

# List of Cohesity CLI Commands

Command Name	Short Name	Description
<code>active-directory</code>	<code>ad</code>	To run any Active Directory related operations.
<code>airgap-config</code>		To run any Airgap config related operations.
<code>alert</code>		To run any alert related operations.
<code>apps</code>		To run any apps related operations.
<code>audit-logs</code>		To run audit logs related operations
<code>baseos-patch</code>		To run any base OS patch related operations.
<code>bond</code>		To run any bond related operations.
<code>chassis</code>		To manage chassis in cluster.
<code>cipher</code>		To run any cipher related operations.
<code>clientcsr</code>		To run any clientcsr related operations.
<code>cluster</code>		To run any Cluster related operations.
<code>csr</code>		To run any csr related operations.
<code>custom-reporting</code>		To run any custom reporting related operations.
<code>disk</code>		To run any Disk related operations.
<code>firewall-ipset</code>		To run any Firewall ipset related operations.
<code>firewall-profile</code>		To run any Firewall profile related operations.
<code>group</code>		To run any Group related operations.
<code>hyx-vlan</code>		To run any Bifrost Vlan related operations.
<code>interface-group</code>		To run network interface group related operations.
<code>interface</code>		To run interface related operations.

Command Name	Short Name	Description
<code>ip</code>		To run ip related operations.
<code>ipmi</code>		To run IPMI related operations on local and other nodes of the cluster.
<code>kms</code>		To run any KMS related operations.
<code>ldap</code>		To run any LDAP related operations.
<code>mfa-config</code>		To run any cluster MFA config related operations.
<code>network-reset</code>		network configurations after doing a "set-to-factory-state" operation. These operations would not affect the data in the cluster.
<code>nfs-share</code>		To run any NFS share related operations.
<code>node-csr</code>		To run any node csr related operations.
<code>node-group</code>		To run node group related operations.
<code>node</code>		To run any Node related operations.
<code>patch</code>		To run any Patch related operations.
<code>privilege</code>		To run any Privilege related operations.
<code>protection-job</code>		To run any Protection Job related operations.
<code>qos-profile</code>		To run any Qos profile related operations.
<code>rack</code>		To manage racks in cluster.
<code>remote-cluster</code>	<code>rc</code>	To run any remote Cluster registration related operations.
<code>role</code>		To run any Role related operations.

Command Name	Short Name	Description
<code>route</code>		To run any Static Route related operations. A Static Route designates which VLAN and Network Interfaces to use for communication with a particular destination network.
<code>routing</code>		Routing commands.
<code>security-config</code>		To run any security config related operations.
<code>service-identity</code>		To run any Service Identity related operations.
<code>set-option</code>	<code>set</code>	To set or override existing CLI options at runtime.
<code>snmp</code>		To run any SNMP related operations
<code>storage-domain</code>	<code>sd</code>	To run any Storage Domain related operations.
<code>support-bundle</code>	<code>bundle</code>	To generate support bundle.
<code>support-server</code>	<code>support</code>	To run Support server and Support channel related operations.
<code>swift</code>		To run any Swift related operations.
<code>sysctl</code>		Command to update sysctl configuration for nodes.
<code>syslog-server</code>	<code>syslog</code>	To run any Syslog Server related operations.
<code>system-app</code>		To run any System app related operations.
<code>trusted-cas</code>		To run any trusted CA related operations.
<code>uda-connector</code>		To run any UDA connector related operations
<code>user-quotas</code>		To run any user quotas related commands.
<code>user</code>		To run any User related operations.
<code>vault</code>	<code>vt</code>	To run any Vault related operations.
<code>view</code>		To run any View related operations.

Command Name	Short Name	Description
<code>vlan</code>		To run any Vlan related operations.

# active-directory

To run any Active Directory related operations.

Operation	Short Name	Description
<code>add-ca-path</code>		To add Kerberos capath.
<code>create</code>	<code>add</code>	To create an account for the cluster in Active Directory.
<code>delete</code>	<code>rm</code>	To delete the cluster account from Active Directory.
<code>enable-allowed-trusted-domains</code>		Enable allowed trusted domains to only use them for authentication.
<code>enable-trusted-domains-discovery</code>		Enables or disables the discovery of Trusted Domains of an Active Directory.
<code>list</code>	<code>ls</code>	To list the Active Directory information.
<code>list-ca-paths</code>		To list the existing Kerberos capaths.
<code>list-centrify-zones</code>		To list the centrify zones of an active directory.
<code>list-kerberos-closest-dc-locator-plugin</code>		Lists the Windbind based closest Kerberos server dc locator plugin setting.
<code>rediscover-trusted-domains</code>		To re-discover trusted domains of a primary Active Directory domain.
<code>remove-ca-path</code>		To remove Kerberos capath.
<code>set-allowed-trusted-domains</code>		Sets the allowed trusted domains for an active directory
<code>set-id-mapping-info</code>		Sets the user id mapping info for an active directory domain.
<code>set-ignored-trusted-domains</code>		Sets the trusted domains to be ignored during trusted domain discovery.
<code>set-kerberos-closest-dc-locator-plugin</code>		Sets the Windbind based closest Kerberos server dc locator plugin setting. The change will be applied after bridge service is restarted.

Operation	Short Name	Description
<code>set-ldap-provider</code>		Sets the LDAP provider to Active Directory.
<code>set-preferred-domain-controllers</code>		Sets the preferred domain controllers to an Active Directory.
<code>update-ldap-bind-credentials</code>		To update the Ldap bind credentials of an Active Directory.
<code>update-machine-accounts</code>		To update the machine accounts of an active directory.

## active-directory add-ca-path

To add Kerberos capath.

Parameter	Type	Required	Description
<code>auth-domain</code>	string	yes	FQDN of the client Auth domain.
<code>cluster-domain</code>	string	yes	FQDN of the cluster Active Directory domain.
<code>intermediate-domain</code>	string	yes	FQDN of the intermediate Active Directory domain.

## active-directory create

To create an account for the cluster in Active Directory.

Parameter	Type	Required	Description
<code>domain-controllers</code>	list of strings	no	Comma separated values for the domain controllers of an Active Directory domain, these domain controllers will be mapped to Active Directory's domain name.
<code>domain-name</code>	string	yes	Domain name of the Active Directory.
<code>enable-trusted-domain</code>	bool	no	Enable Trusted Domain discovery.

Parameter	Type	Required	Description
machine-accounts	list of strings	yes	Comma separated values for Machine accounts to use with Active Directory.
ou	string	no	Org Unit for Active Directory
overwrite-existing-accounts	bool	no	Overwrites existing machine accounts in this active directory domain.
password	string	yes	Password of the User.
user-name	string	yes	Username of the User.
workgroup	string	no	Workgroup supported in Active Directory

## active-directory delete

To delete the cluster account from Active Directory.

Parameter	Type	Required	Description
domain-name	string	yes	Domain name of the Active Directory.
password	string	yes	Password of the User.
user-name	string	yes	Username of the User.

## active-directory enable-allowed-trusted-domains

Enable allowed trusted domains to only use them for authentication.

Parameter	Type	Required	Description
domain-name	string	yes	Domain name of the Active Directory.
enable	bool	yes	Whether to enable allowed trusted domains.

## active-directory enable-trusted-domains-discovery

Enables or disables the discovery of Trusted Domains of an Active Directory.

Parameter	Type	Required	Description
domain-name	string	yes	Domain name of the Active Directory.
enable-trusted-domain	bool	yes	Enable Trusted Domain discovery.

## active-directory list-centrify-zones

To list the centrify zones of an active directory.

Parameter	Type	Required	Description
domain-name	string	yes	Domain name of the Active Directory.

## active-directory rediscover-trusted-domains

To re-discover trusted domains of a primary Active Directory domain.

Parameter	Type	Required	Description
domain-name	string	yes	Domain name of the Active Directory.

## active-directory remove-ca-path

To remove Kerberos capath.

Parameter	Type	Required	Description
auth-domain	string	yes	FQDN of the client Auth domain.
cluster-domain	string	yes	FQDN of the cluster Active Directory domain.
intermediate-domain	string	yes	FQDN of the intermediate Active Directory domain.

## active-directory set-allowed-trusted-domains

Sets the allowed trusted domains for an active directory.



Parameter	Type	Required	Description
allowed-trusted-domains	list of strings	no	Comma separated values for existing and new trusted domain to be allowed.
domain-name	string	yes	Domain name of the Active Directory.

## active-directory set-id-mapping-info

Sets the user id mapping info for an active directory domain.

Parameter	Type	Required	Description
domain-name	string	yes	Domain name of the Active Directory.
fallback-gid	int	no	Specify the fallback fixed unix Gid.
fallback-gid-attr-name	string	no	Specify the fallback custom gid attribute name.
fallback-mapping-type	string	no	Specify the mapping type. Can be one of the following: kRid, kFixed.
fallback-uid	int	no	Specify the fallback fixed unix Uid.
fallback-uid-attr-name	string	no	Specify the fallback custom uid attribute name.
fallback-zone-centrify-schema	string	no	Specify the schema type of the fallback centrify zone. Should be one of: kCentrifyDynamicSchema_1_0, kCentrifyDynamicSchema_2_0, kCentrifyDynamicSchema_3_0, kCentrifyDynamicSchema_5_0, kCentrifySfu_3_0, kCentrifySfu_3_0_V5, kCentrifySfu_4_0, kCentrifyCdcRfc2307, kCentrifyCdcRfc2307_2, kCentrifyCdcRfc2307_3.
fallback-zone-description	string	no	Specify a description for this fallback centrify zone.

Parameter	Type	Required	Description
fallback-zone-distinguished-name	string	no	Specify a distinguished name for this fallback centrify zone.
gid	int	no	Specify the fixed Unix Group ID.
gid-attr-name	string	no	Specify the custom Group ID attribute name.
mapping-type	string	no	Specify the mapping type. Can be one of the following: kRid, kRfc2307, kSfu30, kCentrify, kFixed, kCustomAttributes, kLdapProvider, kNis.
remove-user-id-mapping-info	bool	no	Removes the current mapping between this Active Directory domain user to the user Id mapping information it is currently mapped to.
uid	int	no	Specify the fixed Unix User ID.
uid-attr-name	string	no	Specify the custom Unix User ID attribute name.
unix-root-user-sid	string	no	The Sid of the Active Directory domain user mapped to Unix root user.
zone-centrify-schema	string	no	Specify the schema type of the centrify zone. Should be one of: kCentrifyDynamicSchema_1_0, kCentrifyDynamicSchema_2_0, kCentrifyDynamicSchema_3_0, kCentrifyDynamicSchema_5_0, kCentrifySfu_3_0, kCentrifySfu_3_0_V5, kCentrifySfu_4_0, kCentrifyCdcRfc2307, kCentrifyCdcRfc2307_2, kCentrifyCdcRfc2307_3.
zone-description	string	no	Specify a description for this centrify zone.
zone-distinguished-name	string	no	Specify a distinguished name for this centrify zone.

## active-directory set-ignored-trusted-domains

Sets the trusted domains to be ignored during trusted domain discovery.

Parameter	Type	Required	Description
clear-ignored-trusted-domains	bool	no	Removes the current mapping between this Active Directory to excluded trusted domains it is currently mapped to.
domain-name	string	yes	Domain name of the Active Directory.
ignored-trusted-domains	list of strings	no	Comma separated values for existing and new trusted domain to be ignored during trusted domain discovery.

## active-directory set-kerberos-closest-dc-locator-plugin

Sets the Windbind based closest Kerberos server dc locator plugin setting. The change will be applied after bridge service is restarted.

Parameter	Type	Required	Description
enable-plugin	bool	yes	To set the Kerberos closest dc locator plugin on the cluster.

## active-directory set-ldap-provider

Sets the LDAP provider to Active Directory.

Parameter	Type	Required	Description
clear-ldap-mapping	bool	no	Removes the current mapping between this Active Directory to the LDAP provider it is currently mapped to.
domain-name	string	yes	Domain name of the Active Directory.
ldap-id	int	no	Id of the LDAP provider.

## active-directory set-preferred-domain-controllers

Sets the preferred domain controllers to an Active Directory.

Parameter	Type	Required	Description
active-directory-domain-name	string	yes	Domain name of the Active Directory.
clear-preferred-domain-controller	bool	no	Removes the current mapping between this Active Directory to the Preferred domain controller it is currently mapped to.
domain-controllers	list of strings	no	Comma separated values for the domain controllers of an Active Directory domain.
trusted-domain-name	string	no	Trusted domain name of an Active Directory to which preferred domain controllers are mapped to. If trusted domain name is not specified, then preferred domain controllers are mapped to Active Directory domain name.

## active-directory update-ldap-bind-credentials

To update the Ldap bind credentials of an Active Directory.

Parameter	Type	Required	Description
clear-credentials	bool	no	To clear the Ldap bind credentials of an Active Directory.
domain-name	string	yes	Domain name of the Active Directory.
password	string	no	Password of the User.
user-name	string	no	Username of the User.

## active-directory update-machine-accounts

To update the machine accounts of an active directory.

Parameter	Type	Required	Description
domain-name	string	yes	Domain name of the Active Directory.
machine-accounts	list of strings	yes	Comma separated values for Machine accounts to use with Active Directory.
overwrite-existing-accounts	bool	no	Overwrites existing machine accounts in this active directory domain.
password	string	yes	Password of the User.
user-name	string	yes	Username of the User.

## airgap-config

To run any Airgap config related operations.

Operation	Short Name	Description
<code>add-exception</code>		To add exception firewall-profile for Airgap config.
<code>list</code>	<code>ls</code>	To list the Airgap configuration.
<code>remove-exception</code>		To remove exception firewall-profile for Airgap config.
<code>update</code>		To update an existing configuration for Airgap.

## airgap-config add-exception

To add exception firewall-profile for Airgap config.

Parameter	Type	Required	Description
<code>exception-profile</code>	string	yes	Traffic matching these profiles are allowed when cluster is in Airgap mode.

## airgap-config remove-exception

To remove exception firewall-profile for Airgap config.

Parameter	Type	Required	Description
<code>exception-profile</code>	string	yes	Traffic matching these profiles are allowed when cluster is in Airgap mode.

## airgap-config update

To update an existing configuration for Airgap.

Parameter	Type	Required	Description
airgap-status	string	yes	Airgap status as Enable or Disable.
exception-profile	list of strings	no	Traffic matching these profiles are allowed when cluster is in Airgap mode.

## alert

To run any alert related operations.

Operation	Short Name	Description
<code>list</code>	<code>ls</code>	To list the alerts.

## alert list

To list the alerts.

Parameter	Type	Required	Description
<code>end-time</code>	<code>datetime</code>	no	End time of the time range in "YYYY-MM-DDTHH:mm" format. If specified, only the alerts that were raised before the end time will be fetched.
<code>ids</code>	<code>list of strings</code>	no	Comma separated list of alert IDs.
<code>max-num</code>	<code>int</code>	no	Maximum number of alerts to fetch.
<code>resolution-ids</code>	<code>list of ints</code>	no	Comma separated list of alert resolution IDs.
<code>start-time</code>	<code>datetime</code>	no	Start time of the time range in "YYYY-MM-DDTHH:mm" format. If specified, only the alerts that were raised after the start time will be fetched.
<code>state</code>	<code>string</code>	no	State of the alert. Valid values are NOTE, OPEN and RESOLVED.
<code>types</code>	<code>list of ints</code>	no	Comma separated list of alert type IDs.



## apps

To run any apps related operations.

Operation	Short Name	Description
<code>update-apps-settings</code>		Update apps settings.

## apps update-apps-settings

Update apps settings.

Parameter	Type	Required	Description
<code>allow-external-traffic</code>	bool	no	Allow external traffic for apps.
<code>apps-mode</code>	"bare", "vm", "disable"	no	Edit apps mode. It can be either one of ["bare", "vm", "disable"]
<code>marketplace-apps-mode</code>	"bare", "vm", "disable"	no	Edit apps mode. It can be either one of ["bare", "vm", "disable"]

# audit-logs

To run audit logs related operations

Operation	Short Name	Description
<code>list</code>	<code>ls</code>	List cluster audit logs

## audit-logs list

List cluster audit logs

Parameter	Type	Required	Description
<code>action</code>	list of strings	no	Specifies a list of actions, only audit logs containing these actions will be returned.
<code>category</code>	list of strings	no	Specifies a list of categories/entity types, only audit logs containing these entity types will be returned.
<code>end-time</code>	int	no	Specifies a unix timestamp in microseconds, return only audit logs made before the end time.
<code>start-time</code>	int	no	Specifies a unix timestamp in microseconds, return only audit logs made after the start time.

## baseos patch

To run any base OS patch related operations.

Operation	Short Name	Description
<code>apply</code>		To apply the base OS patch on cluster.
<code>download</code>		To download the base OS patch on cluster.
<code>get-list</code>		To get the list of the base OS patches.
<code>get-logs</code>		To get the status and logs of the given patch operations.
<code>remove</code>		To cleanup the base OS patch files on cluster.

## baseos-patch apply

To apply the base OS patch on cluster.

Parameter	Type	Required	Description
<code>name</code>	string	yes	Name of the base OS patch.

## baseos-patch download

To download the base OS patch on cluster.

Parameter	Type	Required	Description
<code>url</code>	string	yes	Download the URL of the base OS patch.

## baseos-patch get-logs

To get the status and logs of the given patch operations.

Parameter	Type	Required	Description
<code>name</code>	string	yes	Name of the base OS patch.

## baseos-patch remove

To cleanup the base OS patch files on cluster.

Parameter	Type	Required	Description
force-remove	bool	no	Remove the base OS patch files even for the in-progress patch.
name	string	yes	Name of the base OS patch.

## bond

To run any bond related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To create a bond interface.
<code>delete</code>	<code>rm</code>	To delete a bond interface.
<code>update</code>	<code>edit</code>	To update a bond interface.

## bond create

To create a bond interface.

Parameter	Type	Required	Description
<code>bond-interface</code>	string	yes	Name of the bond interface.
<code>bond-slave-interface</code>	list of strings	yes	Name of the bond slave interfaces separated by commas

## bond delete

To delete a bond interface.

Parameter	Type	Required	Description
<code>bond-interface</code>	string	yes	Name of the bond interface.

## bond update

To update a bond interface.

Parameter	Type	Required	Description
<code>bond-interface</code>	string	yes	Name of the bond interface.
<code>bond-slave-interface</code>	list of strings	yes	Name of the bond slave interfaces separated by commas

# chassis

To manage chassis in cluster.

Operation	Short Name	Description
<code>list</code>	<code>ls</code>	To get all chassis or one chassis information in cluster.
<code>update</code>	<code>edit</code>	To update a chassis information. Set rack id with 0 will unassign the chassis to a rack.

## chassis list

To get all chassis or one chassis information in cluster.

Parameter	Type	Required	Description
<code>id</code>	<code>int</code>	<code>no</code>	The id of a chassis.

## chassis update

To update a chassis information. Set rack id with 0 will unassign the chassis to a rack.

Parameter	Type	Required	Description
<code>id</code>	<code>int</code>	<code>yes</code>	The id of a chassis.
<code>name</code>	<code>string</code>	<code>no</code>	Name of the chassis for the Node.
<code>rack-id</code>	<code>string</code>	<code>no</code>	The id of a rack which the chassis belongs to.

# cipher

To run any cipher related operations.

Operation	Short Name	Description
list	ls	To list the enabled and disabled ciphers on the cluster.
list-object-store-ciphers		To list object store ciphers on the cluster.
update	edit	To modify the enabled and disabled ciphers on the cluster.
update-object-store-ciphers		To enable or disable a list of object store ciphers on the cluster. Bridge needs to be restarted to make the change in effect.

The list of ciphers on the clusters are separated by single space in the response. You can refer to the sample response below.

```
admin@127.0.0.1> cipher list
ENABLED CIPHERS      : [TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA]
DISABLED CIPHERS     : []
```

## cipher update

To modify the enabled and disabled ciphers on the cluster.

Parameter	Type	Required	Description
ciphers	list of strings	yes	A list of ciphers to be set as enabled or disabled on the cluster. The 'enable' parameter specifies whether to enable or disable these ciphers.
enable	bool	yes	Boolean value to specify whether to enable or disable a list of ciphers. True = enable, False = disable.

The list of ciphers on the clusters are separated by single space in the response. You can refer to the sample response below.

```
admin@127.0.0.1> cipher list
ENABLED CIPHERS      : [TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA]
DISABLED CIPHERS     : []
```



## cipher update-object-store-ciphers

To enable or disable a list of object store ciphers on the cluster. Bridge needs to be restarted to make the change in effect.

Parameter	Type	Required	Description
ciphers	list of strings	yes	A list of ciphers to be set as enabled or disabled on the cluster. The 'enable' parameter specifies whether to enable or disable these ciphers.
enable	bool	yes	Boolean value to specify whether to enable or disable a list of ciphers. True = enable, False = disable.

The list of ciphers on the clusters are separated by single space in the response. You can refer to the sample response below.

```
admin@127.0.0.1> cipher list
ENABLED CIPHERS      : [TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA]
DISABLED CIPHERS     : []
```

## clientcsr

To run any clientcsr related operations.

Operation	Short Name	Description
<code>create</code>	add	To create csrs for client and server.
<code>import</code>		To import a certificate by csr.

## clientcsr create

To create csrs for client and server.

Parameter	Type	Required	Description
<code>city</code>	string	yes	The locality attribute, which is part of the distinguished name definition. It is used to identify the city where the company is located or the Cluster is installed.
<code>country</code>	string	yes	The country attribute, which is part of the distinguished name definition. It is used to identify the country where the state is located. It is specified as two letter code defined by the ISO standard.
<code>dns-names</code>	list of strings	no	An alternative subject name component to be included in the certificate. It is used to identify the ways the Cluster will be accessed. It is given as a comma separated list of FQDNs. The default value is the Cluster's VIP hostname.
<code>email-address</code>	string	no	An alternative subject name component to be included in the certificate. Format is a standard e-mail address, for example <code>joe@company.com</code> .
<code>host-ips</code>	list of strings	no	An alternative subject name component to be included in the certificate. It is used to identify the ways the Cluster will be accessed. It is given as a comma separated list of IP addresses. The default value is the Cluster's VIP addresses.
<code>key-size</code>	int	no	The size of the keys in bits. The default is 2048 bits for the RSA keys and 256 bits for ECDSA.

Parameter	Type	Required	Description
key-type	string	no	The algorithm to be used to generate the key pair. RSA is the default value.
organization	string	yes	The organization attribute, which is part of the distinguished name definition. It is used to specify the name of the company.
organization-unit	string	yes	Specifies the organization unit attribute, which is part of the distinguished name definition. It is used to identify the specific department or business unit in the company that is owning the Cluster.
state	string	yes	The state attribute, which is part of the distinguished name definition. It is used to identify the state where the city is located.

## clientcsr import

To import a certificate by csr.

Parameter	Type	Required	Description
client-certificate-path	string	yes	Path of client certificate file
server-certificate-path	string	yes	Path of server certificate file

# cluster

To run any Cluster related operations.

Operation	Short Name	Description
<code>add-etc-hosts</code>		To add the info of a host to the cluster.
<code>add-nodes</code>	<code>join</code>	To add free nodes to the cluster.
<code>add-ssh-keys</code>		To add public SSH key to authorize access to the cluster.
<code>add-subnet-to-whitelist</code>		To allow a client subnet access to Views.
<code>clear-etc-hosts</code>		To clear the hosts file info stored on the Cluster.
<code>create</code>	<code>add</code>	To create a new cluster. Same number of node IPs, node IPMI IPs, and node IDs are expected. If node IDs are not specified, then node IPs are assumed to be configured on the desired nodes and their IDs will be queried.
<code>delete-etc-hosts</code>		To delete the info for one or more hosts of the cluster.
<code>delete-ssl-certificate</code>	<code>rm-ssl-cert</code>	To delete the SSL certificate from the Cluster.
<code>fru-list</code>	<code>fru-ls</code>	To list the available FRUs in the cluster
<code>fru-locate</code>		To Locate the Fru on Hardware.
<code>fru-locate-list</code>		To list all the Fru's being located currently on the cluster.
<code>generate-source-certificate</code>	<code>gen-src-cert</code>	To create a new certificate for agent authentication.
<code>get-dns-server</code>	<code>ls-dns</code>	To get the IP addresses of the DNS servers for the Cluster.
<code>get-domain-names</code>	<code>ls-domains</code>	To get the domain names of the cluster.
<code>get-etc-hosts</code>		To get the hosts info of the Cluster.
<code>get-info</code>	<code>info</code>	To get information about the cluster.

Operation	Short Name	Description
get-io-pref-tier	ls-io-tier	To get the preferred IO tier of the Cluster.
get-nfs-export-paths	ls-nfs-export-paths	To list NFS export paths accessible in the Cluster.
get-ntp-servers	ls-ntp	To get the list of the NTP servers for the Cluster.
get-proxy-servers	ls-proxies	To get the proxy servers for the Cluster.
get-subnet-whitelist	ls-sn-wl	To list client subnets with permissions to access Views.
get-subnets	ls-subnets	To get services reserved subnets in the cluster.
get-upgrade-status		To get the Cluster software upgrade status.
list-interfaces	ls-ifaces	To list the network interfaces.
list-packages	ls-pkgs	To list the available Cohesity software packages on a Cluster.
list-source-certificates	list-src-cert	To list all global certificates deployed from the cluster.
list-ssl-cert-details	ls-ssl-cert	To get the SSL certificate details of the Cluster.
ls-ssh-keys		List public SSH Keys.
query-replacement-procedure	grp	To query the fru replacement steps.
register	claim	To register the cluster on helios by token.
remove-proxy-server	rm-proxy	To remove a proxy server from the cluster.
remove-ssh-keys		To remove public SSH key that authorizes access to the cluster.

Operation	Short Name	Description
<code>remove-subnet-from-whitelist</code>		To revoke a client subnet's permissions to access Views.
<code>rotate-ssh-key</code>		Run the above command to rotate cluster ssh keys on demand, this command will only work when there is no active cluster management operation in progress.
<code>route-snapfs-traffic-broker</code>		To route snapfs traffic through broker.
<code>status</code>		To get the status of the Cluster.
<code>sync-ntp</code>		To sync cluster-wide nodes to NTP server.
<code>toggle-protrpc-encryption</code>	<code>tpenc</code>	To either enable or disable protorpc encryption on the cluster.
<code>update</code>	<code>edit</code>	To update editable information of the cluster.
<code>update-active-monitoring</code>	<code>edit-active-mon</code>	To update active monitoring configuration: whether to enable/disable it and what authentication key to use.
<code>update-dns-servers</code>	<code>edit-dns</code>	To update the IP addresses of the DNS Servers for the cluster. Please use empty string to reset DNS Server IPs.
<code>update-domain-names</code>	<code>edit-domains</code>	To update the domain names of the cluster.
<code>update-interfaces</code>	<code>edit-ifaces</code>	To update the interfaces of the cluster.
<code>update-ipmi-credential</code>	<code>edit-ipmi-cred</code>	To update the IPMI username and password.
<code>update-ntp-servers</code>	<code>edit-ntp</code>	To edit the list of NTP servers for the cluster.
<code>update-proxy-server</code>	<code>edit-proxy</code>	To edit a proxy server of the cluster. Proxy servers are used for getting upgrade packages and proactive monitoring.

Operation	Short Name	Description
<code>update-ssl-certificate</code>	<code>edit-ssl-cert</code>	To update the SSL certificate to be used by the cluster. A self-signed SSL certificate is used by default.
<code>update-subnet</code>	<code>edit-subnet</code>	To update services reserved subnets in the cluster.
<code>upgrade</code>		To upgrade the software version on the cluster.
<code>upgrade-check-list-tests</code>		To list available upgrade check tests.
<code>upgrade-check-run-tests</code>		To run upgrade check tests.
<code>upgrade-check-show-result</code>		To show results of upgrade check tests.
<code>upload-etc-hosts</code>		To upload the hosts info to the cluster, the content of the hosts file will be uploaded.
<code>upload-license</code>		To upload valid license string.
<code>virtual-robo-create</code>		To create a new Virtual ROBO cluster.

## cluster add-etc-hosts

To add the info of a host to the Cluster.

Parameter	Type	Required	Description
<code>description</code>	string	no	Description for the host.
<code>host-domain-name</code>	list of strings	yes	Comma separated list of host domain names.
<code>host-ip</code>	list of strings	yes	Comma separated list of host IPs.

## cluster add-nodes

To add free nodes to the cluster.

Parameter	Type	Required	Description
chassis-serials	list of strings	no	Comma separated list of chassis serials.
dns-groups	list of strings	no	Comma separated list of DNS groups of the new nodes. Each entry should be specified in the following format: <group name1>/<node IP1>:<node IP2>:.../<DNS server IP1>...,<group name2>/<node IP3>/<DNS server IP2>,... For example: dns1/10.1.1.1:10.1.1.2/10.1.0.1:10.1.1.1,dns2/10.2.1.1/10.2.0.1
in-same-rack	bool	no	Specify whether the new nodes should belong to a rack.
node-ids	list of ints	no	Comma separated list of Node IDs.
node-ipmi-ips	list of strings	no	Comma separated list of Node IPMI IP addresses (IPv4 only).
node-ipmi-subnet-gateways	list of strings	no	Comma separated list of IPMI Subnetgateways.
node-ipmi-subnet-masks	list of strings	no	Comma separated list of IPMI Subnet masks. Mask should be a CIDR prefix or a dotted decimal for IPv4.
node-ips	list of strings	yes	Comma separated list of Node IP addresses (IPv4 or IPv6).
rack-ids	list of ints	no	Comma separated list of rack Ids.
subnet-gateways	list of strings	no	Comma separated list of gateways for subnet groups of the new nodes. This is used for multi subnets cluster.
subnet-mask-groups	list of strings	no	Subnet mask groups of the new nodes. Subnet should be either in CIDR prefix or in dotted decimal format. This is used for multiple subnets cluster.Each entry should be specified in the following format: <group name1>/<node IP1>:<node IP2>.../<subnet mask1>,...For example: zone1/10.1.1.1:10.1.1.2/255.255.255.0,zone2/10.2.1.1/20



Parameter	Type	Required	Description
use-as-compute-nodes	list of bools	no	Comma separated list of true or false values to indicate whether the corresponding node should be used only for compute.
vips	list of strings	no	Comma separated list of Virtual IP addresses.

## cluster add-ssh-keys

To add public SSH key to authorize access to the cluster.

Parameter	Type	Required	Description
ssh-key-file-path	absolute file path	yes	Absolute file path for the public SSH keys that allows access to the Cluster.

## cluster add-subnet-to-whitelist

To allow a client subnet access to Views.

Parameter	Type	Required	Description
subnet-ip	string	yes	IP of the client subnet.
subnet-mask-bits	int	no	Mask bits for the client subnet.
subnet-mask-ip4	string	no	Netmask for the IPv4 client subnet.
subnet-nfs-permission	string	no	Clients from this subnet can mount using NFS protocol. This can be kDisabled, kReadOnly, kReadWrite.
subnet-nfs-root-squash	bool	no	Clients from this subnet can mount as root on NFS. This can be Disabled, ReadOnly, ReadWrite.
subnet-s3-permission	string	no	Clients from this subnet can access using S3 protocol. This can be kDisabled, kReadOnly, kReadWrite.

Parameter	Type	Required	Description
subnet-smb-permission	string	no	Clients from this subnet can mount using SMB protocol. This can be kDisabled, kReadOnly, kReadWrite.

## cluster create

To create a new Cluster. Same number of node IPs, node IPMI IPs, and node IDs are expected. If node IPs are already assigned, don't specify the node ID. If node IDs are not specified, then node IPs are assumed to be configured on the desired nodes and their IDs will be queried.

Parameter	Type	Required	Description
apps-subnet	string	yes	Configure the subnet IP for apps configuration
apps-subnet-mask	string	yes	Configure the subnet Mask for apps configuration
dns-groups	list of strings	no	Comma separated list of DNS groups of the cluster. Each entry should be specified in the following format: <group name1>/<node IP1>:<node IP2>:.../<DNS server IP1>:...,<group name2>/<node IP3>/<DNS server IP2>,... For example: dns1/10.1.1.1:10.1.1.2/10.1.0.1 10.1.1.1,dns2/10.2.1.1/10.2.0.1
dns-server-ips	list of strings	no	Comma separated list of DNS server IP addresses.
domain-names	list of strings	no	Comma separated list of search domain names. First name is also the Cluster domain name which is mandatory.
enable-software-encryption	bool	no	The cluster encryption is ON by default during the initial cluster setup and cannot be disabled later. Encryption will be OFF only if enable-software-encryption is explicitly set to false during cluster creation.
hostname	string	yes	Hostname for the Virtual IPs of the cluster partition.
ip-preference	int	no	Param to specify IP address preference, 1=IPv4(default) or 2=IPv6.

Parameter	Type	Required	Description
ipmi-password	string	no	IPMI password for the Cluster.
ipmi-subnet-gateway	string	no	IPMI Subnet gateway.
ipmi-subnet-mask	string	no	IPMI Subnet mask should be either in CIDR prefix or in dotted decimal for IPv4.
ipmi-username	string	no	IPMI username for the Cluster.
name	string	yes	Name of the Cluster.
node-ids	list of ints	no	Comma separated list of Node IDs.
node-ipmi-ips	list of strings	no	Comma separated list of Node IPMI IP addresses (IPv4 only).
node-ips	list of strings	yes	Comma separated list of Node IP addresses (IPv4 or IPv6).
ntp-auth-enable	bool	no	Flag to enable NTP with authentication.
ntp-auth-key-ids	list of ints	no	Comma separated list of NTP server auth key IDs corresponding to each NTP server auth key.
ntp-auth-keys	list of strings	no	Comma separated list of NTP server auth keys corresponding to each NTP server.
ntp-servers	list of strings	yes	Comma separated list of NTP servers IPs/hostnames.
rotation-period-days	int	no	Period in days when the data encryption key (DEK) is rotated. Default rotation period is 90 days.
subnet-gateway	string	no	Subnet gateway for the Cluster.

Parameter	Type	Required	Description
subnet-gateways	list of strings	no	Comma separated list of gateways for subnet groups of the cluster. This is used for multi subnets cluster.
subnet-mask	string	no	Subnet mask for the Cluster. Should be either in CIDR prefix or in dotted decimal.
subnet-mask-groups	list of strings	no	Subnet mask groups of the cluster. Subnet should be either in CIDR prefix or in dotted decimal format. This is used for multiple subnets cluster. Each entry should be specified in the following format: <group name1>/<node IP1>:<node IP2>:.../<subnet mask1>,... For example: zone1/10.1.1.1:10.1.1.2/255.255.255.0,zone2/10.2.1.1/20
trust-domain	string	no	Trust domain name of FQDN format.
use-as-compute-nodes	list of bools	no	Comma separated list of true or false values to indicate whether the corresponding node should be used only as compute node.
vips	list of strings	no	Comma separated list of Virtual IP addresses.

## cluster delete-etc-hosts

To delete the info for one or more hosts of the Cluster.

Parameter	Type	Required	Description
host-domain-name	list of strings	no	Comma separated list of host domain names.
host-ip	list of strings	no	Comma separated list of host IPs.

## cluster fru-list

To list the available FRUs in the cluster

Parameter	Type	Required	Description
node-id	int	no	ID of a Node.

## cluster fru-locate

To Locate the Fru on Hardware.

Parameter	Type	Required	Description
fru-id	string	yes	Fru Id of Fru to be located/replaced
fru-type	string	yes	Type (disk,fan) of Fru to be located/replaced
node-id	int	yes	ID of a Node.
status-on	bool	yes	Fru locate status (on/off)

## cluster generate-source-certificate

To create a new certificate for agent authentication.

Parameter Name	Description	Parameter Name	Description
cert-name	Name of the certificate file. Its naming format is \${cert-name}_<random_number>.cfg.	cert-name	Name of the certificate file. Its naming format is \${cert-name}_<random_number>.cfg.
cert-validity	The validity of the source certificate generated. The time is displayed in days.	cert-validity	The validity of the source certificate generated. The time is displayed in days.

Parameter Name	Description	Parameter Name	Description
host-name	The IP address/host name of the target system where you want to move the certificate. This is a mandatory parameter because the certificate generation process needs details of the host machine to generate public and private keys.	host-name	The IP address/host name of the target system where you want to move the certificate. This is a mandatory parameter because the certificate generation process needs details of the host machine to generate public and private keys.
host-target	The file directory path on the host machine where the certificate will be stored.	host-target	The file directory path on the host machine where the certificate will be stored.
host-uname and host-password	The username and password of any user on the host machine that can facilitate the transfer of certificate over an SSH tunnel.	host-uname and host-password	The username and password of any user on the host machine that can facilitate the transfer of certificate over an SSH tunnel.
Parameter Name	Description	Parameter Name	Description

## cluster get-info

To get information about the Cluster.

Parameter	Type	Required	Description
show-stats	bool	no	To display the computed statistics.

## cluster list-interfaces

To list the network interfaces.

Parameter	Type	Required	Description
cache	bool	no	To show interface cached information or not. Default is to read interface information from cache.

## cluster query-replacement-procedure

To query the fru replacement steps

Parameter	Type	Required	Description
fru-id	string	no	Fru Id of Fru to be located/replaced
fru-type	string	no	Type (disk,fan) of Fru to be located/replaced
node-id	int	no	ID of a Node.
task-id	string	no	Task Id of Any Breakfix Task running in cluster

## cluster register

To register the cluster on helios by token.

Parameter	Type	Required	Description
rigel-guid	int	no	To specify the guid to register the rigel with as cluster on helios. If not specified, node id is used as rigel guid.
token	string	yes	To specify the token to register the cluster on helios.

## cluster remove-proxy-server

To remove a proxy server from the Cluster.

Parameter	Type	Required	Description
name	string	yes	Name of the proxy server.

## cluster remove-ssh-keys

To remove public SSH key that authorizes access to the cluster.

Parameter	Type	Required	Description
ssh-key-file-path	absolute file path	yes	Absolute file path for the public SSH keys that allows access to the Cluster.

## cluster remove-subnet-from-whitelist

To revoke a client subnet's permissions to access Views.

Parameter	Type	Required	Description
subnet-ip	string	yes	IP of the client subnet.

## cluster route-snapfs-traffic-broker

To route snapfs traffic through broker.

Parameter	Type	Required	Description
enable	bool	yes	To enable or disable snapfs traffic through broker. If set to true, enables the snapfs traffic through broker in rigel. If set to false, disables it.

## cluster toggle-protrpc-encryption

To either enable or disable protrpc encryption on the cluster.



Parameter	Type	Required	Description
enable-encryption	bool	yes	To enable or disable internode protorpc encryption, if the set to true the command shall enable protorpc encryption if set to false it shall disable.

## cluster update

To update editable information of the Cluster.

Parameter	Type	Required	Description
authentication-type	string	no	The authentication type for the cluster. This can be password-only, certificate-only or password-and-certificate
cluster-audit-enabled	bool	no	Whether to enable Cluster Audit Logs.
cluster-audit-retention-days	int	no	Number of days to retain the Cluster Audit Logs.
cluster-audit-verbosity	bool	no	Whether to enable audit verbosity(audit log prev value and new value).
enable-local-groups	bool	no	Enable/Disable creating local groups.
enc-key-rotation-period-secs	int	no	Encryption key rotation period in seconds. It should be greater than or equal to 86400 seconds (a day).
filer-audit-enabled	bool	no	Whether to enable Filer Audit Logs.
filer-audit-retention-days	int	no	Number of days to retain the Filer Audit Logs.
local-auth-domain-name	string	no	Domain name for SMB local authentication.
multi-tenancy	bool	no	To enable or disable Multi-Tenancy.
new-name	string	no	New name of the Cluster for update.

Parameter	Type	Required	Description
ntp-servers-internal	bool	no	Flag to specify if the NTP servers are on internal network.
pcie-ssd-rebalance-delay-secs	int	no	Delay time in seconds for cluster PcieSSD storage tier.
sata-hdd-admission-control	int	no	Admission control for cluster SATA HDD storage tier.
smb-ad-disabled	bool	no	Disable SMB access for Active Directory Users.
tiering-audit-enabled	bool	no	Whether to enable Tiering Audit Logs.
tiering-audit-retention-days	int	no	Number of days to retain the Tiering Audit Logs.
time-zone	string	no	Timezone for displaying Time in Reports download.
turbo-mode	bool	no	To set or clear Turbo mode.
use-heimdall	bool	no	To enable or disable Heimdall.
viewbox-sharing	bool	no	To enable ViewBox Sharing.

## cluster update-active-monitoring

To update active monitoring configuration: whether to enable/disable it and what authentication key to use.

Parameter	Type	Required	Description
enable	bool	yes	To enable/disable active monitoring.

## cluster update-dns-servers

To update the IP addresses of the DNS Servers for the Cluster. Please use empty string to reset DNS Server IPs.

Parameter	Type	Required	Description
dns-server-ips	string	yes	Comma separated list of DNS server IP addresses.

## cluster update-domain-names

To update the domain names of the cluster.

Parameter	Type	Required	Description
domain-names	list of strings	no	Comma separated list of search domain names. First name is also the Cluster domain name which is mandatory.

## cluster update-interfaces

To update the interfaces of the cluster.

Parameter	Type	Required	Description
family	int	no	Param to specify IP address family, 1=IPv4(default) or 2=IPv6.
ids	list of ints	yes	Comma separated list of IDs.
interface-ips	string	no	Comma separated list of interface IP addresses (IPv4 only).
subnet-gateway	string	no	Subnet gateway for the Cluster.
subnet-mask-bits	int	no	Subnet mask bits for the Cluster.
unconfigure	bool	no	Whether to unconfigure the interfaces.

## cluster update-ipmi-credential

To update the IPMI username and password.

Parameter	Type	Required	Description
ipmi-password	string	yes	IPMI password for the Cluster.
ipmi-username	string	yes	IPMI username for the Cluster.

## cluster update-ntp-servers

To edit the list of NTP servers for the Cluster.

Parameter	Type	Required	Description
ntp-auth-enable	bool	no	Flag to enable NTP with authentication.
ntp-auth-key-ids	list of ints	no	Comma separated list of NTP server auth key IDs corresponding to each NTP server auth key.
ntp-auth-keys	list of strings	no	Comma separated list of NTP server auth keys corresponding to each NTP server.
ntp-servers	list of strings	yes	<p>Comma separated list of NTP servers IPs/hostnames.</p> <pre>cluster edit-ntp ntp-servers="xx.x1, xx.x2, xx.x3"</pre> <p>Example:</p> <pre>cluster edit-ntp ntp-servers="time.google.com, time2.google.com, time3.google.com"</pre>

## cluster update-proxy-server

To edit a proxy server of the Cluster. Proxy servers are used for getting upgrade packages and proactive monitoring.

Parameter	Type	Required	Description
address	string	yes	FQDN or IP address of the proxy server.
name	string	yes	Name of the proxy server.

Parameter	Type	Required	Description
password	string	no	Password to use for the proxy server.
port	int	yes	Port to use for the proxy server.
schemes	list of strings	no	Comma separated list of schemes supported by the proxy server. Choose from http, or https.
username	string	no	Username to use for the proxy server.

## cluster update-ssl-certificate

To update the SSL certificate to be used by the Cluster. A self-signed SSL certificate is used by default.

Parameter	Type	Required	Description
ssl-cert-private-key	absolute file path	yes	Absolute file path for the private key to be used in conjunction with the SSL certificate for the Cluster.
ssl-certificate	absolute file path	yes	Absolute file path for the SSL certificate to update the Cluster.

## cluster update-subnet

To update services reserved subnets in the cluster.

Parameter	Type	Required	Description
desc	string	no	Description.
service-name	string	no	Name of the service. You can get the list of services by running "cluster status" command.
subnet-id	int	no	Subnet ID.
subnet-ip	string	yes	Subnet IP for the Cluster.

Parameter	Type	Required	Description
subnet-mask-bits	int	no	Subnet mask bits for the Cluster.
subnet-mask-ip4	string	no	Subnet mask for IPv4 type subnet of the Cluster.

## cluster upgrade

To upgrade the software version on the Cluster.

Parameter	Type	Required	Description
force-validate-health-checks	bool	no	Force running health check tests as part of upgrade
id	int	no	ID of the Cluster.
skip-nodes	string	no	Comma separated list of node IDs on which upgrade checks will not run
skip-tests	string	no	Comma separated list of test case ids which will not run on all cluster nodes. Use command 'cluster upgrade-list-tests' to get the list of tests.
software-pkg-md5	string	no	MD5 Hash of the software package to be uploaded to the Node.
software-pkg-url	string	no	URL where Cohesity Software package is available.
target-version	string	no	Target software version to be used for upgrade.

## cluster upgrade-check-list-tests

To list available upgrade check tests.

Parameter	Type	Required	Description
type	string	yes	Type of upgrade check tests, possible inputs are preupgrade or postupgrade

## cluster upgrade-check-run-tests

To run upgrade check tests.

Parameter	Type	Required	Description
skip-nodes	list of strings	no	Comma separated list of node IDs on which upgrade checks will not run
skip-tests	list of strings	no	Comma separated list of test case ids which will not run on all cluster nodes. Use command 'cluster upgrade-list-tests' to get the list of tests.
type	string	yes	Type of upgrade tests, possible inputs are preupgrade or postupgrade

## cluster upload-etc-hosts

To upload the hosts info to the cluster, the content of the hosts file will be uploaded.

Parameter	Type	Required	Description
file-path	string	no	Path of the hosts file to upload for cluster level /etc/hosts settings.

## cluster upload-license

To upload valid license string.

Parameter	Type	Required	Description
license	string	yes	To upload valid license string.

## cluster virtual-robo-create

To create a new Virtual ROBO cluster.

Parameter	Type	Required	Description
apps-subnet	string	no	Configure the subnet IP for apps configuration
apps-subnet-mask	string	no	Configure the subnet Mask for apps configuration
dns-server-ips	list of strings	yes	Comma separated list of DNS server IP addresses.
domain-names	list of strings	yes	Comma separated list of search domain names. First name is also the Cluster domain name which is mandatory.
enable-software-encryption	bool	no	Enable software encryption at Cluster level. WARNING: This option cannot be disabled later.
hostname	string	yes	Hostname for the Virtual IPs of the Cluster Partition.
ip-preference	int	no	Param to specify IP address preference, 1=IPv4(default) or 2=IPv6.
name	string	yes	Name of the Cluster.
node-ids	list of ints	no	Comma separated list of Node IDs.
node-ips	string	yes	Comma separated list of Node IP addresses (IPv4 or IPv6).
ntp-auth-enable	bool	no	Flag to enable NTP with authentication.
ntp-auth-key-ids	list of ints	no	Comma separated list of NTP server auth key IDs corresponding to each NTP server auth key.
ntp-auth-keys	list of strings	no	Comma separated list of NTP server auth keys corresponding to each NTP server.
ntp-servers	list of strings	yes	Comma separated list of NTP servers IPs/hostnames.



Parameter	Type	Required	Description
rotation-period-days	int	no	Period in days when data encryption key (DEK) is rotated. Default rotation period is 90 days.
subnet-gateway	string	no	Subnet gateway for the Cluster.
subnet-mask	string	yes	Subnet mask for the Cluster. Should be either in CIDR prefix or in dotted decimal.
trust-domain	string	no	Trust domain name of FQDN format.
vips	list of strings	no	Comma separated list of Virtual IP addresses. This is applicable only for Virtual Edition cluster create.

## csr

To run any csr related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To create a csr.
<code>delete</code>	<code>rm</code>	To delete a csr.
<code>import</code>		To import a certificate by csr.
<code>list</code>	<code>ls</code>	To list the csrs.

## csr create

To create a csr.

Parameter	Type	Required	Description
<code>city</code>	string	yes	The locality attribute, which is part of the distinguished name definition. It is used to identify the city where the company is located or the Cluster is installed.
<code>common-name</code>	string	no	The common name attribute, which is part of the distinguished name definition. Common name is used to specify a context for the certificate, for example, the name of the Cluster to which the certificate is to be assigned. Default value is the name of the Cluster.
<code>country</code>	string	yes	The country attribute, which is part of the distinguished name definition. It is used to identify the country where the state is located. It is specified as two letter code defined by the ISO standard.
<code>dns-names</code>	list of strings	no	An alternative subject name component to be included in the certificate. It is used to identify the ways the Cluster will be accessed. It is given as a comma separated list of FQDNs. The default value is the Cluster's VIP hostname.

Parameter	Type	Required	Description
email-address	string	no	An alternative subject name component to be included in the certificate. Format is a standard e-mail address, for example joe@company.com.
host-ips	list of strings	no	An alternative subject name component to be included in the certificate. It is used to identify the ways the Cluster will be accessed. It is given as a comma separated list of IP addresses. The default value is the Cluster's VIP addresses.
key-size	int	no	The size of the keys in bits. The default is 2048 bits for the RSA keys and 256 bits for ECDSA.
key-type	string	no	The algorithm to be used to generate the key pair. RSA is the default value.
organization	string	yes	The organization attribute, which is part of the distinguished name definition. It is used to specify the name of the company.
organization-unit	string	yes	Specifies the organization unit attribute, which is part of the distinguished name definition. It is used to identify the specific department or business unit in the company that is owning the Cluster.
service-name	string	no	Service for which the csr is created.
state	string	yes	The state attribute, which is part of the distinguished name definition. It is used to identify the state where the city is located.

## csr delete

To delete a csr.

Parameter	Type	Required	Description
id	string	yes	Csr ID.

## csr import

To import a certificate by csr.

Parameter	Type	Required	Description
certificate-path	string	yes	The path of the file of the certificate to be imported.
id	string	yes	Csr ID.

## csr list

To list the csrs.

Parameter	Type	Required	Description
ids	list of strings	no	Comma separated list of csr IDs.
service-name	string	no	Service for which the csr is created.

# custom-reporting

To run any custom reporting related operations.

Operation	Short Name	Description
database	db	To get details for running database information.

## disk

To run any Disk related operations.

Operation	Short Name	Description
<code>identify</code>	<code>ident</code>	To identify a disk on a node. Either a disk ID in the cluster, or a disk serial and the ID of the node that the disk is attached to need to be specified
<code>list</code>	<code>ls</code>	To list the disk details.

## disk identify

To identify a disk on a node. Either a disk ID in the cluster, or a disk serial and the ID of the node that the disk is attached to need to be specified

Parameter	Type	Required	Description
<code>cluster-id</code>	int	no	ID of the Cluster.
<code>disk-id</code>	int	no	ID of the Disk.
<code>identify</code>	bool	yes	Flag to toggle identification LED status.

## disk list

To list the disk details.

Parameter	Type	Required	Description
<code>fetch-disk-usage-details</code>	bool	no	Enable/Disable display of disk usage details.
<code>ids</code>	list of ints	no	Comma separated list of IDs.
<code>include-marked-for-removal</code>	bool	no	Include the nodes which have been marked for removal.

Parameter	Type	Required	Description
node-ids	list of ints	no	Comma separated list of Node IDs.
only-ready-for-removal	bool	no	Display disks which are ready for removal.
show-stats	bool	no	To display the computed statistics.
sum-disk-reservations	bool	no	To sum the disk reservations by different components across all the disks.

# firewall-ipset

To run any Firewall ipset related operations.

Operation	Short Name	Description
list	ls	To list the IP sets for the firewall.



# firewall-profile

To run any Firewall profile related operations.

Operation	Short Name	Description
<code>activate</code>		To activates a profile on a list of interfaces with a list of ipsets.
<code>create</code>	<code>add</code>	To create a collection of service ports with the protocol of each port for firewall.
<code>deactivate</code>		To deactivate a list of active firewall profiles, Each one will stop a profile on a list of interfaces with a list of ipsets.
<code>delete</code>	<code>rm</code>	To remove a list of profiles for firewall.

## firewall-profile activate

To activates a profile on a list of interfaces with a list of ipsets.

Parameter	Type	Required	Description
<code>action</code>	string	no	To define the action of the rule set. It can be either "allow" or "deny".
<code>desc</code>	string	no	Description of the firewall rule sets.
<code>interface-groups</code>	list of strings	no	Comma separated list of network interface groups.
<code>ipset-entries</code>	list of strings	no	Comma separated list of subnets/ips for the firewall Ipsets.
<code>profile-name</code>	string	no	Name of the firewall profile.
<code>revert-to-default</code>	bool	no	To revert all firewall rules to default settings.

## firewall-profile create

To create a collection of service ports with the protocol of each port for firewall.

Parameter	Type	Required	Description
directions	list of strings	no	Comma separated list of traffic directions. Direction can be "INPUT", "OUTPUT", or "FORWARD". "INPUT" is the default direction.
force	bool	no	Set to true to unlock the ports restriction.
name	string	yes	Name of the firewall profile.
ports	list of strings	yes	Comma separated list of service ports.

## firewall-profile deactivate

To deactivate a list of active firewall profiles, Each one will stop a profile on a list of interfaces with a list of ipsets.

Parameter	Type	Required	Description
profile-names	list of strings	yes	Comma separated list of names for the firewall profile.

## firewall-profile delete

To remove a list of profiles for firewall.

Parameter	Type	Required	Description
names	list of strings	yes	Comma separated list of names for the firewall profile.

## group

To run any Group related operations.

Operation	Short Name	Description
<code>add-smb-principal</code>		To add SMB principals as member to the group. SMB principals can be added only if "smb-only" set to true for a group.
<code>create</code>	<code>add</code>	To create a new Group.
<code>delete</code>	<code>rm</code>	To delete a Group.
<code>list</code>	<code>ls</code>	To list Groups.
<code>remove-smb-principal</code>		To delete SMB principal from a group.
<code>update</code>	<code>edit</code>	To update a Group.

## group add-smb-principal

To add SMB principals as member to the group. SMB principals can be added only if "smb-only" set to true for a group.

Parameter	Type	Required	Description
<code>domain</code>	string	no	Domain name of the principal.
<code>name</code>	string	yes	Name of the Group.
<code>principal-name</code>	string	no	Name of the SMB principal which may be a group or user.
<code>sid</code>	string	no	unique Security ID (SID) of the principal that look similar to windows domain SID.
<code>type</code>	string	no	Type can be a user or a group.

## group create

To create a new Group.

Parameter	Type	Required	Description
description	string	no	Description of the Group.
domain	string	no	Domain identifies User's logging in domain.
name	string	yes	Name of the Group.
roles	list of strings	no	Comma separated list of Roles for the Group.
users	list of strings	no	Comma separated list of User SIDs in the Group.

## group delete

To delete a Group.

Parameter	Type	Required	Description
domain	string	no	Domain identifies User's logging in domain.
names	list of strings	yes	Comma separated list of Group names.

## group list

To list Groups.

Parameter	Type	Required	Description
domain	string	no	Domain identifies User's logging in domain.
name	string	no	Name of the Group.

## group remove-smb-principal

To delete SMB principal from a group.

Parameter	Type	Required	Description
clear-smb-principals	bool	no	Removes all the SMB principals from the SMB group.
name	string	yes	Name of the Group.
principal-name	string	no	Name of the SMB principal which may be a group or user.

## group update

To update a Group.

Parameter	Type	Required	Description
description	string	no	Description of the Group.
domain	string	no	Domain identifies User's logging in domain.
name	string	yes	Name of the Group.
roles	list of strings	no	Comma separated list of Roles for the Group.
users	list of strings	no	Comma separated list of User SIDs in the Group.

# hyx-vlan

To run any Bifrost Vlan related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To add a Bifrost VLAN for the cluster
<code>delete</code>	<code>rm</code>	To remove a Bifrost VLAN from the cluster
<code>get</code>	<code>get</code>	To get Bifrost VLAN for given IfaceGroupName for the cluster
<code>tenant-disable</code>		This disables tenant-facing components of Internal Bifrost for the provided tenant ids
<code>tenant-enable</code>		This enables tenant-facing components of Internal Bifrost for the provided tenant ids
<code>update</code>	<code>edit</code>	To update a Bifrost VLAN for the cluster

## hyx-vlan create

To add a Bifrost VLAN for the cluster

Parameter	Type	Required	Description
<code>desc</code>	string	no	Description.
<code>id</code>	int	no	ID of the VLAN.
<code>mtu</code>	int	no	MTU for the interfaces.
<code>state</code>	string	no	This specifies the state of Bifrost VLAN. State can be UNKNOWN/ACTIVE/DISABLED/DELETING.
<code>subnet-gateway</code>	string	no	Subnet gateway for the Cluster.
<code>subnet-ip-cidr</code>	string	yes	Subnet IP CIDR

Parameter	Type	Required	Description
subnet-mask-bits	int	no	Subnet mask bits for the Cluster.
subnet-mask-ip4	string	no	Subnet mask for IPv4 type subnet of the Cluster.
tenant-id	string	no	To specify id of the tenant owning a resource.
type	string	yes	This specifies the type of Bifrost Vlan. Type can be EXTERNAL/INTERNAL.
vlan-interface-group	string	yes	Name of a network interface group.
vlan-ips	list of strings	no	Comma separated list of VLAN IP addresses.
vlan-name	string	no	VLAN Name for vlan-id created

## hyx-vlan delete

To remove a Bifrost VLAN from the cluster

Parameter	Type	Required	Description
tenant-id	string	no	To specify id of the tenant owning a resource.
vlan-interface-group	string	yes	Name of a network interface group.

## hyx-vlan get

To get Bifrost VLAN for given IfaceGroupName for the cluster

Parameter	Type	Required	Description
vlan-interface-group	string	yes	Name of a network interface group.

## hyx-vlan tenant-disable

This disables tenant-facing components of Internal Bifrost for the provided tenant ids

Parameter	Type	Required	Description
tenant-ids	list of strings	yes	To specify multiple tenant ids.

## hyx-vlan tenant-enable

This enables tenant-facing components of Internal Bifrost for the provided tenant ids

Parameter	Type	Required	Description
tenant-ids	list of strings	yes	To specify multiple tenant ids.

## hyx-vlan update

To update a Bifrost VLAN for the cluster

Parameter	Type	Required	Description
desc	string	no	Description.
id	int	no	ID of the VLAN.
mtu	int	no	MTU for the interfaces.
state	string	no	This specifies the state of Bifrost VLAN. State can be UNKNOWN/ACTIVE/DISABLED/DELETING.
subnet-gateway	string	no	Subnet gateway for the Cluster.
subnet-ip-cidr	string	no	Subnet IP CIDR
subnet-mask-bits	int	no	Subnet mask bits for the Cluster.



Parameter	Type	Required	Description
subnet-mask-ip4	string	no	Subnet mask for IPv4 type subnet of the Cluster.
tenant-id	string	no	To specify id of the tenant owning a resource.
type	string	no	This specifies the type of Bifrost Vlan. Type can be EXTERNAL/INTERNAL.
vlan-interface-group	string	yes	Name of a network interface group.
vlan-ips	list of strings	no	Comma separated list of VLAN IP addresses.
vlan-name	string	no	VLAN Name for vlan-id created

# interface-group

To run network interface group related operations.

Operation	Short Name	Description
<code>create</code>	add	To create the interface group in the cluster.
<code>delete</code>	rm	To delete the interface group in the cluster.
<code>update</code>	edit	To update the interface group in the cluster.

## interface-group create

To create the interface group in the cluster.

Parameter	Type	Required	Description
group-name	string	yes	Name of a network interface group.
group-type	int	no	Type of a network interface group. 1(Bond Interfaces), 2 (Loopback Interfaces). Default is 1.
interface-name	string	no	Name of the bond interface.
node-ids	list of ints	yes	Comma separated list of Node IDs.

## interface-group delete

To delete the interface group in the cluster.

Parameter	Type	Required	Description
group-name	string	yes	Name of a network interface group.

## interface-group update

To update the interface group in the cluster.

Parameter	Type	Required	Description
add-node-ids	list of ints	no	Comma separated list of Node IDs to add.
group-name	string	yes	Name of a network interface group.
interface-name	string	no	Name of the bond interface.
remove-node-ids	list of ints	no	Comma separated list of Node IDs to remove.

# interface

To run interface related operations.

Operation	Short Name	Description
<code>list</code>	<code>ls</code>	To list the network interfaces.
<code>update</code>	<code>edit</code>	To update interface params.

## interface list

To list the network interfaces.

Parameter	Type	Required	Description
<code>bondInterfaceOnly</code>	bool	no	To show only bond interface info.
<code>cache</code>	bool	no	To show interface cached information or not. Default is to read interface information from cache.
<code>include-bond-slave-details</code>	bool	no	To include bond slave details.
<code>include-stats</code>	bool	no	To include interface statistics.
<code>node-id</code>	int	no	ID of a Node.

## interface update

To update interface params.

Parameter	Type	Required	Description
<code>bonding-mode</code>	int	no	Bonding mode to use when bonding the NICs. Modes 1 (active-backup) and 4 (802.3ad) are supported. Mode 4 may require switch configuration. In cluster, the services need to be stopped before changing on primary interface group.

Parameter	Type	Required	Description
interface-name	string	yes	Name of the network interface. It can be bond interface, vlan interface or interface group.
lacp-rate	string	no	Rate option to use for link partner to transmit LACPDU packets in 802.3ad mode. Possible values are 0 (slow) and 1 (fast). Default setting is 0 (slow).
mtu	int	no	MTU for the interfaces.
xmit-hash-policy	string	no	Transmit hash policy to use for selection in 802.3ad mode. Possible values are 0 (layer2), 1 (layer3+4), and 2 (layer2+3). Default system setting is 1 (layer3+4).

## ip

To run ip related operations.

Operation	Short Name	Description
<code>config</code>		To configure IP parameters on the interface.
<code>delete</code>	<code>rm</code>	To delete IP parameters on the interface.

## ip config

To configure IP parameters on the interface.

Parameter	Type	Required	Description
<code>family</code>	<code>int</code>	<code>no</code>	Param to specify IP address family, 1=IPv4(default) or 2=IPv6.
<code>interface-ips</code>	<code>string</code>	<code>no</code>	Comma separated list of interface IP addresses (IPv4 only).
<code>interface-name</code>	<code>string</code>	<code>yes</code>	Name of the network interface. It can be bond interface, vlan interface or interface group.
<code>interface-role</code>	<code>string</code>	<code>no</code>	Role of the network interface. It can be primary, secondary.
<code>node-ids</code>	<code>list of ints</code>	<code>no</code>	Comma separated list of Node IDs.
<code>subnet-gateway</code>	<code>string</code>	<code>no</code>	Subnet gateway for the Cluster.
<code>subnet-mask-bits</code>	<code>int</code>	<code>no</code>	Subnet mask bits for the Cluster.

## ip delete

To delete IP parameters on the interface.

Parameter	Type	Required	Description
<code>family</code>	<code>int</code>	<code>no</code>	Param to specify IP address family, 1=IPv4(default) or 2=IPv6.

Parameter	Type	Required	Description
interface-name	string	yes	Name of the network interface. It can be bond interface, vlan interface or interface group.
node-ids	list of ints	no	Comma separated list of Node IDs.

## ipmi

To run IPMI related operations on local and other nodes of the cluster.

Operation	Short Name	Description
<code>cluster-update-lan-info</code>		Update IPMI LAN info in the cluster.
<code>cluster-update-users</code>		Update IPMI users in the cluster.
<code>get-fru-info</code>		To get IPMI FRU info.
<code>get-lan-info</code>		To get IPMI LAN info.
<code>get-sdr-info</code>		To get IPMI SDR info.
<code>get-sel</code>		To get the IPMI SEL list.
<code>get-sel-info</code>		To get IPMI SEL info.
<code>list-users</code>		To list IPMI users.
<code>reset-bmc</code>		To reset the BMC.
<code>show-system-led-info</code>		Show System LED information.

## ipmi cluster-update-lan-info

Update IPMI LAN info in the cluster.

Parameter	Type	Required	Description
<code>ipmi-subnet-gateway</code>	string	no	IPMI Subnet gateway.
<code>ipmi-subnet-mask</code>	string	no	IPMI Subnet mask should be either in CIDR prefix or in dotted decimal for IPv4.
<code>node-ipmi-ips</code>	list of strings	no	Comma separated list of Node IPMI IP addresses (IPv4 only).



Parameter	Type	Required	Description
node-ipmi-subnet-gateways	list of strings	no	Comma separated list of IPMI Subnetgateways.
node-ipmi-subnet-masks	list of strings	no	Comma separated list of IPMI Subnet masks. Mask should be a CIDR prefix or a dotted decimal for IPv4.
node-ips	list of strings	no	Comma separated list of Node IP addresses (IPv4 or IPv6).

## ipmi cluster-update-users

Update IPMI users in the cluster. For more information, see [Manage IPMI Configuration Using the Cohesity CLI](#).

Parameter	Type	Required	Description
ipmi-password	string	no	IPMI password for the Cluster.
ipmi-username	string	no	IPMI username for the Cluster.
node-ipmi-passwords	list of strings	no	IPMI passwords for the given nodes.
node-ipmi-usernames	list of strings	no	IPMI usernames for the given nodes.
node-ips	list of strings	no	Comma separated list of Node IP addresses (IPv4 or IPv6).

## ipmi get-fru-info

To get IPMI FRU info.

Parameter	Type	Required	Description
node-id	int	no	ID of a Node.
node-ip	string	no	Node IP addresses (IPv4 or IPv6).

## ipmi get-lan-info

To get IPMI LAN info.

Parameter	Type	Required	Description
node-id	int	no	ID of a Node.
node-ip	string	no	Node IP addresses (IPv4 or IPv6).

## ipmi get-sdr-info

To get IPMI SDR info.

Parameter	Type	Required	Description
node-id	int	no	ID of a Node.
node-ip	string	no	Node IP addresses (IPv4 or IPv6).

## ipmi get-sel

To get the IPMI SEL list.

Parameter	Type	Required	Description
node-id	int	no	ID of a Node.
node-ip	string	no	Node IP addresses (IPv4 or IPv6).
verbose	bool	no	If set to true, more information is displayed.

## ipmi get-sel-info

To get IPMI SEL info.

Parameter	Type	Required	Description
node-id	int	no	ID of a Node.
node-ip	string	no	Node IP addresses (IPv4 or IPv6).

## ipmi list-users

To list IPMI users.

Parameter	Type	Required	Description
node-id	int	no	ID of a Node.
node-ip	string	no	Node IP addresses (IPv4 or IPv6).

## ipmi reset-bmc

To reset the BMC.

Parameter	Type	Required	Description
node-id	int	no	ID of a Node.
node-ip	string	no	Node IP addresses (IPv4 or IPv6).

## ipmi show-system-led-info

Show System LED information.

Parameter	Type	Required	Description
node-ip	string	no	Node IP address for which system LED information is displayed.

# kms

To run any KMS related operations.

Operation	Short Name	Description
<code>create-aws</code>		Create a new aws KMS.
<code>create-azure</code>		Create a new Azure KMS.
<code>create-kmip</code>		Create a new kmip KMS.
<code>delete</code>	<code>rm</code>	To delete a KMS by Id.
<code>list</code>		To list KMS.
<code>update-aws</code>		Update an existing aws KMS.
<code>update-kmip</code>		Update an existing kmip KMS.

## kms create-aws

Create a new aws KMS.

Parameter	Type	Required	Description
<code>access-key-id</code>	string	no	The AWS account access key Id.
<code>arn</code>	string	no	The amazon resource number of the CMK.
<code>auth-method</code>	string	yes	The AWS Auth method.
<code>ca-certificate-path</code>	string	no	File path to ca-certificate.
<code>iam-role-arn</code>	string	no	Specify the IamRole ARN for CE. It can either kUseIAMUser or kUseIAMRole.
<code>key-alias</code>	string	no	Key alias of the CMK.
<code>key-id</code>	string	no	The amazon CMK key ID.

Parameter	Type	Required	Description
key-name	string	yes	Name of the KMS Key.
region	string	no	region
secret-access-key	string	no	The AWS account secret Access key.
vault-ids	list of ints	no	Comma separated list of vault ids.
verify-ssl	bool	no	Specify whether to verify SSL certificate when try to access aws kms server.
view-box-ids	list of ints	no	Comma separated list of Storage Domain IDs.

## kms create-azure

Create a new Azure KMS.

Parameter	Type	Required	Description
azure-client-id	string	no	Azure Client Id.
azure-client-secret-key	string	no	Specify Azure client secret key.
azure-kms-auth-method	string	yes	The AWS Auth method.
azure-tenant-id	string	no	Azure Tenant Id.
customer-secret-name	string	no	Specifies the name of client secret stored in cohesity keyvault.
key-name	string	yes	Name of the KMS Key.
keyvault-key-name	string	no	Specify the Key name used to encrypt decrypt DEK.
keyvault-url	string	no	Specify the URL of the Azure key vault.
vault-ids	list of ints	no	Comma separated list of vault ids.

Parameter	Type	Required	Description
<code>vault-owner</code>	string	yes	Specifies if its a cohesity managed or customer managed key vault.
<code>keyvault-key-name</code>	string	no	Specify the Key name used to encrypt decrypt DEK.

## kms create-kmip

Create a new kmip KMS.

Parameter	Type	Required	Description
<code>additional-address</code>	list of strings	no	Additional IP addresses or FQDNs of the KMS server.
<code>ca-certificate-path</code>	string	yes	File path to ca-certificate.
<code>client-certificate</code>	string	yes	File path to client-certificate.
<code>client-key</code>	string	yes	File path to client-key.
<code>ip</code>	string	yes	IP address or FQDN of the KMS server.
<code>key-name</code>	string	yes	Name of the KMS Key.
<code>kmip-protocol-version</code>	string	yes	kmip-protocol-version
<code>port</code>	int	yes	KMS Port. Default KMIP port is 5696.
<code>vault-ids</code>	list of ints	no	Comma separated list of vault ids.
<code>view-box-ids</code>	list of ints	no	Comma separated list of Storage Domain IDs.

## kms delete

To delete a KMS by Id.

Parameter	Type	Required	Description
id	int	yes	The Id of a KMS server.

## kms list

To list KMS.

Parameter	Type	Required	Description
id	int	no	The Id of a KMS server.

## kms update-aws

Update an existing aws KMS.

Parameter	Type	Required	Description
access-key-id	string	no	The AWS account access key Id.
ca-certificate-path	string	no	File path to ca-certificate.
id	int	yes	The Id of a KMS server.
key-name	string	yes	Name of the KMS Key.
secret-access-key	string	no	The AWS account secret Access key.
vault-ids	list of ints	no	Comma separated list of vault ids.
verify-ssl	bool	no	Specify whether to verify SSL certificate when try to access aws kms server.
view-box-ids	list of ints	no	Comma separated list of Storage Domain IDs.

## kms update-kmip

Update an existing kmip KMS.

Parameter	Type	Required	Description
additional-address	list of strings	no	Additional IP addresses or FQDNs of the KMS server.
ca-certificate-path	string	no	File path to ca-certificate.
client-certificate	string	no	File path to client-certificate.
client-key	string	no	File path to client-key.
confirm	bool	yes	Confirming to update KMS server. Please make sure the new updated information is for the same KMS server configured before.
id	int	yes	The Id of a KMS server.
ip	string	no	IP address or FQDN of the KMS server.
key-name	string	no	Name of the KMS Key.
kmip-protocol-version	string	no	kmip-protocol-version
port	int	no	KMS Port. Default KMIP port is 5696.
vault-ids	list of ints	no	Comma separated list of vault ids.
view-box-ids	list of ints	no	Comma separated list of Storage Domain IDs.



# ldap

To run any LDAP related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To add an LDAP provider to the cluster.
<code>delete</code>	<code>rm</code>	To delete an LDAP provider from the cluster.
<code>update</code>	<code>edit</code>	To update an LDAP provider to the cluster.

## ldap create

To add an LDAP provider to the cluster.

Parameter	Type	Required	Description
<code>active-directory-domain-name</code>	<code>string</code>	<code>no</code>	The active directory domain that should be mapped to this LDAP.
<code>attribute-common-name</code>	<code>string</code>	<code>no</code>	Name of the LDAP attribute used for common name of an object.
<code>attribute-gid</code>	<code>string</code>	<code>no</code>	Name of the attribute used to lookup unix GID of an LDAP user.
<code>attribute-member-of</code>	<code>string</code>	<code>no</code>	Name of the LDAP attribute used to lookup members of a group.
<code>attribute-uid</code>	<code>string</code>	<code>no</code>	Name of the attribute used to lookup unix UID of an LDAP user.
<code>attribute-user-name</code>	<code>string</code>	<code>no</code>	Name of the LDAP attribute used to lookup a user by user ID.
<code>auth-type</code>	<code>string</code>	<code>yes</code>	Authentication type used while connecting to LDAP servers. This can be Simple or Anonymous.

Parameter	Type	Required	Description
base-distinguished-name	string	yes	Base distinguished name used as the base for LDAP search requests.
domain-name	string	no	Domain name of the LDAP provider.
ldap-name	string	yes	User defined name of the LDAP provider.
object-class-group	string	no	Name of the LDAP group object class for user accounts.
object-class-user	string	no	Name of the LDAP user object class for user accounts.
port	string	no	Port on which LDAP server is listening on.
preferred-ldap-servers	list of strings	no	Preferred LDAP servers in fully qualified domain name (FQDN) format or IP address format.
use-ssl	bool	no	Specifies whether to use SSL for LDAP connections.
user-distinguished-name	string	yes	User distinguished name that is used for LDAP authentication.
user-password	string	yes	User password that is used for LDAP authentication.

## ldap delete

To delete an LDAP provider from the cluster.

Parameter	Type	Required	Description
ldap-id	int	yes	Id of the LDAP provider.

## ldap update

To update an LDAP provider to the cluster.

Parameter	Type	Required	Description
active-directory-domain-name	string	no	The active directory domain that should be mapped to this LDAP.
auth-type	string	no	Authentication type used while connecting to LDAP servers. This can be Simple or Anonymous.
base-distinguished-name	string	no	Base distinguished name used as the base for LDAP search requests.
domain-name	string	no	Domain name of the LDAP provider.
ldap-id	int	yes	Id of the LDAP provider.
ldap-name	string	no	User defined name of the LDAP provider.
port	string	no	Port on which LDAP server is listening on.
preferred-ldap-servers	list of strings	no	Preferred LDAP servers in fully qualified domain name (FQDN) format or IP address format.
use-ssl	bool	no	Specifies whether to use SSL for LDAP connections.
user-distinguished-name	string	no	User distinguished name that is used for LDAP authentication.
user-password	string	no	User password that is used for LDAP authentication.

## mfa-config

To run any cluster MFA config related operations.

Operation	Short Name	Description
list	ls	To list MFA config on the cluster.
update	edit	To update MFA config on the cluster.

## mfa-config update

To update MFA config on the cluster.

Parameter	Type	Mandatory	Description
authentication-types	list of strings	no	Specifies cluster MFA authentication types: totp, email.
is-cluster-mfa-enabled	bool	no	Specifies if enable/disable cluster MFA.

## nfs-share

To run any NFS share related operations.

Operation	Short Name	Description
<code>configure</code>		To configure NFS shares on the NFS server and mount them to all node in the cluster.
<code>create-snapshot</code>		To create snapshots of NFS shares on the NFS server.
<code>delete-remote-storage</code>		To unregister/remove a registered remote storage.
<code>list</code>		To list all NFS shares in the cluster.
<code>list-remote-storages</code>		To list registered remote storages.
<code>migrate</code>		To migrate a NFS share to a different node in the cluster.
<code>mount</code>		To mount NFS shares to a node in the cluster. If the node ID is not specified, the NFS shares will be distributed and mounted to all nodes in the cluster.
<code>register-remote-storage</code>		To register/add a new remote storage.
<code>update-data-vips</code>		To update the registered FlashBlade data VIPs and use these data VIPs to remount all NFS shares.
<code>update-remote-storage</code>		To update info of a registered remote storage.

## nfs-share configure

To configure NFS shares on the NFS server and mount them to all node in the cluster.

Parameter	Type	Required	Description
<code>available-capacity</code>	int	yes	Total available capacity for creating NFS shares.
<code>data-vips</code>	list of strings	yes	Data VIPs for mounting NFS shares.

## nfs-share create-snapshot

To create snapshots of NFS shares on the NFS server.

Parameter	Type	Required	Description
cluster-id	int	no	ID of the Cluster to take snapshot of all NFS shares that belong to the cluster.
nfs-share-names	list of strings	no	Comma separated list of NFS share names.
node-id	int	no	ID of the Node to take snapshot of all NFS shares that belong to the node.
suffix	string	no	Suffix to add to the snapshot name.

## nfs-share delete-remote-storage

To unregister/remove a registered remote storage.

Parameter	Type	Required	Description
id	int	yes	The id of registered remote storage.

## nfs-share list

To list all NFS shares in the cluster.

Parameter	Type	Required	Description
cluster-id	int	no	ID of the Cluster.

## nfs-share migrate

To migrate a NFS share to a different node in the cluster.

Parameter	Type	Required	Description
disk-id	int	yes	ID of the Disk.
node-id	int	yes	ID of the Node to which the NFS share is migrated.

## nfs-share mount

To mount NFS shares to a node in the cluster. If the node ID is not specified, the NFS shares will be distributed and mounted to all nodes in the cluster.

Parameter	Type	Required	Description
data-vips	list of strings	yes	Data VIPs for mounting NFS shares.
nfs-share-names	list of strings	yes	Comma separated list of NFS share names.
node-id	int	no	ID of the Node to which the NFS share is mounted.
storage-tier	string	yes	Storage Tier to be assigned to the NFS share. It can be 'PCIeSSD', 'SATA-SSD' or 'SATA-HDD'.

## nfs-share register-remote-storage

To register/add a new remote storage.

Parameter	Type	Required	Description
api-token	string	yes	Api token of the management server of remote storage.
ip	string	yes	Management ip address of remote storage.

## nfs-share update-data-vips

To update the registered FlashBlade data VIPs and use these data VIPs to remount all NFS shares.

Parameter	Type	Required	Description
data-vips	list of strings	no	Data VIPs for mounting NFS shares.

## nfs-share update-remote-storage

To update info of a registeredremote storage.

Parameter	Type	Required	Description
api-token	string	yes	Api token of the management server of remote storage.
id	int	yes	The id of registered remote storage.
ip	string	yes	Management ip address of remote storage.



## node-csr

To run any node csr related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To create a csr for the node.
<code>import</code>		To import and install signed csr and ca cert used to sign the certificate signing request.
<code>update-hostnames</code>		Update hostnames in the cluster when node-ids and hostnames are provided.

## node-csr create

To create a csr for the node.

Parameter	Type	Required	Description
<code>city</code>	string	yes	The locality attribute, which is part of the distinguished name definition. It is used to identify the city where the company is located or the Cluster is installed.
<code>common-name</code>	string	no	The common name attribute, which is part of the distinguished name definition. Common name is used to specify a context for the certificate, for example, the name of the Node (attributed by node ip) to which the certificate is to be assigned.
<code>country</code>	string	yes	The country attribute, which is part of the distinguished name definition. It is used to identify the country where the state is located. It is specified as two letter code defined by the ISO standard.
<code>dns-names</code>	list of strings	no	An alternative subject name component to be included in the certificate. It is given as a comma separated list of FQDNs. If not passed, it shall not be set in the certificate request.

Parameter	Type	Required	Description
email-address	string	no	An alternative subject name component to be included in the certificate. Format is a standard e-mail address, for example joe@company.com.
host-ip	string	no	An alternative subject name component to be included in the certificate. The value passed should be the valid ip address of the node.
organization	string	yes	The organization attribute, which is part of the distinguished name definition. It is used to specify the name of the company.
organization-unit	string	yes	Specifies the organization unit attribute, which is part of the distinguished name definition. It is used to identify the specific department or business unit in the company that is owning the Node.
state	string	yes	The state attribute, which is part of the distinguished name definition. It is used to identify the state where the city is located.

## node-csr import

To import and install signed csr and ca cert used to sign the certificate signing request.

Parameter	Type	Required	Description
cacert-path	string	yes	The path of the file of the ca certificate which was used to sign the csr for the node.
signedcert-path	string	yes	The path of the file of the signed certificate to be imported for the particular node.

## node-csr update-hostnames

Update hostnames in the cluster when node-ids and hostnames are provided.

Parameter	Type	Required	Description
host-names	list of strings	yes	Comma separated list of hostnames. Run allsssh.sh hostname to get all the hostnames, or set the desired hostnames, The order should correspond to the same which was provided in node-ids.
node-ids	list of ints	yes	Type of a node group. Possible values are 1 (Zone), 2 (Bgp config), 3 (Ospf config) and 4 (Dns).

## node-group

To run node group related operations.

Operation	Short Name	Description
<code>create-bgp</code>		To create a BGP node group.
<code>create-dns</code>		To create a DNS node group.
<code>create-zone</code>		To create a ZONE node group.
<code>delete</code>	<code>rm</code>	To delete the node group in the cluster.
<code>list</code>	<code>ls</code>	To list the node groups in the cluster.
<code>update-bgp</code>		To update a BGP node group.
<code>update-dns</code>		To update a DNS node group.
<code>update-zone</code>		To update a ZONE node group.

## node-group create-bgp

To create a BGP node group.

Parameter	Type	Required	Description
<code>group-name</code>	string	yes	Name of a node group.
<code>hold-time</code>	int	no	BGP instance hold time in seconds.
<code>keepalive-time</code>	int	no	BGP instance keep alive interval in seconds.
<code>local-as</code>	int	yes	BGP peer local AS number.
<code>node-ids</code>	list of ints	yes	Comma separated list of Node IDs.
<code>peer-address</code>	list of strings	yes	Comma separated list of BGP IP addresses.

Parameter	Type	Required	Description
peer-description	list of strings	no	Comma separated list of BGP peer descriptions.
peer-hold-time	list of ints	no	Comma separated list of BGP peer hold times in seconds.
peer-keepalive-time	list of ints	no	Comma separated list of BGP peer keep alive intervals in seconds.
peer-remote-as	list of ints	yes	Comma separated list of BGP peer remote AS numbers.

## node-group create-dns

To create a DNS node group.

Parameter	Type	Required	Description
dns-server-ips	list of strings	yes	Comma separated list of DNS server IP addresses.
group-name	string	yes	Name of a node group.
node-ids	list of ints	yes	Comma separated list of Node IDs.

## node-group create-zone

To create a ZONE node group.

Parameter	Type	Required	Description
group-name	string	yes	Name of a node group.
node-ids	list of ints	yes	Comma separated list of Node IDs.
subnet-gateway	string	no	Subnet gateway for the Cluster.
subnet-ip	string	yes	Subnet IP for the Cluster.
subnet-mask-bits	int	yes	Subnet mask bits for the Cluster.

## node-group delete

To delete the node group in the cluster.

Parameter	Type	Required	Description
group-name	string	yes	Name of a node group.

## node-group list

To list the node groups in the cluster.

Parameter	Type	Required	Description
group-names	list of strings	no	Comma separated list of node group names.
group-type	int	no	Type of a node group. Possible values are 1 (Zone), 2 (Bgp config), 3 (Ospf config) and 4 (Dns).

## node-group update-bgp

To update a BGP node group.

Parameter	Type	Required	Description
add-node-ids	list of ints	no	Comma separated list of Node IDs to add.
group-name	string	yes	Name of a node group.
hold-time	int	no	BGP instance hold time in seconds.
keepalive-time	int	no	BGP instance keep alive interval in seconds.
peer-address	list of strings	no	Comma separated list of BGP IP addresses.
peer-description	list of strings	no	Comma separated list of BGP peer descriptions.
peer-hold-time	list of ints	no	Comma separated list of BGP peer hold times in seconds.

Parameter	Type	Required	Description
peer-keepalive-time	list of ints	no	Comma separated list of BGP peer keep alive intervals in seconds.
peer-remote-as	list of ints	no	Comma separated list of BGP peer remote AS numbers.
remove-node-ids	list of ints	no	Comma separated list of Node IDs to remove.

## node-group update-dns

To update a DNS node group.

Parameter	Type	Required	Description
add-node-ids	list of ints	no	Comma separated list of Node IDs to add.
dns-server-ips	list of strings	no	Comma separated list of DNS server IP addresses.
group-name	string	yes	Name of a node group.
remove-node-ids	list of ints	no	Comma separated list of Node IDs to remove.

## node-group update-zone

To update a ZONE node group.

Parameter	Type	Required	Description
add-node-ids	list of ints	no	Comma separated list of Node IDs to add.
group-name	string	yes	Name of a node group.
remove-node-ids	list of ints	no	Comma separated list of Node IDs to remove.
subnet-gateway	string	no	Subnet gateway for the Cluster.

Parameter	Type	Required	Description
subnet-ip	string	no	Subnet IP for the Cluster.
subnet-mask-bits	int	no	Subnet mask bits for the Cluster.



## node

To run any Node related operations.

Operation	Short Name	Description
<code>configure-network</code>		To configure network on nodes before cluster is created.
<code>delete</code>	<code>rm</code>	To mark the Node for removal.
<code>discover-free-nodes</code>	<code>ls-free-nodes</code>	To list the free nodes.
<code>full-info</code>		To get whole info of the node.
<code>identify</code>	<code>ident</code>	To identify a node in a chassis.
<code>list</code>	<code>ls</code>	To list the Node details.
<code>list-packages</code>	<code>ls-pkgs</code>	To list the available Cohesity software packages on a Node.
<code>status</code>		To get the status of the Node.
<code>upload-package</code>	<code>upload-pkg</code>	To upload a software package to the Node.

## node configure-network

To configure network on nodes before cluster is created.

Parameter	Type	Required	Description
<code>bonding-mode</code>	string	no	Bonding mode to use when bonding the NICs. Modes 1 (active-backup) and 4 (802.3ad) are supported. Mode 4 may require switch configuration. In cluster, the services need to be stopped before changing on primary interface group.
<code>ipmi-password</code>	string	no	IPMI password for the Cluster.
<code>ipmi-subnet-gateway</code>	string	no	IPMI Subnet gateway.

Parameter	Type	Required	Description
ipmi-subnet-mask	string	no	IPMI Subnet mask should be either in CIDR prefix or in dotted decimal for IPv4.
ipmi-username	string	no	IPMI username for the Cluster.
node-ids	list of ints	yes	Comma separated list of Node IDs.
node-ipmi-ips	list of strings	no	Comma separated list of Node IPMI IP addresses (IPv4 only).
node-ips	list of strings	yes	Comma separated list of Node IP addresses (IPv4 or IPv6).
subnet-gateway	string	yes	Subnet gateway for the Cluster.
subnet-mask	string	yes	Subnet mask for the Cluster. Should be either in CIDR prefix or in dotted decimal.

## node delete

To mark the Node for removal.

Parameter	Type	Required	Description
id	int	yes	ID of a Node.

## node identify

To identify a node in a chassis.

Parameter	Type	Required	Description
cluster-id	int	yes	ID of the Cluster.
id	int	yes	ID of a Node.
identify	bool	yes	Flag to toggle identification LED status.

## node list

To list the Node details.

Parameter	Type	Required	Description
cluster-partition-ids	list of ints	no	Comma separated list of Cluster Partition IDs.
ids	list of ints	no	Comma separated list of Node IDs.
include-marked-for-removal	bool	no	Include the nodes which have been marked for removal.
include-only-unassigned-nodes	bool	no	Include only the nodes which have not been assigned to any Cluster.
show-stats	bool	no	To display the computed statistics.
show-system-disks	bool	no	To display the system disks details.

## node upload-package

To upload a software package to the Node.

Parameter	Type	Required	Description
cancel	bool	no	Cancel any ongoing package upload.
software-pkg-file-path	string	no	Local file path where the Cohesity Software package is available.
software-pkg-md5	string	no	MD5 Hash of the software package to be uploaded to the Node.
software-pkg-url	string	no	URL where Cohesity Software package is available.
software-version	string	no	Software version of the package.

## patch

To run any Patch related operations.

Operation	Short Name	Description
<code>apply</code>		To apply dependent patches.
<code>history</code>		To list patch operations.
<code>import</code>		To import a patch or a hotfix.
<code>list</code>	<code>ls</code>	To list Patch details.
<code>revert</code>		To revert dependent patches.
<code>status</code>		To get the status of the current or the last patch operations.

## patch apply

To apply dependent patches.

Parameter	Type	Required	Description
<code>all</code>	bool	no	Apply all the available patches.
<code>service-name</code>	string	no	Apply the patch for the service name.

## patch history

To list patch operations.

Parameter	Type	Required	Description
<code>service-name</code>	string	no	If a service name is given, the patch operations for the service are shown. Otherwise, all operations are shown.

## patch import

To import a patch or a hotfix.

Parameter	Type	Required	Description
file-path	string	yes	Local path to the patch or the hotfix file.

## patch list

To list Patch details.

Parameter	Type	Required	Description
applied	bool	no	If applied is given, or set to true, shows the applied patches. By default, shows the available patches.
details	bool	no	If details is given, or set to true, shows the fixed issues. By default, shows only the number of fixed issues.
service-name	string	no	If a service name is given, only the patch for the service is shown. Otherwise, all patches are shown.

## patch revert

To revert dependent patches.

Parameter	Type	Required	Description
service-name	string	yes	Name of the service whose patch should be reverted.

## patch status

To get the status of the current or the last patch operations.

Parameter	Type	Required	Description
details	bool	no	If details is given, or set to true, shows the progress of operation for each service on each node.

# privilege

To run any Privilege related operations.

Operation	Short Name	Description
<code>list</code>	<code>ls</code>	To list Privileges.

## privilege list

To list Privileges.

Parameter	Type	Required	Description
<code>name</code>	<code>string</code>	<code>no</code>	Name of the Privilege to list

# protection-job

To run any Protection Job related operations.

Operation	Short Name	Description
<code>cancel</code>		To cancel a running protection job.

## protection-job cancel

To cancel a running protection job.

Parameter	Type	Required	Description
<code>id</code>	<code>int</code>	no	Id of the job.
<code>name</code>	<code>string</code>	no	Name of the job.

## qos-profile

To run any Qos profile related operations.

Operation	Short Name	Description
<code>activate</code>		To activate a profile on a list of interfaces with a list of ipsets.
<code>create</code>	<code>add</code>	To create a collection of service ports with the protocol of each port for QoS.
<code>deactivate</code>		To deactivate a list of active QoS profiles, Each one will stop a profile on matching packets.
<code>delete</code>	<code>rm</code>	To remove a list of profiles for QoS.
<code>feature</code>		To enable/disable Qos feature.
<code>list</code>	<code>ls</code>	To list the groups of qos profiles.
<code>list-active</code>	<code>ls-active</code>	To list all the active QoS profiles. Each attachment activates a profile on specific ipsets.
<code>revert-to-default</code>		To revert all QoS profile to factory default configuration

## qos-profile activate

To activate a profile on a list of interfaces with a list of ipsets.

Parameter	Type	Required	Description
<code>desc</code>	<code>string</code>	<code>no</code>	Description of the QoS rule sets.
<code>ipset-entries</code>	<code>list of strings</code>	<code>no</code>	Comma separated list of subnets/ips for the firewall Ipsets.
<code>mark-dscp</code>	<code>int</code>	<code>yes</code>	To mark dscp value in the outgoing packet.
<code>profile-name</code>	<code>string</code>	<code>yes</code>	Name of the QoS profile.

## qos-profile create

To create a collection of service ports with the protocol of each port for QoS.



Parameter	Type	Required	Description
direction	string	no	Data Traffic direction that can be only ""OUTPUT""
force	bool	no	Set to true to unlock the ports restriction.
name	string	yes	Name of the QoS profile.
ports	list of strings	no	Comma separated list of service ports.
priority	int	no	Decides the order in which rule is applied. Lower the number higher the priority.

## qos-profile deactivate

To deactivate a list of active QoS profiles, Each one will stop a profile on matching packets.

Parameter	Type	Required	Description
profile-names	list of strings	yes	Comma separated list of names for the QoS profile.

## qos-profile delete

To remove a list of profiles for QoS.

Parameter	Type	Required	Description
names	list of strings	yes	Comma separated list of names for the QoS profile.

## qos-profile feature

To enable/disable Qos feature.

Parameter	Type	Required	Description
enable	bool	yes	To enable/disable Qos feature.

# rack

To manage racks in cluster.

Operation	Short Name	Description
<code>create</code>	add	To add a rack to cluster.
<code>list</code>	ls	To get all racks or one rack information in a cluster.
<code>update</code>	edit	To update a rack.

## rack create

To add a rack to cluster.

Parameter	Type	Required	Description
chassis-ids	list of ints	no	List of chassis in a rack.
location	string	no	The location of a rack.
name	string	yes	The name of rack.

## rack list

To get all racks or one rack information in a cluster.

Parameter	Type	Required	Description
id	int	no	The id of a rack.

## rack update

To update a rack.

Parameter	Type	Required	Description
chassis-ids	list of ints	no	List of chassis in a rack.
id	int	yes	The id of a rack.
location	string	no	The location of a rack.
name	string	no	The name of rack.

## remote-cluster

To run any remote Cluster registration related operations.

Operation	Short Name	Description
<code>add-bandwidth-limit-override-window</code>	<code>add-blow</code>	To add a bandwidth limit override window.
<code>add-storage-domain-mapping</code>		To add local Storage Domain to remote Storage Domain mapping. Only one to one mapping is allowed between local Storage Domains and remote Storage Domains.
<code>create</code>	<code>add</code>	To register a remote Cluster.
<code>delete</code>	<code>rm</code>	To delete the registration of a remote Cluster.
<code>delete-storage-domain-mapping</code>		To delete the local Storage Domain to remote Storage Domain mapping.
<code>list</code>	<code>ls</code>	To list the registration information for remote Clusters.
<code>list-remote-storage-domains</code>		To list the Storage Domains of the remote Cluster.
<code>update</code>	<code>edit</code>	To update registration of remote Cluster.

## remote-cluster add-bandwidth-limit-override-window

To add a bandwidth limit override window.

Parameter	Type	Required	Description
<code>bandwidth-limit</code>	<code>int</code>	yes	Bandwidth limit in bytes/second from the local Cluster to the remote Cluster.
<code>cluster-id</code>	<code>int</code>	yes	ID of the remote Cluster.
<code>end-time</code>	<code>string</code>	yes	Bandwidth limit override window end time in hh:mm format.

Parameter	Type	Required	Description
start-time	string	yes	Bandwidth limit override window start time in hh:mm format.
timezone	string	no	Timezone used for bandwidth limit enforcement.
week-days	list of strings	no	Comma separated list of week days in the format su,m,tu,w,th,f,sa.

## remote-cluster add-storage-domain-mapping

To add local Storage Domain to remote Storage Domain mapping. Only one to one mapping is allowed between local Storage Domains and remote Storage Domains.

Parameter	Type	Required	Description
cluster-id	int	yes	ID of the remote Cluster.
local-storage-domain-id	int	no	ID of the Local Storage Domain.
local-storage-domain-name	string	no	Name of the Local Storage Domain.
remote-storage-domain-id	int	no	ID of the Remote Storage Domain.
remote-storage-domain-name	string	no	Name of the Remote Storage Domain.

## remote-cluster create

To register a remote Cluster.

Parameter	Type	Required	Description
all-endpoints-reachable	bool	no	Whether any endpoint on the remote Cluster is reachable from this cluster.
bandwidth-limit	int	no	Bandwidth limit in bytes/second from the local Cluster to the remote Cluster.
compression-enabled	bool	no	Flag to enable or disable the compression.
encryption-key	string	no	Key for encryption. Enter the same key in the local and remote cluster to set up encryption for replication traffic.
interface-name	string	no	Name of the network interface. It can be bond interface, vlan interface or interface group.
password	string	yes	Password of the user to connect to the remote Cluster.
remote-ips	list of strings	yes	Ip addresses to connect to nodes of remote Cluster
user-name	string	yes	Username of the user to connect to the remote Cluster.

## remote-cluster delete

To delete the registration of a remote Cluster.

Parameter	Type	Required	Description
cluster-id	int	yes	ID of the remote Cluster.

## remote-cluster delete-storage-domain-mapping

To delete the local Storage Domain to remote Storage Domain mapping.

Parameter	Type	Required	Description
cluster-id	int	yes	ID of the remote Cluster.

Parameter	Type	Required	Description
local-storage-domain-id	int	no	ID of the Local Storage Domain.
local-storage-domain-name	string	no	Name of the Local Storage Domain.
remote-storage-domain-id	int	no	ID of the Remote Storage Domain.
remote-storage-domain-name	string	no	Name of the Remote Storage Domain.

## remote-cluster list

To list the registration information for remote Clusters.

Parameter	Type	Required	Description
ids	list of ints	no	Comma separated list of IDs.
names	list of strings	no	Comma separated list of remote Cluster names.

## remote-cluster list-remote-storage-domains

To list the Storage Domains of the remote Cluster.

Parameter	Type	Required	Description
cluster-id	int	yes	ID of the remote Cluster.
cluster-partition-ids	list of ints	no	Comma separated list of IDs.
ids	list of ints	no	Comma separated list of IDs.

Parameter	Type	Required	Description
include-marked-for-removal	bool	no	Include the nodes which have been marked for removal.
names	list of strings	no	Comma separated names of the Storage Domains.
show-stats	bool	no	To display the computed statistics.

## remote-cluster update

To update registration of remote Cluster.

Parameter	Type	Required	Description
all-endpoints-reachable	bool	no	Whether any endpoint on the remote Cluster is reachable from this cluster.
bandwidth-limit	int	no	Bandwidth limit in bytes/second from the local Cluster to the remote Cluster.
cluster-id	int	yes	ID of the remote Cluster.
compression-enabled	bool	no	Flag to enable or disable the compression.
encryption-key	string	no	Key for encryption. Enter the same key in the local and remote cluster to set up encryption for replication traffic.
interface-name	string	no	Name of the network interface. It can be bond interface, vlan interface or interface group.
password	string	no	Password of the user to connect to the remote Cluster.
remote-ips	list of strings	no	Ip addresses to connect to nodes of remote Cluster
user-name	string	no	Username of the user to connect to the remote Cluster.



## role

To run any Role related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To create a new Role.
<code>delete</code>	<code>rm</code>	To delete a Role.
<code>list</code>	<code>ls</code>	To list Roles.
<code>update</code>	<code>edit</code>	To update a Role.

## role create

To create a new Role.

Parameter	Type	Required	Description
<code>description</code>	string	no	Description of the Role.
<code>name</code>	string	yes	Name of the Role.
<code>privileges</code>	list of strings	no	Comma separated list of Privileges.

## role delete

To delete a Role.

Parameter	Type	Required	Description
<code>names</code>	list of strings	yes	Name of the Roles to delete.

## role list

To list Roles.

Parameter	Type	Required	Description
name	string	no	Name of the Role.

## role update

To update a Role.

Parameter	Type	Required	Description
description	string	no	Description of the Role.
name	string	yes	Name of the Role.
privileges	list of strings	no	Comma separated list of Privileges.

## route

To run any Static Route related operations. A Static Route designates which VLAN and Network Interfaces to use for communication with a particular destination network.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To add a new Static Route.
<code>delete</code>	<code>rm</code>	To remove an existing Static Route.
<code>list</code>	<code>ls</code>	To list all the configured routes.

## route create

To add a new Static Route.

Parameter	Type	Required	Description
<code>advms</code>	<code>int</code>	<code>no</code>	TCP MSS ( <code>advms</code> ) value exchanged during connection establishment for the clients reachable by this route.
<code>desc</code>	<code>string</code>	<code>no</code>	Description.
<code>dest-network</code>	<code>string</code>	<code>yes</code>	Destination network: ip/prefix.
<code>interface-group</code>	<code>string</code>	<code>no</code>	Name of a network interface group.
<code>interface-name</code>	<code>string</code>	<code>no</code>	Interface Name such as <code>bond0</code> . It is only used on free node.
<code>mtu</code>	<code>int</code>	<code>no</code>	MTU for the static route.
<code>next-hop</code>	<code>string</code>	<code>yes</code>	Next hop to destination network.
<code>node-group</code>	<code>string</code>	<code>no</code>	Name of a node group. This is only required in multiple subnet cluster.

## route delete

To remove an existing Static Route.

Parameter	Type	Required	Description
dest-network	string	yes	Destination network: ip/prefix.
interface-group	string	no	Name of a network interface group.
interface-name	string	no	Interface Name such as bond0. It is only used on free node.
node-group	string	no	Name of a node group. This is only required in multiple subnet cluster.

# routing

Routing commands.

Operation	Short Name	Description
<code>show-bgp-neighbors</code>		Shows neighbors information of BGP.
<code>show-bgp-nexthop</code>		Shows nexthop information of BGP.
<code>show-bgp-statistics</code>		Shows statistics information of BGP.
<code>show-bgp-summary</code>		Shows BGP summary.

## routing show-bgp-neighbors

Shows neighbors information of BGP.

Parameter	Type	Required	Description
<code>all-nodes</code>	bool	no	On all nodes.

## routing show-bgp-nexthop

Shows nexthop information of BGP.

Parameter	Type	Required	Description
<code>all-nodes</code>	bool	no	On all nodes.

## routing show-bgp-statistics

Shows statistics information of BGP.

Parameter	Type	Required	Description
<code>all-nodes</code>	bool	no	On all nodes.

# routing show-bgp-summary

Shows BGP summary.

Parameter	Type	Required	Description
all-nodes	bool	no	On all nodes.

# security-config

To run any security config related operations.

Operation	Short Name	Description
<code>update</code>	<code>edit</code>	To update the security config on the cluster.

## security-config update

To update the security config on the cluster.

Parameter	Type	Required	Description
<code>ad-mapping</code>	string	no	Specifies which field to map in AD user. It can be chosen from "SamAccountName", "UserPrincipalName".
<code>certificate-mapping</code>	string	no	Specifies which field to map in Certificates. It can be chosen from "CommonName", "EmailAddress", "UserPrincipalName".
<code>classified-data-msg</code>	string	no	Specifies the classified data message.
<code>enable-mapping-based-auth</code>	bool	no	Specifies if mapping based certificate authentication is enabled or not
<code>failed-login-lock-duration-mins</code>	int	no	Specifies the time duration within which the consecutive failed login attempts causes a local user account to be locked.
<code>inactivity-time-days</code>	int	no	Specifies the lockout inactivity time range in days.
<code>include-lower-letter</code>	bool	no	Specifies if the password needs to have at least one lowercase letter.
<code>include-number</code>	bool	no	Specifies if the password needs to have at least one number.
<code>include-special-char</code>	bool	no	Specifies if the password needs to have at least one special character.

Parameter	Type	Required	Description
include-upper-letter	bool	no	Specifies if the password needs to have at least one uppercase letter.
is-data-classified	bool	no	Specifies whether to mark the web page data classified/unclassified.
limit-sessions	bool	no	Specifies if limitations on number of active sessions is enabled or not.
login-token-timeout-hours	int	no	Specifies login token timeout in hours. Should be between 1 and 24 hours.
max-failed-login-attempts	int	no	Specifies the maximum number of consecutive fail login attempts.
max-lifetime-days	int	no	Specifies the maximum password lifetime in days.
min-length	int	no	Specifies the password minimum length.
min-lifetime-days	int	no	Specifies the minimum password lifetime in days.
num-diff-chars	int	no	Specifies the number of characters in the new password that needs to be different from the old password (only applicable when changing the user's own password).
num-disallowed-old-pwd	int	no	Specifies the minimum number of old passwords that are not allowed for changing the password.
session-absolute-timeout	int	no	Specifies absolute session expiration time in seconds.
session-inactivity-timeout	int	no	Specifies inactivity session expiration time in seconds.
session-limit-per-user	int	no	Specifies maximum number of active sessions allowed per user. This applies only when limit sessions is enabled.



Parameter	Type	Required	Description
session-limit-system-wide	int	no	Specifies maximum number of active sessions allowed system wide. This applies only when limit sessions is enabled.

# service-identity

To run any Service Identity related operations.

Operation	Short Name	Description
<code>add-disabled-ports</code>		To add disabled ports for service identity
<code>rm-disable-ports</code>		To remove disable ports for service identity
<code>status</code>		Show service identity status

## service-identity add-disabled-ports

To add disabled ports for service identity.

Parameter	Type	Mandatory	Description
<code>ports</code>	string	yes	Comma seperated list of disabled ports

## service-identity rm-disable-ports

To remove disable ports for service identity.

Parameter	Type	Mandatory	Description
<code>ports</code>	string	yes	Comma seperated list of disabled ports

## set-option

To set or override existing CLI options at runtime.

Operation	Short Name	Description
<code>output</code>		To control the CLI output format.

## set-option output

To control the CLI output format.

Parameter	Type	Required	Description
<code>format</code>	string	yes	Desired CLI output format at runtime, e.g. default, json, prettyjson.

## snmp

To run any SNMP related operations

Operation	Short Name	Description
<code>set-option</code>	set	To set the SNMP settings on the cluster.

## snmp set-option

To set the SNMP settings on the cluster.

Parameter	Type	Required	Description
auth-password	string	no	SNMP Authorization Password (default:username)
auth-protocol	string	no	SNMP Auth Protocol (for SNMP v3), possible values: MD5 or SHA
nms-server	string	no	NMS IP or Hostname
operation	string	no	Enable/disable the SNMP, possible values: enable or disable
priv-password	string	no	SNMP Privacy Password (default: authPassword)
priv-protocol	string	no	SNMP Priv Protocol (for SNMP v3), possible values: AES or DES in Galois/Counter Mode.
security-level	string	no	SNMP Security Level(for SNMP v3), possible values: noAuthNoPriv or authNoPriv or authPriv
sys-contact	string	no	System Contact
sys-desc	string	no	System Description
sys-engine-id-type	int	no	SNMP engineIDType specifies the engineID should be built from. Possible values: 0(Random), 1 (IPv4 address, default), 2 (IPv6 address), 3(MAC address).
sys-location	string	no	System Location

Parameter	Type	Required	Description
sys-name	string	no	System Name
sys-objid	string	no	System Object Id
user	string	no	SNMP User(for v3) or Community(for v2) Name
user-type	string	no	SNMP User type, possible values: read or write or trap
version	string	no	SNMP version, possible values: 2 or 3

## storage-domain

To run any Storage Domain related operations.

Operation	Short Name	Description
<code>add-subnet-to-whitelist</code>	<code>add-st-wl</code>	To add a subnet to a view's subnet whitelist
<code>create</code>	<code>add</code>	To create a new Storage Domain.
<code>get-subnet-whitelist</code>	<code>ls-st-wl</code>	To get a view's subnet whitelist
<code>list</code>	<code>ls</code>	To list Storage Domain details.
<code>remove-subnet-from-whitelist</code>	<code>rm-st-wl</code>	To remove a subnet from a view's subnet whitelist
<code>update</code>	<code>edit</code>	To update editable information of a Storage Domain.

## storage-domain add-subnet-to-whitelist

To add a subnet to a view's subnet whitelist

Parameter	Type	Required	Description
<code>desc</code>	string	no	Description.
<code>id</code>	int	no	ID of a Storage Domain.
<code>name</code>	string	no	Name of the Storage Domain.
<code>subnet-ip</code>	string	yes	Subnet IP for the Cluster.
<code>subnet-mask</code>	string	yes	Subnet mask for the Cluster. Should be either in CIDR prefix or in dotted decimal.
<code>subnet-nfs-permission</code>	string	no	Clients from this subnet can mount using NFS protocol. This can be <code>kDisabled</code> , <code>kReadOnly</code> , <code>kReadWrite</code> .

Parameter	Type	Required	Description
subnet-nfs-root-squash	bool	no	Clients from this subnet can mount as root on NFS. This can be Disabled, ReadOnly, ReadWrite.
subnet-s3-permission	string	no	Clients from this subnet can access using S3 protocol. This can be kDisabled, kReadOnly, kReadWrite.
subnet-smb-permission	string	no	Clients from this subnet can mount using SMB protocol. This can be kDisabled, kReadOnly, kReadWrite.

## storage-domain create

To create a new Storage Domain.

Parameter	Type	Required	Description
active-directory-domain-name	string	no	The active directory domain this view box should be mapped to. Users from this active directory will be given permission to view contents in this storage domain, when accessing through SMB.
app-marker-detection	bool	no	Whether to support app marker detection.
brick-size	int	no	Brick size in bytes used to create blobs.
cluster-partition-id	int	no	ID of a Cluster Partition.
cluster-partition-name	string	no	Name of a Cluster Partition.
compression	string	no	Level of compression to use. Values are low or off.
dedup-enabled	bool	no	Flag to turn on/off post-processing deduplication. Deduplication is on by default. Inline deduplication cannot be turned on, if post-processing deduplication is off.
default-user-quota	int	no	Default user quota in GiB for this Storage Domain.

Parameter	Type	Required	Description
default-user-quota-alert-limit	int	no	Default user quota limit in GiB for this Storage Domain.
default-user-quota-alert-threshold-percentage	int	no	Default user quota threshold alert percentage for this Storage Domain.
default-view-quota	int	no	Default quota in GiB for views created in the Storage Domain. Set -1 to remove the value.
default-view-quota-alert-limit	int	no	Default alerting threshold in GiB for views created in the Storage Domain. Set -1 to remove the value.
ec-num-data	int	no	Number of data stripes for erasure coding.
ec-num-failures	int	no	Number of failures to tolerate for erasure coding.
encryption-enabled	bool	no	Flag to turn on encryption. If encryption is on, it cannot be turned off later.
erasure-coding-enabled	bool	no	To enable erasure coding.
inline-compress-enabled	bool	no	Flag to turn on/off inline compression. If deduplication is done inline, then it is recommended that compression should also be done inline. Also, this parameter will have no effect unless compression is enabled.
inline-dedup-enabled	bool	no	Flag to turn on/off inline deduplication. This parameter will have no effect, unless deduplication is enabled.
inline-erasure-coding	bool	no	Whether erasure coding should be done inline.
ldap-id	int	no	Id of the LDAP provider.
name	string	yes	Name of the Storage Domain.



Parameter	Type	Required	Description
num-failures	int	no	Disk fault tolerance factor for this storage domain. Specifies maximum number of disk faults tolerated.
num-node-failures-tolerated	int	no	Node fault tolerance factor for this storage domain. Specifies maximum number of node faults tolerated.
purpose	string	yes	To inherit the recommended configurations and tunables optimized for NetBackup DirectIO.
quota	int	no	Maximum allowed quota in GiB. Set -1 to remove the value.
quota-alert-limit	int	no	Threshold in GiB, over which an alert will be sent. Set -1 to remove the value.
s3-buckets-allowed	bool	no	Whether creation of S3 bucket is allowed in the Storage Domain.
subnet-ip	string	no	Subnet IP for the Cluster.
subnet-mask-bits	int	no	Subnet mask bits for the Cluster.
subnet-mask-ip4	string	no	Subnet mask for IPv4 type subnet of the Cluster.
subnet-nfs-permission	string	no	Clients from this subnet can mount using NFS protocol. This can be kDisabled, kReadOnly, kReadWrite.
subnet-nfs-root-squash	bool	no	Clients from this subnet can mount as root on NFS. This can be Disabled, ReadOnly, ReadWrite.
subnet-s3-permission	string	no	Clients from this subnet can access using S3 protocol. This can be kDisabled, kReadOnly, kReadWrite.
subnet-smb-permission	string	no	Clients from this subnet can mount using SMB protocol. This can be kDisabled, kReadOnly, kReadWrite.
vault-id	int	no	ID of the Vault.
vault-name	string	no	Name of the Vault.

## storage-domain get-subnet-whitelist

To get a view's subnet whitelist

Parameter	Type	Required	Description
id	int	no	ID of a Storage Domain.
name	string	no	Name of the Storage Domain.

## storage-domain list

To list Storage Domain details.

Parameter	Type	Required	Description
cluster-partition-ids	list of ints	no	Comma separated list of IDs.
ids	list of ints	no	Comma separated list of IDs.
include-marked-for-removal	bool	no	Include the nodes which have been marked for removal.
names	list of strings	no	Comma separated names of the Storage Domains.
show-stats	bool	no	To display the computed statistics.

## storage-domain remove-subnet-from-whitelist

To remove a subnet from a view's subnet whitelist

Parameter	Type	Required	Description
id	int	no	ID of a Storage Domain.
name	string	no	Name of the Storage Domain.
subnet-ip	string	yes	Subnet IP for the Cluster.

## storage-domain update

To update editable information of a Storage Domain.

Parameter	Type	Required	Description
active-directory-domain-name	string	no	The active directory domain this view box should be mapped to. Users from this active directory will be given permission to view contents in this storage domain, when accessing through SMB.
app-marker-detection	bool	no	Whether to support app marker detection.
brick-size	int	no	Brick size in bytes used to create blobs.
compression	string	no	Level of compression to use. Values are low or off.
dedup-enabled	bool	no	Flag to turn on/off post-processing deduplication. Deduplication is on by default. Inline deduplication cannot be turned on, if post-processing deduplication is off.
default-user-quota	int	no	Default user quota in GiB for this Storage Domain.
default-user-quota-alert-limit	int	no	Default user quota limit in GiB for this Storage Domain.
default-user-quota-alert-threshold-percentage	int	no	Default user quota threshold alert percentage for this Storage Domain.
default-view-quota	int	no	Default quota in GiB for views created in the Storage Domain. Set -1 to remove the value.
default-view-quota-alert-limit	int	no	Default alerting threshold in GiB for views created in the Storage Domain. Set -1 to remove the value.
ec-num-data	int	no	Number of data stripes for erasure coding.
ec-num-failures	int	no	Number of failures to tolerate for erasure coding.

Parameter	Type	Required	Description
erasure-coding-enabled	bool	no	To enable erasure coding.
id	int	no	ID of a Storage Domain.
inline-compress-enabled	bool	no	Flag to turn on/off inline compression. If deduplication is done inline, then it is recommended that compression should also be done inline. Also, this parameter will have no effect unless compression is enabled.
inline-dedup-enabled	bool	no	Flag to turn on/off inline deduplication. This parameter will have no effect, unless deduplication is enabled.
inline-erasure-coding	bool	no	Whether erasure coding should be done inline.
ldap-id	int	no	Id of the LDAP provider.
name	string	no	Name of the Storage Domain.
new-name	string	no	New name of the Storage Domain to update.
num-failures	int	no	Disk fault tolerance factor for this storage domain. Specifies maximum number of disk faults tolerated.
num-node-failures-tolerated	int	no	Node fault tolerance factor for this storage domain. Specifies maximum number of node faults tolerated.
quota	int	no	Maximum allowed quota in GiB. Set -1 to remove the value.
quota-alert-limit	int	no	Threshold in GiB, over which an alert will be sent. Set -1 to remove the value.
remove-active-directory-domain-mapping	bool	no	Removes the current mapping between this storage domain to the Active Directory domain it is currently mapped to.

Parameter	Type	Required	Description
remove-ldap-provider-mapping	bool	no	Removes the current mapping between this storage domain to the LDAP provider it is currently mapped to.
s3-buckets-allowed	bool	no	Whether creation of S3 bucket is allowed in the Storage Domain.
vault-id	int	no	ID of the Vault.
vault-name	string	no	Name of the Vault.
iris_cli storage-domain update name=NameOfStorageDomain compression=high	string	no	Sets the compression level to high on this Storage Domain.

# support-bundle

To generate support bundle.

Operation	Short Name	Description
generate		To generate support bundle.

## support-server

To run Support server and Support channel related operations.

Operation	Short Name	Description
<code>add-authorized-user</code>		To add an authorized user to login to cluster via support server.
<code>host-access</code>		To enable/disable host shell access.
<code>host-access-token</code>		To generate access token inorder to get access code from Cohesity for gaining host shell access
<code>list</code>	<code>ls</code>	List details of the Cohesity support server.
<code>ls-host-access</code>		List details of the Cohesity node access.
<code>remove-authorized-user</code>		To remove an authorized user to login to cluster via support server.
<code>support-channel</code>	<code>rt</code>	To enable/disable the support channel.
<code>update</code>	<code>edit</code>	Update the details of the Cohesity support server.

## support-server add-authorized-user

To add an authorized user to login to cluster via support server.

Parameter	Type	Required	Description
<code>ssh-key-file-path</code>	string	yes	Absolute file path for the public SSH keys that allows access to the Cluster.
<code>user-name</code>	string	yes	Username of the User.
<code>version</code>	int	no	Version of Cohesity RT server. If set to 1(default), then the config will be applied to server version 1. If set to 2, then the config will be applied to server version 2.

## support-host-access

To enable/disable host shell access.

Parameter	Type	Required	Description
access-code	string	no	Node Acces code supplied by support team.
tsh-enable	bool	no	Enable/Disable node tsh(teleport) access.

## support-server list

List details of the Cohesity support server.

Parameter	Type	Required	Description
version	int	no	Version of Cohesity RT server. If set to 1(default), then the config will be applied to server version 1. If set to 2, then the config will be applied to server version 2.

## support-server remove-authorized-user

To remove an authorized user to login to cluster via support server.

Parameter	Type	Required	Description
clear-all	bool	no	To clear all authorized users of support server.
user-name	string	no	Username of the User.
version	int	no	Version of Cohesity RT server. If set to 1(default), then the config will be applied to server version 1. If set to 2, then the config will be applied to server version 2.

## support-server support-channel

To enable/disable the support channel.

For example: To enable support channel, run the following command:

```
iris_cli support support-channel enable=1 duration-in-hours=1
```



Parameter	Type	Required	Description
duration-in-hours	int	no	Duration in hours from current time till when the support channel will be enabled. Valid values are 1 - 720 hours.  <b>Note:</b> duration-in-hours is mandatory when enable=1 is entered.
enable	bool	yes	Enable/Disable the support channel.

## support-server update

Update the details of the Cohesity support server.

Parameter	Type	Required	Description
hostname	string	no	Hostname for the Cohesity support server.
port	int	no	Modify the port number for support channel.
private-key-file-loc	absolute file path	no	Absolute file path of the private key (SSH) for the support channel.
server-config-params	absolute file path	no	Server config params in a JSON file.
session-recording	bool	no	Enable/Disable the support channel session recording.
username	string	no	Username for the support channel.
version	int	no	Version of Cohesity RT server. If set to 1(default), then the config will be applied to server version 1. If set to 2, then the config will be applied to server version 2.

## swift

To run any Swift related operations.

Operation	Short Name	Description
<code>register</code>		To register a Swift service on Keystone server.
<code>unregister</code>		To unregister a Swift service on Keystone server.

## swift register

To register a Swift service on Keystone server.

Parameter	Type	Required	Description
<code>domain-name</code>	string	no	Specifies the domain name for 'Domain' scope. It only applies when 'scope-type' is 'Domain'.
<code>password</code>	string	no	Specifies the password of Keystone user.
<code>project-domain-name</code>	string	no	Specifies the domain name for 'Project' scope. It only applies when 'scope-type' is 'Project'.
<code>project-name</code>	string	no	Specifies the project name for 'Project' scope. It only applies when 'scope-type' is 'Project'.
<code>scope-type</code>	string	no	Specifies the scope type. It can be 'Project' or 'Domain'.
<code>tenant-id</code>	string	yes	Specifies the id of tenant whose Swift service will be registered.
<code>user-domain</code>	string	no	Specifies the domain of Keystone user.
<code>username</code>	string	no	Specifies the Keystone username.

## swift unregister

To unregister a Swift service on Keystone server.

Parameter	Type	Required	Description
domain-name	string	no	Specifies the domain name for 'Domain' scope. It only applies when 'scope-type' is 'Domain'.
password	string	no	Specifies the password of Keystone user.
project-domain-name	string	no	Specifies the domain name for 'Project' scope. It only applies when 'scope-type' is 'Project'.
project-name	string	no	Specifies the project name for 'Project' scope. It only applies when 'scope-type' is 'Project'.
scope-type	string	no	Specifies the scope type. It can be 'Project' or 'Domain'.
tenant-id	string	yes	Specifies the id of tenant whose Swift service will be unregistered.
user-domain	string	no	Specifies the domain of Keystone user.
username	string	no	Specifies the Keystone username.

# sysctl

Command to update sysctl configuration for nodes.

Operation	Short Name	Description
update	edit	Update sysctl configuration to nodes or cluster

## sysctl update

Update sysctl configuration to nodes or cluster

Parameter	Type	Required	Description
sysctl-conf-names	list of strings	yes	Comma separated list of sysctl config names.
value	list of strings	yes	Comma separated list of sysctl config values.

# syslog-server

To run any Syslog Server related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To add a Syslog Server to the Cluster. Cohesity audit and some common audits will be added by default
<code>delete</code>	<code>rm</code>	To remove an existing Syslog Server from the Cluster.
<code>list</code>	<code>ls</code>	To list all the Syslog Servers in the Cluster.
<code>status</code>		To check the syslog server status in cluster.
<code>update</code>	<code>edit</code>	To update an existing Syslog Server in the Cluster.
<code>update-audit-tags</code>		To update audit tags used in cluster.

## syslog-server create

To add a Syslog Server to the Cluster. Cohesity audit and some common audits will be added by default

Parameter	Type	Required	Description
<code>address</code>	string	yes	Hostname or IP address of the Syslog Server.
<code>ca-certificate-path</code>	string	no	Specifies the syslog server ca certificate file path
<code>cluster-audit</code>	bool	no	Deprecated. Send Cluster Audit Logs to the Syslog Server. Default is true.
<code>dataprotection-events</code>	bool	no	Deprecated. Send Dataprotection Event Logs to the Syslog Server. Default is false.
<code>enable</code>	bool	no	Specifies whether to enable the syslog server.
<code>facilities</code>	list of strings	no	The logs of specified facilities sent to the syslog server.

Parameter	Type	Required	Description
filer-audit	bool	no	Deprecated. Send Filer Audit Logs to the Syslog Server. Default is true.
message-patterns	list of strings	no	The message with the patterns will be sent to the syslog server.
name	string	no	Name or Description of the Syslog Server.
port	int	yes	Port where the Syslog Server listens.
program-names	list of strings	no	The logs of specified programmes sent to the syslog server.
protocol	string	no	Protocol used by the Syslog Server. Default is tcp.
raw-message-patterns	list of strings	no	The raw message with the patterns will be sent to the syslog server.
ssh-events-log	bool	no	Deprecated. Send ssh login event logs to the syslog server. Default is false.

## syslog-server delete

To remove an existing Syslog Server from the Cluster.

Parameter	Type	Required	Description
all-syslog-servers	bool	no	Select all syslog servers in cluster.
id	int	no	The Id of a syslog server.

## syslog-server list

To list all the Syslog Servers in the Cluster.

Parameter	Type	Required	Description
id	int	no	The Id of a syslog server.

## syslog-server status

To check the syslog server status in cluster.

Parameter	Type	Required	Description
ids	list of ints	no	List of syslog server Ids.

## syslog-server update

To update an existing Syslog Server in the Cluster.

Parameter	Type	Required	Description
address	string	no	Hostname or IP address of the Syslog Server.
ca-certificate-path	string	no	Specifies the syslog server ca certificate file path
cluster-audit	bool	no	Deprecated. Send Cluster Audit Logs to the Syslog Server. Default is true.
dataprotection-events	bool	no	Deprecated. Send Dataprotection Event Logs to the Syslog Server. Default is false.
enable	bool	no	Specifies whether to enable the syslog server.
facilities	list of strings	no	The logs of specified facilities sent to the syslog server.
filer-audit	bool	no	Deprecated. Send Filer Audit Logs to the Syslog Server. Default is true.
id	int	yes	The Id of a syslog server.
is-append	bool	no	Append logging parameters to the syslog server.
message-patterns	list of strings	no	The message with the patterns will be sent to the syslog server.
name	string	no	Name or Description of the Syslog Server.
port	int	no	Port where the Syslog Server listens.

Parameter	Type	Required	Description
program-names	list of strings	no	The logs of specified programmes sent to the syslog server.
protocol	string	no	Protocol used by the Syslog Server. Default is tcp.
raw-message-patterns	list of strings	no	The raw message with the patterns will be sent to the syslog server.
ssh-events-log	bool	no	Deprecated. Send ssh login event logs to the syslog server. Default is false.

## syslog-server update-audit-tags

To update audit tags used in cluster.

Parameter	Type	Required	Description
alert-audit-tag-name	string	no	Paramter to specify alert audit tag.
cluster-audit-tag-name	string	no	Paramter to specify cluster-audit tag.
dataprotection-events-tag-name	string	no	Paramter to specify dataprotection-events tag.
filer-audit-tag-name	string	no	Paramter to specify filer-audit tag.



# system-app

To run any System app related operations.

Operation	Short Name	Description
Status		To get the status of the System apps.

## trusted-cas

To run any trusted CA related operations.

Operation	Short Name	Description
<code>list</code>	<code>ls</code>	To list all trusted CAs on the cluster.
<code>register</code>		To register a trusted CA on the cluster.
<code>unregister</code>		To unregister a trusted CA on the cluster.
<code>validate</code>		To re-validate a trusted CA on the cluster.

## trusted-cas list

To list all trusted CAs on the cluster.

Parameter	Type	Required	Description
<code>ids</code>	list of strings	no	Comma seperated list of trusted CA Ids to fetch.
<code>names</code>	list of strings	no	Comma seperated list of trusted CA Names to fetch.

## trusted-cas register

To register a trusted CA on the cluster.

Parameter	Type	Required	Description
<code>desc</code>	string	no	Specifies Description of certificate being registered.
<code>file-path</code>	string	yes	Specifies filepath to PEM file with certificate to be registered.
<code>name</code>	string	yes	Specifies name of the certificate being registered.
<code>only-validate</code>	bool	no	If true, the certificates are only validated not registered.

## trusted-cas unregister

To unregister a trusted CA on the cluster.

Parameter	Type	Required	Description
id	string	yes	Specifies the Id of trusted CA to be operated on.

## trusted-cas validate

To re-validate a trusted CA on the cluster.

Parameter	Type	Required	Description
id	string	yes	Specifies the Id of trusted CA to be operated on.

## uda-connector

To run any UDA connector related operations.

Operation	Short Name	Description
<code>add-or-update-all</code>		Add/Update all UDA connector configs
<code>create</code>	<code>add</code>	To add a new UDA connector
<code>delete</code>	<code>rm</code>	To delete a UDA connector
<code>get</code>		To get a list of UDA connectors in the system
<code>update</code>	<code>edit</code>	To update a UDA connector

## uda-connector create

To add a new UDA connector.

Parameter	Type	Required	Description
<code>package-path</code>	string	yes	Path of the folder containing all the json config files for a UDA connector

## uda-connector delete

To delete a UDA connector.

Parameter	Type	Required	Description
<code>id</code>	int	yes	Unique id of a UDA connector

## uda-connector get

connectors in the system.

Parameter	Type	Required	Description
filter-index-config	bool	no	If true, only prints out the index config
id	int	no	Unique id of a UDA connector

## uda-connector update

To update a UDA connector.

Parameter	Type	Required	Description
package-path	string	yes	Path of the folder containing all the json config files for a UDA connector

## user-quotas

To run any user quotas related commands.

Operation	Short Name	Description
<code>create</code>	add	To create a user quota policy in a view.
<code>delete</code>	rm	To delete a user quota policy in a view.
<code>list</code>		To list user quota policies for a view, a user or both.
<code>update</code>	edit	To update a user quota policy in a view.

## user-quotas create

To create a user quota policy in a view.

Parameter	Type	Required	Description
<code>alert-limit</code>	int	no	Threshold in GiB, over which an alert will be sent. Set -1 to remove the value.
<code>alert-threshold-percentage</code>	int	no	Threshold percentage over which an alert will be sent.
<code>hard-limit</code>	int	no	Maximum allowed quota in GiB. Set -1 to remove the value.
<code>user-sid</code>	string	no	The SID of the user.
<code>user-unix-uid</code>	int	no	The Unix User ID of the user.
<code>view-name</code>	string	yes	Name of the View.

## user-quotas delete

To delete a user quota policy in a view.

Parameter	Type	Required	Description
all	bool	no	Deletes all user quota policies for this view.
user-sids	list of strings	no	Comma separated list of user SIDs.
user-unix-uids	list of ints	no	Comma separated list of UNIX User IDs.
view-name	string	yes	Name of the View.

## user-quotas list

To list user quota policies for a view, a user or both.

Parameter	Type	Required	Description
cookie	string	no	Opaque string returned in a previous command output to get the next set of entries in the output.
exclude-within-alert-threshold	bool	no	Exclude the users whose usage is within the alert threshold limit.
include-usage	bool	no	Include logical usage of users in this view.
page-count	int	no	Limit the number of entries in the command output.
summary	bool	no	To fetch the summary of user quotas for a view or a user.
user-sid	string	no	The SID of the user.
user-unix-uid	int	no	The Unix User ID of the user.
view-name	string	no	Name of the View.

## user-quotas update

To update a user quota policy in a view.

Parameter	Type	Required	Description
alert-limit	int	no	Threshold in GiB, over which an alert will be sent. Set -1 to remove the value.
alert-threshold-percentage	int	no	Threshold percentage over which an alert will be sent.
default-alert-limit	int	no	Default alert limit after which an alert is generated.
default-alert-threshold-percentage	int	no	Default threshold percentage of hard limit over which an alert is generated.
default-hard-limit	int	no	Default hard limit in bytes.
enable	bool	no	Enable user quota policies for this view.
hard-limit	int	no	Maximum allowed quota in GiB. Set -1 to remove the value.
user-sid	string	no	The SID of the user.
user-unix-uid	string	no	The Unix User ID of the user.
view-name	string	yes	Name of the View.



## user

To run any User related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To create a new User.
<code>delete</code>	<code>rm</code>	To delete the specified users.
<code>delete-sessions</code>		Deletes all active sessions for a user or all active system wide sessions
<code>get-linux-user-mfa</code>	<code>lingetmfa</code>	Get MFA config for linux support user.
<code>linux-bash-access</code>		To get bash access for the Linux 'support' User.
<code>linux-sudo-access</code>		To get sudo access for the Linux 'support' User.
<code>linux-user</code>	<code>linusr</code>	Updates password for linux user support
<code>list</code>	<code>ls</code>	To list User details.
<code>reset-s3-secret-key</code>		To reset the S3 account secret access key for a User.
<code>update</code>	<code>edit</code>	To update editable information of a User.
<code>update-linux-user-mfa</code>	<code>linupdmfa</code>	Updates MFA mode for linux support user.

## user create

To create a new User.

Parameter	Type	Required	Description
<code>additional-group-names</code>	list of strings	no	Comma separated list of additional group names of the User.
<code>domain</code>	string	no	Domain identifies User's logging in domain.

Parameter	Type	Required	Description
effective-time	datetime	no	Effective time in "YYYY-MM-DDTHH:mm" format when User's credentials will be effective.
email-address	string	no	Email address of a User.
expiry-time	datetime	no	Expire time of the User in "YYYY-MM-DDTHH:mm" format
password	string	no	Password of the User.
primary-group-name	string	no	Primary group name of the User.
roles	string	no	Comma separated list of supported roles for users (valid roles are ADMIN, OPS, VIEW).
user-description	string	no	Description of the User.
user-name	string	yes	Username of the User.

## user delete

To delete the specified users.

Parameter	Type	Required	Description
domain	string	no	Domain identifies User's logging in domain.
user-names	list of strings	yes	Comma separated list of User names of the existing users.

## user delete-sessions

Deletes all active sessions for a user or all active system wide sessions

Parameter	Type	Required	Description
user-sid	string	no	The SID of the user.

## user linux-sudo-access

To get [sudo access](#) for the Linux 'support' User.

Parameter	Type	Required	Description
enable	bool	yes	If set to true, sudo access will be enabled.
duration-in-hours	int	yes	Defines the number of hours for which sudo access remains active.

## user linux-user

Updates password for linux user support

Parameter	Type	Required	Description
current-password	string	no	Current linux password. Needed only when updating the password.
linux-password	string	yes	New linux password
linux-username	string	yes	Linux username

## user list

To list User details.

Parameter	Type	Required	Description
domain	string	no	Domain identifies User's logging in domain.
email-addresses	list of strings	no	Comma separated list of email addresses of the users.
user-names	list of strings	no	Comma separated list of User names of the existing users.

## user reset-s3-secret-key

To reset the S3 account secret access key for a User.

Parameter	Type	Required	Description
domain	string	no	Domain identifies User's logging in domain.
user-name	string	yes	Username of the User.

## user update

To update editable information of a User.

Parameter	Type	Required	Description
additional-group-names	list of strings	no	Comma separated list of additional group names of the User.
current-password	string	no	Current password of the User.
domain	string	no	Domain identifies User's logging in domain.
effective-time	datetime	no	Effective time in "YYYY-MM-DDTHH:mm" format when User's credentials will be effective.
email-address	string	no	Email address of a User.
expiry-time	datetime	no	Expire time of the User in "YYYY-MM-DDTHH:mm" format
is-account-locked	bool	no	Indicate whether to lock/unlock a user account.
is-user-exempt-from-mfa	bool	no	Indicate whether to disable MFA for a user.
new-user-name	string	no	Name to which the users name should be changed.
password	string	no	Password of the User.
primary-group-name	string	no	Primary group name of the User.

Parameter	Type	Required	Description
remove-additional-groups	bool	no	To remove an existing additional groups of the user.
remove-primary-group	bool	no	To remove an existing primary group of the user.
roles	string	no	Comma separated list of supported roles for users (valid roles are ADMIN, OPS, VIEW).
user-description	string	no	Description of the User.
user-name	string	yes	Username of the User.

## user update-linux-user-mfa

Updates MFA mode for linux support user.

Parameter	Type	Required	Description
authentication-type	string	no	Specifies Linux support user mfa authentication type: either totp, email.
current-password	string	no	Current linux password. Needed only when updating the password.
disable	bool	no	Specifies whether MFA for linux support user should be disabled.

## vault

To run any Vault related operations.

Operation	Short Name	Description
<code>create</code>	<code>add</code>	To add a new Vault.
<code>list</code>	<code>ls</code>	To list the existing Vaults.
<code>update</code>	<code>edit</code>	To update an existing Vault.

## vault create

To add a new Vault.

Parameter	Type	Required	Description
<code>aws-access-key-id</code>	string	no	AWS access key id for AWS service account.
<code>aws-c2s-agency</code>	string	no	AWS C2S agency for AWS C2S service account.
<code>aws-c2s-base-url</code>	string	no	AWS C2S base-url for AWS C2S service account.
<code>aws-c2s-ca-cert-key-file-loc</code>	absolute file path	no	Absolute file path for CA Cert key of AWS C2S service account.
<code>aws-c2s-client-cert-key-file-loc</code>	absolute file path	no	Absolute file path for client certificate key of AWS C2S service account.
<code>aws-c2s-client-priv-key-file-loc</code>	absolute file path	no	Absolute file path for client private key of AWS C2S service account.
<code>aws-c2s-mission</code>	string	no	AWS C2S mission for AWS C2S service account.
<code>aws-c2s-role</code>	string	no	AWS C2S role for AWS C2S service account.

Parameter	Type	Required	Description
aws-c2s-secret-key	string	no	AWS C2S secret key for AWS C2S service account.
aws-credential-blob	absolute file path	no	AWS credential blob to authenticate with credential endpoint.
aws-credential-endpoint	string	no	AWS credential REST endpoint that generates the security token.
aws-region	string	no	AWS region (e.g. us-east-1, us-west-1 etc.) for AWS service account.
aws-secret-access-key	string	no	AWS secret access key for AWS service account.
azure-client-id	string	no	Azure Client Id.
azure-storage-access-key	string	no	Storage access key for Azure service account.
azure-storage-account-name	string	no	Storage account name for Azure service account.
bucket-name	string	no	Name of the bucket or container inside the target Vault.
compression-enabled	bool	yes	Flag to enable or disable the compression.
dedup-enabled	bool	no	Flag to turn on/off post-processing deduplication. Deduplication is on by default. Inline deduplication cannot be turned on, if post-processing deduplication is off.
desc	string	no	Description of the Vault.
encryption-enabled	bool	yes	Flag to enable or disable the encryption.

Parameter	Type	Required	Description
forever-incremental-enabled	bool	no	Support forever incremental archive for archival vaults.
goog-client-email	string	no	Client email of Google service account.
goog-client-priv-key-file-loc	absolute file path	no	Absolute file path for client private key of Google service account.
goog-project-id	string	no	Project ID of Google service account.
incremental-enabled	bool	no	Support incremental archive for archival vaults.
kms-server-id	int	no	The Id of a KMS server.
name	string	yes	Name of the Vault.
nas-host	string	no	IP or host name of the NAS service host.
nas-kerberos-realm-name	string	no	NAS Kerberos realm name.
nas-mount-path	string	no	Mount path on the NAS service host.
nas-nfs-security-type	string	no	NAS NFS security type.
nas-nfs-version-number	string	no	NAS NFS version number.
nas-password	string	no	NAS service password.
nas-share-type	string	no	Mounted volume share type, e.g. CIFS, NFS. Default is NFS.
nas-username	string	no	NAS service username.



Parameter	Type	Required	Description
oracle-access-key-id	string	no	Access key id for Oracle service account.
oracle-region	string	no	Region (e.g. us-east-1) for Oracle service account.
oracle-secret-access-key	string	no	Secret access key for Oracle service account.
oracle-tenant	string	no	Tenant for Oracle service account.
qstar-host	string	no	IP or DNS name of QStar service host.
qstar-integral-volumes	list of strings	no	Comma separated names of QStar Integral Volumes.
qstar-password	string	no	QStar service password.
qstar-port	int	no	QStar WEB services API port.
qstar-share-type	string	no	Mounted QStar Integral Volume share type, e.g. CIFS, NFS. Default is CIFS.
qstar-use-https	bool	no	Use https for QStar service. Default is false.
qstar-username	string	no	QStar service username.
s3-compatible-service-url	string	no	Service URL for S3 compatible cloud.
s3-compatible-signature-version	int	no	Signature version fo S3 compatible cloud. Default is 4.
s3-compatible-use-https	bool	no	Use https for S3 compatible cloud. Default is true.

Parameter	Type	Required	Description
tier-type	string	no	Tier of the vault. For AWS, supported tier-types are Amazon-S3-standard, Amazon-S3-standard-IA, Amazon-S3-One-Zone-IA, Amazon-S3-Intelligent, Amazon-S3-Glacier, Amazon-S3-Glacier-Deep-Archive, Amazon-glacier and Amazon-S3-Glacier-IR. For Azure, supported tier types are Azure-archive, Azure-cool and Azure-hot. For GCP, supported tier types are Google-nearline, Google-coldline, Google-regional and Google-multi-regional. For Oracle, supported tier types are Oracle-standard and Oracle-archive.
usage-type	string	yes	Usage purpose of the Vault. It can be either archival or cloud-spill.
vault-type	string	no	Type of the Vault. For Archival usage, valid types are Azure, Azure-Gov-Cloud, Amazon, AWS-Gov-Cloud, Amazon-C2S, Google, Oracle, S3-compatible, NAS, and QStar-Tape. For Cloud-spill usage, valid types are NAS, S3-compatible, for AWS, vaults are Amazon, AWS-Gov-Cloud and supported tier is Amazon-S3-standard, for Azure, vaults are Azure, Azure-Gov-Cloud and supported tier is Azure-hot, for GCP, vault is Google and supported tiers are Google-regional and Google-multi-regional, for Oracle vault is Oracle and supported tier is Oracle-standard.
view-box-name	string	no	Name of the Storage Domain.

## vault list

To list the existing Vaults.

Parameter	Type	Required	Description
id	int	no	ID of the Vault.
name	string	no	Name of the Vault.

## vault update

To update an existing Vault.

Parameter	Type	Required	Description
aws-access-key-id	string	no	AWS access key id for AWS service account.
aws-credential-blob	absolute file path	no	AWS credential blob to authenticate with credential endpoint.
aws-credential-endpoint	string	no	AWS credential REST endpoint that generates the security token.
aws-region	string	no	AWS region (e.g. us-east-1, us-west-1 etc.) for AWS service account.
aws-secret-access-key	string	no	AWS secret access key for AWS service account.
azure-client-id	string	no	azure-client-id
azure-storage-access-key	string	no	Storage access key for Azure service account.
azure-storage-account-name	string	no	Storage account name for Azure service account.
compression-enabled	bool	no	Flag to enable or disable the compression.
desc	string	no	Description of the Vault.
encryption-enabled	bool	no	Flag to enable or disable the encryption.
forever-incremental-enabled	bool	no	Support forever incremental archive for archival vaults.
full-archive-interval-days	int	no	Interval in number of days between two Full archives.
goog-client-email	string	no	Client email of Google service account.

Parameter	Type	Required	Description
goog-client-priv-key-file-loc	absolute file path	no	Absolute file path for client private key of Google service account.
id	int	yes	ID of the Vault.
incremental-enabled	bool	no	Support incremental archive for archival vaults.
kms-server-id	int	no	The Id of a KMS server.
nas-host	string	no	IP or host name of the NAS service host.
nas-kerberos-realm-name	string	no	NAS Kerberos realm name.
nas-mount-path	string	no	Mount path on the NAS service host.
nas-nfs-security-type	string	no	NAS NFS security type.
nas-nfs-version-number	string	no	NAS NFS version number.
nas-password	string	no	NAS service password.
nas-share-type	string	no	Mounted volume share type, e.g. CIFS, NFS. Default is NFS.
nas-username	string	no	NAS service username.
new-name	string	no	Name of the Vault.
qstar-host	string	no	IP or DNS name of QStar service host.
qstar-integral-volumes	list of strings	no	Comma separated names of QStar Integral Volumes.
qstar-password	string	no	QStar service password.
qstar-port	int	no	QStar WEB services API port.

Parameter	Type	Required	Description
qstar-share-type	string	no	Mounted QStar Integral Volume share type, e.g. CIFS, NFS. Default is CIFS.
qstar-use-https	bool	no	Use https for QStar service. Default is false.
qstar-username	string	no	QStar service username.
s3-compatible-service-url	string	no	Service URL for S3 compatible cloud.
s3-compatible-signature-version	int	no	Signature version fo S3 compatible cloud. Default is 4.
s3-compatible-use-https	bool	no	Use https for S3 compatible cloud. Default is true.
view-box-name	string	no	Name of the Storage Domain.

## view

To run any View related operations.

Operation	Short Name	Description
<code>activate-saved-aliases</code>		Activates the saved aliases of a cloned view.
<code>add-subnet-to-whitelist</code>	<code>add-st-wl</code>	To add a subnet to a view's subnet whitelist
<code>allow-mount-on-windows</code>		Allow mount path of the View to be mounted on windows machines.
<code>cancel-failover</code>		This command will cancel an in-progress failover on the specified view.
<code>clone</code>		To clone a View from an existing View.
<code>clone-directory</code>		To clone (or recursively copy) the contents of a directory from a source path to a destination path in the same View or a different View.
<code>create</code>	<code>add</code>	To create a new View.
<code>create-alias</code>		To create a View Alias.
<code>delete</code>	<code>rm</code>	To delete an existing View.
<code>delete-alias</code>		To delete a View Alias.
<code>failover</code>		This command will initiate a failover on the specified view.
<code>get-file-lock-status</code>		Fetches the lock details of a file in a view.
<code>get-subnet-whitelist</code>	<code>ls-st-wl</code>	To get a view's subnet whitelist
<code>list</code>	<code>ls</code>	To list View details.
<code>list-failover</code>		This command will list all failovers on the specified view.
<code>list-nfs-connections</code>	<code>ls-nfs-con</code>	To list the active NFS connections for views.

Operation	Short Name	Description
<code>list-nlm-locks</code>	<code>ls-nl</code>	To list the acquired NLM locks.
<code>list-smb-connections</code>	<code>ls-smb-con</code>	To list the active SMB connections for views.
<code>list-smb-file-opens</code>	<code>ls-sfo</code>	To list the active SMB file opens for views.
<code>lock</code>		To lock a View. A locked view cannot be modified or deleted.
<code>lock-file</code>		Locks a file in a view.
<code>overwrite</code>		To overwrite a target view with contents of source view.
<code>remove-subnet-from-whitelist</code>	<code>rm-st-wl</code>	To remove a subnet from a view's subnet whitelist
<code>rename</code>	<code>ren</code>	To rename a view.
<code>unlock</code>		To unlock a View.
<code>update</code>	<code>edit</code>	To update an existing View.

## view activate-saved-aliases

Activates the saved aliases of a cloned view.

Parameter	Type	Required	Description
<code>name</code>	string	yes	Name of the View.

## view add-subnet-to-whitelist

To add a subnet to a view's subnet whitelist

Parameter	Type	Required	Description
<code>desc</code>	string	no	Description.

Parameter	Type	Required	Description
name	string	yes	Name of the View.
subnet-ip	string	yes	Subnet IP for the Cluster.
subnet-mask	string	yes	Subnet mask for the Cluster. Should be either in CIDR prefix or in dotted decimal.
subnet-nfs-permission	string	no	Clients from this subnet can mount using NFS protocol. This can be kDisabled, kReadOnly, kReadWrite.
subnet-nfs-squash	string	no	Clients from this subnet can mount as root or all or none on NFS. This can be kNone, kRootSquash, kAllSquash.
subnet-s3-permission	string	no	Clients from this subnet can access using S3 protocol. This can be kDisabled, kReadOnly, kReadWrite.
subnet-smb-permission	string	no	Clients from this subnet can mount using SMB protocol. This can be kDisabled, kReadOnly, kReadWrite.

## view allow-mount-on-windows

Allow mount path of the View to be mounted on windows machines.

Parameter	Type	Required	Description
enable	bool	yes	To allow/disallow the mount path of the View to be mounted on windows machines using NFS protocol.
name	string	yes	Name of the View.

## view cancel-failover

This command will cancel an in-progress failover on the specified view.

Parameter	Type	Required	Description
id	int	yes	Specifies the view id.



## view clone

To clone a View from an existing View.

Parameter	Type	Required	Description
<code>datalock-expiry-usecs</code>	int	no	Datalock duration in microseconds of the cloned view, the cloned view can only be deleted by a Data Security Officer until the datalock expires.
<code>disable-inline-dedup</code>	bool	no	Disable the inline dedup for the View. You can only turn off inline dedup for the View, if it is on for the containing Storage Domain.
<code>name</code>	string	yes	Name of the cloned View.
<code>qos-policy</code>	string	no	QoS Policy of the View. For example, it can be 'Backup Target High', 'Backup Target Low', 'Backup Target SSD', 'TestAndDev High', 'TestAndDev Low', 'Filer High', 'Filer Low', 'Backup Target Auto' etc.
<code>source-view-name</code>	string	yes	Name of the source View to be cloned.
<code>view-description</code>	string	no	Description of the View.

## view clone-directory

To clone (or recursively copy) the contents of a directory from a source path to a destination path in the same View or a different View.

Parameter	Type	Required	Description
<code>destination-directory-name</code>	string	yes	The name of the new directory that is created in the specified destination directory when the contents of the source directory is cloned. The new directory must not exist.
<code>destination-directory-path</code>	string	yes	The directory path of the destination directory where the cloned new directory will be created. Path must include the View name e.g. /View1/Path.

Parameter	Type	Required	Description
source-directory-path	string	yes	The full path of the source directory in the View to clone (or recursively copy) from. Path must include the View name e.g. /View1/Path.

## view create

To create a new View.

Parameter	Type	Required	Description
allow-case-insensitive	bool	no	Whether to allow case insensitive names for files and directories.
disable-inline-dedup	bool	no	Disable the inline dedup for the View. You can only turn off inline dedup for the View, if it is on for the containing Storage Domain.
enable-antivirus	bool	no	Enable antivirus scan on this view. If enabled, at least one of "enable-scan-on-access" or "enable-scan-on-close" should also be enabled.
enable-fast-durable-handle	bool	no	Whether to enable fast durable handle. If set to true, view open handle will be kept in memory, which results in a higher performance. But the handles cannot be recovered if the node or service crashes.
enable-live-indexing	bool	no	Enable live indexing feature for the view.
enable-minion	bool	no	Enable minion feature for the view.
enable-nfs-kerberos-authentication	bool	no	Enable kerberos authentication in NFS.
enable-nfs-kerberos-integrity	bool	no	Enable kerberos integrity in NFS.

Parameter	Type	Required	Description
enable-nfs-kerberos-privacy	bool	no	Enable kerberos privacy in NFS.
enable-nfs-unix-authentication	bool	no	Enable unix authentication in NFS.
enable-nfs-view-discovery	bool	no	Enable View discoverability in NFS.
enable-offline-caching	bool	no	Enable offline file caching of this view.
enable-pinning	bool	no	Enable pinning on this view. If enabled, the chunk files accessed from this view will be pinned to SSD tier.
enable-s3-folder-support	bool	no	Whether to allow s3 folder support feature on the View.
enable-scan-on-access	bool	no	Enable antivirus scan when view is accessed.
enable-scan-on-close	bool	no	Enable antivirus scan when view is closed.
enable-smb-encryption	bool	no	Enable SMB encryption on this view alias.
enable-smb-oplock	bool	no	Whether to enable SMB oplock. If enabled, a client will be able to cache data locally.
enable-smb-view-discovery	bool	no	Enable View discoverability in SMB.
file-autolock-after-idle-duration	string	no	Specify the duration to lock a file that has not been accessed or modified (ie. has been idle) for a certain duration of time. For example: 2Y3M1D for 2 years, 3 months and 1 day. Do not set if it is required to disable auto lock.

Parameter	Type	Required	Description
file-extension-filter-blacklist	string	no	Creates a blacklist to disallow certain file extensions.
file-extension-filter-whitelist	string	no	Creates a whitelist to only allow certain file extensions.
file-lock-default-retention-duration	string	no	Specify a default retention duration for files in this view, if file lock is enabled for this view. Set to forever if the required default retention period is forever. For example: 2Y3M1D for 2 years, 3 months and 1 day.
file-lock-expiry-date	datetime	no	Specify a definite timestamp in "YYYY-MM-DDTHH:MM" format for retaining the file.
file-lock-max-retention-duration	string	no	Specify a maximum duration for which any file in this view can be retained for. For example: 2Y3M1D for 2 years, 3 months and 1 day. Set to forever if the required retention duration is forever.
file-lock-min-retention-duration	string	no	Specify a minimum retention duration after a file gets locked. The file cannot be modified or deleted during this timeframe. For example: 2Y3M1D for 2 years, 3 months and 1 day. Set forever if the required retention duration is forever.
file-lock-mode	string	no	Specify the mode of file lock. Possible values are: 'compliance' (default value) and 'enterprise'.
file-lock-protocol	string	no	Sets the file locking protocol. Possible values are: 'read-only', 'set-atime'.
filer-audit-enabled	bool	no	Whether to enable Filer Audit Logs.
name	string	yes	Name of the View.
pin-time-secs	int	no	Pin the chunk files accessed from this view to SSD tier for this long. By default, we pin the chunk files indefinitely.
project-domain	string	no	The Keystone project domain.

Parameter	Type	Required	Description
project-name	string	no	The Keystone project name.
protocol	list of strings	no	Array of protocols for the view. Valid values are NFS, NFS4, SMB, S3 and Swift and are specified in a comma separated string. Default if not mentioned during view creation will be taken as NFS, SMB and S3(Read-only)
protocol-mode	list of strings	no	Array of mode for protocols in the view. Valid values are ReadOnly (or 'r') and ReadWrite (or 'w') and are specified in a comma separated string. Number of items in the string should be equal to items in 'protocol' options or should be empty. Empty denotes that all protocols will be taken as ReadWrite mode.
qos-policy	string	no	QoS Policy of the View. For example, it can be 'Backup Target High', 'Backup Target Low', 'Backup Target SSD', 'TestAndDev High', 'TestAndDev Low', 'Filer High', 'Filer Low', 'Backup Target Auto' etc.
quota	int	no	Maximum allowed quota in GiB. Set -1 to remove the value.
quota-alert-limit	int	no	Threshold in GiB, over which an alert will be sent. Set -1 to remove the value.
quota-inherit	bool	no	Whether to inherit quota from Storage Domain. The default value of this parameter is set to true.
s3-key-mapping-type	string	no	Specifies the type of S3 key mapping config. Possible values are 'Random','Short','Long','Hierarchical' and 'ObjectId'.
security-style	string	no	Set security style in the View. This can be Native, Unified, Ntfs.
smb-access-based-enumeration	bool	no	Enable Access Based Enumeration for SMB
storage-domain-id	int	no	ID of a Storage Domain.

Parameter	Type	Required	Description
storage-domain-name	string	no	Name of the Storage Domain.
tenant-id	string	no	To specify id of the tenant owning a resource.
user-domain	string	no	The Keystone user domain.
user-name	string	no	The Keystone user name.
view-category	string	no	Category of the View. Valid values are 'BackupTarget', 'FileServices' and 'ObjectServices'. If category is not defined by user then by default 'FileServices' is selected.
view-description	string	no	Description of the View.

## view create-alias

To create a View Alias.

Parameter	Type	Required	Description
alias	string	yes	Alias for the view. It allows a path inside the View to be mounted using the Alias name.
view-name	string	yes	Name of the View.
view-path	string	yes	Full path of the directory inside a view.

## view delete

To delete an existing View.

Parameter	Type	Required	Description
name	string	yes	Name of the View.

## view delete-alias

To delete a View Alias.

Parameter	Type	Required	Description
alias	string	yes	Alias for the view. It allows a path inside the View to be mounted using the Alias name.

## view failover

This command will initiate a failover on the specified view.

Parameter	Type	Required	Description
id	int	yes	Specifies the view id.
type	string	yes	Specifies the view failover type. Type can be one of 'Planned', 'Unplanned' and 'Finalize'.

## view get-file-lock-status

Fetches the lock details of a file in a view.

Parameter	Type	Required	Description
view-name	string	yes	Name of the View.
view-path	string	yes	Full path of the directory inside a view.

## view get-subnet-whitelist

To get a view's subnet whitelist

Parameter	Type	Required	Description
name	string	yes	Name of the View.

## view list

To list View details.

Parameter	Type	Required	Description
ids	list of ints	no	Comma separated list of View ids.
names	list of strings	no	Comma separated list of View names.
storage-domain-ids	list of ints	no	Comma separated list of Storage Domain IDs.
storage-domain-names	list of strings	no	Comma separated names of the Storage Domains.

## view list-failover

This command will list all failovers on the specified view.

Parameter	Type	Required	Description
id	int	yes	Specifies the view id.

## view list-nfs-connections

To list the active NFS connections for views.

Parameter	Type	Required	Description
names	list of strings	no	Comma separated list of View names.

## view list-nlm-locks

To list the acquired NLM locks.

Parameter	Type	Required	Description
cookie	string	no	Opaque string returned in a previous command output to get the next set of entries in the output.
file-path	string	no	File path relative to the NFS mount path.



Parameter	Type	Required	Description
name	string	no	Name of the View.
page-count	int	no	Limit the number of entries in the command output.
verbose	bool	no	If set to true, more information is displayed.

## view list-smb-connections

To list the active SMB connections for views.

Parameter	Type	Required	Description
names	list of strings	no	Comma separated list of View names.

## view list-smb-file-opens

To list the active SMB file opens for views.

Parameter	Type	Required	Description
cookie	string	no	Opaque string returned in a previous command output to get the next set of entries in the output.
file-path	string	no	File path of an SMB file relative to the SMB mount path.
name	string	no	Name of the View.
page-count	int	no	Limit the number of entries in the command output.

## view lock

To lock a View. A locked view cannot be modified or deleted.

Parameter	Type	Required	Description
name	string	yes	Specifies the name of the view to lock.

## view lock-file

Locks a file in a view.

Parameter	Type	Required	Description
file-lock-expiry-date	datetime	no	Specify a definite timestamp in "YYYY-MM-DDTHH:MM" format for retaining the file.
view-name	string	yes	Name of the View.
view-path	string	yes	Full path of the directory inside a view.

## view overwrite

To overwrite a target view with contents of source view.

Parameter	Type	Required	Description
source-view-name	string	yes	Name of the Source View to copy contents from.
target-view-name	string	yes	Name of the Target View to be overwritten.

## view remove-subnet-from-whitelist

To remove a subnet from a view's subnet whitelist

Parameter	Type	Required	Description
clear-all	bool	no	Set this field to true to clear all subnet white list.
name	string	yes	Name of the View.
subnet-ip	string	no	Subnet IP for the Cluster.

## view rename

To rename a view.

Parameter	Type	Required	Description
name	string	yes	Name of the View.
new-name	string	yes	New Name of the View.

## view unlock

To unlock a View.

Parameter	Type	Required	Description
name	string	yes	Specifies the name of the view to unlock.

## view update

To update an existing View.

Parameter	Type	Required	Description
clear-auto-lock	bool	no	Clears the Auto Lock duration from the file lock config of the view.
clear-expiry-timestamp	bool	no	Clears the expiry timestamp from the file lock config of the view.
clear-max-retention-time	bool	no	Clears the max retention duration from the file lock config of the view.
clear-min-retention-time	bool	no	Clears the min retention duration from the file lock config of the view.
disable-inline-dedup	bool	no	Disable the inline dedup for the View. You can only turn off inline dedup for the View, if it is on for the containing Storage Domain.
enable-antivirus	bool	no	Enable antivirus scan on this view. If enabled, at least one of "enable-scan-on-access" or "enable-scan-on-close" should also be enabled.

Parameter	Type	Required	Description
enable-fast-durable-handle	bool	no	Whether to enable fast durable handle. If set to true, view open handle will be kept in memory, which results in a higher performance. But the handles cannot be recovered if the node or service crashes.
enable-minion	bool	no	Enable minion feature for the view.
enable-nfs-kerberos-authentication	bool	no	Enable kerberos authentication in NFS.
enable-nfs-kerberos-integrity	bool	no	Enable kerberos integrity in NFS.
enable-nfs-kerberos-privacy	bool	no	Enable kerberos privacy in NFS.
enable-nfs-unix-authentication	bool	no	Enable unix authentication in NFS.
enable-nfs-view-discovery	bool	no	Enable View discoverability in NFS.
enable-offline-caching	bool	no	Enable offline file caching of this view.
enable-pinning	bool	no	Enable pinning on this view. If enabled, the chunk files accessed from this view will be pinned to SSD tier.
enable-scan-on-access	bool	no	Enable antivirus scan when view is accessed.
enable-scan-on-close	bool	no	Enable antivirus scan when view is closed.
enable-smb-oplock	bool	no	Whether to enable SMB oplock. If enabled, a client will be able to cache data locally.

Parameter	Type	Required	Description
enable-smb-view-discovery	bool	no	Enable View discoverability in SMB.
file-autolock-after-idle-duration	string	no	Specify the duration to lock a file that has not been accessed or modified (ie. has been idle) for a certain duration of time. For example: 2Y3M1D for 2 years, 3 months and 1 day. Do not set if it is required to disable auto lock.
file-extension-filter-blacklist	string	no	Creates a blacklist to disallow certain file extensions.
file-extension-filter-whitelist	string	no	Creates a whitelist to only allow certain file extensions.
file-lock-default-retention-duration	string	no	Specify a default retention duration for files in this view, if file lock is enabled for this view. Set to forever if the required default retention period is forever. For example: 2Y3M1D for 2 years, 3 months and 1 day.
file-lock-expiry-date	datetime	no	Specify a definite timestamp in "YYYY-MM-DDTHH:MM" format for retaining the file.
file-lock-max-retention-duration	string	no	Specify a maximum duration for which any file in this view can be retained for. For example: 2Y3M1D for 2 years, 3 months and 1 day. Set to forever if the required retention duration is forever.
file-lock-min-retention-duration	string	no	Specify a minimum retention duration after a file gets locked. The file cannot be modified or deleted during this timeframe. For example: 2Y3M1D for 2 years, 3 months and 1 day. Set forever if the required retention duration is forever.
file-lock-mode	string	no	Specify the mode of file lock. Possible values are: 'compliance' (default value) and 'enterprise'.
file-lock-protocol	string	no	Sets the file locking protocol. Possible values are: 'read-only', 'set-atime'.

Parameter	Type	Required	Description
filer-audit-enabled	bool	no	Whether to enable Filer Audit Logs.
name	string	yes	Name of the View.
pin-time-secs	int	no	Pin the chunk files accessed from this view to SSD tier for this long. By default, we pin the chunk files indefinitely.
project-domain	string	no	The Keystone project domain.
project-name	string	no	The Keystone project name.
protocol	list of strings	no	Array of protocols for the view. Valid values are NFS, NFS4, SMB, S3 and Swift and are specified in a comma separated string. Default if not mentioned during view creation will be taken as NFS, SMB and S3(Read-only)
protocol-mode	list of strings	no	Array of mode for protocols in the view. Valid values are ReadOnly (or 'r') and ReadWrite (or 'w') and are specified in a comma separated string. Number of items in the string should be equal to items in 'protocol' options or should be empty. Empty denotes that all protocols will be taken as ReadWrite mode.
qos-policy	string	no	QoS Policy of the View. For example, it can be 'Backup Target High', 'Backup Target Low', 'Backup Target SSD', 'TestAndDev High', 'TestAndDev Low', 'Filer High', 'Filer Low', 'Backup Target Auto' etc.
quota	int	no	Maximum allowed quota in GiB. Set -1 to remove the value.
quota-alert-limit	int	no	Threshold in GiB, over which an alert will be sent. Set -1 to remove the value.
quota-inherit	bool	no	Whether to inherit quota from Storage Domain. The default value of this parameter is set to true.
security-style	string	no	Set security style in the View. This can be Native, Unified, Ntfs.

Parameter	Type	Required	Description
smb-access-based-enumeration	bool	no	Enable Access Based Enumeration for SMB
tenant-id	string	no	To specify id of the tenant owning a resource.
use-file-extension-filter	bool	no	Enables or Disables the existing filter on file extensions for the view.
view-category	string	no	Category of the View. Valid values are 'BackupTarget', 'FileServices' and 'ObjectServices'. If category is not defined by user then by default 'FileServices' is selected.
view-description	string	no	Description of the View.

## vlan

To run any Vlan related operations.

Operation	Short Name	Description
<code>add-dns-zone</code>		To add a dns zone name and vips mapping for a VLAN interface in the Cluster.
<code>create</code>	<code>add</code>	To add a VLAN for the Cluster.
<code>delete</code>	<code>rm</code>	To remove a VLAN from the Cluster.
<code>remove-dns-zones</code>		To remove dns zone for a VLAN interface in the Cluster.
<code>update</code>	<code>edit</code>	To edit a VLAN for the Cluster.
<code>update-dns-zone</code>		To update dns zone for a VLAN interface in the Cluster.

## vlan add-dns-zone

To add a dns zone name and vips mapping for a VLAN interface in the Cluster.

Parameter	Type	Required	Description
<code>dns-zone-name</code>	<code>string</code>	<code>yes</code>	To remove internal dns entries specified by given dns host name.
<code>dns-zone-vips</code>	<code>list of strings</code>	<code>yes</code>	To update internal dns vips.
<code>vlan-interface-group</code>	<code>string</code>	<code>yes</code>	Name of a network interface group.

## vlan create

To add a VLAN for the Cluster.



Parameter	Type	Required	Description
apps-ips	list of strings	no	Comma separated list of VLAN IP addresses for Apps.
ecmp-enabled	bool	no	When set, ECMP will be enabled in the vlan.
family	int	no	Param to specify IP address family, 1=IPv4(default) or 2=IPv6.
hostname	string	no	Hostname for the VLAN IPs.
id	int	yes	ID of the VLAN.
interface-group	string	no	Name of a network interface group.
subnet-gateway	string	no	Subnet gateway for the Cluster.
subnet-ip	string	no	Subnet IP of the VLAN.
subnet-mask-bits	int	no	Subnet mask bits for the Cluster.
subnet-mask-ip4	string	no	Subnet mask for IPv4 type subnet of the Cluster.
vlan-ips	list of strings	no	Comma separated list of VLAN IP addresses.
vlan-name	string	no	VLAN Name for vlan-id created

For example:

```
iris_cli vlan create id=100 interface-group=intf_group1 vlan-ips-
s=150.0.0.1,150.0.0.2,150.0.0.3 subnet-gateway=150.0.0.100 subnet-mask-bits-
s=24 subnet-ip=150.0.0.0
```

## vlan delete

To remove a VLAN from the Cluster.

Parameter	Type	Required	Description
vlan-interface-group	string	no	Name of a network interface group.

For example:

```
iris_cli vlan delete vlan-interface-group=intf_group1.100
```

## vlan remove-dns-zones

To remove dns zone for a VLAN interface in the Cluster.

Parameter	Type	Required	Description
dns-zone-names	list of strings	yes	Name of a network interface group.
vlan-interface-group	string	yes	Name of a network interface group.

## vlan update

To edit a VLAN for the Cluster.

Parameter	Type	Required	Description
add-apps-ips	list of strings	no	Comma separated list of IPs to add to the VLAN for Athena Apps.
add-ips	list of strings	no	Comma separated list of IPs to add to the VLAN.
family	int	no	Param to specify IP address family, 1=IPv4(default) or 2=IPv6.
hostname	string	no	Hostname for the VLAN IPs.
pool-name	string	no	To group the follower IPs to a pool.
remove-hostname	bool	no	Whether to remove the configured Hostname for the VLAN IPs.
remove-ips	list of strings	no	Comma separated list of VLAN IP addresses to remove from the VLAN.
subnet-gateway	string	no	Subnet gateway for the Cluster.
subnet-ip	string	yes	Subnet IP of the VLAN.

Parameter	Type	Required	Description
subnet-mask-bits	int	no	Subnet mask bits for the Cluster.
subnet-mask-ip4	string	no	Subnet mask for IPv4 type subnet of the Cluster.
vlan-interface-group	string	yes	Name of a network interface group.
vlan-name	string	no	VLAN Name for vlan-id created

## vlan update-dns-zone

To update dns zone for a VLAN interface in the Cluster.

Parameter	Type	Required	Description
add-resolved-vips	list of strings	no	To add resolved vips to the zone.
dns-zone-name	string	yes	To remove internal dns entries specified by given dns host name.
dns-zone-vips	list of strings	yes	To update internal dns vips.
remove-resolved-vips	list of strings	no	To remove resolved vips from the zone.
vlan-interface-group	string	yes	Name of a network interface group.