



stcli cluster Commands

HX Data Platform storage cluster operations.

stcli cluster [-h] {prepare | create | info | diag | refresh | shutdown | start | upgrade | upgrade-status | upgrade-kernel | version | create-config | recreate | reregister | get-data-replication-factor | get-cluster-access-policy | set-cluster-access-policy | enable-data-write-thru | disable-data-write-thru | storage-summary | get-zone | set-zone}

Syntax Description	Option	Required or Optional	Description
	create	One of set required.	Creates a storage cluster with the name and the given nodes identified by IP addresses.
	create-config	One of set required.	Creates a storage cluster from a configuration file.
	diag	One of set required.	Provides diagnostic messages about the storage cluster.
	disable-data-write-thru	One of set required.	Disables data write through on the storage cluster.
	enable-data-write-thru	One of set required.	Enables data write through on the storage cluster.
	get-cluster-access-policy	One of set required.	Gets storage cluster Cluster Access Policy.
	get-data-replication-factor	One of set required.	Gets storage cluster Data Replication Factor.
	info	One of set required.	Provides information about the currently configured storage cluster.
	prepare	One of set required.	Prepares network configuration for storage cluster for the set of nodes identified by IP addresses.

Option	Required or Optional	Description
recreate	One of set required.	Recreates an existing storage cluster with force option.
refresh	One of set required.	Refreshes storage cluster status.
reregister	One of set required.	Reregister an existing storage cluster from one vCenter to another.
set-cluster-access-policy	One of set required.	Sets storage cluster Cluster Access Policy.
shutdown	One of set required.	Shuts down storage cluster.
start	One of set required.	Starts the storage cluster
storage-summary	One of set required.	Provides storage summary about the currently configured storage cluster.
upgrade	One of set required.	Upgrades the storage cluster
upgrade-kernel	One of set required.	Provides transitional information about storage cluster upgrade kernel.
upgrade-status	One of set required.	Provides transitional information about storage cluster upgrade status.
version	One of set required.	Provides information about storage cluster version.
get-zone	One of set required	Gets the zone details. This option is used to check if the zone is enabled.
set-zone	One of set required	Enable or disable zone(s).

Command Default

None. One option from the set is required.

Usage Guidelines

Accompany the `stcli cluster` command with one of the positional arguments enclosed in `{ }`, or optional arguments enclosed in `[]`.

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stcli cluster create Command

Creates a storage cluster with the name and the given nodes identified by IP addresses.



Important

Please enter password when prompted.

```
stcli cluster create [-h] --name NAME --ip IP --mgmt-ip MGMTIP [--vcenter-datacenter DATACENTER]
[--vcenter-cluster VCENTERCLUSTER] [--vcenter-url VCENTERURL] [--vcenter-ssourl
VCENTERSSOURL] [--vcenter-user VCENTERUSER] --node-ips NODEIPS [NODEIPS . . .]
--data-replication-factor {2 | 3} [--cluster-access-policy {strict | lenient}] [--zone { 0 | 1}]
[--vdi-only-deployment] [-f] [--dryrun] [--esx-username ESXUSERNAME]
```

Table 1: Syntax Description

Option	Required or Optional	Description
--ip IP	Required	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command.
--mgmt-ip MGMTIP	Required	IP of storage cluster management server.
--name NAME	Required	Name of storage cluster.
--node-ips NODEIPS [NODEIPS . . .]	Required	IPs of all converged nodes to add to storage cluster.
--vcenter-datacenter DATACENTER	Optional	Name of vCenter datacenter.
--vcenter-user VCENTERUSER	Optional	User name of vCenter administrator. Enter vCenter administrator password when prompted.

Option	Required or Optional	Description
--cluster-access-policy {strict, lenient}	Optional. Default lenient	Cluster Access Policy (strict or lenient).
--data-replication-factor {2, 3}	Optional. Default 3	Data Replication Factor (2 or 3). This can only be set during initial storage cluster creation.
--dryrun	Optional	Only validate input parameters.
--esx-username ESXUSERNAME	Optional	User name of ESX administrator. Enter ESX administrator password when prompted.
-f, --force	Optional	Force create storage cluster. This ignores network configuration errors and creates the cluster with provided information.
--vcenter-cluster VCENTERCLUSTER	Optional	Name of vCenter cluster.
--vcenter-sso-url VCENTERSSOURL	Optional	URL of vCenter SSO server. This is inferred from <code>--vcenter-url</code> , if not specified.
--vcenter-url VCENTERURL	Optional	URL of vCenter, <code><vcentername></code> . Where <code><vcentername></code> can be FQDN or IP.
--vdi-only-deployment	Optional. Default is VSI.	Set Workload Type as VDI.
-zone {0,1}	Optional	Enable (1) or Disable (0) zones.
Controller VM root user password	Optional	All nodes must have the same password. Enter controller VM password when prompted.

Command Default None. See table for list of required and optional parameters.

Usage Guidelines Accompany the `stcli cluster create` command with appropriate positional arguments.

stcli cluster create-config Command

Creates a storage cluster from a configuration file.



Important Please enter password when prompted.

```
stcli cluster create-config [-h] [-f] [--dryrun] --vcenter-user VCENTERUSER [--esx-username ESXUSERNAME] config
```

Table 2: Syntax Description

Option	Required or Optional	Description
config	Required	Configuration storage cluster file.
--dryrun	Optional	Only validate input parameters.
--esx-username ESXUSERNAME	Optional	User name of ESX administrator. Enter ESX administrator password when prompted.
-f, --force	Optional	Force create storage cluster. This ignores network configuration errors and creates the cluster with provided information.
--vcenter-user VCENTERUSER	Optional	User name of vCenter administrator. Enter vCenter administrator password when prompted.
Controller VM root user password	Optional	All nodes must have the same password. Enter controller VM password when prompted.

Command Default None. See table for list of required and optional parameters.

Usage Guidelines Accompany the `stcli cluster create-config` command with the appropriate positional arguments.
See the Cisco HyperFlex Systems Installation Guide for VMware ESXi for requirements.

stcli cluster diag Command

Provides diagnostic messages about the cluster.

`stcli cluster diag [-h] [--id ID | --ip NAME] [--type TYPE]`

Syntax Description	Option	Required or Optional	Description
	--id ID	Optional.	ID of storage cluster node. The ID is listed in the <code>stcli cluster info</code> command.
	--ip NAME	Optional.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command.
	--type TYPE	Optional.	Type of storage cluster node. Options are: <code>converged</code> OR <code>compute</code>

Command Default If no node is specified, default applies to all nodes in the storage cluster.

Usage Guidelines Accompany the `stcli cluster diag` command with optionally, arguments enclosed in [].

stcli cluster disable-data-write-thru Command

Disable data write through on the storage cluster.

stcli cluster disable-data-write-thru [-h] [--id ID | --ip NAME]

Syntax Description	Option	Required or Optional	Description
	--id ID	Optional.	ID of storage cluster node. The ID is listed in the <code>stcli cluster info</code> command.
	--ip NAME	Optional.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command.

Command Default If no node is specified, default applies to all nodes in the storage cluster.

Usage Guidelines Accompany the `stcli cluster disable-data-write-thru` command with optionally positional arguments enclosed in [].

stcli cluster enable-data-write-thru Command

Enable data write through on the storage cluster.

stcli cluster enable-data-write-thru [-h] [--id ID | --ip NAME]

Syntax Description	Option	Required or Optional	Description
	--id ID	Optional.	ID of storage cluster node. The ID is listed in the <code>stcli cluster info</code> command.
	--ip NAME	Optional.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command.

Command Default If no node is specified, default applies to all nodes in the storage cluster.

Usage Guidelines Accompany the `stcli cluster enable-data-write-thru` command with optionally positional arguments enclosed in [].

stcli cluster get-cluster-access-policy Command

Gets storage cluster Cluster Access Policy.

stcli cluster get-cluster-access-policy [-h]

Command Default Return cluster setting.

Usage Guidelines

Enter the `stcli cluster get-cluster-access-policy` command.

```
# stcli cluster get-cluster-access-policy
lenient
```

stcli cluster get-data-replication-factor Command

Gets storage cluster Data Replication Factor.

`stcli cluster get-data-replication-factor [-h]`

Command Default

Returns cluster setting.

Usage Guidelines

Run the `stcli cluster get-data-replication-factor` command.

```
# stcli cluster get-data-replication-factor
3
```

stcli cluster info Command

Displays detailed information about the storage cluster and each node in the storage cluster.

`stcli cluster info [-h] --summary`

Syntax Description	Option	Required or Optional	Description
	<code>--summary</code>	Optional.	Return summary of information only.

Command Default

Returns full cluster information.

Usage Guidelines

Accompany the `stcli cluster info` command with the optional positional argument enclosed in `[]` to return a summary of the cluster information.

```
# stcli cluster info
about:
  serviceType: stMgr
  instanceUuid: 345258cf-12d4-4d71-ba9e-b91e47d15e49
  name: HyperFlex StorageController
  locale: English (United States)
  serialNumber:
  apiVersion: 0.1
  modelNumber: X9DRT
  build: 2.0.1a-20569 (internal)
  displayVersion: 2.0(1a)
  fullName: HyperFlex StorageController 2.0.1a
  productVersion: 2.0.1a-20569
```

```

vCluster:
  state: online
  boottime: 0
  entityRef:
    type: virtcluster
    id: domain-c876
    name: cs002-cl
  virtNodes:
    -----
    type: virtnode
    id: 00000000-0000-0000-0000-002590d423a4
    -----
    type: virtnode
    id: 00000000-0000-0000-0000-002590d42388
    -----
    type: virtnode
    id: 00000000-0000-0000-0000-002590d423b2
    -----
  virtDatastores:

upgradeState: ok
upgradeVersion: 2.0.1a-20569
cluster:
  allFlash: False
  healthState: healthy
  capacity: 5.0T
  state: online
  compliance: 1
  resiliencyInfo:
    nodeFailuresTolerable: 1
    state: 1
    messages:
      Storage cluster is healthy.
    cachingDeviceFailuresTolerable: 1
    persistentDeviceFailuresTolerable: 1

  activeNodes: 3
  uptime: 18:53:15
  boottime: 1484703014
  entityRef:
    type: cluster
    id: 345258cf12d44d71:456146e1b82ea1b7
  downtime: 0:00:00
  healingInfo:
    inProgress: False
  freeCapacity: 5.0T
  usedCapacity: 55.0G
  config:
    clusterUuid: 345258cf12d44d71:456146e1b82ea1b7
    ip: 10.104.48.28
    dataReplicationFactor: 2
    clusterAccessPolicy: lenient
    size: 3

  nodes:
    -----
    type: pnode
    id: bf7a0223564d0db8:88974e15886ab3e0
    name: 10.104.48.27
    -----
    type: pnode
    id: d1b5bc18564da19b:bc1e977ebd9aafec
    name: 10.104.48.26
    -----
    type: pnode

```



```

        id: d8e6ec9a564de28a:9d870ca45456c471
        name: 10.104.48.24
        -----
    rawCapacity: 10.0T
    state: online

    stNodes:
    -----
        type: node
        id: 00000000-0000-0000-0000-002590d423b2
        name: cs-002a
        -----
        type: node
        id: 00000000-0000-0000-0000-002590d42388
        name: cs-002c
        -----
        type: node
        id: 00000000-0000-0000-0000-002590d423a4
        name: cs-002d
        -----

    entityRef:
        type: cluster
        id: 3770173484459904369:4999354996629610935
        name: cs002-cl
    config:
        clusterUuid: 3770173484459904369:4999354996629610935
        name: cs002-cl
        mgmtIp:
            addr: 10.104.32.32
            method: dhcp
        vCenterDatacenter: cs002-dc
        ip:
            addr: 10.104.48.28
            method: dhcp
        vCenterClusterName: cs002-cl
        dataReplicationFactor: 2
        workloadType: 2
        vCenterClusterId: domain-c876
        nodeIPSettings:
            cs-002d:
            cs-002c:
            cs-002a:
        vCenterDatacenterId: datacenter-871
        clusterAccessPolicy: lenient
        vCenterURL: cs-vc6
        dnsServers:
        size: 3

```

stcli cluster prepare Command

Prepares network configuration for the storage cluster for the set of nodes identified by IP addresses.



Note This is an advanced command. Do not use without TAC assistance.

```

stcli cluster prepare [-h] [--node-ips NODEIPS [NODEIPS . . .] | --config CONFIG} [--hypervisor-ips
HYPERVISORIPS [HYPERVISORIPS . . .]] [--storefs-ips STORFSIPS [STORFSIPS . . .]] [--ipmi-ips


```

IPMIIPS [IPMIIPS . . .] [--vmotion-ips VMOTIONIPS [VMOTIONIPS . . .] [--netmask NETMASK] [--gateway GATEWAY] [--vlan VLAN] [--netmask1 NETMASK1] [--gateway1 GATEWAY1] [--vlan1 VLAN1] [--dns DNS [DNS . . .] [--ntp NTP [NTP . . .] [--timezone TIMEZONE] [--smtp SMTPSERVER] [--fromaddress FROMADDRESS] [--dryrun]

Syntax Description	Option	Required or Optional	Description
	--config CONFIG	Require one from set.	Network configuration file.
	--node-ips NODEIPS [NODEIPS . . .]	Require one from set.	IPs of storage cluster nodes to add to configuration. Separate multiple IPS with a space.
	--dns DNS [DNS . . .]	Optional.	IPs of DNS server. Separate multiple IPS with a space.
	--dryrun	Optional.	Only validate input parameters.
	--fromaddress FROMADDRESS	Optional.	Address to send Auto Support emails from.
	--gateway GATEWAY	Optional.	Default gateway.
	--gateway1 GATEWAY1	Optional.	Default gateway1.
	--hypervisor-ips HYPERVISORIPS [HYPERVISORIPS . . .]	Optional.	IPs of hypervisor to be applied. Separate multiple IPS with a space.
	--ipmi-ips IPMIIPS [IPMIIPS . . .]	Optional.	IPs of IPMI to be applied. Separate multiple IPS with a space.
	--netmask NETMASK	Optional.	Subnet mask.
	--netmask1 NETMASK1	Optional.	Subnet mask1.
	--ntp NTP [NTP . . .]	Optional.	IPs of NTP servers. Separate multiple server IDs with a space.
	--smtp SMTPSERVER	Optional.	SMTP server.
	--storefs-ips STORFSIPS [STORFSIPS . . .]	Optional.	IPs of storage cluster to be applied. Separate multiple IPS with a space.
	--timezone TIMEZONE	Optional.	Timezone.
	--vlan VLAN	Optional.	VLAN tag.
	--vlan1 VLAN1	Optional.	VLAN tag1.
	--vmotion-ips VMOTIONIPS [VMOTIONIPS . . .]	Optional.	IPs of vMotion to be applied. Separate multiple IPS with a space.

Command Default None. One option from the set is required.

Usage Guidelines

Accompany the `stcli cluster prepare` command with one of the positional arguments enclosed in `{ }` and optionally arguments enclosed in `[]`.



Note Do not use this command with out TAC assistance.

stcli cluster recreate Command

Recreates an existing storage cluster with force option.



Important Please enter password when prompted.

stcli cluster recreate [-h] --vcenter-user VCENTERUSER

Syntax Description

Option	Required or Optional	Description
<code>--vcenter-user VCENTERUSER</code>	Required	User name of vCenter administrator. Enter vCenter administrator password when prompted.
Controller VM root user password	Optional	All nodes must have the same password. Enter controller VM password when prompted.

Command Default

None.

Usage Guidelines

Accompany the `stcli cluster recreate` command with the positional argument and optionally arguments enclosed in `[]`.

stcli cluster refresh Command

Refreshes storage cluster status.

stcli cluster refresh [-h]

Command Default

Returns refreshed cluster status.

Usage Guidelines

Run the `stcli cluster refresh` command to manually refresh the cluster status.

stcli cluster reregister Command

Shift registration of an existing storage cluster from one vCenter to another.

**Important**

- vCenter must be up and running to complete this command.
- Please enter password when prompted.

```
stcli cluster reregister [-h] --vcenter-datacenter NEWDATACENTER --vcenter-cluster
NEWVCENTERCLUSTER --vcenter-url NEWVCENTERURL [--vcenter-sso-url
NEWVCENTERSSOURL] --vcenter-user NEWVCENTERUSER
```

Syntax Description

Option	Required or Optional	Description
--vcenter-cluster NEWVCENTERCLUSTER	Required	Name of the new vCenter cluster.
--vcenter-datacenter NEWDATACENTER	Required	Name of the new vCenter datacenter.
--vcenter-sso-url NEWVCENTERSSOURL	Optional	URL of the new vCenter SSO server. This is inferred from --vcenter-url, if not specified.
--vcenter-url NEWVCENTERURL	Required	URL of the new vCenter, <vcentername>. Where <vcentername> can be FQDN or IP.
--vcenter-user NEWVCENTERUSER	Required	User name of the new vCenter administrator. Enter vCenter administrator password when prompted.

Command Default

None.

Usage Guidelines

Accompany the `stcli cluster reregister` command with the required arguments and optional arguments enclosed in [], as needed.

Use when moving a storage cluster from one vCenter server to another vCenter server. Task includes moving the storage cluster, registering the storage cluster with the new vCenter, and unregistering the storage cluster from the old vCenter. See the *Cisco HyperFlex Data Platform Administration Guide*.

stcli cluster set-cluster-access-policy Command

Sets storage cluster Cluster Access Policy.

```
stcli cluster set-cluster-access-policy [-h] --name {strict | lenient}
```

Syntax Description	Option	Required or Optional	Description
	<code>--name {strict, lenient}</code>	Required.	Select the storage cluster Cluster Access Policy. <ul style="list-style-type: none"> • Strict - Applies policies to protect against data loss. • Lenient - Applies policies to support longer storage cluster availability.

Command Default No default using the `stcli cluster set-cluster-access-policy` command line. Using the HX Data Platform Installer, the default is `lenient`.

Usage Guidelines Used to change the setting applied during storage cluster creation. Accompany the `stcli cluster set-cluster-access-policy` command with one of the positional arguments enclosed in `{ }`.

This example shows setting the cluster Access Policy to `strict`. The command returns the applied setting.

```
# stcli cluster set-cluster-access-policy --name strict
strict
```

stcli cluster shutdown Command

Stops storage cluster operations and shuts it down.

```
stcli cluster shutdown [-h] [--formatchange]
```

Syntax Description	Option	Required or Optional	Description
	<code>--formatchange</code>	Optional.	Enable disk format change after cluster shutdown.

Command Default None.

Usage Guidelines Run the `stcli cluster shutdown` command with optionally arguments enclosed in `[]`.

stcli cluster start Command

Starts the storage cluster.

```
stcli cluster start [-h]
```

Command Default None.

Usage Guidelines The `stcli cluster start` command does not have any additional options.

stcli cluster storage-summary Command

Provides storage summary about the currently configured the storage cluster.

stcli cluster storage-summary [-h]

Command Default No additional options available.

Usage Guidelines Run `stcli cluster storage-summary` command to display the result.

```
# stcli cluster storage-summary
address: 10.104.48.28
name: cs002-cl
state: online
uptime: 0 days 19 hours 28 minutes 38 seconds
activeNodes: 3 of 3
compressionSavings: 83.2387622179
deduplicationSavings: 0.0
freeCapacity: 5.0T
healingInfo:
  inProgress: False
resiliencyInfo:
  messages:
    Storage cluster is healthy.
  state: 1
  nodeFailuresTolerable: 1
  cachingDeviceFailuresTolerable: 1
  persistentDeviceFailuresTolerable: 1
spaceStatus: normal
totalCapacity: 5.0T
totalSavings: 83.2387622179
usedCapacity: 55.0G
clusterAccessPolicy: lenient
dataReplicationCompliance: compliant
dataReplicationFactor: 2
```

stcli cluster upgrade Command

Upgrades HX Data Platform software to the latest version.



Important Please enter password when prompted.

```
stcli cluster upgrade [-h] [--status] [--info] [--components COMPONENTS {hxdp | ucs-fw}] [--location
LOCATION] [--hypervisor-bundle HYPERVISOR-BUNDLE] [--vcenter-user VCENTERUSER]
[--checksum CHECKSUM] [--ucsm-host UCSMHOST] [--ucsm-user UCSMUSER] [--ucsfw-version
UCSFR-VERSION] [--ucsm5-fw-version UCSM5-FW-VERSION] [--dryrun]
```

Syntax Description	Option	Required or Optional	Description
	--checksum CHECKSUM	Optional	Checksum of the installer.
	--components COMPONENTS	Required	Comma separated upgrade components {hxdp, ucs-fw}
	--dryrun	Optional	Validate cluster upgrade can be possible.
	--info	Optional	Check for upgrade information.
	--location LOCATION	Optional	Location of the upgrade package. Best case use /tmp on the controller VM. <ul style="list-style-type: none"> Download the upgrade package to your computer. Upload it (using scp or a similar tool) to the controller VM of the appliance on which you run the upgrade command.
	--hypervisor-bundle HYPERVISOR-BUNDLE	Optional	Location of the ESXi offline bundle. Best case use /tmp on the controller VM. <ul style="list-style-type: none"> Download the upgrade package to your computer. Upload it (using scp or a similar tool) to the controller VM of the appliance on which you run the upgrade command.
	--status	Optional	Check for upgrade status.
	--ucsfw-vesion UCSFW-VERSION	Optional	UCS Server Firmware target version.
	--ucsm5-fw-vesion UC5M5-FW-VERSION	Optional	UCS Server Firmware target version for M5 servers.
	--ucsm-host UC5MHOST	Optional	Hostname or IP of UCS Manager server.
	--ucsm-user UC5MUSER	Conditionally required	User name of UCS Manager server. Required only if upgrading the UCS Manager component.
	--vcenter-user VCENTERUSER	Conditionally required	User name of vCenter administrator. Required only if upgrading the vCenter component. Enter vCenter administrator password when prompted.
	--vcenter-password VCENTERPWD	Conditionally required	Password for vCenter server. Required only if upgrading the vCenter component.

Command Default Assumes settings of existing storage cluster if additional options are not provided.

Usage Guidelines Accompany the `stcli cluster upgrade` command with one or more of the optional arguments enclosed enclosed in [].

See the Cisco HyperFlex Systems Upgrade Guide.

stcli cluster upgrade-kernel Command



Note This command is not supported. .

stcli cluster upgrade-status Command

Displays the last known upgrade status of the HX Data Platform software. If the upgrade is in progress, transitional status is listed. Once the upgrade is complete, the status lists the most recent upgrade. This also lists if an upgrade is available or you are due for an upgrade.

stcli cluster upgrade-status [-h]

Command Default No available options.

Usage Guidelines Accompany the `stcli cluster upgrade-status` command.

This example shows :

```
# stcli cluster upgrade-status
```

```
Nodes up to date: [cs-002a(10.104.32.21), cs-002c(10.104.32.25), cs-002d(10.104.32.27)]  
Cluster upgrade succeeded.
```

stcli cluster version Command

Displays the version number of each node in the storage cluster.

stcli cluster version [-h]

Command Default No options available.

Usage Guidelines Run the `stcli cluster version` command.

This example shows :

```
# stcli cluster version
```

```
Cluster version: 2.0(1a)  
Node cs-002c version: 2.0(1a)  
Node cs-002a version: 2.0(1a)  
Node cs-002d version: 2.0(1a)
```


stcli cluster get-zone Command

Gets the zone details. This option is used to check if the zone is enabled.

stcli cluster get-zone

Command Default No user input is required.

Usage Guidelines The `stcli cluster get-zone` command does not have any additional options.

stcli cluster set-zone Command

Enable or disable zone(s).

stcli cluster set-zone <--zone option_arg {1:enable, 0:disable}> [--numzones option_arg]

Command Default If the option `<--numzones>` is not specified, storfs will automatically decide on the number of zones to be configured based on the active number of nodes in the cluster at the point of invocation.

Usage Guidelines Accompany the `stcli cluster set-zone` command with the zone option to enable or disable zone(s).

```
stcli cluster set-zone --zone 0 (to disable a zone)
```

```
stcli cluster set-zone --zone 1 (to enable and create default number of zones)
```

```
stcli cluster set-zone --zone 1 -numzones <integer-value> (to enable zones and create a specific number of zones)
```

```
stcli rebalance start (you must execute the rebalance start command after you enable and create zones)
```

