCH `/2/clusters/{clusterUUID}/nodepools/{nodePoolID}` Update a node pool in a cluster

Parameters

Parameter	Value	Description	Parameter Type	Data Type
clusterUUID	<input type="text" value="(required)"/>	Cluster UUID	path	string
nodePoolID	<input type="text" value="(required)"/>	Node Pool ID	path	integer

Parameter	Value	Description	Parameter Type	Data Type
body	(required)		body	Model Example Value
				<pre>{ "size": 0 }</pre>
	Parameter content type:			application/json ▼

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
204	Updated nodepool successfully	Model Example Value	
		<pre>{}</pre>	
400	Bad request		
401	Unauthorized		
404	Cluster or NodePool not found		

Try it out!

2/ldap : List of ldap endpoints

GET /2/ldap/setup

[Get LDAP parameters](#)

Response Class (Status 200)

OK

Model | Example Value

```
{
  "Server": "string",
  "Port": 0,
  "BaseDN": "string",
  "ServiceAccountDN": "string",
  "ServiceAccountPassword": "string",
  "StartTLS": true,
  "InsecureSkipVerify": true
}
```

Response Content Type application/json ▼

Response Messages

HTTP Status Code

Reason

Response Model

Headers

default

Model | Example Value

```

{
  "Server": "string",
  "Port": 0,
  "BaseDN": "string",
  "ServiceAccountDN": "string",
  "ServiceAccountPassword": "string",
  "StartTLS": true,
  "InsecureSkipVerify": true
}

```

Try it out!

PUT /2/ldap/setup

Setup/update LDAP parameters

Response Class (Status 200)

OK

Model | Example Value

```

{
  "Server": "string",
  "Port": 0,
  "BaseDN": "string",
  "ServiceAccountDN": "string",
  "ServiceAccountPassword": "string",
  "StartTLS": true,
  "InsecureSkipVerify": true
}

```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

body

(required)

Parameter content type:

body

Model | Example Value

```

{
  "Server": "string",
  "Port": 0,
  "BaseDN": "string",
  "ServiceAccountDN": "string",
  "ServiceAccountPassword": "string",
  "StartTLS": true,
  "InsecureSkipVerify": true
}

```

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

Model | Example Value

```
{
  "Server": "string",
  "Port": 0,
  "BaseDN": "string",
  "ServiceAccountDN": "string",
  "ServiceAccountPassword": "string",
  "StartTLS": true,
  "InsecureSkipVerify": true
}
```

Try it out!

GET /2/ldap/groups

Get CX LDAP Groups

Parameters

Parameter	Value	Description	Parameter Type	Data Type
dn	<input type="text"/>	LDAP DN	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200 OK

default

Try it out!

POST /2/ldap/groups

Create CX LDAP Group

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	(required)		body	Model Example Value

```
{
  "LdapDN": "string",
  "Role": "string"
}
```

Parameter content type:

application/json ▼

Response Messages

HTTP Status Code	Reason	Response Model	Headers				
200							
201		<table><thead><tr><th>Model</th><th>Example Value</th></tr></thead><tbody><tr><td></td><td><pre>{ "LdapDN": "string", "Role": "string" }</pre></td></tr></tbody></table>	Model	Example Value		<pre>{ "LdapDN": "string", "Role": "string" }</pre>	
Model	Example Value						
	<pre>{ "LdapDN": "string", "Role": "string" }</pre>						

Try it out!

PUT /2/ldap/groups

Update a CX LDAP Group.

Response Class (Status 200)

Model | Example Value

```
{
  "LdapDN": "string",
  "Role": "string"
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type				
body	(required)		body	<table><thead><tr><th>Model</th><th>Example Value</th></tr></thead><tbody><tr><td></td><td><pre>{ "LdapDN": "string", "Role": "string" }</pre></td></tr></tbody></table>	Model	Example Value		<pre>{ "LdapDN": "string", "Role": "string" }</pre>
Model	Example Value							
	<pre>{ "LdapDN": "string", "Role": "string" }</pre>							

Parameter content type:

Response Messages

HTTP Status Code	Reason	Response Model	Headers
default			

Try it out!

GET /2/ldap/groups/authz

Get CX the cluster authorizations for a CX LDAP group

Parameters

Parameter	Value	Description	Parameter Type	Data Type
dn	<input type="text"/>	LDAP DN	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	OK		

default

Try it out!

DELETE /2/ldap/groups/{ldapDN}

Delete CX LDAP Group specified by LDAP DN

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			

204

Try it out!

2/license : List of licensing endpoints

DELETE /2/license/{resource}

Refer to the smart licensing documentation

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			

Try it out!

GET /2/license/{resource}

Refer to the smart licensing documentation

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			

Try it out!

DELETE /2/license/{resource}/{agentID}

[Refer to the smart licensing documentation](#)

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

GET /2/license/{resource}/{agentID}

[Refer to the smart licensing documentation](#)

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

POST /2/license/{resource}/{agentID}

[Refer to the smart licensing documentation](#)

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

2/aci_profiles : List of ACI profile endpoints

GET /2/aci_profiles

[Get all ACI profiles](#)

Response Class (Status 200)

ACI profiles found

Model | Example Value

```
{
  "uuid": "string",
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
  "apic_password": "string",
  "aci_vmm_domain_name": "string",
  "aci_infra_vlan_id": 0,
  "vrf_name": "string",
```

```

"l3_outside_policy_name": "string",
"l3_outside_network_name": "string",
"aaep_name": "string",
"nameservers": [
  "string"
],
"aci_allocator": {
  "node_vlan_start": 0,
  "node_vlan_end": 0,
  "multicast_range": "string",
  "service_subnet_start": "string",
  "pod_subnet_start": "string"
},
"control_plane_contract_name": "string",
"aci_tenant": "string"
}

```

Response Content Type ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
name	<input type="text"/>	search term for profile name	query	string
offset	<input type="text"/>	Page start	query	long
limit	<input type="text"/>	Page size	query	long

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	No ACI profiles found		

default

[Try it out!](#)

POST /2/aci_profiles

Create an ACI profile with the given configuration

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

Parameter	Value	Description	Parameter Type	Data Type				
body	<div style="border: 1px solid #ccc; padding: 5px; min-height: 80px;">(required)</div> <p>Parameter content type: <input type="text" value="application/json"/> ▼</p>		body	<table border="1"> <thead> <tr> <th>Model</th> <th>Example Value</th> </tr> </thead> <tbody> <tr> <td></td> <td> <pre>{ "uuid": "string", "name": "string", "apic_hosts": "string", "apic_username": "string", "apic_password": "string", "aci_vmm_domain_name": "string", "aci_infra_vlan_id": 0, "vrf_name": "string", "l3_outside_policy_name": "string", "l3_outside_network_name": "string", "aaep_name": "string", "nameservers": ["string"], "aci_allocator": { "node_vlan_start": 0, "node_vlan_end": 0, "multicast_range": "string", "service_subnet_start": "string", "pod_subnet_start": "string" }, "control_plane_contract_name": "string", "aci_tenant": "string" }</pre> </td> </tr> </tbody> </table>	Model	Example Value		<pre>{ "uuid": "string", "name": "string", "apic_hosts": "string", "apic_username": "string", "apic_password": "string", "aci_vmm_domain_name": "string", "aci_infra_vlan_id": 0, "vrf_name": "string", "l3_outside_policy_name": "string", "l3_outside_network_name": "string", "aaep_name": "string", "nameservers": ["string"], "aci_allocator": { "node_vlan_start": 0, "node_vlan_end": 0, "multicast_range": "string", "service_subnet_start": "string", "pod_subnet_start": "string" }, "control_plane_contract_name": "string", "aci_tenant": "string" }</pre>
Model	Example Value							
	<pre>{ "uuid": "string", "name": "string", "apic_hosts": "string", "apic_username": "string", "apic_password": "string", "aci_vmm_domain_name": "string", "aci_infra_vlan_id": 0, "vrf_name": "string", "l3_outside_policy_name": "string", "l3_outside_network_name": "string", "aaep_name": "string", "nameservers": ["string"], "aci_allocator": { "node_vlan_start": 0, "node_vlan_end": 0, "multicast_range": "string", "service_subnet_start": "string", "pod_subnet_start": "string" }, "control_plane_contract_name": "string", "aci_tenant": "string" }</pre>							

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			

HTTP Status Code	Reason	Response Model	Headers
201	Created ACI profile successfully	Model Example Value	
		<pre> { "uuid": "string", "name": "string", "apic_hosts": "string", "apic_username": "string", "apic_password": "string", "aci_vmm_domain_name": "string", "aci_infra_vlan_id": 0, "vrf_name": "string", "l3_outside_policy_name": "string", "l3_outside_network_name": "string", "aaep_name": "string", "nameservers": ["string"], "aci_allocator": { "node_vlan_start": 0, "node_vlan_end": 0, "multicast_range": "string", "service_subnet_start": "string", "pod_subnet_start": "string" }, "control_plane_contract_name": "string", "aci_tenant": "string" } </pre>	
400	Bad request		
401	Unauthorized		

[Try it out!](#)

DELETE /2/aci_profiles/{aciProfileUUID} Delete an ACI profile

Parameters

Parameter	Value	Description	Parameter Type	Data Type
aciProfileUUID	<input type="text" value="(required)"/>	ACI profile UUID	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
204	Deleted ACI profile successfully		
401	Unauthorized		
404	ACI profile not found		

Try it out!

PATCH /2/aci_profiles/{aciProfileUUID}

Update an ACI profile

Response Class (Status 200)

ACI profile updated successfully

Model | Example Value

```
{
  "uuid": "string",
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
  "apic_password": "string",
  "aci_vmm_domain_name": "string",
  "aci_infra_vlan_id": 0,
  "vrf_name": "string",
  "l3_outside_policy_name": "string",
  "l3_outside_network_name": "string",
  "aaep_name": "string",
  "nameservers": [
    "string"
  ],
  "aci_allocator": {
    "node_vlan_start": 0,
    "node_vlan_end": 0,
    "multicast_range": "string",
    "service_subnet_start": "string",
    "pod_subnet_start": "string"
  },
  "control_plane_contract_name": "string",
  "aci_tenant": "string"
}
```

Response Content Type ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

Parameter	Value	Description	Parameter Type	Data Type
body	<div style="border: 1px solid #ccc; padding: 5px; min-height: 80px;">(required)</div> <p>Parameter content type: <input type="text" value="application/json"/> ▼</p>		body	<div style="display: flex; border-bottom: 1px solid #ccc;"> <div style="flex: 1; border-right: 1px solid #ccc; padding-right: 5px;">Model</div> <div style="flex: 2; padding-left: 5px;">Example Value</div> </div> <pre style="border: 1px solid #ccc; padding: 10px; margin-top: 5px;"> { "uuid": "string", "name": "string", "apic_hosts": "string", "apic_username": "string", "apic_password": "string", "aci_vmm_domain_name": "string", "aci_infra_vlan_id": 0, "vrf_name": "string", "l3_outside_policy_name": "string", "l3_outside_network_name": "string", "aaep_name": "string", "nameservers": ["string"], "aci_allocator": { "node_vlan_start": 0, "node_vlan_end": 0, "multicast_range": "string", "service_subnet_start": "string", "pod_subnet_start": "string" }, "control_plane_contract_name": "string", "aci_tenant": "string" } </pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	ACI profile not found		

default

[Try it out!](#)

GET /2/aci_profiles/{aciProfileName}

[Get an ACI profile by name](#)

Response Class (Status 200)

ACI profile found

Model | Example Value

```

{
  "uuid": "string",
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",

```

```

"apic_password": "string",
"aci_vmm_domain_name": "string",
"aci_infra_vlan_id": 0,
"vrf_name": "string",
"l3_outside_policy_name": "string",
"l3_outside_network_name": "string",
"aaep_name": "string",
"nameservers": [
  "string"
],
"aci_allocator": {
  "node_vlan_start": 0,
  "node_vlan_end": 0,
  "multicast_range": "string",
  "service_subnet_start": "string",
  "pod_subnet_start": "string"
},
"control_plane_contract_name": "string",
"aci_tenant": "string"
}

```

Response Content Type ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
aciProfileName	<input type="text" value="(required)"/>	ACI profile name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
404	ACI profile not found		

default

[Try it out!](#)

2/keyvalues : List of endpoints for key values

GET /2/keyvalues/{key}

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			

[Try it out!](#)

POST /2/keyvalues/{key}

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

2/aci_api : accessing ACI api

POST /2/aci_api/login

ACI login

Response Class (Status 200)

OK

Model | Example Value

```
{
  "token": "string"
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
-----------	-------	-------------	----------------	-----------

body

(required)

body

Model | Example Value

```
{
  "apic_ips": "string",
  "apic_username": "string",
  "apic_password": "string"
}
```

Parameter content type:

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

default

Try it out!

v3 : CCP v3 API

DELETE /v3/{resource}

forwards v3 API requests to the v3 API service

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

GET /v3/{resource}

forwards v3 API requests to the v3 API service

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

HEAD /v3/{resource}

forwards v3 API requests to the v3 API service

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

PATCH /v3/{resource}

forwards v3 API requests to the v3 API service

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

POST /v3/{resource}

forwards v3 API requests to the v3 API service

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

PUT /v3/{resource}

forwards v3 API requests to the v3 API service

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

200

Try it out!

2/rbac

GET /2/rbac

get the role of the current user

Response Class (Status 200)

OK

Model | Example Value

```
{
  "role": "string"
}
```

Response Content Type

Response Messages

HTTP Status Code	Reason	Response Model	Headers
------------------	--------	----------------	---------

401 Not Authorized

404 Not Found

default

Try it out!

2/localusers

GET /2/localusers

Get CX local users

Parameters

Parameter	Value	Description	Parameter Type	Data Type
name	<input type="text"/>	User Name	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	OK		

default

[Try it out!](#)

POST [/2/localusers](#) Create CX local user

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	(required)		body	Model Example Value

Parameter content type:

```

{
  "Token": "string",
  "UserName": "string",
  "FirstName": "string",
  "LastName": "string",
  "Password": "string",
  "Disable": true,
  "Role": "string"
}

```

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
201		Model Example Value	

```

{}

```

[Try it out!](#)

DELETE [/2/localusers/{username}](#) Delete a local user

Parameters

Parameter	Value	Description	Parameter Type	Data Type
username	(required)	User Name	path	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			

HTTP Status Code

Reason

Response Model

Headers

204

Try it out!

PATCH /2/localusers/{username}

Update a local user. Can provide either or both parameters.

Response Class (Status 200)

OK

Model | Example Value

```

{
  "FirstName": "string",
  "LastName": "string",
  "Disable": true,
  "Role": "string"
}

```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
username	<input type="text" value="(required)"/>	User Name	path	string
body	<input type="text" value="(required)"/>		body	Model Example Value

Parameter content type:

```

{
  "FirstName": "string",
  "LastName": "string",
  "Disable": true,
  "Role": "string"
}

```

Response Messages

HTTP Status Code

Reason

Response Model

Headers

default

Try it out!

PATCH /2/localusers/{username}/password

Update

Parameters

Parameter	Value	Description	Parameter Type	Data Type
body	(required)		body	Model Example Value
	Parameter content type: application/json ▼			<pre>{ "new_password": "string", "logged_in_user_password": "string" }</pre>

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200			
204			
400			
401			
403			

Try it out!

[BASE URL: /]

ERROR { }