



Cisco Container Platform 4.2.0 API Guide

First Published: August 30, 2019

Cisco Systems, Inc.

www.cisco.com

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices.

Abstract

The Cisco Container Platform 4.2.0 API Guide gives information on Cisco Container Platform APIs and development features.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON INFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

Cisco Container Platform 4.2.0 API Guide
© 2019 Cisco Systems, Inc. All rights reserved.

Contents

1	Overview	4
2	Accessing Cisco Container Platform API	4
3	Key Concepts.....	4
3.1	Provider Client Configuration	4
3.2	Cluster	4
3.3	User Management and Authorization	4
3.3.1	LDAP and Local Users.....	4
3.4	Subnets and Virtual IP Address Pools	5
4	Examples of API Use Cases for vSphere Clusters	5
4.1	Creating vSphere Tenant Clusters	5
4.2	Deleting vSphere Tenant Clusters.....	12
4.3	Configuring Windows AD Service Account for Authentication	13
4.4	Managing Windows AD Group Authorizations for Tenant Clusters	16
4.5	Downloading Tenant Cluster KUBECONFIG Environment File.....	20
4.6	Obtaining TC Master and Ingress VIPs.....	21
5	Examples of API Use Cases for AWS EKS Clusters.....	22
5.1	Logging in to Cisco Container Platform	22
5.2	Creating Providers for EKS	22
5.3	Retrieving List of Providers for EKS.....	23
5.4	Retrieving Specific Provider for EKS.....	23
5.5	Modifying Providers for EKS	23
5.6	Deleting Providers for EKS	23
5.7	Creating EKS clusters.....	24
5.8	Retrieving all EKS clusters	25
5.9	Retrieving Specific EKS Clusters	26
5.10	Modifying EKS clusters.....	27
5.11	Deleting EKS clusters.....	27
6	Examples of API Use Cases for vSphere v3 Clusters	28
6.1	Logging in to Cisco Container Platform	28
6.2	Creating Providers for vSphere v3	28
6.3	Retrieving List of Providers	28
6.4	Retrieving Specific Provider	29
6.5	Modifying Providers.....	29
6.6	Deleting Providers.....	30
6.7	Creating vSphere V3 clusters	30
6.8	Retrieving all clusters.....	31
6.9	Retrieving Specific Clusters.....	35
6.10	Deleting clusters	37
6.11	Creating ACI Profile	37
6.12	Creating ACI-enabled vSphere Cluster.....	37
6.13	Updating ACI Profile.....	38
6.14	Deleting ACI Profile	38
6.15	Listing Addons.....	38
6.16	Listing Catalog.....	39
6.17	Adding an Addon.....	39
6.18	Adding a Cisco Container Platform Addon	40

6.19 Adding an Addon with Overrides.....	40
6.20 Deleting an Addon	41
7 Cisco Container Platform API Reference	42

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 v2 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'
```

Response

```
"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[]'
```

Response

```
"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'
```

Response

```
"ccp-tenant-image-1.13.5-4.1.0.ova"
```

```
"ccp-tenant-image-1.12.7-4.1.0.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[]'
```

Response

```
"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[]'
```

Response

```
"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[]"
```

Response

```
"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'
```

Response

```
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'
```

Response

```
"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}/p
ools | jq -r '[0].uuid'
```

Response

```
"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'
```

Response

```

"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

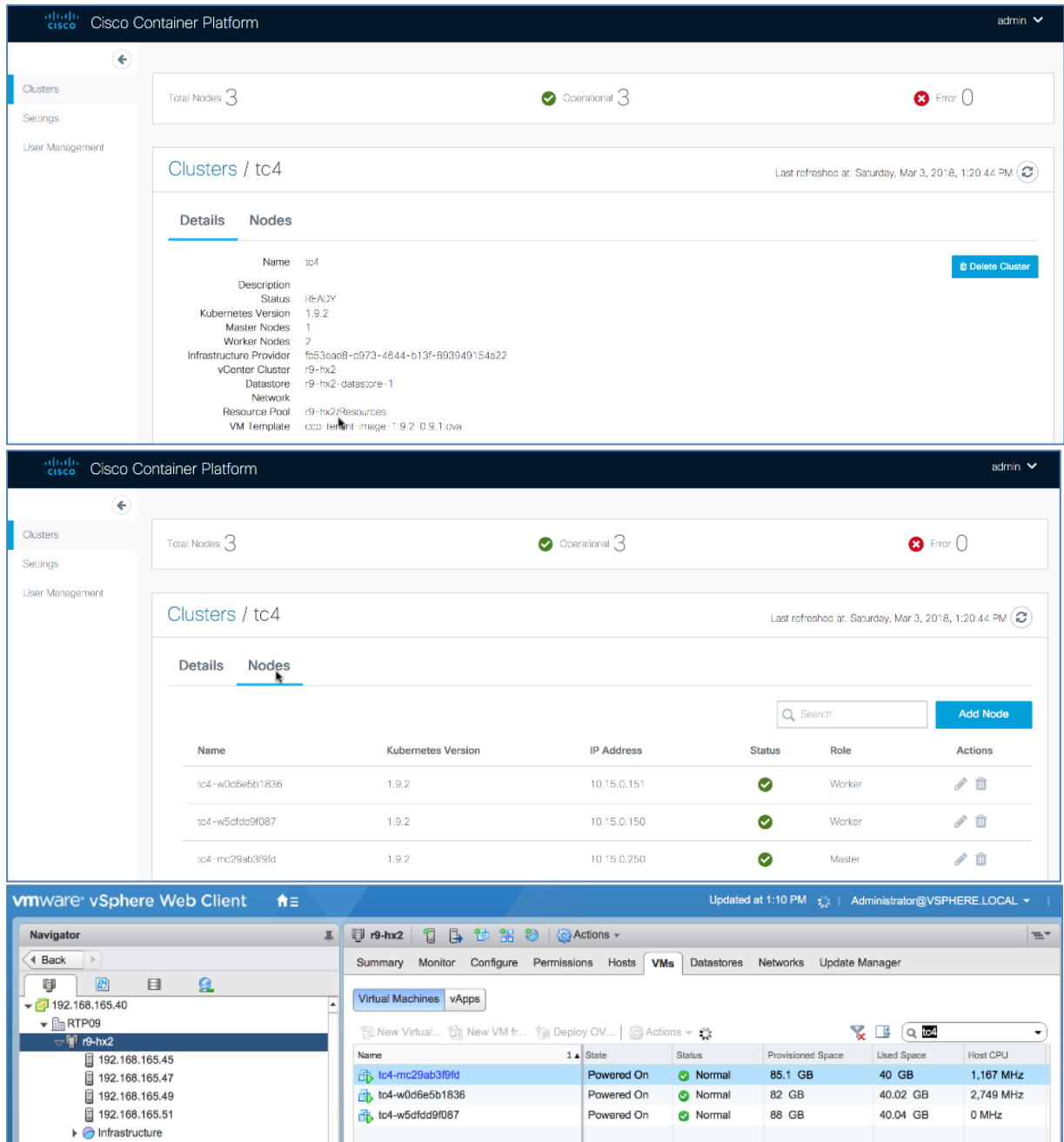
```
kubectl get nodes -o wide
```

Response

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 and the text 'Cisco Container Platform' with a user dropdown menu set to 'admin'. A sidebar on the left contains navigation links for 'Clusters', 'Settings', and 'User Management'. The main content area displays a summary for 'Total Clusters 4' with status indicators for 'Healthy 4', 'Warning 0', and 'Error 0'. Below this is a 'Clusters' table with a search bar and a 'Create Cluster' button. The table lists four clusters: 'tc1' (Tenant Cluster One), 'tc2' (Test Cluster Two), 'tc3', and 'tc4'. The 'tc4' row is highlighted with a yellow border. The table columns are Name, Description, Status, Kubernetes Version, Nodes, and Actions.

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

Response

```
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
```

Response

```
# 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
```

Response

```
{  
  "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
```

Response

```
{
  "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
```

Response

```
{
  "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
```

Response

```
[
  {
    "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'
```

Response

```
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
```

Response

```
{
  "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'
```

Response

```
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
```

15. Export the config file to KUBECONFIG environment variable.

Command

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

Example

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

16. View nodes on the tenant cluster.

Command

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

Example

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

Response

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

17. 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
```

18. 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

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'
```

Response

```
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
```

7. View nodes on the tenant cluster.

Command

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

Example

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

Response

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

4.6 Obtaining TC Master and Ingress VIPs

FOR MASTER

```
`curl -sk -X GET -b temp/cookie.txt
https://$MGMT_HOST/2/clusters/<clustername> | jq '.master_vip`
```

FOR INGRESS VIPs

```
`curl -sk -X GET -b temp/cookie.txt
https://$MGMT_HOST/2/clusters/<cluster> | jq '.ingress_vips`
```

5 Examples of API Use Cases for AWS EKS Clusters

V3 API support providers and clusters for EKS. vSphere and AKS clusters. Sections 5 and 6 give examples for usage with EKS and vSphere respectively using v3 API.

5.1 Logging in to Cisco Container Platform

Command

```
curl -c cookies.txt -k -X POST -d "username=admin&password=<your_password>" -H "Content-Type:application/x-www-form-urlencoded" "https://<ccp_url>/2/system/login"
```

Example

1. Log in to Cisco Container Platform.

```
curl -c cookies.txt -k -X POST -d
"username=admin&password=my_password" -H "Content-
Type:application/x-www-form-urlencoded"
"https://10.20.30.40/2/system/login"
```

2. Retrieve the token from the cookies.txt file created as a result of the above command and then store it in an environment variable like this:

```
$ cat cookies.txt
# Netscape HTTP Cookie File
# https://curl.haxx.se/docs/http-cookies.html
# This file was generated by libcurl! Edit at your own
risk.

10.20.30.40 FALSE / FALSE 0 CXAccessToken
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJBTExfQ0xVU1RFU1
NfQVVUSCI6dHJlZSwiZXhwIjoxNTQ4NjM5MDMyLCJyb2x1IjoiQWRtaW5pc
3RyYXRvciJ9.ypjTZFKKmfuBvRxodu-MLedIkQROVNqHdqXgKKdAv7M
```

3. Set your env variable using the token value obtained from Step 2.

```
export
TOKEN=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJBTExfQ0xVU1RF
U1NfQVVUSCI6dHJlZSwiZXhwIjoxNTQ4NjM5MDMyLCJyb2x1IjoiQWRtaW5pc
3RyYXRvciJ9.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": "ABCDEFGHJKLMNOPQRST",
        "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/
```

Response

```

[
  {
    "access_key_id": "ABCDEFGHJKLMNOPQRST",
    "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/
```

Response

```
{
  "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
```

Response

```

[
  {
    "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/
```

Response

```

[
  {
    "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/
```

Response

```
[
  {
    "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/Kubernetec
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 Examples of API Use Cases for vSphere v3 Clusters

6.1 Logging in to Cisco Container Platform

Commands

```
export CCP=https://<Cisco Container Platform URL>
export TOKEN=$(curl -v -k -X POST \
  -H "Content-Type:application/x-www-form-urlencoded" \
  -d "username=<CCP Username>&password=<CCP Password>" \
  $CCP/v3/system/login 2> >(grep x-auth-token) | \
  grep x-auth-token | awk -F ":" '{print $2}' | tr -d '\n\r')
```

Example

Log in to Cisco Container Platform and get the X-Auth-Token

```
export TOKEN=$(curl -v -k -X POST \
  -H "Content-Type:application/x-www-form-urlencoded" \
  -d "username=admin&password=password" \
  $CCP/v3/system/login 2> >(grep x-auth-token) | \
  grep x-auth-token | awk -F ":" '{print $2}' | tr -d '\n\r')
echo $TOKEN
```

6.2 Creating Providers for vSphere v3

Command

```
curl -k -X POST -H "x-auth-token: $TOKEN" -d \
'{
  "type": "vsphere",
  "name": "name_of_vsphere_provider",
  "address": "vCenter_url",
  "username": "vCenter_username",
  "password": "vCenter_password",
  "port": "vCenter_port",
  "insecure_skip_verify": true_or_false
}' $CCP/v3/providers/
```

Example

```
curl -k -X POST -H "x-auth-token: $TOKEN" -d \
'{
  "type": "vsphere",
  "name": "hx3",
  "address": "vcenter.domain.com",
  "username": "administrator@vsphere.local",
  "password": "password",
  "port": "443",
  "insecure_skip_verify": true
}' $CCP/v3/providers/
```

6.3 Retrieving List of Providers

Command

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

Example

```
curl -k -X GET -H "x-auth-token: $TOKEN" $CCP/v3/providers/
```

6.4 Retrieving Specific Provider

Command

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

Example

```
curl -k -X GET -H "X-Auth-Token: $TOKEN"
$CCP/v3/providers/b54efda6-78c7-4418-9b89-955da6585984/
```

Response

```
{
  "id": "b54efda6-78c7-4418-9b89-955da6585984",
  "type": "vsphere",
  "name": "vcenter",
  "address": " vcenter.domain.com",
  "port": 443,
  "username": "administrator@vsphere.local",
  "insecure_skip_verify": true
}
```

6.5 Modifying Providers

Command

```
curl -k -X PATCH -H "x-auth-token: $TOKEN" -d \
'{
  "type": "vsphere",
  "name": "name_of_vsphere_provider",
  "address": "vCenter_url",
  "username": "vCenter_username",
  "password": "vCenter_password",
  "port": "vCenter_port",
  "insecure_skip_verify": true_or_false
}' $CCP/v3/providers/your_provider_id/
```

Example

```
curl -k -X PATCH -H "x-auth-token: $TOKEN" -d \
'{'
  "type": "vsphere",
  "name": "vcenter-1",
  "address": "vcenter.domain.com",
  "username": "administrator@vsphere.local",
  "password": "password",
  "port": "443",
  "insecure_skip_verify": true
}' $CCP/v3/providers/b54efda6-78c7-4418-9b89-955da6585984/
```

Response

```
{
  "id": "b54efda6-78c7-4418-9b89-955da6585984",
  "type": "vsphere",
  "name": "vcenter-1",
  "address": " vcenter.domain.com",
  "port": 443,
```

```

    "username": "administrator@vsphere.local",
    "insecure_skip_verify": true
  }

```

6.6 Deleting Providers

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"
$CCP/v3/providers/7edd7790-a776-4a91-91f3-0938483dbf78/
```

6.7 Creating vSphere V3 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/

```

Response

```

{
  "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\/KubernetesAdmin",
  "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*.

6.8 Retrieving all clusters

Command

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

Example

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

Response

```
[
```

```

{
  "id": "35de61b9-5175-40d5-bea3-1b058fb22c45",
  "type": "vsphere",
  "name": "demo-cluster",
  "provider": "b54efda6-78c7-4418-9b89-955da6585984",
  "status": "READY",
  "spec": {
    "name": "demo-cluster",
    "type": "vsphere",
    "kubernetes_version": "1.13.5",
    "ip_allocation_method": "ccpnet",
    "master_vip": "",
    "load_balancer_num": 1,
    "subnet_id": "ea042d99-9c69-43f8-ac44-ab0b9c843dcf",
    "ntp_pools": [],
    "ntp_servers": [],
    "root_ca_registries": [],
    "self_signed_registries": {},
    "vsphere_infra": {
      "cluster": "HX3",
      "datacenter": "HX3",
      "datastore": "hx3-data",
      "folder": "",
      "guestOS": "",
      "hostSystem": "",
      "networks": [
        "VLAN 1161 - 10.10.100.0 - 22"
      ],
      "resource_pool": ""
    },
    "master_group": {
      "gpus": [],
      "labels": null,
      "name": "master-group",
      "size": 1,
      "taints": null,
      "template": "ccp-tenant-image-1.13.5-ubuntu18-
4.0.1.ova",
      "vcpus": 2,
      "memory_mb": 16384,
      "ssh_key": "ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAINhzxv/Zy/uHF567CqR1o71Z7Wo4Wk/3+H5APXvlc
RM6",
      "ssh_user": "ccpuser",
      "nodes": [
        {
          "name": "demo-cluster-0-master-0",
          "status": "ERROR",
          "phase": "Running",
          "private_ip": "10.10.100.109",
          "public_ip": "10.10.100.109"
        }
      ]
    },
    "node_groups": [
      {
        "gpus": [],
        "labels": null,
        "name": "node-group",
        "size": 1,
        "taints": null,

```



```

        "template": "ccp-tenant-image-1.13.5-
ubuntu18-4.0.1.ova",
        "vcpus": 2,
        "memory_mb": 16384,
        "ssh_key": "ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAINhzxv/Zy/uHF567CqR1o71Z7Wo4Wk/3+",
        "ssh_user": "ccpuser",
        "nodes": [
            {
                "name": "demo-cluster-1-node-gr-0",
                "status": "READY",
                "phase": "Running",
                "private_ip": "10.10.100.108",
                "public_ip": "10.10.100.108"
            }
        ]
    },
    "network_plugin_profile": {
        "details": {
            "typhaReplicas": "1",
            "pod_cidr": "192.168.0.0/16",
            "ssh_user": "ccpuser"
        },
        "name": "calico"
    },
    "kubernetes_config_secret": "demo-cluster-
kubecfg",
    "ingress_as_lb": true,
    "nginx_ingress_class": "",
    "etcd_encrypted": false,
    "skip_management": null,
    "docker_no_proxy": []
},
"kubecfg": "...",
"kubernetes_version": "1.13.5",
"kubernetes_config_secret": null,
"ip_allocation_method": "ccpnet",
"master_vip": "",
"load_balancer_num": 1,
"subnet_id": "ea042d99-9c69-43f8-ac44-ab0b9c843dcf",
"ntp_pools": [],
"ntp_servers": [],
"root_ca_registries": [],
"self_signed_registries": {},
"insecure_registries": [],
"docker_http_proxy": "",
"docker_https_proxy": "",
"vsphere_infra": {
    "datacenter": "HX3",
    "datastore": "hx3-data",
    "networks": [
        "VLAN 1161 - 10.10.100.0 - 22"
    ],
    "cluster": "HX3",
    "resource_pool": "",
    "folder": ""
},
"master_group": {
    "name": "master-group",
    "size": 1,

```

```

        "template": "ccp-tenant-image-1.13.5-ubuntu18-
4.0.1.ova",
        "vcpus": 2,
        "memory_mb": 16384,
        "gpus": [],
        "ssh_user": "ccpuser",
        "ssh_key": "ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAINhzxv/Zy/uHF567CqR1o71Z7Wo4Wk/3+H5APXv1c
RM6"
        "nodes": [
            {
                "name": "demo-cluster-0-master-0",
                "status": "ERROR",
                "phase": "Running",
                "private_ip": "10.10.100.109",
                "public_ip": "10.10.100.109"
            }
        ]
    },
    "node_groups": [
        {
            "name": "node-group",
            "size": 1,
            "template": "ccp-tenant-image-1.13.5-ubuntu18-
4.0.1.ova",
            "vcpus": 2,
            "memory_mb": 16384,
            "gpus": [],
            "ssh_user": "ccpuser",
            "ssh_key": "ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAINhzxv/Zy/uHF567CqR1o71Z7Wo4Wk/3+H5APXv1c
RM6",
            "nodes": [
                {
                    "name": "demo-cluster-1-node-gr-0",
                    "status": "READY",
                    "phase": "Running",
                    "private_ip": "10.10.100.108",
                    "public_ip": "10.10.100.108"
                }
            ]
        }
    ],
    "network_plugin_profile": {
        "details": {
            "typhaReplicas": "1",
            "pod_cidr": "192.168.0.0/16",
            "ssh_user": "ccpuser"
        },
        "name": "calico"
    },
    "ingress_as_lb": true,
    "nginx_ingress_class": "",
    "etcd_encrypted": false,
    "skip_management": false,
    "docker_no_proxy": [],
    "routable_cidr": null,
    "image_prefix": null,
    "aci_profile": null
}
]

```

6.9 Retrieving Specific Clusters

Command

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

Example

```
curl -k -X GET -H "X-Auth-Token":"$TOKEN"  
$CCP/v3/clusters/35de61b9-5175-40d5-bea3-1b058fb22c45/
```

Response

```
{  
  "id": "35de61b9-5175-40d5-bea3-1b058fb22c45",  
  "type": "vsphere",  
  "name": "demo-cluster",  
  "provider": "b54efda6-78c7-4418-9b89-955da6585984",  
  "status": "READY",  
  "spec": {  
    "name": "demo-cluster",  
    "type": "vsphere",  
    "kubernetes_version": "1.13.5",  
    "ip_allocation_method": "ccpnet",  
    "master_vip": "",  
    "load_balancer_num": 1,  
    "subnet_id": "ea042d99-9c69-43f8-ac44-ab0b9c843dcf",  
    "ntp_pools": [],  
    "ntp_servers": [],  
    "root_ca_registries": [],  
    "self_signed_registries": {},  
    "vsphere_infra": {  
      "cluster": "HX3",  
      "datacenter": "HX3",  
      "datastore": "hx3-data",  
      "folder": "",  
      "guestOS": "",  
      "hostSystem": "",  
      "networks": [  
        "VLAN 1161 - 10.10.100.0 - 22"  
      ],  
      "resource_pool": ""  
    },  
    "master_group": {  
      "gpus": [],  
      "labels": null,  
      "name": "master-group",  
      "size": 1,  
      "taints": null,  
      "template": "ccp-tenant-image-1.13.5-ubuntu18-  
4.0.1.ova",  
      ...  
      "kubernetes_version": "1.13.5",  
      "kubernetes_config_secret": null,  
      "ip_allocation_method": "ccpnet",  
      "master_vip": "",  
      "load_balancer_num": 1,  
      "subnet_id": "ea042d99-9c69-43f8-ac44-ab0b9c843dcf",  
      "ntp_pools": [],  
      "ntp_servers": [],  
      "root_ca_registries": [],
```

```

"self_signed_registries": {},
"insecure_registries": [],
"docker_http_proxy": "",
"docker_https_proxy": "",
"vsphere_infra": {
  "datacenter": "HX3",
  "datastore": "hx3-data",
  "networks": [
    "VLAN 1161 - 10.10.100.0 - 22"
  ],
  "cluster": "HX3",
  "resource_pool": "",
  "folder": ""
},
"master_group": {
  "name": "master-group",
  "size": 1,
  "template": "ccp-tenant-image-1.13.5-ubuntu18-4.0.1.ova",
  "vcpus": 2,
  "memory_mb": 16384,
  "gpus": [],
  "ssh_user": "ccpuser",
  "ssh_key": "ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAINhzxv/Zy/uHF567CqR1o71Z7Wo4Wk/3+H5APXvlc
RM6",
  "nodes": [
    {
      "name": "demo-cluster-0-master-0",
      "status": "ERROR",
      "phase": "Running",
      "private_ip": "10.10.100.109",
      "public_ip": "10.10.100.109"
    }
  ]
},
"node_groups": [
  {
    "name": "node-group",
    "size": 1,
    "template": "ccp-tenant-image-1.13.5-ubuntu18-
4.0.1.ova",
    "vcpus": 2,
    "memory_mb": 16384,
    "gpus": [],
    "ssh_user": "ccpuser",
    "ssh_key": "ssh-ed25519
AAAAC3NzaC1lZDI1NTE5AAAAINhzxv/Zy/uHF567CqR1o71Z7Wo4Wk/3+H5APXvlc
RM6",
    "nodes": [
      {
        "name": "demo-cluster-1-node-gr-0",
        "status": "READY",
        "phase": "Running",
        "private_ip": "10.10.100.108",
        "public_ip": "10.10.100.108"
      }
    ]
  }
],
"network_plugin_profile": {
  "details": {

```

```

        "typhaReplicas": "1",
        "pod_cidr": "192.168.0.0/16",
        "ssh_user": "ccpuser"
    },
    "name": "calico"
},
"ingress_as_lb": true,
"nginx_ingress_class": "",
"etcd_encrypted": false,
"skip_management": false,
"docker_no_proxy": [],
"routable_cidr": null,
"image_prefix": null,
"aci_profile": null
}

```

6.10 Deleting clusters

Command

```
curl -k -X DELETE -H "x-auth-token: $TOKEN" $CCP/v3/clusters/cluster_uuid/
```

Example

```
curl -k -X DELETE -H "x-auth-token: $TOKEN" $CCP/v3/clusters/35de61b9-5175-40d5-bea3-1b058fb22c45/
```

6.11 Creating ACI Profile

```

curl -XPOST -d '{
  "name": "example-aci-profile5",
  "apic_username": "username",
  "apic_password": "password",
  "aci_tenant": "aci_tenant",
  "apic_hosts": "apic_hosts",
  "aci_vmm_domain_name": "aci_vmm_domain_name",
  "vrf_name": "vrf_name",
  "l3_outside_policy_name": "l3_outside_policy_name",
  "l3_outside_network_name": "l3_outside_network_name",
  "aaep_name": "aaep_name",
  "nameservers": "nameservers",
  "aci_infra_vlan_id": 1234,
  "node_vlan_start": 1,
  "node_vlan_end": 100,
  "multicast_range": "10.0.0.0\16",
  "service_subnet_start": "20.15.1.1\16",
  "pod_subnet_start": "10.2.0.0\16",
  "aci_profile_name": "asdf"
}' -H 'content-type: application/json' localhost:8000/v3/aci-profiles/

```

6.12 Creating ACI-enabled vSphere Cluster

```

curl -d '{"type": "vsphere", "provider": "276ed502-1b95-4329-859e-12289d37953b", "name": "example-vsphere-cluster", "kubernetes_version": "1.12.7", "vsphere_infra": {"folder": "yeet", "datacenter": "foo", "datastore": "foo", "networks": ["foo"], "cluster": "foo", "resource_pool": "ayyy"}, "master_group": {"name": "foo", "size": 1234},

```

```
"network_plugin_profile":{"details":{"pod_cidr":"10.0.0.0/24"}},
"node_groups":[], "ip_allocation_method":"ccpnet"
, "master_vip":"1.2.3.4","skip_management":true,
"docker_no_proxy":["foo","bar"],
"load_balancer_num":3,"subnet_id":"5c2f63d5-5821-439f-acd5-
fb8ddd559cac","aci_profile":"aadb0435-775d-445d-9bac-37dfcad1eb89",
"routable_cidr":"10.10.123.1/
24", "image_prefix":"this is not validated yet"}'
localhost:8000/v3/clusters/
```

6.13 Updating ACI Profile

Command

```
curl -XPATCH -d '{"aaep_name":"new_aaep_name"}' localhost:8000/v3/aci-
profiles/aadb0435-775d-445d-9bac-37dfcad1eb89/
```

Note: The cluster has to be PATCHed to pick up the new ACI details (this is by design).

Example

```
curl -s -XPATCH -d '{} ' localhost:8000/v3/clusters/d7dc05c7-78a6-
4ff7-9657-1ac48ee09dcb/
```

6.14 Deleting ACI Profile

Example

```
curl -XDELETE localhost:8000/v3/aci-profiles/aadb0435-775d-445d-
9bac-37dfcad1eb89/
```

6.15 Listing Addons

Helm charts can be managed using the addons API.

Command

```
curl -k -X GET -H "X-Auth-Token":"$TOKEN"
$CCP/v3/clusters/<your_cluster_uuid>/addons/
```

Example

```
export CLUSTER=35de61b9-5175-40d5-bea3-1b058fb22c45
curl -k -X GET -H "X-Auth-Token":"$TOKEN"
$CCP/v3/clusters/$CLUSTER/addons/
```

Response

```
{
  "count": 2,
  "next": null,
  "previous": null,
  "results": [
    {
      "name": "ccp-monitor",
      "namespace": "default",
      "overrides": "",
      "overrideFiles": [],
      "status": {},
    }
  ]
}
```

```

        "url": "/opt/ccp/charts/ccp-monitor.tgz"
    },
    {
        "name": "metrics",
        "namespace": "default",
        "overrides": "",
        "overrideFiles": [],
        "status": {},
        "url": "metrics-server"
    }
]
}

```

6.16 Listing Catalog

Built-in addons can be listed using the catalog.

Command

```
curl -k -X GET -H "X-Auth-Token": "$TOKEN"
$CCP/v3/clusters/<your_cluster_uuid>/catalog/
```

Example

```
export CLUSTER=35de61b9-5175-40d5-bea3-1b058fb22c45
curl -k -X GET -H "X-Auth-Token": "$TOKEN"
$CCP/v3/clusters/$CLUSTER/addons/
```

Response

```

{
  "_ccp-monitor": {
    "name": "ccp-monitor",
    "description": "Monitoring",
    "chart": "/opt/ccp/charts/ccp-monitor.tgz",
    "url": "/opt/ccp/charts/ccp-monitor.tgz"
  },
  "_ccp-efk": {
    "name": "ccp-efk",
    "description": "Logging",
    "chart": "/opt/ccp/charts/ccp-efk.tgz",
    "url": "/opt/ccp/charts/ccp-efk.tgz"
  },
  "_ccp-kubernetes-dashboard": {
    "name": "kubernetes-dashboard",
    "description": "Dashboard",
    "chart": "/opt/ccp/charts/kubernetes-dashboard.tgz",
    "overrideFiles": [
      "/opt/ccp/charts/kubernetes-dashboard.yaml"
    ],
    "url": "/opt/ccp/charts/kubernetes-dashboard.tgz"
  }
}

```

6.17 Adding an Addon

Command

```
curl -k -v -H "Content-Type:application/json" -H "X-Auth-Token:$TOKEN"
https://$HOST/v3/clusters/$CLUSTER/addons/ -d '{"name": "addon_name", "url":
"addn_url"}'
```

For built-in add-ons, the response for an addon for the /catalog listing can be used as payload for the addon creation.

Example

```
curl -k -H "Content-Type:application/json" -X POST -H "X-Auth-Token":"$TOKEN" $CCP/v3/clusters/$CLUSTER/addons/ -d '{"name": "ccp-monitor",
    "description": "Monitoring",
    "chart": "/opt/ccp/charts/ccp-monitor.tgz",
    "url": "/opt/ccp/charts/ccp-monitor.tgz"}'
```

Response

```
{
  "name": "ccp-monitor",
  "namespace": "default",
  "url": "/opt/ccp/charts/ccp-monitor.tgz"
}
```

6.18 Adding a Cisco Container Platform Addon

Command

```
curl -k -v -H "Content-Type:application/json" -H "X-Auth-Token:$TOKEN"
https://$HOST/v3/clusters/$CLUSTER/addons/ -d '{"name":"addon_name", "url":
"addn_url"}'
```

For built-in add-ons, the response for an addon for the /catalog listing can be used as payload for the addon creation.

Example

```
curl -k -H "Content-Type:application/json" -X POST -H "X-Auth-Token":"$TOKEN" $CCP/v3/clusters/$CLUSTER/addons/ -d '{"name": "ccp-monitor",
    "description": "Monitoring",
    "chart": "/opt/ccp/charts/ccp-monitor.tgz",
    "url": "/opt/ccp/charts/ccp-monitor.tgz"}'
```

Response

```
{
  "name": "ccp-monitor",
  "namespace": "default",
  "url": "/opt/ccp/charts/ccp-monitor.tgz"
}
```

6.19 Adding an Addon with Overrides

For example, consider the following override:

prometheus:

nodeExporter:

enabled: false

This override translates to: {"overrides": "prometheus:\n nodeExporter:\n enabled: false"}

```
curl -k -v -H "Content-Type:application/json" -H "X-Auth-Token:$TOKEN" $CCP/v3/clusters/$CLUSTER/addons/ -d
```



```
'{
  "name": "ccp-monitor",
  "url": "_ccp-monitor",
  "namespace": "ccp",
  "overrides": "prometheus:\n  nodeExporter:\n    enabled: false"
}'

curl -k -v -H "Content-Type:application/json" -H "X-Auth-Token:$TOKEN" http://127.0.0.1:8000/v3/clusters/$CLUSTER/addons/ -d
'{'
  "name": "ccp-monitor",
  "url": "_ccp-monitor",
  "namespace": "ccp",
  "overrides": "hx:\n  url: 10.10.51.9\n  token:
eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJlc2Vycy9hZG1pbmlzdHJhdG9yQHZzcGhlcmlmUu
bG9jYWwiLCJlc2VyIjoiYWRtaW5pc3RyYXRvckB2c3BoZXJlLmxvY2FsIiwibGFiZWxzI
jp7Im5hbWUiOiJhYmkiLCJjb21wYW55IjoieY2lzY28ifSwic2NvcGUiOiJSRUFELElPRE
lGWSIsImVzIjoiZEF0IjoxNTY1MjQ5OTY4NjM0LCJ0b2t1bXpZmVUaW11IjotMX0.DkQ
jyBqS08py3625ki9X3na8vLNS2QDQUC5S0lVHL9M"
}'

curl -k -v \
  -H "Content-Type:application/json" \
  -H "X-Auth-Token:$TOKEN" \
  https://$HOST/v3/clusters/$CLUSTER/addons/ \
  -d
'{'
  "name": "ccp-monitor",
  "url": "\/opt\/ccp\/charts\/ccp-monitor.tgz",
  "namespace": "ccp",
  "overrides": "prometheus:\n  server:\n    persistentVolume:\n
size: 16Gi\n  extraArgs:\n    storage.tsdb.size: 8Gi\n
storage.tsdb.retention.size: 2Gi"
}'
```

6.20 Deleting an Addon

Command

```
curl -k -v -X DELETE -H "X-Auth-Token:$TOKEN"
$CCP/v3/clusters/$CLUSTER/addons/<addon-name>/
```

Example

```
curl -k -X DELETE -H "Content-Type:application/json" -H "X-Auth-Token":"$TOKEN" $CCP/v3/clusters/$CLUSTER/addons/metrics/
```

Response

None

7 Cisco Container Platform API Reference



swagger-api.json

Explore

Note: This section applies to v2 Clusters.

Cisco Container Platform Control Plane API Documentation

[Base URL: <https://Cisco Container Platform Control Plane IP/2/>]
swagger-api.json

Schemes

HTTP

/v3 CCP v3 API



DELETE /v3/{resource} forwards v3 API requests to the v3 API service

GET /v3/{resource} forwards v3 API requests to the v3 API service

HEAD /v3/{resource} forwards v3 API requests to the v3 API service

PATCH /v3/{resource} forwards v3 API requests to the v3 API service

POST /v3/{resource} forwards v3 API requests to the v3 API service

PUT /v3/{resource} forwards v3 API requests to the v3 API service

2/aci_api accessing ACI api



POST /2/aci_api/login ACI login

2/aci_profiles List of ACI profile endpoints



GET /2/aci_profiles Get all ACI profiles

POST /2/aci_profiles Create an ACI profile with the given configuration

GET /2/aci_profiles/{aciProfileName} Get an ACI profile by name

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

PATCH /2/aci_profiles/{aciProfileUUID} Update an ACI profile

2/clusters List of cluster endpoints



GET /2/clusters Get all clusters

POST /2/clusters Create a cluster with the given specification

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

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

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

GET /2/clusters/{clusterName} Get a cluster by name

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

PATCH /2/clusters/{clusterUUID} Patch a cluster

PUT /2/clusters/{clusterUUID} Update a cluster

GET /2/clusters/{clusterUUID}/dashboard Get dashboard

GET /2/clusters/{clusterUUID}/env Get cluster environment

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

POST /2/clusters/{clusterUUID}/helmcharts Create a helmChart for cluster with the given specification

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

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

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

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

PATCH /2/clusters/{clusterUUID}/upgrade Upgrade a cluster

2/keyvalues List of endpoints for key values



GET /2/keyvalues/{key}

POST /2/keyvalues/{key}

2/ldap List of ldap endpoints



GET /2/ldap/groups Get CX LDAP Groups

POST /2/ldap/groups Create CX LDAP Group

PUT /2/ldap/groups Update a CX LDAP Group.

GET /2/ldap/groups/authz Get CX the cluster authorizations for a CX LDAP group

DELETE /2/ldap/groups/{ldapDN} Delete CX LDAP Group specified by LDAP DN

GET /2/ldap/setup Get LDAP parameters

PUT /2/ldap/setup Setup/update LDAP parameters

2/license List of licensing endpoints



DELETE /2/license/{resource} Refer to the smart licensing documentation

GET /2/license/{resource} Refer to the smart licensing documentation

DELETE /2/license/{resource}/{agentID} Refer to the smart licensing documentation

GET /2/license/{resource}/{agentID} Refer to the smart licensing documentation

POST /2/license/{resource}/{agentID} Refer to the smart licensing documentation

2/localusers List of local users endpoints



GET /2/localusers Get CX local users

POST /2/localusers Create CX local user

DELETE /2/localusers/{username} Delete a local user

PATCH /2/localusers/{username} Update a local user. Can provide either or both parameters.

PATCH /2/localusers/{username}/password Update

2/providerclientconfigs List of provider client config endpoints



GET /2/providerclientconfigs Get provider client configuration list

POST /2/providerclientconfigs Add provider client configuration

DELETE /2/providerclientconfigs/{clientconfigUUID} Delete provider client configuration

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

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

GET /2/providerclientconfigs/{clientconfigUUID}/clusters Get list of clusters who are using providerclientconfig

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter Gets the list of vSphere Data Centers.

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

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/cluster/{clusterName}/gpu Gets the list of vSphere GPUs.

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/cluster/{clusterName}/pool Gets the list of vSphere Pools.

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/datastore Gets the list of vSphere Datastores.

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/network Gets the list of vSphere Networks.

GET /2/providerclientconfigs/{clientconfigUUID}/vsphere/datacenter/{datacenterName}/vm Gets the list of vSphere Virtual Machines.

2/rbac



GET /2/rbac get the role of the current user

2/system List of system endpoints



GET /2/system/CorcHealth Get corc health

GET /2/system/health Returns the health of the system

GET /2/system/livenessHealth Returns a string representing the health of the system

POST /2/system/login Management server login

Models



```
api.ACILoginReply {  
  token*      string  
}
```

```
api.ACILoginRequest {  
  apic_ips*   string  
  apic_password* string  
  apic_username* string  
}
```

```
api.AddAuthorization {  
  Local*      boolean  
  Name*       string  
}
```

```
api.AddAuthorizationReply {  
  AuthID*     string  
  Local*      boolean  
  Name*       string  
}
```

```
api.CorcHealthReply {  
}
```

```
api.CorcHealthRequest {  
}
```



```
api.CreateLocalUserRequest {
  Disable*          boolean
  FirstName*        string
  LastName*         string
  Password*         string
  Role*             string
  Token*            string
  UserName*         string
}
```

```
api.CreateLocalUserResponse {
}
```

```
api.CreateNodePoolReply {
  NodePool*          api.CreateNodePoolReply.NodePool {...}
}
```

```
api.CreateNodePoolReply.NodePool {
}
```

```
api.DeleteNodePoolReply {
}
```

```
api.GetVSphereClustersReply {
  Clusters*          [...]
}
```

```
api.GetVSphereDatacentersReply {
  Datacenters*       [...]
}
```

```
api.GetVSphereDatastoresReply {
  Datastores*        [...]
}
```

```
api.GetVSphereGpusReply {
  gpus*          [...]
}
```

```
api.GetVSphereNetworksReply {
  Networks*      [...]
}
```

```
api.GetVSpherePoolsReply {
  Pools*         [...]
}
```

```
api.GetVSphereVMsReply {
  VMs*           [...]
}
```

```
api.GpuHostIndex {
  gpu_type*      string
  hosts*         [...]
}
```

```
api.HostGpuCount {
  count*         integer($int32)
  hostname*      string
}
```

```
api.LdapGroup {
  LdapDN*        string
  Role*          string
}
```

```
api.NodePoolRequest {
  gpus*           [...]
  labels*         string
  memory*         integer($int64)
  name*           string
  node_ip_pool_uuid* string
  size*           integer($int32)
  taints*         string
  template*       string
  vcpus*          integer($int32)
}
```

```
api.ResizeNodePoolRequest {
  size*           integer($int32)
}
```

```
api.UpdateLocalUserPasswordRequest {
  logged_in_user_password* string
  new_password*           string
}
```

```
api.UpdateLocalUserRequest {
  Disable*         boolean
  FirstName*       string
  LastName*        string
  Role*            string
}
```

```
ipam.IPInfo {
  gateway*         string
  id*              integer
  ip*              string
  mtu*             integer($int32)
  nameservers*    [...]
  netmask*         string
  subnet           string
  uuid*           string
}
```

```
ipam.LoadBalancerIPInfo {
  IPInfo*         ipam.IPInfo {...}
  never_release* boolean
}
```

```
ipam.NodeIPInfo {
  IPInfo*
  if_name*
  type*
  ipam.IPInfo {...}
  string
  {...}
}
```

```
main.GetRoleResonse {
  role* string
}
```

```
types.ACIProfile {
  aaep_name* string
  aci_allocator
  aci_infra_vlan_id* integer
  aci_tenant* string
  aci_vmm_domain_name* string
  apic_hosts* string
  apic_password* string
  apic_username* string
  control_plane_contract_name* string
  l3_outside_network_name* string
  l3_outside_policy_name* string
  name* string
  nameservers* [...]
  uuid* string
  vrf_name* string
}
```

```
types.ACIProfileAllocatorConfig {
  multicast_range* string
  node_vlan_end* integer
  node_vlan_start* integer
  pod_subnet_start* string
  service_subnet_start* string
}
```



```
types.Cluster.Infra {  
}
```

```
types.Cluster.master_node_pool {  
}
```

```
types.Cluster.node_pools {  
}
```

```
types.Cluster.worker_node_pool {  
}
```

```
types.GpuTypeCount {  
  count*           integer($int32)  
  gpu_type*        string  
}
```

```
types.HelmChart {  
  chart_url*       string  
  cluster_UUID*    string  
  helmchart_uuid*  string  
  name*            string  
  options*         string  
}
```

```
types.K8SNodeStatus {  
  LastTransitionTime* string  
  NodeCondition*      string  
  NodeName*           string  
  NodeStatus*         string  
}
```

```
types.K8SPodStatus {  
  LastTransitionTime* string  
  PodCondition*       string  
  PodName*            string  
  PodStatus*          string  
}
```

```
types.Kubeadm    {
  provider*      types.VsphereCloudProvider {...}
  provider_type* string
}
```

```
types.Label     {
  key*           string
  value*        string
}
```

```
types.LdapSetup {
  BaseDN*        string
  InsecureSkipVerify* boolean
  Port*          integer
  Server*        string
  ServiceAccountDN* string
  ServiceAccountPassword* string
  StartTLS*      boolean
}
```

```
types.LoginStatus {
  from_host*      string
  last_fail*      string($date-time)
  last_success*   string($date-time)
  login_id*       string
  proto*          string
  status*         string
  to_host*        string
  total_fail*     integer($int32)
}
```

```
types.NetworkPluginProfile {
  details*        string
  name*           string
  status*         string
}
```

```
types.Node {
  cloud_init_data* string
  error_log* string
  ip_info* [...]
  is_master* boolean
  kubernetes_version* string
  mac_addresses* [...]
  name* string
  node_pool_id* integer
  node_pool_type* string
  private_ip* string
  public_ip* string
  state* string
  template* string
  uuid* string
}
```

```
types.ProviderClientConfig {
  config* types.ProviderClientConfig.config {...}
  name* string
  type* {...}
  uuid* string
}
```

```
types.ProviderClientConfig.config {
}
```

```
types.SystemHealth {
  CurrentNodes* integer($int32)
  ExpectedNodes* integer($int32)
  NodesStatus* [...]
  PodStatusList* [...]
  TotalSystemHealth* string
}
```

```
types.VsphereClientConfig {
  ip* string
  password string
  port* integer
  username* string
}
```



```
types.VsphereCloudProvider {
  client_config;omitempty* types.VsphereClientConfig {...}
  vsphere_client_config_uuid* string
  vsphere_datacenter* string
  vsphere_datastore* string
  vsphere_scsi_controller_type* string
  vsphere_working_dir* string
}
```

ERROR



Note: This section applies to v3 Clusters.

CCP v3 API (v3)

CCP v3 API documentation

Authentication

api_key

Security scheme type:	API Key
Header parameter name:	X-Auth-Token

aci-profiles

aci-profiles_list

AUTHORIZATIONS: api_key

Responses

^ 200

RESPONSE SCHEMA: application/json

Array [

id	string (Id)
cluster_count	integer (Cluster count)
name required	string (Name) [1 .. 255] characters
apic_hosts required	string (Apic hosts) [1 .. 4096] characters
apic_username required	string (Apic username) non-empty
apic_password required	string (Apic password) non-empty
aci_vmm_domain_name required	string (Aci vmm domain name) [1 .. 255] characters
aci_infra_vlan_id required	integer (Aci infra vlan id) [1 .. 4094]
vrf_name required	string (Vrf name) [1 .. 255] characters
l3_outside_policy_name required	string (L3 outside policy name) [1 .. 255] characters
l3_outside_network_name required	string (L3 outside network name) [1 .. 255] characters
aaep_name required	string (Aaep name) [1 .. 255] characters
nameservers required	Array of strings
control_plane_contract_name required	string (Control plane contract name) non-empty
aci_tenant required	string (Aci tenant) [1 .. 255] characters
node_vlan_start	integer (Node vlan start) [1 .. 4094] Nullable
node_vlan_end	integer (Node vlan end) [1 .. 4094] Nullable

multicast_range	string (Multicast range)
service_subnet_start	string (Service subnet start)
pod_subnet_start	string (Pod subnet start)

]

GET /aci-profiles/

Response samples

200

application/json

[Copy](#) [Expand all](#) [Collapse all](#)

[

```
- {
  "id": "string",
  "cluster_count": 0,
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
```

```

    "apic_password": "string",
    "aci_vmm_domain_name": "string",
    "aci_infra_vlan_id": 1,
    "vrf_name": "string",
    "l3_outside_policy_name": "string",
    "l3_outside_network_name": "string",
    "aaep_name": "string",
+   "nameservers": [ ... ],
    "control_plane_contract_name": "string",
    "aci_tenant": "string",
    "node_vlan_start": 1,
    "node_vlan_end": 1,
    "multicast_range": "string",
    "service_subnet_start": "string",
    "pod_subnet_start": "string"
  }
]

```

aci-profiles_create

AUTHORIZATIONS: [api_key](#)

REQUEST BODY SCHEMA: [application/json](#)

id	string (Id)
name required	string (Name) [1 .. 255] characters
apic_hosts required	string (Apic hosts) [1 .. 4096] characters
apic_username required	string (Apic username) non-empty
apic_password required	string (Apic password) non-empty
aci_vmm_domain_name required	string (Aci vmm domain name) [1 .. 255] characters
aci_infra_vlan_id required	integer (Aci infra vlan id) [1 .. 4094]

vrf_name required	string (Vrf name) [1 .. 255] characters
l3_outside_policy_name required	string (L3 outside policy name) [1 .. 255] characters
l3_outside_network_name required	string (L3 outside network name) [1 .. 255] characters
aaep_name required	string (Aaep name) [1 .. 255] characters
nameservers required	Array of strings
control_plane_contract_name required	string (Control plane contract name) non-empty
aci_tenant required	string (Aci tenant) [1 .. 255] characters
node_vlan_start	integer (Node vlan start) [1 .. 4094] Nullable
node_vlan_end	integer (Node vlan end) [1 .. 4094] Nullable
multicast_range	string (Multicast range)
service_subnet_start	string (Service subnet start)
pod_subnet_start	string (Pod subnet start)

Responses

^ 201

RESPONSE SCHEMA: application/json

id	string (Id)
cluster_count	integer (Cluster count)
name required	string (Name) [1 .. 255] characters
apic_hosts required	string (Apic hosts) [1 .. 4096] characters

apic_username required	string (Apic username) <input type="text" value="non-empty"/>
apic_password required	string (Apic password) <input type="text" value="non-empty"/>
aci_vmm_domain_name required	string (Aci vmm domain name) <input type="text" value="[1 .. 255] characters"/>
aci_infra_vlan_id required	integer (Aci infra vlan id) <input type="text" value="[1 .. 4094]"/>
vrf_name required	string (Vrf name) <input type="text" value="[1 .. 255] characters"/>
l3_outside_policy_name required	string (L3 outside policy name) <input type="text" value="[1 .. 255] characters"/>
l3_outside_network_name required	string (L3 outside network name) <input type="text" value="[1 .. 255] characters"/>
aaep_name required	string (Aaep name) <input type="text" value="[1 .. 255] characters"/>
nameservers required	Array of strings
control_plane_contract_name required	string (Control plane contract name) <input type="text" value="non-empty"/>
aci_tenant required	string (Aci tenant) <input type="text" value="[1 .. 255] characters"/>
node_vlan_start	integer (Node vlan start) <input type="text" value="[1 .. 4094]"/> Nullable
node_vlan_end	integer (Node vlan end) <input type="text" value="[1 .. 4094]"/> Nullable
multicast_range	string (Multicast range)
service_subnet_start	string (Service subnet start)
pod_subnet_start	string (Pod subnet start)

POST /aci-profiles/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "id": "string",
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
  "apic_password": "string",
  "aci_vmm_domain_name": "string",
  "aci_infra_vlan_id": 1,
  "vrf_name": "string",
  "l3_outside_policy_name": "string",
  "l3_outside_network_name": "string",
  "aaep_name": "string",
  - "nameservers": [
    "string"
  ],
  "control_plane_contract_name": "string",
  "aci_tenant": "string",
  "node_vlan_start": 1,
  "node_vlan_end": 1,
  "multicast_range": "string",
  "service_subnet_start": "string",
  "pod_subnet_start": "string"
}
```

Response samples

201

application/json

Copy Expand all Collapse all

```
{
  "id": "string",
  "cluster_count": 0,
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
  "apic_password": "string",
  "aci_vmm_domain_name": "string",
```



```

    "aci_infra_vlan_id": 1,
    "vrf_name": "string",
    "l3_outside_policy_name": "string",
    "l3_outside_network_name": "string",
    "aaep_name": "string",
  - "nameservers": [
      "string"
    ],
    "control_plane_contract_name": "string",
    "aci_tenant": "string",
    "node_vlan_start": 1,
    "node_vlan_end": 1,
    "multicast_range": "string",
    "service_subnet_start": "string",
    "pod_subnet_start": "string"
  }

```

aci-profiles_read

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id	string
required	A unique value identifying this aci profile.

Responses

^ 200

RESPONSE SCHEMA: [application/json](#)

id	string (Id)
cluster_count	integer (Cluster count)

name required	string (Name) [1 .. 255] characters
apic_hosts required	string (Apic hosts) [1 .. 4096] characters
apic_username required	string (Apic username) non-empty
apic_password required	string (Apic password) non-empty
aci_vmm_domain_name required	string (Aci vmm domain name) [1 .. 255] characters
aci_infra_vlan_id required	integer (Aci infra vlan id) [1 .. 4094]
vrf_name required	string (Vrf name) [1 .. 255] characters
l3_outside_policy_name required	string (L3 outside policy name) [1 .. 255] characters
l3_outside_network_name required	string (L3 outside network name) [1 .. 255] characters
aaep_name required	string (Aaep name) [1 .. 255] characters
nameservers required	Array of strings
control_plane_contract_name required	string (Control plane contract name) non-empty
aci_tenant required	string (Aci tenant) [1 .. 255] characters
node_vlan_start	integer (Node vlan start) [1 .. 4094] Nullable
node_vlan_end	integer (Node vlan end) [1 .. 4094] Nullable
multicast_range	string (Multicast range)
service_subnet_start	string (Service subnet start)
pod_subnet_start	string (Pod subnet start)

Response samples

200

application/json

[Copy](#) [Expand all](#) [Collapse all](#)

```
{
  "id": "string",
  "cluster_count": 0,
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
  "apic_password": "string",
  "aci_vmm_domain_name": "string",
  "aci_infra_vlan_id": 1,
  "vrf_name": "string",
  "l3_outside_policy_name": "string",
  "l3_outside_network_name": "string",
  "aaep_name": "string",
  - "nameservers": [
    "string"
  ],
  "control_plane_contract_name": "string",
  "aci_tenant": "string",
  "node_vlan_start": 1,
  "node_vlan_end": 1,
  "multicast_range": "string",
  "service_subnet_start": "string",
  "pod_subnet_start": "string"
}
```

aci-profiles_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id string
 required A unique value identifying this aci profile.

REQUEST BODY SCHEMA: application/json

id	string (Id)
name required	string (Name) [1 .. 255] characters
apic_hosts required	string (Apic hosts) [1 .. 4096] characters
apic_username required	string (Apic username) non-empty
apic_password required	string (Apic password) non-empty
aci_vmm_domain_name required	string (Aci vmm domain name) [1 .. 255] characters
aci_infra_vlan_id required	integer (Aci infra vlan id) [1 .. 4094]
vrf_name required	string (Vrf name) [1 .. 255] characters
l3_outside_policy_name required	string (L3 outside policy name) [1 .. 255] characters
l3_outside_network_name required	string (L3 outside network name) [1 .. 255] characters
aaep_name required	string (Aaep name) [1 .. 255] characters
nameservers required	Array of strings
control_plane_contract_name required	string (Control plane contract name) non-empty
aci_tenant required	string (Aci tenant) [1 .. 255] characters
node_vlan_start	integer (Node vlan start) [1 .. 4094] Nullable
node_vlan_end	integer (Node vlan end) [1 .. 4094] Nullable
multicast_range	string (Multicast range)
service_subnet_start	string (Service subnet start)

pod_subnet_start

string (Pod subnet start)

Responses

^ 200

RESPONSE SCHEMA: application/json

id	string (Id)
cluster_count	integer (Cluster count)
name required	string (Name) [1 .. 255] characters
apic_hosts required	string (Apic hosts) [1 .. 4096] characters
apic_username required	string (Apic username) non-empty
apic_password required	string (Apic password) non-empty
aci_vmm_domain_name required	string (Aci vmm domain name) [1 .. 255] characters
aci_infra_vlan_id required	integer (Aci infra vlan id) [1 .. 4094]
vrf_name required	string (Vrf name) [1 .. 255] characters
l3_outside_policy_name required	string (L3 outside policy name) [1 .. 255] characters
l3_outside_network_name required	string (L3 outside network name) [1 .. 255] characters
aaep_name required	string (Aaep name) [1 .. 255] characters
nameservers required	Array of strings
control_plane_contract_name required	string (Control plane contract name) non-empty
aci_tenant required	string (Aci tenant) [1 .. 255] characters

node_vlan_start	integer (Node vlan start) [1 .. 4094] Nullable
node_vlan_end	integer (Node vlan end) [1 .. 4094] Nullable
multicast_range	string (Multicast range)
service_subnet_start	string (Service subnet start)
pod_subnet_start	string (Pod subnet start)

PUT /aci-profiles/{id}/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "id": "string",
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
  "apic_password": "string",
  "aci_vmm_domain_name": "string",
  "aci_infra_vlan_id": 1,
  "vrf_name": "string",
  "l3_outside_policy_name": "string",
  "l3_outside_network_name": "string",
  "aaep_name": "string",
  - "nameservers": [
    "string"
  ],
  "control_plane_contract_name": "string",
  "aci_tenant": "string",
  "node_vlan_start": 1,
  "node_vlan_end": 1,
  "multicast_range": "string",
```

```
    "service_subnet_start": "string",  
    "pod_subnet_start": "string"  
  }  
}
```

Response samples

200

application/json

Copy Expand all Collapse all

```
{  
  "id": "string",  
  "cluster_count": 0,  
  "name": "string",  
  "apic_hosts": "string",  
  "apic_username": "string",  
  "apic_password": "string",  
  "aci_vmm_domain_name": "string",  
  "aci_infra_vlan_id": 1,  
  "vrf_name": "string",  
  "l3_outside_policy_name": "string",  
  "l3_outside_network_name": "string",  
  "aaep_name": "string",  
  - "nameservers": [  
    "string"  
  ],  
  "control_plane_contract_name": "string",  
  "aci_tenant": "string",  
  "node_vlan_start": 1,  
  "node_vlan_end": 1,  
  "multicast_range": "string",  
  
  "service_subnet_start": "string",  
  "pod_subnet_start": "string"  
}
```

aci-profiles_partial_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string
A unique value identifying this aci profile.

REQUEST BODY SCHEMA: application/json

id	string (Id)
name required	string (Name) [1 .. 255] characters
apic_hosts required	string (Apic hosts) [1 .. 4096] characters
apic_username required	string (Apic username) non-empty
apic_password required	string (Apic password) non-empty
aci_vmm_domain_name required	string (Aci vmm domain name) [1 .. 255] characters
aci_infra_vlan_id required	integer (Aci infra vlan id) [1 .. 4094]
vrf_name required	string (Vrf name) [1 .. 255] characters
l3_outside_policy_name required	string (L3 outside policy name) [1 .. 255] characters
l3_outside_network_name required	string (L3 outside network name) [1 .. 255] characters
aaep_name required	string (Aaep name) [1 .. 255] characters
nameservers required	Array of strings
control_plane_contract_name required	string (Control plane contract name) non-empty
aci_tenant required	string (Aci tenant) [1 .. 255] characters
node_vlan_start	integer (Node vlan start) [1 .. 4094] Nullable
node_vlan_end	integer (Node vlan end) [1 .. 4094] Nullable

multicast_range	string (Multicast range)
service_subnet_start	string (Service subnet start)
pod_subnet_start	string (Pod subnet start)

Responses

^ 200

RESPONSE SCHEMA: application/json

id	string (Id)
cluster_count	integer (Cluster count)
name required	string (Name) [1 .. 255] characters
apic_hosts required	string (Apic hosts) [1 .. 4096] characters
apic_username required	string (Apic username) non-empty
apic_password required	string (Apic password) non-empty
aci_vmm_domain_name required	string (Aci vmm domain name) [1 .. 255] characters
aci_infra_vlan_id required	integer (Aci infra vlan id) [1 .. 4094]
vrf_name required	string (Vrf name) [1 .. 255] characters
l3_outside_policy_name required	string (L3 outside policy name) [1 .. 255] characters
l3_outside_network_name required	string (L3 outside network name) [1 .. 255] characters
aaep_name required	string (Aaep name) [1 .. 255] characters
nameservers required	Array of strings

control_plane_contract_name required	string (Control plane contract name) <input type="text" value="non-empty"/>
aci_tenant required	string (Aci tenant) <input type="text" value="[1 .. 255] characters"/>
node_vlan_start	integer (Node vlan start) <input type="text" value="[1 .. 4094]"/> Nullable
node_vlan_end	integer (Node vlan end) <input type="text" value="[1 .. 4094]"/> Nullable
multicast_range	string (Multicast range)
service_subnet_start	string (Service subnet start)
pod_subnet_start	string (Pod subnet start)

PATCH /aci-profiles/{id}/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "id": "string",
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
  "apic_password": "string",
  "aci_vmm_domain_name": "string",
  "aci_infra_vlan_id": 1,
  "vrf_name": "string",
  "l3_outside_policy_name": "string",
  "l3_outside_network_name": "string",
  "aaep_name": "string",
  - "nameservers": [
    "string"
  ],
  "control_plane_contract_name": "string",
```

```
"aci_tenant": "string",
"node_vlan_start": 1,
"node_vlan_end": 1,
"multicast_range": "string",
"service_subnet_start": "string",
"pod_subnet_start": "string"
}
```

Response samples

200

application/json

Copy Expand all Collapse all

```
{
  "id": "string",
  "cluster_count": 0,
  "name": "string",
  "apic_hosts": "string",
  "apic_username": "string",
  "apic_password": "string",
  "aci_vmm_domain_name": "string",
  "aci_infra_vlan_id": 1,
  "vrf_name": "string",
  "l3_outside_policy_name": "string",
  "l3_outside_network_name": "string",
  "aaep_name": "string",
  - "nameservers": [
    "string"
  ],
  "control_plane_contract_name": "string",

  "aci_tenant": "string",
  "node_vlan_start": 1,
  "node_vlan_end": 1,
  "multicast_range": "string",
  "service_subnet_start": "string",
  "pod_subnet_start": "string"
}
```

aci-profiles_delete

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id	string
required	A unique value identifying this aci profile.

Responses

– 204

DELETE /aci-profiles/{id}/

clusters

clusters_list

AUTHORIZATIONS: [api_key](#)

Responses

– 200

GET /clusters/

clusters_create

AUTHORIZATIONS: [api_key](#)

Responses

– 201

POST /clusters/

clusters_addons_list

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

cluster_pk <small>required</small>	string
---------------------------------------	--------

QUERY PARAMETERS

page	integer
	A page number within the paginated result set.

page_size	integer
	Number of results to return per page.

Responses

^ 200

RESPONSE SCHEMA: application/json

count required	integer
next	string <uri> Nullable
previous	string <uri> Nullable
results > required	Array of objects

GET /clusters/{cluster_pk}/addons/

Response samples

200

application/json

Copy Expand all Collapse all

```
{
  "count": 0,
  "next": "http://example.com",
  "previous": "http://example.com",
  - "results": [
    + { ... }
  ]
}
```

clusters_addons_create

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

cluster_pk
required string

REQUEST BODY SCHEMA: application/json

name
required string (Name) non-empty

namespace string (Namespace) non-empty
Default: "default"

overrides string (Overrides) non-empty

overrideFiles Array of strings

url
required string (Url) non-empty

Responses

^ 201

RESPONSE SCHEMA: application/json

name
required string (Name) non-empty

namespace string (Namespace) non-empty
Default: "default"

overrides string (Overrides) non-empty

overrideFiles Array of strings

status > object (Status)

url
required

string (Url)

POST /clusters/{cluster_pk}/addons/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "name": "string",
  "namespace": "default",
  "overrides": "string",
  - "overrideFiles": [
    "string"
  ],
  "url": "string"
}
```

Response samples

201

application/json

Copy Expand all Collapse all

```
{
  "name": "string",
  "namespace": "default",
  "overrides": "string",
  - "overrideFiles": [
    "string"
  ],
  "url": "string"
}
```



```

- "status": {
  "property1": "string",
  "property2": "string"
},
"url": "string"
}

```

clusters_addons_read

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

cluster_pk <small>required</small>	string
id <small>required</small>	string

Responses

^ 200

RESPONSE SCHEMA: [application/json](#)

name <small>required</small>	string (Name) non-empty
namespace	string (Namespace) non-empty Default: "default"
overrides	string (Overrides) non-empty
overrideFiles	Array of strings
status >	object (Status)
url <small>required</small>	string (Url) non-empty

GET /clusters/{cluster_pk}/addons/{id}/

Response samples

200

application/json

Copy Expand all Collapse all

```
{
  "name": "string",
  "namespace": "default",
  "overrides": "string",
  - "overrideFiles": [
    "string"
  ],
  - "status": {
    "property1": "string",
    "property2": "string"
  },
  "url": "string"
}
```

clusters_addons_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

cluster_pk
required string

id
required string

REQUEST BODY SCHEMA: [application/json](#)

name required	string (Name) <input type="text" value="non-empty"/>
namespace	string (Namespace) <input type="text" value="non-empty"/> Default: <input type="text" value="default"/>
overrides	string (Overrides) <input type="text" value="non-empty"/>
overrideFiles	Array of strings
url required	string (Url) <input type="text" value="non-empty"/>

Responses

^ 200

RESPONSE SCHEMA: application/json

name required	string (Name) <input type="text" value="non-empty"/>
namespace	string (Namespace) <input type="text" value="non-empty"/> Default: <input type="text" value="default"/>
overrides	string (Overrides) <input type="text" value="non-empty"/>
overrideFiles	Array of strings
status >	object (Status)
url required	string (Url) <input type="text" value="non-empty"/>

PUT /clusters/{cluster_pk}/addons/{id}/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "name": "string",
  "namespace": "default",
  "overrides": "string",
  - "overrideFiles": [
    "string"
  ],
  "url": "string"
}
```

Response samples

200

application/json

Copy Expand all Collapse all

```
{
  "name": "string",
  "namespace": "default",
  "overrides": "string",
  - "overrideFiles": [
    "string"
  ],
  - "status": {
    "property1": "string",
    "property2": "string"
  },
  "url": "string"
}
```

clusters_addons_partial_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

cluster_pk
required string

id
required string

REQUEST BODY SCHEMA: application/json

name
required string (Name) non-empty

namespace
string (Namespace) non-empty
Default: "default"

overrides
string (Overrides) non-empty

overrideFiles
Array of strings

url
required string (Url) non-empty

Responses

^ 200

RESPONSE SCHEMA: application/json

name
required string (Name) non-empty

namespace
string (Namespace) non-empty
Default: "default"

overrides
string (Overrides) non-empty

overrideFiles
Array of strings

status >
object (Status)

url
required string (Url) non-empty

PATCH /clusters/{cluster_pk}/addons/{id}/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "name": "string",
  "namespace": "default",
  "overrides": "string",
  - "overrideFiles": [
    "string"
  ],
  "url": "string"
}
```

Response samples

200

application/json

Copy Expand all Collapse all

```
{
  "name": "string",
  "namespace": "default",
  "overrides": "string",
  - "overrideFiles": [
    "string"
  ],
  - "status": {
    "property1": "string",
    "property2": "string"
  },
  "url": "string"
}
```

clusters_addons_delete

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

cluster_pk
required string

id
required string

Responses

— 204

DELETE /clusters/{cluster_pk}/addons/{id}/

clusters_read

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string

Responses

— 200

GET /clusters/{id}/

clusters_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

PUT /clusters/{id}/

clusters_partial_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

PATCH /clusters/{id}/

clusters_delete

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 204

DELETE /clusters/{id}/

clusters_catalog

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string

Responses

— 200

GET /clusters/{id}/catalog/

Idap

Idap_groups_list

AUTHORIZATIONS: [api_key](#)

Responses

^ 200

RESPONSE SCHEMA: [application/json](#)

Array [

all_clusters_auth string (All clusters auth)

clusters >	Array of objects
ldap_dn required	string (Ldap dn) [1 .. 255] characters
role required	string (Role)

]

GET /ldap/groups/

Response samples

200

application/json

Copy Expand all Collapse all

```
[
  - {
    "all_clusters_auth": "string",
    + "clusters": [ ... ],
    "ldap_dn": "string",
    "role": "string"
  }
]
```

ldap_groups_create

AUTHORIZATIONS: [api_key](#)

REQUEST BODY SCHEMA: application/json

clusters >	Array of objects
ldap_dn required	string (Ldap dn) [1 .. 255] characters

role
required

string (Role)

Responses

^ 201

RESPONSE SCHEMA: application/json

all_clusters_auth	string (All clusters auth)
clusters >	Array of objects
ldap_dn required	string (Ldap dn) [1 .. 255] characters
role required	string (Role)

POST /ldap/groups/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  - "clusters": [
    + { ... }
  ],
  "ldap_dn": "string",
  "role": "string"
}
```

Response samples

201

application/json

Copy Expand all Collapse all

```
{
  "all_clusters_auth": "string",
  - "clusters": [
    + { ... }
  ],
  "ldap_dn": "string",
  "role": "string"
}
```

ldap_groups_read

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

ldap_dn required	string A unique value identifying this ldap group.
---------------------	---

Responses

^ 200

RESPONSE SCHEMA: application/json

all_clusters_auth	string (All clusters auth)
-------------------	----------------------------

clusters >	Array of objects
------------	------------------

ldap_dn required	string (Ldap dn) [1 .. 255] characters
---------------------	--

role required	string (Role)
------------------	---------------

GET /ldap/groups/{ldap_dn}/

Response samples

200

application/json

Copy Expand all Collapse all

```
{
  "all_clusters_auth": "string",
  - "clusters": [
    + { ... }
  ],
  "ldap_dn": "string",
  "role": "string"
}
```

ldap_groups_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

ldap_dn required	string A unique value identifying this ldap group.
----------------------------	---

REQUEST BODY SCHEMA: application/json

clusters >	Array of objects
------------	------------------

ldap_dn required	string (Ldap dn) [1 .. 255] characters
----------------------------	--

role required	string (Role)
-------------------------	---------------

Responses

^ 200

RESPONSE SCHEMA: application/json

all_clusters_auth	string (All clusters auth)
clusters >	Array of objects
ldap_dn required	string (Ldap dn) [1 .. 255] characters
role required	string (Role)

PUT /ldap/groups/{ldap_dn}/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  - "clusters": [
    + { ... }
  ],
  "ldap_dn": "string",
  "role": "string"
}
```

Response samples

200

application/json

Copy Expand all Collapse all

```

{
  "all_clusters_auth": "string",
  - "clusters": [
    + { ... }
  ],
  "ldap_dn": "string",
  "role": "string"
}

```

ldap_groups_partial_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

ldap_dn required	string A unique value identifying this ldap group.
----------------------------	---

REQUEST BODY SCHEMA: application/json

clusters >	Array of objects
------------	------------------

ldap_dn required	string (Ldap dn) [1 .. 255] characters
----------------------------	--

role required	string (Role)
-------------------------	---------------

Responses

^ 200

RESPONSE SCHEMA: application/json

all_clusters_auth	string (All clusters auth)
-------------------	----------------------------

clusters > Array of objects

ldap_dn
required string (Ldap dn) [1 .. 255] characters

role
required string (Role)

PATCH /ldap/groups/{ldap_dn}/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  - "clusters": [
    + { ... }
  ],
  "ldap_dn": "string",
  "role": "string"
}
```

Response samples

200

application/json

Copy Expand all Collapse all

```
{
  "all_clusters_auth": "string",
  - "clusters": [
    + { ... }
  ],
  "ldap_dn": "string",
  "role": "string"
}
```

ldap_groups_delete

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

ldap_dn required	string A unique value identifying this ldap group.
----------------------------	---

Responses

– 204

DELETE /ldap/groups/{ldap_dn}/

ldap_setup_list

AUTHORIZATIONS: [api_key](#)

Responses

– 200

GET /ldap/setup/

ldap_setup_update

AUTHORIZATIONS: [api_key](#)

Responses

— 200

PUT /ldap/setup/

local-users

local-users_list

AUTHORIZATIONS: [api_key](#)

Responses

^ 200

RESPONSE SCHEMA: application/json

Array [

username required	string (Username) [1 .. 255] characters
----------------------	---

first_name	string (First name) non-empty
Default:	" "

last_name	string (Last name) non-empty
Default:	" "

disable	boolean (Disable)
---------	-------------------

role required	string (Role)
------------------	---------------

password required	string (Password) [1 .. 127] characters
----------------------	---

]

GET /local-users/

Response samples

200

application/json

Copy Expand all Collapse all

```
[
  - {
    "username": "string",
    "first_name": "",
    "last_name": "",
    "disable": true,
    "role": "string",
    "password": "string"
  }
]
```

local-users_create

AUTHORIZATIONS: [api_key](#)

REQUEST BODY SCHEMA: application/json

username required	string (Username) [1 .. 255] characters
first_name	string (First name) non-empty Default: ""
last_name	string (Last name) non-empty Default: ""
disable	boolean (Disable)
role required	string (Role)
password required	string (Password) [1 .. 127] characters

Responses

^ 201

RESPONSE SCHEMA: application/json

username required	string (Username) [1 .. 255] characters
first_name	string (First name) non-empty Default: ""
last_name	string (Last name) non-empty Default: ""
disable	boolean (Disable)

role
required

string (Role)

password
required

string (Password) [1 .. 127] characters

POST /local-users/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "username": "string",
  "first_name": "",
  "last_name": "",
  "disable": true,
  "role": "string",
  "password": "string"
}
```

Response samples

201

application/json

Copy Expand all Collapse all

```
{
  "username": "string",
  "first_name": "",
  "last_name": "",
  "disable": true,
  "role": "string",
  "password": "string"
}
```

local-users_read

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

username required	string A unique value identifying this local user.
-----------------------------	---

Responses

^ 200

RESPONSE SCHEMA: [application/json](#)

username required	string (Username) [1 .. 255] characters
first_name	string (First name) non-empty Default: ""
last_name	string (Last name) non-empty Default: ""
disable	boolean (Disable)
role required	string (Role)
password required	string (Password) [1 .. 127] characters

GET /local-users/{username}/

Response samples

200

application/json

Copy Expand all Collapse all

```

{
  "username": "string",
  "first_name": "",
  "last_name": "",
  "disable": true,
  "role": "string",
  "password": "string"
}

```

local-users_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

username required	string A unique value identifying this local user.
-----------------------------	---

REQUEST BODY SCHEMA: [application/json](#)

username required	string (Username) [1 .. 255] characters
-----------------------------	---

first_name	string (First name) non-empty Default: <code>""</code>
------------	---

last_name	string (Last name) non-empty Default: <code>""</code>
-----------	--

disable	boolean (Disable)
---------	-------------------

role required	string (Role)
-------------------------	---------------

password required	string (Password) [1 .. 127] characters
-----------------------------	---

Responses

^ 200

RESPONSE SCHEMA: application/json

username required	string (Username) [1 .. 255] characters
first_name	string (First name) non-empty Default: ""
last_name	string (Last name) non-empty Default: ""
disable	boolean (Disable)
role required	string (Role)
password required	string (Password) [1 .. 127] characters

PUT /local-users/{username}/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "username": "string",
  "first_name": "",
  "last_name": "",
  "disable": true,
  "role": "string",
  "password": "string"
}
```

Response samples

200

application/json

[Copy](#) [Expand all](#) [Collapse all](#)

```
{
  "username": "string",
  "first_name": "",
  "last_name": "",
  "disable": true,
  "role": "string",
  "password": "string"
}
```

local-users_partial_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

username required	string A unique value identifying this local user.
---	---

REQUEST BODY SCHEMA: application/json

username required	string (Username) [1 .. 255] characters
first_name	string (First name) non-empty Default: " "
last_name	string (Last name) non-empty Default: " "
disable	boolean (Disable)
role required	string (Role)

password
required

string (Password) [1 .. 127] characters

Responses

^ 200

RESPONSE SCHEMA: application/json

username required	string (Username) [1 .. 255] characters
first_name	string (First name) non-empty Default: ""
last_name	string (Last name) non-empty Default: ""
disable	boolean (Disable)
role required	string (Role)
password required	string (Password) [1 .. 127] characters

PATCH /local-users/{username}/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{  
  "username": "string",  
  "first_name": "",  
  "last_name": "",
```

```
"disable": true,  
"role": "string",  
"password": "string"  
}
```

Response samples

200

application/json

Copy Expand all Collapse all

```
{  
  "username": "string",  
  "first_name": "",  
  "last_name": "",  
  "disable": true,  
  "role": "string",  
  "password": "string"  
}
```

local-users_delete

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

username	string
required	A unique value identifying this local user.

Responses

— 204

DELETE /local-users/{username}/

local-users_set_password

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

username required	string A unique value identifying this local user.
-----------------------------	---

REQUEST BODY SCHEMA: application/json

username required	string (Username) [1 .. 255] characters
first_name	string (First name) non-empty Default: ""
last_name	string (Last name) non-empty Default: ""
disable	boolean (Disable)
role required	string (Role)
password required	string (Password) [1 .. 127] characters

Responses

^ 200

RESPONSE SCHEMA: application/json

username required	string (Username) [1 .. 255] characters
-----------------------------	---

first_name	string (First name) non-empty Default: ""
last_name	string (Last name) non-empty Default: ""
disable	boolean (Disable)
role required	string (Role)
password required	string (Password) [1 .. 127] characters

PATCH /local-users/{username}/password/

Request samples

Payload

application/json

Copy Expand all Collapse all

```
{
  "username": "string",
  "first_name": "",
  "last_name": "",
  "disable": true,
  "role": "string",
  "password": "string"
}
```

Response samples

200

application/json

Copy Expand all Collapse all

```
{
  "username": "string",
```

```
"first_name": "",  
"last_name": "",  
"disable": true,  
"role": "string",  
"password": "string"  
}
```

providers

providers_list

AUTHORIZATIONS: [api_key](#)

Responses

— 200

GET /providers/

providers_create

AUTHORIZATIONS: [api_key](#)

Responses

– 201

POST /providers/

providers_regions

AUTHORIZATIONS: [api_key](#)

Responses

– 200

GET /providers/regions/

providers_read

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id	string
required	

Responses

– 200

GET /providers/{id}/

providers_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

PUT /providers/{id}/

providers_partial_update

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

PATCH /providers/{id}/

providers_delete

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 204

DELETE /providers/{id}/

providers_availability_zones

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string

Responses

— 200

GET /providers/{id}/availability-zones/

providers_clusters

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string

Responses

— 200

GET /providers/{id}/clusters/

providers_datacenters

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

GET /providers/{id}/datacenters/

providers_datastores

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

GET /providers/{id}/datastores/

providers_dns_servers

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id	string
required	

Responses

– 200

GET /providers/{id}/dns-servers/

providers_flavors

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id

requiredstring

Responses

– 200GET /providers/{id}/flavors/

providers_gpu_vms

AUTHORIZATIONS: [api_key](#)PATH PARAMETERS

id
required string

Responses

– 200GET /providers/{id}/gpu-vms/

providers_gpus

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string

Responses

— 200

GET /providers/{id}/gpus/

providers_hx_overrides

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string

Responses

— 200

GET /providers/{id}/hx-overrides/

providers_images

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
-----------------------	--------

Responses

— 200

GET /providers/{id}/images/

providers_instance_types

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
-----------------------	--------

Responses

– 200

GET /providers/{id}/instance-types/

providers_locations

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

GET /providers/{id}/locations/

providers_networks

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id

requiredstring

Responses

– 200GET /providers/{id}/networks/

providers_resource_groups

AUTHORIZATIONS: [api_key](#)PATH PARAMETERS

id
requiredstring

Responses

– 200GET /providers/{id}/resource-groups/

providers_resource_pools

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string

Responses

— 200

GET /providers/{id}/resource-pools/

providers_roles

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id
required string

Responses

— 200

GET /providers/{id}/roles/

providers_routers

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

— 200

GET /providers/{id}/routers/

providers_ssh_keys

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

GET /providers/{id}/ssh-keys/

providers_vms

AUTHORIZATIONS: [api_key](#)

PATH PARAMETERS

id required	string
----------------	--------

Responses

– 200

GET /providers/{id}/vms/

system

system_entitlements_list

AUTHORIZATIONS: [api_key](#)

Responses

– 200

GET /system/entitlements/

system_healthz_list

AUTHORIZATIONS: [api_key](#)

Responses

– 200

GET /system/healthz/

system_login_create

AUTHORIZATIONS: [api_key](#)

Responses

– 201

POST /system/login/

system_profile_read

AUTHORIZATIONS: [api_key](#)

Responses

– 200

GET /system/profile/

