



## **Cisco HyperFlex Data Platform CLI Guide, 5.0**

**First Published:** 2021-11-10

**Last Modified:** 2023-07-14

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# CHAPTER 1

## Overview

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- [Introduction, on page 1](#)

## Introduction

Cisco HyperFlex currently supports two command line interfaces (CLI):

- [hxcli Commands](#)
- [stcli Commands](#)

The Cisco HyperFlex `hxcli` commands are replacing `stcli` commands. When possible, use the `hxcli` commands as they perform much faster than the same `stcli` commands.

### Intended Audience

The Cisco HyperFlex CLI are intended for use by customers and partners. When performing advanced operations, TAC assistance is recommended.







## CHAPTER 2

# hxcli Commands

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## hxcli Commands

### hxcli Commands

HX Data Platform Command Line Interface (CLI) commands all begin with **hxcli**.

**hxcli [-h] {about | cluster | dataprotection | datastore | disk | encryption | events | node | security | services | tasks | iscsi | vcenter | version}**

*Table 1: Syntax Description*

Option	Required or Optional	Description
iscsi	One of set required.	Commands supported in the iSCSI namespace.



**Note** **hxcli iscsi** commands are located in this guide. For details on other **hxcli** commands, see the [HX CLI Reference](#).

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

**Usage Guidelines** Accompany the `hxcli` command with one of the positional arguments enclosed in `{ }` or optionally, arguments enclosed in `[ ]`.

## hxcli cluster Commands

### hxcli cluster Command

Displays the list of commands available in the cluster namespace.

`hxcli cluster {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster.

*Table 2: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

### hxcli cluster about Command

Displays information about the server version and the product details for each node in the storage cluster.

`hxcli cluster about {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster about.
	<code>-o, --output string</code>		Output format. One of: <code>[json yaml wide]</code> (default "wide")

Table 3: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster about` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli cluster detail Command

Displays detailed configuration information for each node in the storage cluster.

`hxcli cluster detail {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster detail.
	<code>-o, --output string</code>		Output format. One of: <code>[json yaml wide]</code> (default "wide")

Table 4: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster detail` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli cluster health Command

Displays the resiliency health of the storage cluster.

`hxcli cluster health {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster health.
	<code>-o, --output string</code>		Output format. One of: <code>[json yaml wide]</code> (default "wide")

Table 5: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster health` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli cluster info Command

Displays detailed configuration, capacity, health, and disks information for each node in the storage cluster.

`hxcli cluster info {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster info.
	<code>-o, --output string</code>		Output format. One of: <code>[json yaml wide]</code> (default "wide")

Table 6: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster info` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli cluster shutdown Command

Shuts down the HyperFlex storage cluster.

`hxcli cluster shutdown {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster shutdown.

Table 7: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster shutdown` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli cluster start Command

Starts the HyperFlex cluster.

`hxcli cluster start {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster start.

Table 8: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster start` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli cluster stats Command

Displays information related to cluster space savings and capacity statistics.

`hxcli cluster stats {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster stats.
	<code>-o, --output string</code>		Output format. One of: <code>[json yaml wide]</code> (default "wide")

Table 9: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster stats` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli cluster Command

Displays the list of commands available in the cluster namespace.

`hxcli cluster {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for cluster.

Table 10: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli cluster` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli dataprotection Commands

### hxcli dataprotection Command



**Attention** Support for this CLI ends with HXDP Release 5.5(1a).

Commands supported in the Data Protection namespace.

`hxcli dataprotection {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Help for dataprotection

Table 11: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).
5.5(1a)	Support for this CLI ends.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection network Command



**Attention** Support for this CLI ends with HXDP Release 5.5(1a).

Commands supported in the Data Protection network namespace.

### hxcli dataprotection network {flags}

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Help for dataprotection network.

Table 12: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).
5.5(1a)	Support for this CLI ends.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection network` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection network edit Command



**Attention** Support for this CLI ends with HXDP Release 5.5(1a).

Provides means to the edit the range of IPs and set the replication bandwidth limit for a storage cluster that has replication configured.

**hxcli dataprotection network edit {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Help for dataprotection network edit
	<b>-b, --bandwidth int</b>		Replication incoming and outgoing bandwidth (Mbits/s). (default -1)
	<b>-s, --beginAddress string</b>		Replication IP pool begin address.
	<b>-e, --endAddress string</b>		Replication IP pool end address.
	<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

Table 13: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).
5.5(1a)	Support for this CLI ends.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `stcli services asup` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli dataprotection network info Command



**Attention** Support for this CLI ends with HXDP Release 5.5(1a).

Displays detailed information about the replication network that is configured on the storage cluster.

**hxcli dataprotection network info {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Help for dataprotection network info
	<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

Table 14: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).



HX Release	Modification
5.5(1a)	Support for this CLI ends.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection network info` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup Command

Commands supported in the Data Protection svgroup namespace.

**hxcli dataprotection svgroup {flags}**

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Help for dataprotection svgroup.

*Table 15: Command History*

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup create Command

Creates a Storage Volume Group of HX iSCSI LUNs.

**hxcli dataprotection svgroup create {flags}**

### Alias

You can also use the alias "cr" as a shortcut to specify create.

**hxcli dataprotection svgroup cr [flags]**

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Help for dataprotection svgroup create.
	<code>-d, --description string</code>		Description of the group.

Option	Required or Optional	Description
<b>-m, --members string</b>		Members of the group. Comma(,) separated list of HX iSCSI LUN serial numbers.
<b>-n, --name string</b>		Name of the group.
<b>-q, --quiesce</b>		Quiesce  <b>Note</b> Not supported in Cisco HX Release 5.0(x) and later.
<b>-r, --replicationIntervalInMinutes</b>		Replication interval in minutes.  <b>Note</b> Not supported in Cisco HX Release 5.0(x) and later.
<b>-s, --snapshotRetentionCount int</b>		Snapshot retention limit (default 32)
<b>-t, --targetName string</b>		Name of the target.

Table 16: Command History

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.  <b>Note</b> The <b>-r, --replicationIntervalInMinutes</b> and <b>-q, --quiesce</b> keywords are not supported in this release.

**Command Default**

Default (or None.)

**Usage Guidelines**

Example: Accompany the `hxcli dataprotection svgroup create` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup delete Command

Deletes a Storage Volume Group of HX iSCSI LUNs

**hxcli dataprotection svgroup delete {flags}**

**Alias**

You can also use the alias "del", "remove", "rm" as a shortcut to specify create.

**hxcli dataprotection svgroup del [flags]**

**hxcli dataprotection svgroup rm [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Help for dataprotection svgroup delete.
	<b>-g, --group-id string</b>		ID of the group.

Table 17: Command History

HX Release	Modification
5.0	Not supported in Cisco HX Release 5.0(x) and later.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup delete` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup list Command

Lists all Storage Volume Groups with detailed information about each group.

**hxcli dataprotection svgroup list {flags}**

### Alias

You can also use the alias "ls", "li" as a shortcut to specify create.

**hxcli dataprotection svgroup ls [flags]**

**hxcli dataprotection svgroup li [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Help for dataprotection svgroup list.
	<b>-g, --group-id string</b>		ID of the group
	<b>-n, --group-name string</b>		Name of the group.
	<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")
	<b>--no header</b>		When using the default or custom-column output format, don't print headers (default print headers).

Table 18: Command History

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup list` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup snapshot Command

Commands supported in the Data Protection svgroup namespace.

`hxcli dataprotection svgroup snapshot {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Help for dataprotection svgroup snapshot.

Table 19: Command History

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup snapshot` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup snapshot create Command

Create a Storage Volume Group snapshot.

`hxcli dataprotection svgroup snapshot create {flags}`

### Alias

You can also use the alias "cr" as a shortcut to specify create.

`hxcli dataprotection snapshot svgroup cr [flags]`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Help for dataprotection svgroup snapshot create.
	<code>-d, --description string</code>		Description of the snapshot.
	<code>-g, --group-id string</code>		ID of the group.
	<code>-q, --quiesce</code>		Quiesce
	<code>-s, --snap-name string</code>		Name of the snapshot.

Table 20: Command History

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup snapshot create` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup snapshot prepare Command

Prepare for Storage Volume Group snapshot.

**hxcli dataprotection svgroup snapshot prepare {flags}**

### Alias

You can also use the alias "pre" as a shortcut to specify prepare.

**hxcli dataprotection svgroup snapshot pre [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Help for dataprotection svgroup snapshot prepare.
	<b>-g, --group-id string</b>		ID of the group.
	<b>-s, --snap-name string</b>		Name of the snapshot.

Table 21: Command History

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup snapshot prepare` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup snapshot delete Command

Deletes a Storage Volume Group of HX iSCSI LUNs

**hxcli dataprotection svgroup snapshot delete {flags}**

**Alias**

You can also use the alias "del", "remove", "rm" as a shortcut to specify delete.

**hxcli dataprotection svgroup snapshot del [flags]**

**hxcli dataprotection svgroup snapshot rm [flags]**

Syntax Description	Option	Required or Optional	Description
	-h, --help		Help for dataprotection svgroup delete.
	-g, --group-id string		ID of the group.
	-s, --snap-id string		ID of the snapshot.

Table 22: Command History

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup snapshot delete` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup snapshot list Command

Lists Storage Volume Group snapshots.

**hxcli dataprotection svgroup snapshot list {flags}**

**Alias**

You can also use the alias "ls", "li" as a shortcut to specify list.

**hxcli dataprotection svgroup snapshot ls [flags]**

**hxcli dataprotection svgroup snapshot li [flags]**

Syntax Description	Option	Required or Optional	Description
	-h, --help		Help for list.
	-g, --group-id string		ID of the group.
	-o, --output string		Output format. One of: [json yaml wide] (default "wide")
	-s, --snapshot-id string		ID of the snapshot.

Option	Required or Optional	Description
<b>-n, --snapshot-name string</b>		Name of the snapshot.
<b>--no header</b>		When using the default or custom-column output format, don't print headers (default print headers).

Table 23: Command History

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup snapshot list` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli dataprotection svgroup snapshot export Command

Export a Storage Volume Group snapshot.

**hxcli dataprotection svgroup snapshot export {flags}**

### Alias

You can also use the alias "exp" as a shortcut to specify export.

**hxcli dataprotection snapshot svgroup exp [flags]**

**Syntax Description**

Option	Required or Optional	Description
<b>-h, --help</b>		Help for dataprotection svgroup snapshot export.
<b>-g, --group-id string</b>		ID of the group.
<b>-s, --snap-id string</b>		ID of the snapshot.
<b>-t, --target-name string</b>		Name of the target.

Table 24: Command History

HX Release	Modification
5.0	This command was introduced in Cisco HX Release 5.0.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli dataprotection svgroup snapshot export` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

# hxcli datastore Commands

## hxcli datastore Command

Displays the list of commands available in the datastore namespace.

**datastore {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for datastore create.

*Table 25: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli datastore` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli datastore create Command

Creates a logical container used by the HX Data Platform plug-in to manage your storage use and the storage resources.

**datastore create {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for datastore create command.
	<b>-b, --block-size string</b>		Block size. One of [4K 8K] (default "8K")
	<b>-n, --name string</b>		New name of the datastore
	<b>-s, --size int</b>		Size of the datastore
	<b>-u, --unit string</b>		Unit. One of [tb gb]
	<b>-e, --unit string</b>	Optional	Creates an encrypted datastore if this option is provided.



Table 26: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli datastore create` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli datastore delete Command

Deletes the selected datastore.

`datastore delete {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for datastore delete command.
	<code>-i, --id string</code>		ID of the datastore
	<code>-n, --name string</code>		New name of the datastore

Table 27: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli datastore delete` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli datastore edit Command

Provides means to edit the name or capacity of the selected datastore.

`datastore edit {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for datastore edit command.
	<code>-b, --block-size string</code>		Block size. One of [4K 8K] (default "8K")
	<code>-i, --id string</code>		ID of the datastore

Option	Required or Optional	Description
-n, --name string		New name of the datastore
-s, --size int		Size of the datastore
-u, --unit string		Unit. One of [tb gb]

Table 28: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli datastore edit` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli datastore info Command

Displays detailed information about the name of the datastore, mount summary, status, size, and free space for the specified datastore.

**datastore info {flags}**

Syntax Description	Option	Required or Optional	Description
	-h, --help		Displays help for datastore info command.
	-i, --id string		ID of the datastore
	-n, --name string		New name of the datastore
	-o, --output string		Output format. One of: [json yaml wide] (default "wide")

Table 29: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli datastore info` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli datastore list Command

Lists the storage cluster datastores. Displays detailed information about the mount summary, status, size, and free space for the datastores.

**datastore list {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for datastore list command.
	<b>--no-header</b>		When using the default or custom-column output format, do not print headers (default print headers).
	<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

*Table 30: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli datastore list` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli datastore mount Command

Mounts the specified storage cluster datastore.

**datastore mount {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for datastore mount command.
	<b>-i, --id string</b>		ID of the datastore
	<b>-n, --name string</b>		New name of the datastore

*Table 31: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli datastore mount` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli datastore unmount Command

Unmounts the specified storage cluster datastore.

`datastore unmount {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for datastore unmount command.
	<code>-i, --id string</code>		ID of the datastore
	<code>-n, --name string</code>		New name of the datastore

Table 32: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli datastore unmount` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli disk Commands

### hxcli disk Command

Displays the list of commands available in the disks namespace.

`hxcli disk {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for disk commands.

Table 33: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines**

Example: Accompany the `hxcli disk` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli disk list Command

Lists the storage cluster disks in the node. Displays detailed information about the name of the disk, type, status, slot, capacity and usage for the disks.

`hxcli disk list {flags}`

**Syntax Description**

Option	Required or Optional	Description
<code>-h, --help</code>		Displays help for disk list command.
<code>-h, --no-header</code>		When using the default or custom-column output format, do not print headers (default print headers).
<code>-o, --output string</code>		Output format. One of: <code>[json yaml wide]</code> (default "wide")
<code>-s, --sort int</code>		Sorts the list by index. Starts from 0

*Table 34: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default**

Default (or None.)

**Usage Guidelines**

Example: Accompany the `hxcli disk list` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli encryption Commands

### hxcli encryption backup-keys

Performs a keys back-up to safeguard against any corruption and eventually loss of data, after successfully configuring software-encryption on the cluster.



**Note**

It is recommended to backup DEK after HX Software Encryption is enabled and after every Rekey. A previously backed-up DEK cannot be restored after you perform a Rekey on your cluster.

To restore encrypted DEK configuration to the cluster when lost or corrupted from a previously saved back-up, contact TAC.



**Note** After performing the backup, you need to scp/download the file from the node for storage off cluster.

**hxcli encryption backup-keys {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for encryption back-up keys.
	<b>-f, --filename string</b>		Filename path.
		<b>Note</b>	Filename path should start with <code>"/home/admin"</code> .
		<b>Note</b>	It is highly recommended to save the DEK backup file to a secure location outside the HX CVM.

*Table 35: Command History*

HX Release	Modification
5.0(1b)	This command was introduced in Cisco HX Release 5.0(1b).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli encryption backup-keys -f <path to file name>` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli encryption info

Displays configuration status of the software-encryption on the cluster.

**hxcli encryption info {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for encryption info.
	<b>-o, --output string</b>		Output format. One of: <code>[json yaml wide]</code> (default "wide")

*Table 36: Command History*

HX Release	Modification
5.0(1b)	This command was introduced in Cisco HX Release 5.0(1b).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli encryption info` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli encryption support

Indicates whether software-encryption is supported on the cluster.

### hxcli encryption supported

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for encryption info.

*Table 37: Command History*

HX Release	Modification
5.0(1b)	This command was introduced in Cisco HX Release 5.0(1b).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli encryption supported` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli events Commands

### hxcli events Command

Displays the list of commands available in the events namespace.

#### hxcli events {flags}

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for events commands.

*Table 38: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli events` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli events list Command

Displays information related to state changes resulting from user actions and system actions that occur on the HyperFlex storage cluster.

`hxcli events list {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for events list command.
	<code>-t, --eventType string</code>		Event type. One of: [cluster node virtualmachine all] (default "all")
	<code>-l, --limit int</code>		Limit of the number of events (default 10)
	<code>--no-header</code>		When using the default or custom-column output format, don't print headers (default print headers).
	<code>-f, --offset int</code>		Offset of the events
	<code>-r, --order string</code>		Ascending or descending order of events. One of [ASCEND DESCEND] (default "DESCEND")
	<code>-o, --output string</code>		Output format. One of: [json yaml wide] (default "wide")
	<code>-v, --severity string</code>		Event severity. One of: [info warning error critical all] (default "all")

*Table 39: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli events list` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi Commands

### hxcli iscsi Command

Displays the list of commands available in the iSCSI namespace.



**hxcli iscsi [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for iSCSI commands.

*Table 40: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].



**Note** Command line interface for iSCSI is supported only in `hxcli`. There is no planned support for iSCSI in `stcli`.

## hxcli iscsi network Command

Displays detailed configuration information for your iSCSI network.

**hxcli iscsi network [-h] {edit | info}**

Syntax Description	Option	Required or Optional	Description
	<b>edit</b>	Required	Provides means to edit the selected network.
	<b>delete</b>	Required	Provides means to delete the selected network.
	<b>info</b>	Required	Displays detailed information about the selected network.

*Table 41: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi network` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi network info Command

Detailed information about iscsi network configuration.

**hxcli iscsi network info [-h] [--output string]**

Syntax Description	Option	Required or Optional	Description
	<b>-o, --output string</b>	Required	Output format. One of: [json yaml wide]. The default is <b>wide</b> .

Table 42: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi network` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi network create Command

iSCSI network configuration.

**hxcli iscsi network create [-h] [--output string | --payload string | --ucs-host string | --user-name string ]**

Syntax Description	Option	Required or Optional	Description
	<b>-o, --output string</b>		Output format.  Valid values: json, yaml, and wide. The default is wide.
	<b>-p, --payload string</b>		Payload for create Network.
	<b>-n, --ucs-host string</b>		UCS Manager Host IP or FQDN.
	<b>-u, --user-name string</b>		User name for authentication with UCS.

Table 43: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi network` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi network edit Command

iSCSI network configuration.

**hxcli iscsi network edit [-h] {--output string | --payload string | --ucs-host string | --user-name string }**

*Table 44: Syntax Description*

Option	Required or Optional	Description
<b>-o, --output string</b>		Output format. Valid values: json, yaml, and wide. The default is wide.
<b>-p, --payload string</b>		Payload for create Network.
<b>-n, --ucs-host string</b>		UCS Manager Host IP or FQDN.
<b>-u, --user-name string</b>		User name for authentication with UCS.

*Table 45: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi network` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi network delete Command

iSCSI network configuration.

**hxcli iscsi network delete [-h] {--output string | --payload string | --ucs-host string | --user-name string }**

*Table 46: Syntax Description*

Option	Required or Optional	Description
<b>-o, --output string</b>		Output format. Valid values: json, yaml, and wide. The default is wide.
<b>-p, --payload string</b>		Payload for create Network.
<b>-n, --ucs-host string</b>		UCS Manager Host IP or FQDN.

Option	Required or Optional	Description
<b>-u, --user-name string</b>		User name for authentication with UCS.

Table 47: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi network` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi target Command

Displays the list of commands available in the iSCSI Target command.

**hxcli iscsi target [flags]**

### Alias

You can also use the alias "tgt" or "targets" as a shortcut to specify target.

**hxcli iscsi tgt [flags]**

**hxcli iscsi targets [flags]**

### Syntax Description

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for iSCSI Target commands.

Table 48: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi target` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi target info Command

Displays detailed information about the name of the target, authentication method, initiator groups and LUNs.

**hxcli iscsi target info [-h] {--name string | --output string | --targetUuid string }**

Syntax Description	Option	Required or Optional	Description
	<b>-n, --name string</b>		Target name
	<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")
	<b>-t, --targetUuid string</b>		Target ID

*Table 49: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi target` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi target list Command

Lists the iSCSI targets in the cluster. Displays detailed information about the name, IQN, and Auth Method for the targets.

**hxcli iscsi target list [-h] { --limit int | --offset int | --order string | --output string }**

Syntax Description	Option	Required or Optional	Description
	<b>-l, --limit int</b>	Required	Limit of the number of list. The default value is <b>10</b> .
	<b>-f, --offset int</b>	Required	Offset of the list
	<b>-r, --order string</b>	Required	Ascending or descending order of list. One of [ASCEND DESCEND]. The default value is <b>DECEND</b> .
	<b>-o, --output string</b>	Required	Output format. One of: [json yaml wide]. The default value is <b>wide</b>

*Table 50: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi target` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi target create Command

Creates an iSCSI target.

`hxcli iscsi target create [flags]`

### Alias

You can also use the alias `cr` as a shortcut to specify create.

`hxcli iscsi target cr [flags]`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>	Required	Help for create.
	<code>-p, --payload string</code>	Required	Payload for Target.

*Table 51: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi target` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi target edit Command

Provides means to edit the name or authentication of the selected target.

`hxcli iscsi target edit [-h] {--payload string | --targetUuid string}`

Syntax Description	Option	Required or Optional	Description
	<code>-p, --payload string</code>		Target payload
	<code>-t, --targetUuid string</code>		Target ID

*Table 52: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi target` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi target delete Command

Deletes the selected target.

`hxcli iscsi target delete [-h] {--name string | --targetUuid string}`

Syntax Description	Option	Required or Optional	Description
	<code>-n, --name string</code>		Target name
	<code>-t, --targetUuid string</code>		Target ID

*Table 53: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi target` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi initiator-group Command

Displays configuration information for iSCSI Initiator Groups..

`hxcli iscsi initiator-group [-h] {create | delete | edit | info | list }`

### Alias

You can also use the alias `"ig"`, `"igroup"`, or `"igroups"` as a shortcut to specify `initiator-group`.

`hxcli iscsi ig [-h] {create | delete | edit | info | list }`

`hxcli iscsi igroup [-h] {create | delete | edit | info | list }`

`hxcli iscsi igroups [-h] {create | delete | edit | info | list }`

Syntax Description	Option	Required or Optional	Description
	<code>create</code>	Required	Create an iSCSI Initiator Group
	<code>delete</code>	Required	Delete an iSCSI Initiator Group
	<code>edit</code>	Required	Edit data for an iSCSI Initiator Group

Option	Required or Optional	Description
<b>info</b>	Required	Displays information about a specified iSCSI Initiator Group
<b>list</b>	Required	Lists iSCSI Initiator Groups on a network.

Table 54: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi initiator-group` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi initiator-group info Command

Displays detailed information of an initiator group with name and initiator count.

**hxcli iscsi initiator-group info [-h] { --initiator-group-uuid string | --name string | --output string }**

Syntax Description	Option	Required or Optional	Description
	<b>-i, --initiator-group-uuid string</b>	required/optional	ID of the Initiator group
	<b>-n, --name string</b>	required/optional	Initiator group name
	<b>-o, --output string</b>	required/optional	Output format.  Valid values: json, yaml, and wide. The default is wide.

Table 55: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi initiator-group` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi initiator-group list Command

Lists the iSCSI initiator groups in the cluster. Displays detailed information about the name, IQN, and IPs for the initiator groups.



**hxcli iscsi initiator-group list [-h] { --limit int | --offset int | --order string | --output string }**

Syntax Description	Option	Required or Optional	Description
	-l, --limit int		Limit of the number of list The default value is: 10
	-f, --offset int		Offset of the list.
	-r, --order string		Ascending or descending order of list. Valid Values: ASCEND, DESCEND. The default value is: DESCEND
	-o, --output string		Output format. Valid values: json, yaml, and wide. The default is wide.

*Table 56: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi initiator-group` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi initiator-group create Command

Creates an initiator group with name and initiators.

**hxcli iscsi initiator-group create [-h] {--payload string}**

Syntax Description	Option	Required or Optional	Description
	-p, --payload string	Required	Initiator group payload.

*Table 57: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi initiator-group` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi initiator-group edit Command

Provides the ability to edit the name, iqn and IPs of an initiator group.

**hxcli iscsi initiator-group edit [-h] [--initiator-group-uuid string | --payload string]**

Syntax Description	Option	Required or Optional	Description
	<b>-i, --initiator-group-uuid string</b>	required/optional	ID of the Initiator group
	<b>-p, --payload string</b>	required/optional	Payload for Initiator group

Table 58: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi initiator-group` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi initiator-group delete Command

Deletes an initiator group.

**hxcli iscsi initiator-group delete [-h] { --initiator-group-uuid | --name string }**

Syntax Description	Option	Required or Optional	Description
	<b>-i, --initiator-group-uuid string</b>		ID of the Initiator group.
	<b>-n, --name string</b>		Name for the Initiator Group

Table 59: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi initiator-group` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi allowlist Command

Displays the list of commands available in the iSCSI allowlist namespace.

**hxcli iscsi allowlist [flags]**

**Aliases**

You can also use the alias "al" as a shortcut to specify `allowlist`.

**hxcli iscsi al [flags]**

*Table 60: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for iSCSI allowlist commands.

*Table 61: Command History*

Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default**

None.

**Usage Guidelines**

Accompany the `hxcli iscsi allowlist` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

**hxcli iscsi allowlist add Command**

Allows you to add IPs to iSCSI allow list.

**hxcli iscsi allowlist add [flags]**

*Table 62: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for iSCSI allowlist add command.
<b>-p, --ips stringArray</b>		Displays the list of IPs to be allowed
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

*Table 63: Command History*

Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi allowlist add` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi allowlist clear Command

Allows you to clear IPs on the iSCSI allow list.

**hxcli iscsi allowlist clear [flags]**

*Table 64: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for iSCSI allowlist clear command.
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

*Table 65: Command History*

Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi allowlist clear` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi allowlist remove Command

Allows you to remove IPs to iSCSI allow list.

**hxcli iscsi allowlist remove [flags]**

*Table 66: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for iSCSI allowlist remove command.
<b>-p, --ips stringArray</b>		Displays list of the IPs to be removed
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

Table 67: Command History

Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi allowlist remove` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi allowlist show Command

Displays list of IPs on the iSCSI allow list.

**hxcli iscsi allowlist show [flags]**

Table 68: Syntax Description

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for iSCSI allowlist show command.
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

Table 69: Command History

Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi allowlist show` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi lun Command

Displays the configuration information for the iSCSI LUN command.

**hxcli iscsi lun [-h] {clone | create | delete | edit | info | list }**

Syntax Description	Option	Required or Optional	Description
	<b>clone</b>	Required	Clones an existing iSCSI LUN.
	<b>create</b>	Required	Creates a new iSCSI LUN.

Option	Required or Optional	Description
<b>delete</b>	Required	Deletes an existing iSCSI LUN.
<b>edit</b>	Required	Provides means to edit the name or size of the selected LUN.
<b>info</b>	Required	Displays configuration info about an existing iSCSI LUN
<b>list</b>	Required	Lists iSCSI LUNs on the network.

Table 70: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi lun` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi lun info Command

Displays detailed information about the name of the LUN, status, LUN ID, and size, available and used space for the specified LUN.

`hxcli iscsi lun info [-h] { --lunUuid string | --output string | --targetUuid string }`

Syntax Description	Option	Required or Optional	Description
	<b>-l, --lunUuid string</b>		LUN uuid.
	<b>-o, --output string</b>		Output format. Valid values: json, yaml, and wide. The default is wide.
	<b>-t, --targetUuid string</b>		Target uuid.

Table 71: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi lun` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi lun list Command

Displays information about LUNS on the target.

**hxcli iscsi lun list [-h] { --limit int| --offset int | --order string | --output string | --targetUuid string}**

Syntax Description	Option	Required or Optional	Description
	<b>-l, --limit int</b>		Limit of the number of list. The default is 10.
	<b>-f, --offset int</b>		Offset of the list.
	<b>-r, --order string</b>		Ascending or descending order of list. Valid values: ASCEND, DESCEND. The default is DESCEND.
	<b>-o, --output string</b>		Output format. Valid values: json, yaml, and wide. The default is wide.
	<b>-t, --targetUuid string</b>		Target uuid.

*Table 72: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi lun` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi lun create Command

Creates an iSCSI LUN.

**hxcli iscsi lun clone [-h] [--payload string | --targetUuid string]**

Syntax Description	Option	Required or Optional	Description
	<b>-p, --payload string</b>		Payload for the LUN.
	<b>-t, --targetUuid string</b>		Defines the target UUID.

*Table 73: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi lun create` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi lun edit Command

Provides means to edit the name or size of the selected LUN.

`hxcli iscsi lun edit [-h] { --lunUuid string | --output string | --payload string | --targetUuid string }`

Syntax Description	Option	Required or Optional	Description
	<code>-l, --lunUuid string</code>		LUN uuid
	<code>-o, --output string</code>		Output format. Valid values: json, yaml, and wide. The default is wide.
	<code>-p, --payload string</code>		Payload for create LUN.
	<code>-t, --targetUuid string</code>		Target uuid.

Table 74: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi lun` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli iscsi lun delete Command

Deletes the selected LUN.

`hxcli iscsi lun delete [-h] { --lunUuid string | --targetUuid string }`

Syntax Description	Option	Required or Optional	Description
	<code>-l, --lunUuid string</code>		LUN uuid
	<code>-t, --targetUuid string</code>		Target uuid

Table 75: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).



**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi lun` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli iscsi lun clone Command

Use this command to clone iSCSI LUNs.

`hxcli iscsi lun clone [-h] [--payload | --vss-username string]`

Syntax Description	Option	Required or Optional	Description
	<code>-p, --payload string</code>		iSCSI LUNs payload.
	<code>-u, --vss-username string</code>		Username used to authenticate with Volume Shadow copy Service.

*Table 76: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli iscsi lun clone` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli volume Commands

### hxcli volume Command

Displays the list of commands available in the volume namespace.

`hxcli volume [flags]`

*Table 77: Syntax Description*

Option	Required or Optional	Description
<code>-h, --help</code>		Displays help for volume commands.

*Table 78: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli volume` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli volume info Command

Displays detailed information about the name of the datastore, namespace, capacity, target details, datastore id of the specified volume.

**hxcli volume info [flags]**

*Table 79: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for volume info command.
<b>-n, --name string</b>		Displays the Volume name.
<b>-t, --clientid string</b>		Displays the Client ID.
<b>-i, --id string</b>		Displays the Volume ID.
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

*Table 80: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli volume info` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli volume list Command

Lists information about the volume including the volume id, namespace, capacity, target details, datastore id.

**hxcli volume list [flags]**

*Table 81: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for volume list command.

Option	Required or Optional	Description
-o, --output string		Output format. One of: [json yaml wide] (default "wide")

Table 82: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli volume list` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli volume stats Command

Displays volume capacity and space savings.

### hxcli volume stats [flags]

Table 83: Syntax Description

Option	Required or Optional	Description
-h, --help		Displays help for volume stats command.
-t, --clientid string		Displays the Client ID
-i, --id string		Displays the Volume id
-o, --output string		Output format. One of: [json yaml wide] (default "wide")

Table 84: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

### Command default

None.

**Usage Guidelines** Accompany the `hxcli volume stats` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli volume edit Command

Allows you to reconfigure the size of a volume.

**hxcli volume edit [flags]**

*Table 85: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for volume edit command.
<b>-c, --capacity int</b>		Displays the capacity of the datastore in Bytes.
<b>-t, ---clientid string</b>		Displays the Client ID.
<b>-i, --id string</b>		Displays the Volume ID.
<b>-n, --name string</b>		Displays the new name of the volume.
<b>-s, --namespace string</b>		Displays the namespace of the volume.
<b>-r, --serialNo string</b>		Displays the LUN serial number.
<b>-t, --targetName string</b>		Displays the Target Name.
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

*Table 86: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

### Command Default

None.

### Usage Guidelines

Accompany the `hxcli volume edit` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli volume delete Command

Allows you to delete the selected volume.

**hxcli volume delete [flags]**

**Table 87: Syntax Description**

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for volume delete command.
<b>-t, --clientid string</b>		Displays the Client ID.
<b>-i, --id string</b>		Displays the Volume ID.
<b>-n, --name string</b>		Displays the name of the volume.
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

**Table 88: Command History**

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default**

None.

**Usage Guidelines**

Accompany the `hxcli volume delete` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli volume allowlist Command

Allows you to grant access for the IP.

**hxcli volume allowlist [flags]**

**Table 89: Syntax Description**

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for volume allowlist command.

**Table 90: Command History**

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default**

None.

**Usage Guidelines**

Accompany the `hxcli volume allowlist` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli volume allowlist create Command

Allows you to add IPs to allow list to grant access.

**hxcli volume allowlist create [flags]**

*Table 91: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for volume allowlist create command.
<b>-c, --clientid string</b>		Displays the Client ID.
<b>-u, --payload string</b>		Displays the Payload for granting access to IP.
<b>-t, --task string</b>		Allows you to ADD or REMOVE IP from the allow list. The default value is ADD.
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

*Table 92: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli volume allowlist create` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli node Commands

### hxcli node Command

Displays the list of commands available in the node namespace.

**hxcli node {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for node commands.

Table 93: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli node` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli node info Command

Displays detailed information about the specified node in the storage cluster.

`hxcli node info {flags}`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>		Displays help for the node info command.
	<code>-i, --ip string</code>		Node UUID
	<code>-p, --ip-address string</code>		Hypervisor Address
	<code>-n, --name string</code>		Node name
	<code>-o, --output string</code>		Output format. One of: <code>[json yaml wide]</code> (default "wide")

Table 94: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli node info` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli node list Command

Lists the nodes in the storage cluster. Displays detailed information about the name of the node, hypervisor address and status, controller address and status, and the model.

`hxcli node list {flags}`

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for the node list command.
	<b>--no-header</b>		When using the default or custom-column output format, don't print headers (default print headers).
	<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

Table 95: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli node list` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli security Commands

### hxcli security Command

Displays the list of commands available in the security namespace.

`hxcli security {flags}`

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for security commands.

Table 96: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli security` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

### hxcli security password Command

Displays the list of commands available in the security namespace.



**hxcli security password {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>		Displays help for the security password command.

*Table 97: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli security password` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli security password set Command

Sets user password for all the controller VMs in the storage cluster.

**hxcli security password set [-h][--user string][--user diag]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>	Optional	Displays help for the security password set command.
	<b>--user string</b>	Optional	User name (default "root").
	<b>--user diag</b>	Optional	Admin user account with escalated privileges designed for troubleshooting

*Table 98: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).
5.0(2a)	This command was modified. The diag keyword was added.

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli security password set` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

# hxcli services Commands

## hxcli services Command

Displays the list of commands available in the services namespace.

**hxcli services [flags]**

*Table 99: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for services commands.

*Table 100: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli services` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli services asup Command

Displays the list of all ASUP commands.

**hxcli services asup [flags]**

*Table 101: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for ASUP commands.

*Table 102: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli services asup` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli services asup list Command

Displays extended ASUP info - RecipientList (if enabled)

**hxcli services asup list [flags]**

*Table 103: Syntax Description*

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for the ASUP list command.
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

*Table 104: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli services asup list` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli services dns Command

Displays the list of commands available in the DNS namespace.

**hxcli services dns [flags]**

Option	Required or Optional	Description
<b>-h, --help help for dns</b>		Displays help for the services dns command.

*Table 105: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli services dns` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli services dns list Command

Lists the DNS servers available in the storage cluster.

**hxcli services dns list [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>	help for list	Displays help for the services dns list command.
	<b>-o, --output string</b>	Output format. One of: [json yaml wide] (default "wide")	The output format. One of: [json yaml wide] (default "wide").

*Table 106: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli services dns list` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli services dns add Command

Adds servers to the DNS server list.



**Note** Use this command when the cluster is offline.

**hxcli services dns add [<space seperated ip addresses>] [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>	help for add	Displays help for the services dns add command.

*Table 107: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines**

Example: Accompany the `hxcli services dns add` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

**hxcli services dns clear Command**

Use the command to remove one or more, or all DNS servers from the existing list of servers in the DNS server list.



**Note** Use this command when the cluster is offline.

`hxcli services dns clear [flags]`

**Syntax Description**

Option	Required or Optional	Description
<code>-h, --help help for clear</code>		Displays help for the services dns clear command.

*Table 108: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default**

Default (or None.)

**Usage Guidelines**

Example: Accompany the `hxcli services dns clear` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

**hxcli services dns set Command**

Deletes and replaces the existing list of servers in the DNS server list.



**Note** Use this command when the cluster is offline.

`hxcli services dns set [<space seperated ip addresses>] [flags]`

*Table 109: Syntax Description*

Option	Required or Optional	Description
<code>-h, --help help for set</code>		Displays help for services dns set command.

Table 110: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli services dns set` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli services ntp Command

Displays the list of commands available in the NTP namespace.

`hxcli services ntp [flags]`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>	help for ntp	Displays help for the services ntp command.

Table 111: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli services ntp` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## hxcli services ntp list Command

Lists the NTP servers available in the storage cluster.

`hxcli services ntp list [flags]`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help</code>	help for list	Displays help for the services ntp list command.
	<code>-o, --output string</code>	Output format. One of: [json yaml wide] (default "wide")	The output format. One of: [json yaml wide] (default "wide").

Table 112: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli services ntp list` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli services ntp add Command

Adds one or more NTP servers to the list of DNS servers.



**Note** Use this command when the cluster is offline.

**hxcli services ntp add** [`<space separated ip addresses>`] [`flags`]

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help help for add</code>		Displays help for the services ntp add command.

Table 113: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli services ntp add` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli services ntp clear Command

Use the command to remove one or more, or all NTP servers from the existing list of servers in the DNS server list.



**Note** Use this command when the cluster is offline.

**hxcli services ntp clear** [`flags`]

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help help for clear</code>		Displays help for the services ntp clear command.

Table 114: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli services ntp clear` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli services ntp set Command

Deletes and replaces the existing list of servers in the NTP server list.



**Note** Use this command when the cluster is offline.

`hxcli services ntp set [<space seperated ip addresses>] [flags]`

Syntax Description	Option	Required or Optional	Description
	<code>-h, --help help for set</code>		Displays help for the services ntp set command.

Table 115: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli services ntp set` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli services timezone Command

Displays the list of commands available in the TimeZone namespace.

`hxcli services timezone [flags]`

Table 116: Syntax Description

Option	Required or Optional	Description
<code>-h, --help</code>		Displays help for TimeZone commands.



Table 117: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli services timezone` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli services timezone list Command

Displays time zone configured in the system.

**hxcli services timezone list [flags]**

Table 118: Syntax Description

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for the time zone list command.
<b>-o, --output string</b>		Output format. One of: [json yaml wide] (default "wide")

Table 119: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli services timezone list` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli services timezone edit Command

Enables you to set time zone in the system.

**hxcli services timezone edit[flags]**

Table 120: Syntax Description

Option	Required or Optional	Description
<b>-h, --help</b>		Displays help for the set time zone command.

Option	Required or Optional	Description
-t, --timezone string		New time zone value.

Table 121: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** None.

**Usage Guidelines** Accompany the `hxcli services timezone edit` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli tasks Commands

### hxcli tasks Command

Displays the list of commands available in the task namespace.

`hxcli tasks [flags]`

Syntax Description	Option	Required or Optional	Description
	-h, --help help for tasks		Displays help for the tasks command.

Table 122: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli tasks list` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

### hxcli tasks info Command

Displays detailed information related to the tasks completed in the storage cluster.

`hxcli tasks info [flags]`

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help help for info</b>		Displays help for the tasks info command.
	<b>-h, --help help for info</b>		The task ID.
	<b>-h, --help help for info</b>		The output format. One of: [json yaml wide] (default "wide").

Table 123: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli tasks info` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli tasks list Command

Displays detailed information related to the tasks completed in the storage cluster.

**hxcli tasks list [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help help for info</b>		Displays help for the tasks list command.
	<b>-h, --help help for info</b>		The task ID.
	<b>-h, --help help for info</b>		The output format. One of: [json yaml wide] (default "wide").

Table 124: Command History

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `stcli services asup` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli tasks watch Command

View the tasks being executed in the storage cluster.

**hxcli tasks watch [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help help for info</b>		Displays help for the tasks watch command.
	<b>-h, --help help for info</b>		The task ID.
	<b>-h, --help help for info</b>		The output format. One of: [json yaml wide] (default "wide").

*Table 125: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli tasks watch` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

# hxcli vcenter Commands

## hxcli vcenter Command

Displays the list of commands available in the vCenter namespace.

**hxcli vcenter [flags]**

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help help for vcenter</b>		Displays help for the vcenter command.

*Table 126: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli vcenter` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli vcenter info Command

Displays detailed information about the cluster name, vCenter URL, vCenter clustername and ID, and vCenter datacenter name and ID.

**hxcli vcenter info [flags]**

Syntax Description	Option	Required or Optional	Description
	-h, --help	help for info	Displays help for the vcenter info command.
	-o, --output	string	The output format. One of: [json yaml wide] (default "wide").

*Table 127: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `stcli services asup` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## hxcli version Commands

### hxcli version Command

Displays the HX CLI version.

**hxcli version [flags]**

Syntax Description	Option	Required or Optional	Description
	-h, --help	help for version	Displays help for the version command.

*Table 128: Command History*

HX Release	Modification
4.5(1a)	This command was introduced in Cisco HX Release 4.5(1a).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `hxcli version` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].





## CHAPTER 3

# stcli Commands

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**Important** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands](#) instead.

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- [stcli Commands](#), on page 65
- [stcli appliance Commands](#), on page 68
- [stcli cluster Commands](#), on page 73
- [stcli datastore Commands](#), on page 91
- [stcli disk Commands](#), on page 95
- [stcli dp \(data protection\) Commands](#), on page 97
- [stcli license Commands](#), on page 132
- [stcli node Commands](#), on page 136
- [stcli security Commands](#), on page 147
- [stcli services Commands](#), on page 153
- [stcli vm clone and snapshot Commands](#), on page 172

## stcli Commands

### stcli Commands



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**Note** The `stcli` Commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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HX Data Platform Command Line Interface (CLI) commands all begin with **stcli**.

**stcli [-h] {about | services | vm | dp | snapshot-schedule | cluster | appliance | node | disk | datastore | file | security | license }**

Syntax Description	Option	Required or Optional	Description
	<b>about</b>	One of set required.	About controller VM service, the storage manager, <code>stMgr</code> .
	<b>appliance</b>	One of set required.	Commands supported in the storage cluster appliance namespace.
	<b>cluster</b>	One of set required.	Commands supported in the storage cluster namespace.
	<b>datastore</b>	One of set required.	Commands supported in the storage cluster datastore namespace.
	<b>disk</b>	One of set required.	Commands supported in the storage cluster disk namespace.
	<b>file</b>	One of set required.	Commands supported in the storage cluster VM file namespace.
	<b>license</b>	One of set required.	Commands supported in the Smart License namespace.
	<b>node</b>	One of set required.	Commands supported in the storage cluster node namespace. A storage cluster node is comprised of a hypervisor node and the storage controller. The storage cluster node uses the hypervisor ID/IP for identification.
	<b>security</b>	One of set required.	Commands supported in the storage cluster security namespace.
	<b>services</b>	One of set required.	Commands supported in the storage cluster system services namespace.
	<b>snapshot-schedule</b>	One of set required.	Enables / disables snapshot schedules for all the objects in this storage cluster.
	<b>vm</b>	One of set required.	Commands supported in the storage cluster VM namespace.

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

**Usage Guidelines** Accompany the `stcli` command with one of the positional arguments enclosed in `{ }` or optionally, arguments enclosed in `[ ]`.

## stcli about Command



**Note** The `stcli` Commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.



Displays information about the HX controller VM's service, storage manager, `stMgr`. This is the service that manages the controller VM.

### stcli about

#### Command Default

None.

#### Usage Guidelines

Run the `stcli about` command.

```
# stcli about
serviceType: stMgr
instanceUuid:
name: HyperFlex StorageController
locale: English (United States)
serialNumber:
apiVersion: 0.1
modelName: X9DRT
build: 2.0.1a-19584 (master)
displayVersion: 2.0(1a)
fullName: HyperFlex StorageController 2.0.1a
productVersion: 2.0.1a-19584
```

## stcli -help Command



**Note** The `stcli` Commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Help option on all `stcli` commands.

`stcli [COMMAND] [-h]`

#### Syntax Description

Option	Required or Optional	Description
<code>-h, --help</code>	Required	Shows the help message relative to the listed command and exits.

#### Command Default

None.

#### Usage Guidelines

Accompany the `stcli` command with one of the positional commands or arguments and the `--help` option.

# stcli appliance Commands

## stcli appliance Command



**Note** The stcli Commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Appliance operations.

**stcli appliance [-h] {list | discover}**

Syntax Description	Option	Required or Optional	Description
	<b>list</b>	One of set required.	Lists the storage cluster appliances in the storage cluster.
	<b>discover</b>	One of set required.	Discover new storage cluster appliances in the network.

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

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

## stcli appliance list Command



**Note** The stcli Commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Lists the storage cluster appliances in the storage cluster.

**stcli appliance list [-h]**

**Command Default** None.

**Usage Guidelines** Run the `stcli appliance list appliance` command.

This example shows a truncated response:

```
# stcli appliance list
```

```
ps:
```

```
-----
status: green
```

```

name: Power Supply 1 PS1 Status: Power Supply AC lost - Deassert
-----
status: green
name: Power Supply 2: Running/Full Power-Enabled
-----
status: green
name: Power Supply 1: Running/Full Power-Enabled
-----
status: green
name: Power Supply 1 PS1 Status: Predictive failure - Deassert
-----
status: green
name: Power Supply 2 PS2 Status: Failure status - Deassert
-----
status: green
name: Power Supply 2 PS2 Status: Predictive failure - Deassert
-----
status: green
name: Power Supply 2 PS2 Status: Power Supply AC lost - Deassert
-----
status: green
name: Power Supply 1 PS1 Status: Failure status - Deassert
-----

serialNumber:
disks:
  EntityRef(type=10, id='5000c500642d17ad:0000000000000000', name='/dev/sde'):
    status: online
    serialNumber: 9XG4XS2V
    capacity: 931.5G
    slotNumber: 1.1.4
    logicalname: /dev/sde
    modelNumber: ST91000640NS
    entityRef:
      type: pdisk
      id: 5000c500642d17ad:0000000000000000
      name: /dev/sde
    version: SN03
    vendor: Seagate
  EntityRef ...

modelName: X9DRT
pnics:
  EntityRef(type=3, id='00000000-0000-0000-0000-002590d423b2', name='cs-002a'):
    -----
    device: vmnic2
    mac: 90:e2:ba:54:6d:04
    pci: 0000:04:00.0
    speedMb: 10000
    -----
    ...
  EntityRef(type=3, id='00000000-0000-0000-0000-002590d42388', name='cs-002c'):
    -----
    device: vmnic0
    mac: 00:25:90:d4:23:88
    pci: 0000:02:00.0
    speedMb: 1000
    -----
    ...

nodes:
  A:
    state: online

```

```

upgradeState: ok
storfsIp:
  addr: 10.104.48.24
  stService: stctl
  vlanId: 311
  gateway: 10.104.48.1
  subnetMask: 255.255.240.0
  method: static
pNode:
  about:
    serviceType: sysmAgent
    instanceUuid: d8e6ec9a564de28a:9d870ca45456c471
    name:
    locale: en-US
    serialNumber: unset
    apiVersion: 0.0.1
    modelNumber: unset
    build: 2.0.1-release-20569
    displayVersion: 2.0(1a)
    fullName: HyperFlex StorageController-2.0.1a
    productVersion: 2.0.1a-20569
  retired: False
  compression: True
  ip: 10.104.48.24
  disks:
    -----
    blacklistCount: 0
    medium: rotational
    capacity: 931.5G
    state: ready
    version: 0
    entityRef:
      type: disk
      id: 5000c500642e0f8f:0000000000000000
    usage: persistence
    path: /dev/sdd
    lastModifiedTime: 1484715441000
    usedCapacity: 9.2G
    -----
    ...
    -----

  dedup: True
  nsPrimary: True
  dataWriteThruEnabled: True
  state: ready
  bootTime: 0
  master: False
  entityRef:
    type: pnode
    id: d8e6ec9a564de28a:9d870ca45456c471
    name: 10.104.48.24
  version: 0
  lastModifiedTime: 1484715441000
  name: 10.104.48.24
host:
  state: online
  about:
    serviceType: HostAgent
    instanceUuid: 00000000-0000-0000-0000-002590d423b2
    name: VMware ESXi
    locale: English (United States)
    serialNumber: 0123456789
    apiVersion: 6.0

```

```
    modelNumber: X9DRT
    build: 3380124
    fullName: VMware ESXi 6.0.0 build-3380124
    productVersion: 6.0.0

stctlvm:
  name: stCtlVM-0123456789 (2)
  ip: 10.104.48.24
  guestHostname:
  mgmtClusterIp: 10.104.32.32
  storageNetworkIp: 10.104.48.24
  moid: vm-885
  role: storage
  entityRef:
    type: virtmachine
    id: vm-885
    name: stCtlVM-0123456789 (2)
  version: 2.1.1
  passthrough: pci
  guestState: running
  mgmtNetworkIp: 10.104.32.28

name: cs-002a
ip:
  addr: 10.104.32.21
  stService: hypervisor
  vlanId: 0
  gateway: 10.104.32.1
  subnetMask: 255.255.240.0
  method: static
moid: host-879
ipmiSettings:
  addr: 10.104.32.20
  stService: ipmi
  gateway: 10.104.32.1
  subnetMask: 255.255.240.0
  method: dhcp

ioVisor:
  about:
    serviceType: scvmclient
    instanceUuid:
    name: Springpath I/O Visor
    locale:
    serialNumber:
    apiVersion:
    modelNumber:
    build:
    fullName: Springpath I/O Visor
    productVersion: 2.0.1a-20569
    state: offline

bootTime: 0
entityRef:
  type: node
  id: 00000000-0000-0000-0000-002590d423b2
  name: cs-002a
vMotionIp:
  addr: 10.104.48.20
  vlanId: 311
  gateway: 10.104.32.1
  subnetMask: 255.255.240.0
  method: static
enclosureSerialNumber:
```

```

entityRef:
  type: node
  id: 00000000-0000-0000-0000-002590d423b2
  name: cs-002a
progress:
-----
  completion: 100
  parent:
    type: node
    id: 00000000-0000-0000-0000-002590d423b2
    name: 10.104.48.24
  name: Disk Prepare /dev/sdb
  state: succeeded
  entity:
    type: disk
    id: 55cd2e404b6d511e:0000000000000000
  description: Ignored solid state drive /dev/sdb
-----
  ...
-----
upgradeVersion: 2.0.1a-20569
C:
  state: online
  upgradeState: ok
  storfsIp:
    addr: 10.104.48.27
    stService: stctl
    vlanId: 311
    gateway: 10.104.48.1
    subnetMask: 255.255.240.0
    method: static
  pNode: ...

```

## stcli appliance discover Command



**Note** The stcli Commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Discover new storage cluster appliances in the network. If none are found, only the time spent searching is returned.

### stcli appliance discover [-h]

**Command Default** None.

**Usage Guidelines** Run the `stcli appliance discover` command.

# stcli cluster Commands

## stcli cluster Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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
	<b>create</b>	One of set required.	Creates a storage cluster with the name and the given nodes identified by IP addresses.
	<b>create-config</b>	One of set required.	Creates a storage cluster from a configuration file.
	<b>diag</b>	One of set required.	Provides diagnostic messages about the storage cluster.
	<b>disable-data-write-thru</b>	One of set required.	Disables data write through on the storage cluster.
	<b>enable-data-write-thru</b>	One of set required.	Enables data write through on the storage cluster.
	<b>get-cluster-access-policy</b>	One of set required.	Gets storage cluster Cluster Access Policy.
	<b>get-data-replication-factor</b>	One of set required.	Gets storage cluster Data Replication Factor.
	<b>info</b>	One of set required.	Provides information about the currently configured storage cluster.
	<b>prepare</b>	One of set required.	Prepares network configuration for storage cluster for the set of nodes identified by IP addresses.
	<b>recreate</b>	One of set required.	Recreates an existing storage cluster with force option.

Option	Required or Optional	Description
<b>refresh</b>	One of set required.	Refreshes storage cluster status.
<b>reregister</b>	One of set required.	Reregister an existing storage cluster from one vCenter to another.
<b>set-cluster-access-policy</b>	One of set required.	Sets storage cluster Cluster Access Policy.
<b>shutdown</b>	One of set required.	Shuts down storage cluster.
<b>start</b>	One of set required.	Starts the storage cluster
<b>storage-summary</b>	One of set required.	Provides storage summary about the currently configured storage cluster.
<b>upgrade</b>	One of set required.	Upgrades the storage cluster
<b>upgrade-kernel</b>	One of set required.	Provides transitional information about storage cluster upgrade kernel.
<b>upgrade-status</b>	One of set required.	Provides transitional information about storage cluster upgrade status.
<b>version</b>	One of set required.	Provides information about storage cluster version.
<b>get-zone</b>	One of set required	Gets the zone details. This option is used to check if the zone is enabled.
<b>set-zone</b>	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 [ ].

## stcli cluster prepare Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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





**Note** The **stcli cluster prepare** command is only supported when the cluster is not yet deployed. Use the automated workflow for a running cluster.



**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 STMPSERVER]
[--fromaddress FROMADDRESS] [--dryrun]
```

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

Option	Required or Optional	Description
<code>--timezone TIMEZONE</code>	Optional.	Timezone.
<code>--vlan VLAN</code>	Optional.	VLAN tag.
<code>--vlan1 VLAN1</code>	Optional.	VLAN tag1.
<code>--vmotion-ips VMOTIONIPS [VMOTIONIPS . . .]</code>	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 without TAC assistance.

## stcli cluster create Command



**Note** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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-sso-url
VCENTERSSOURL] [--vcenter-user VCENTERUSER] --node-ips NODEIPS [NODEIPS . . .]
[--data-zk-ip DATAZKIP] --data-replication-factor {2 | 3} [--cluster-access-policy {strict | lenient}]
[--zone {0 | 1}] [--vdi-only-deployment] [--clusterType {0,1,2}] [-f] [--dryrun] [--esx-username
ESXUSERNAME] [--deploymentMode {0,1}] [--managedBy {0,1}]
```

*Table 129: Syntax Description*

Option	Required or Optional	Description
<code>--ip IP</code>	Required	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command.
<code>--mgmt-ip MGMTIP</code>	Required	IP of storage cluster management server.
<code>--name NAME</code>	Required	Name of storage cluster.

Option	Required or Optional	Description
<b>--node-ips</b> NODEIPS [NODEIPS . . .]	Required	IPs of all converged nodes to add to storage cluster.
<b>--vcenter-user</b> VCENTERUSER	Optional	User name of vCenter administrator.  Enter vCenter administrator password when prompted.
<b>--cluster-access-policy</b> {strict, lenient}	Optional. Default lenient	Cluster Access Policy (strict or lenient).
<b>[--data-zk-ip</b> DATAZKIP]	Optional	IP of Data ZK server
<b>--data-replication-factor</b> {2, 3}	Optional. Default 3	Data Replication Factor (2 or 3). This can only be set during initial storage cluster creation.
<b>--dryrun</b>	Optional	Only validate input parameters.
<b>--esx-username</b> ESXUSERNAME	Optional	User name of ESX administrator.  Enter ESX administrator password when prompted.
<b>-f, --force</b>	Optional	Force create storage cluster. This ignores network configuration errors and creates the cluster with provided information.
<b>--vcenter-cluster</b> VCENTERCLUSTER	Optional	Name of vCenter cluster.
<b>--vcenter-sso-url</b> VCENTERSSOURL	Optional	URL of vCenter SSO server. This is inferred from <code>--vcenter-url</code> , if not specified.
<b>--vcenter-url</b> VCENTERURL	Optional	URL of vCenter, <vcentername>. Where <vcentername> can be FQDN or IP.
<b>--vdi-only-deployment</b>	Optional. Default is VSI.	Set Workload Type as VDI.
<b>--clusterType</b> {0,1,2}	Optional	0: Default cluster, 1: Stretch cluster, 2: Two Node Edge Cluster
<b>-zone</b> {0,1}	Optional	Enable (1) or Disable (0) zones.
<b>--deploymentMode</b> {0,1}	Optional	0: EDGE, 1: FI
<b>--managedBy</b> {0,1}	Optional	0: HX CONNECT, 1: INTERSIGHT
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 info Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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
	<b>--summary</b>	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.



**Note** When vCenter or stMgr is down, the error message from stcli data protection operations may not be self-explanatory. Please validate that the vCenter connection is good and that the “stcli cluster info” command returns cluster healthy status before running stcli data protection operations.

```
# 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 diag Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Provides diagnostic messages about the cluster.

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

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



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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 shutdown Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Stops storage cluster operations and shuts it down.

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

Syntax Description	Option	Required or Optional	Description
	--formatchange	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



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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 upgrade Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Upgrades HX Data Platform software to the latest version.



**Important** 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, mgmt-only, hypervisor}
	--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 <code>/tmp</code> on the controller VM. <ul style="list-style-type: none"> <li>• Download the upgrade package to your computer.</li> <li>• Upload it (using <code>scp</code> or a similar tool) to the controller VM of the appliance on which you run the upgrade command.</li> </ul>
	--hypervisor-bundle HYPERVISOR-BUNDLE	Optional	Location of the ESXi offline bundle. Best case use <code>/tmp</code> on the controller VM. <ul style="list-style-type: none"> <li>• Download the upgrade package to your computer.</li> <li>• Upload it (using <code>scp</code> or a similar tool) to the controller VM of the appliance on which you run the upgrade command.</li> </ul>
	--status	Optional	Check for upgrade status.



Option	Required or Optional	Description
--ucsfw-version UCSFW-VERSION	Optional	UCS Server Firmware target version.
--ucsm5-fw-version UCSM5-FW-VERSION	Optional	UCS Server Firmware target version for M5 servers.
--ucsm6-fw-version UCSM6-FW-VERSION	Optional	UCS Server Firmware target version for M6 servers.
--ucsm-host UCSMHOST	Optional	Hostname or IP of UCS Manager server.
--ucsm-user UCSMUSER	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-status Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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 upgrade-kernel Command



**Note** This command is not supported. .

## stcli cluster version Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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 create-config Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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 130: Syntax Description

Option	Required or Optional	Description
<b>config</b>	Required	Configuration storage cluster file.
<b>--dryrun</b>	Optional	Only validate input parameters.
<b>--esx-username ESXUSERNAME</b>	Optional	User name of ESX administrator. Enter ESX administrator password when prompted.
<b>-f, --force</b>	Optional	Force create storage cluster. This ignores network configuration errors and creates the cluster with provided information.
<b>--vcenter-user VCENTERUSER</b>	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 recreate Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Recreates an existing storage cluster with force option.



**Important** When prompted, type and enter the password.

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

Syntax Description	Option	Required or Optional	Description
	<b>--vcenter-user VCENTERUSER</b>	Required	User name of vCenter administrator. Enter vCenter administrator password when prompted.

Option	Required or Optional	Description
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 reregister Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.



**Caution** The re-registration process should be performed exclusively via Cisco HyperFlex Connect. For more information, see [Re-registering Hyperflex Cluster to a New vCenter via HX Connect in 4.5+ Releases](#). Using the stcli reregister command causes the password scanning process to fail.

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



**Note**

- vCenter must be up and running to complete this command.
- When prompted, type and enter the password.

```
stcli cluster reregister [-h] --vcenter-datacenter NEWDATACENTER --vcenter-cluster
NEWVCENTERCLUSTER --vcenter-url NEWVCENTERURLIP [--vcenter-ssso-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-ssso-url NEWVCENTERSSOURL	Optional	URL of the new vCenter SSO server. This is inferred from --vcenter-url, if not specified.
	--vcenter-url NEWVCENTERURLIP	Required	URL of the new vCenter, <vcentername>. Where <vcentername> can be IP or FQDN of new vCenter.

Option	Required or Optional	Description
--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 get-data-replication-factor Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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 get-cluster-access-policy Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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 set-cluster-access-policy Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Sets storage cluster Cluster Access Policy.

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

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

**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 enable-data-write-thru Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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
	<b>--id ID</b>	Optional.	ID of storage cluster node. The ID is listed in the <code>stcli cluster info</code> command.
	<b>--ip NAME</b>	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 disable-data-write-thru Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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
	<b>--id ID</b>	Optional.	ID of storage cluster node. The ID is listed in the <code>stcli cluster info</code> command.
	<b>--ip NAME</b>	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 storage-summary Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Provides storage summary about the currently configured the storage cluster.

**stcli cluster storage-summary [-h] [--uncached]**

Syntax Description	Option	Required or Optional	Description
	--uncached	Optional.	Provides storage summary about the currently configured storage cluster.

**Command Default** No additional options available.

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

```
# stcli cluster storage-summary --uncached

admin:~$ stcli cluster storage-summary --uncached
address: 10.104.17.158
name: ucs305_12_cl
state: online
uptime: 6 days 0 hours 39 minutes 16 seconds
activeNodes: 4 of 5
compressionSavings: 81.16%
deduplicationSavings: 0.0%
freeCapacity: 8.3T
healingInfo:
  messages:
    Auto healing in progress, 53% completed.
  inProgress: True
  percentComplete: 53
  estimatedCompletionTimeInSeconds: 24
resiliencyInfo:
  messages:
    Storage cluster is unhealthy.
  state: 2
  nodeFailuresTolerable: 1
  cachingDeviceFailuresTolerable: 2
  persistentDeviceFailuresTolerable: 1
  zoneResInfoList: None
spaceStatus: normal
totalCapacity: 8.4T
totalSavings: 81.16%
usedCapacity: 82.3G
zkHealth: online
clusterAccessPolicy: lenient
dataReplicationCompliance: non_compliant
dataReplicationFactor: 3
```

## stcli cluster get-zone Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

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)
```



**Warning** Support for the stcli rebalance command is limited to Cisco Tech support only. General use is not supported.

## stcli datastore Commands

### stcli datastore Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Operations for storage cluster datastores.

**stcli datastore [-h] {list | create | info | update | delete | mount | unmount}**

### Syntax Description

Option	Required or Optional	Description
<b>create</b>	One of set required.	Creates a storage cluster datastore with the name and size.
<b>delete</b>	One of set required.	Deletes a storage cluster datastore.
<b>info</b>	One of set required.	Provides information about the specified storage cluster datastore.

Option	Required or Optional	Description
<b>list</b>	One of set required.	Lists the storage cluster datastores.
<b>mount</b>	One of set required.	Mounts a storage cluster datastore.
<b>unmount</b>	One of set required.	Unmounts a storage cluster datastore.
<b>update</b>	One of set required.	Updates a storage cluster datastore's name and/or size.

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

**Usage Guidelines** Accompany the `stcli datastore` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli datastore list Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Lists the storage cluster datastores.

**stcli datastore list [-h]**

**Command Default** No available options.

**Usage Guidelines** Run the `stcli datastore list` command or add the optional argument enclosed in `[ ]`.

## stcli datastore create Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Creates a storage cluster datastore with the provided name and size.

**stcli datastore create [-h] --name NAME --size SIZE [--unit {kb | mb | gb | tb}] [--blocksize {8k,4k}]**

Syntax Description	Option	Required or Optional	Description
	<b>--blocksize</b>	Optional.	Block size for stored data. Default 8K for all datastores. In VDI workloads, 4K is default.
	<b>--name NAME</b>	Required.	Name of storage cluster datastore.
	<b>--size SIZE</b>	Required.	Size of storage cluster datastore.

Option	Required or Optional	Description
<code>--unit {kb,mb,gb,tb}</code>	Optional.	Unit for size. Default GB.

**Command Default** ID or NAME must be specified. Default unit of measure is GB. Default blocksize is 8K.

**Usage Guidelines** Accompany the `stcli datastore create` command with both of the required parameters, and the optional parameter, if needed.

## stcli datastore info Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Provides information about the specified storage cluster datastore.

`stcli datastore info [-h] [--id ID | --name NAME]`

Syntax Description	Option	Required or Optional	Description
	<code>--id ID</code>	One of set required.	ID of datastore.
	<code>--name NAME</code>	One of set required.	Name of datastore.

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

**Usage Guidelines** Accompany the `stcli datastore info` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## stcli datastore update Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Updates a storage cluster datastore's name and/or size.

`stcli datastore update [-h] [--id ID | --name NAME] [--newname NEWNAME] [--size SIZE] [--unit {kb | mb | gb | tb}]`

Syntax Description	Option	Required or Optional	Description
	<code>--id ID</code>	One of set required.	ID of datastore.
	<code>--name NAME</code>	One of set required.	Name of datastore.

Option	Required or Optional	Description
<b>--name</b> NAME	Optional.	New name of storage cluster datastore.
<b>--size</b> SIZE	Optional.	New size of storage cluster datastore.
<b>--unit</b> {kb,mb,gb,tb}	Optional.	Unit for size. Default GB.

**Command Default** None. One option from the set is required. Default unit is GB.

**Usage Guidelines** Accompany the `stcli datastore update` command with the required parameters, and any of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## stcli datastore delete Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Deletes a storage cluster datastore.

**stcli datastore delete [-h] {--id ID | --name NAME}**

Syntax Description	Option	Required or Optional	Description
	<b>--id</b> ID	One of set required.	ID of datastore.
	<b>--name</b> NAME	One of set required.	Name of the datastore.

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

**Usage Guidelines** Accompany the `stcli datastore delete` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## stcli datastore mount Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Mounts a storage cluster datastore.

**stcli datastore [-h] {--id ID | --name NAME}**

Syntax Description	Option	Required or Optional	Description
	<b>--id</b> ID	One of set required.	ID of datastore.

Option	Required or Optional	Description
<b>--name NAME</b>	One of set required.	Name of datastore.

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

**Usage Guidelines** Accompany the `stcli datastore mount` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli datastore unmount Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Unmounts a storage cluster datastore.

```
stcli datastore unmount [-h] {--id ID | --name NAME}
```

Syntax Description	Option	Required or Optional	Description
	<b>--id ID</b>	One of set required.	ID of datastore.
	<b>--name NAME</b>	One of set required.	Name of datastore.

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

**Usage Guidelines** Accompany the `stcli datastore unmount` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli disk Commands

### stcli disk Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Operations on the storage cluster disks.

```
stcli disk [-h] {list | add}
```

Syntax Description	Option	Required or Optional	Description
	<b>add</b>	One of set required.	Adds discovered new disks and specified blacklisted disks to the storage cluster.
	<b>list</b>	One of set required.	Lists the storage cluster disks in the node.
<b>Command Default</b>	None. One option from the set is required.		
<b>Usage Guidelines</b>	Accompany the <code>stcli disk</code> command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].		

## stcli disk list Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Lists the storage cluster disks in the node.

**stcli disk list [-h] [--id ID | --name NAME] [--rescan]**

Syntax Description	Option	Required or Optional	Description
	<b>--id ID</b>	One of set required.	ID of storage cluster node. The ID is listed in the <code>stcli cluster info</code> command. <code>local</code> defaults to the local node.
	<b>--ip NAME</b>	One of set required.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command. <code>localhost</code> defaults to the local node.
	<b>--rescan</b>	Optional.	Rescan disks.
<b>Command Default</b>	None. One option from the set is required. Defaults for the options are: <code>local</code> for <i>ID</i> and <code>localhost</code> for <i>NAME</i> .		
<b>Usage Guidelines</b>	Accompany the <code>stcli disk list</code> command with one of the positional arguments or optional arguments enclosed in [ ].		



**Note** Sometimes when a disk is removed, it continues to be listed in cluster summary information. To refresh this, restart the HX cluster.

## stcli disk add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Adds discovered new disks and specified blacklisted disks to the storage cluster.

```
stcli disk add [-h] [--id ID | --name NAME] --blacklisted-disk-ids [DISKIDS [DISKIDS . . .]]
```

Syntax Description	Option	Required or Optional	Description
	<b>--id ID</b>	One of set required.	ID of storage cluster node.
	<b>--name NAME</b>	One of set required.	Name of storage cluster node.
	<b>--blacklisted-disk-ids [DISKIDS [DISKIDS . . .]]</b>	Required.	Blacklisted disks to add to storage cluster. Separate multiple IDs with a space.

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

**Usage Guidelines** Accompany the `stcli disk add` command with one of the positional arguments enclosed in { } plus required `--blacklisted-disk-ids` option, or optional arguments enclosed in [ ].

## stcli dp (data protection) Commands

### stcli dp Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Data protection (DP) commands for replication and disaster recovery.

```
stcli dp [-h] (vm | group | peer | schedule)
```

Syntax Description	Option	Required or Optional	Description
	<b>group</b>	One of set required.	Data protection group snapshot operations.
	<b>peer</b>	One of set required.	Site replication pairing operations.
	<b>schedule</b>	One of set required.	Pause and resume replication, cluster wide for the sending cluster.

Option	Required or Optional	Description
<b>vm</b>	One of set required.	VM data protection with replication snapshot operations.

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

**Usage Guidelines** Accompany the `stcli dp` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

HX Data Platform disaster recovery and native replication commands applied to virtual machines individually and not through the protection group.

**stcli dp vm [-h] {snapshot | add | list | info | delete | movein | moveout | schedule | prepareReverseProtect | reverseProtect | failover | testfailover | prepareFailover | migrate | hxtask}**

Syntax Description	Option	Required or Optional	Description
	<b>snapshot</b>	Unsupported	Beginning with HX Release 3.5(2g), the support for snapshot command was limited to Cisco Technical support only. General use is not supported.
	<b>add</b>	One of set required.	Add data protection to a virtual machine.
	<b>list</b>	One of set required.	List virtual machines under data protection.
	<b>info</b>	One of set required.	Display information about virtual machines under data protection.
	<b>delete</b>	One of set required.	Delete data protection from a virtual machine.
	<b>movein</b>	One of set required.	Move in data protection virtual machines to a protection group.
	<b>moveout</b>	One of set required.	Move out data protection virtual machines from a protection group.
	<b>schedule</b>	One of set required.	Schedule data protection for a virtual machine.
	<b>prepareReverseProtect</b>	One of set required.	Prepare reverse protection actions for the given virtual machine.
	<b>reverseProtect</b>	One of set required.	Perform reverse protection actions for the given virtual machine.



Option	Required or Optional	Description
<b>failover</b>	One of set required.	Failover the individual virtual machines from the recovery HX Storage Cluster.
<b>testfailover</b>	One of set required.	Test recovery of individual virtual machines from the recovery HX Storage Cluster.
<b>prepareFailover</b>	One of set required.	Prepare failover action for the given virtual machine.
<b>migrate</b>	One of set required.	Migrate the given virtual machine.
<b>hxtask</b>	One of set required.	Data protection related operations.

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

**Usage Guidelines** Accompany the `stcli dp vm` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm snapshot Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Data protection virtual machine replication snapshot operations.



**Note** This command and its subcommands are not supported.

**stcli dp vm snapshot [-h] {create | replicate | list | info | delete}**

Syntax Description	Option	Required or Optional	Description
	<b>create</b>	One of set required.	Creates a replication snapshot for a virtual machine.
	<b>replicate</b>	One of set required.	Replicates a replication snapshot for a virtual machine.
	<b>list</b>	One of set required.	List replication snapshots available on this cluster.
	<b>info</b>	One of set required.	Show info for a replication snapshot.
	<b>delete</b>	One of set required.	Delete the specified replication snapshot.

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

**Usage Guidelines** Accompany the `stcli dp vm snapshot` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

### stcli dp vm snapshot create Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Creates a replication snapshot for a virtual machine.

**stcli dp vm snapshot create [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --snapname SNAPSHOTNAME [--desc DESCRIPTION] [--quiesce] [--offline]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<b>--snapname SNAPSHOTNAME</b>	Required.	Name of the replication snapshot.
	<b>--desc DESCRIPTION</b>	Optional.	Description of the replication snapshot.
	<b>--quiesce</b>	Optional.	Whether to use VMware Tools to quiesce the VMs before replication. VMware Tools must be installed in all the VMs in the replication group.
	<b>--Offline</b>	Optional	Take offline snapshot.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm snapshot create` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

### stcli dp vm snapshot replicate Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Replicates a snapshot of a virtual machine to a remote cluster.

**stcli dp vm snapshot replicate [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --snapshot-id SNAPSHOT-ID --outgoing OUTGOING**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.

Option	Required or Optional	Description
<b>--vmidtype</b> <b>{VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
<b>--snapshot-id</b> <b>SNAPSHOTID</b>	Required.	Snapshot ID of the VM to replicate.
<b>--outgoing</b> <b>OUTGOING</b>	Required.	ID of the outgoing/target cluster where data is replicated to.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm snapshot replicate` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

### stcli dp vm snapshot list Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

List replication snapshots available on this cluster.

**stcli dp vm snapshot list [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid</b> <b>VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype</b> <b>{VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm snapshot list` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

### stcli dp vm snapshot info Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Show details of the VM snapshot.

**stcli dp vm snapshot info [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --snapshot-id SNAPSHOTID**

## stcli dp vm snapshot delete Command

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<b>--snapshot-id SNAPSHOTID</b>	Required.	Snapshot ID of the VM.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm snapshot info` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp vm snapshot delete Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Delete the specified snapshot.

**stcli dp vm snapshot delete [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --snapshot-id SNAPSHOTID**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<b>--snapshot-id SNAPSHOTID</b>	Required.	Snapshot ID of the VM to be deleted.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm snapshot delete` command with the required arguments with leading two dashes (--), one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp vm add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Add data protection on a virtual machine.

Command syntax for Cisco HyperFlex Release 5.0(2a) and earlier.

**stcli dp vm add [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). For vCenter, specify the unique VMBIOSUUID of the virtual machine.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.  ID ype of the virtual machine (vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.

**Command Default** None.

**Usage Guidelines** This command is only supported in Cisco HyperFlex Release 5.0(2a) and earlier.  
Accompany the `stcli dp vm add` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp vm list Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

List virtual machines with data protection. Display includes replication schedule.

**stcli dp vm list [-h] [--vmname VMNAME] [--vmid VMID] [--brief]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmname VMNAME</b>	Optional.	Lists the protected virtual machine that matches the specified name.
	<b>--vmid VMID</b>	Optional.	Run command on the virtual machine that matches the specified internal original VM ID used to track the VM through its entire life cycle (also referred to as the BIOS UUID).
	<b>--brief</b>	Optional.	Display brief summary only.

**Command Default** Default lists all protected virtual machines.

**Usage Guidelines**

Accompany the `stcli dp vm list` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

This example shows a summary list of protected virtual machines.

```
# stcli dp vm list --brief

vmInfo:
-----
name: dslvm-2
uuid: 423f11c4-20c9-893b-0dd8-2a0ad59ad634
-----
name: dslvm-1
uuid: 423f1d85-990a-4e06-ebef-a215c0ec4cf8
-----
```

**stcli dp vm info Command**

**Note** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

List the data protection virtual machine information.

```
stcli dp vm info [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]
```

Syntax Description	Option	Required or Optional	Description
	<code>--vmid VMID</code>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.
	<code>--vmidtype {VMBIOSUUID}</code>	Optional.	Run the command on the virtual machine that matches the specified ID type.  ID type of the virtual machine (vcmoid, vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.

**Command Default**

None.

**Usage Guidelines**

Accompany the `stcli dp vm info` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm delete Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Delete data protection from a virtual machine.

**stcli dp vm delete [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.  ID type of the virtual machine (vmbiosuuid). For vCenter, specify the unique virtual machine VMBIOSUUID.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm delete` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp vm movein Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Move in data protection virtual machines to a protection group.

**stcli dp vm movein [-h] --vmids VMIDS [VMIDS ...] --groupid GROUPID**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.

Option	Required or Optional	Description
<b>--groupid GROUPID</b>	Optional.	ID of the group to which you want to move in the standalone virtual machine.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm movein` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm moveout Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Move out data protection virtual machine to a protection group.

**stcli dp vm moveout [-h] (--vmids VMIDS [VMIDS ...] | --allVMs) --groupid GROUPID**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--allVMs</b>	Optional.	Move out all virtual machines from a group.
	<b>--groupid GROUPID</b>	Optional.	ID of the group from which you want to move out the standalone virtual machine.

**Command Default** None.

**Usage Guidelines**

- Accompany the `stcli dp vm moveout` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.
- `allVMs` can only be performed on a secondary. `allVMs` moves all the VMs out of the group and prepares them for **Recovery**. Use this option only if you plan to perform recovery on all VMs of the group. The `allVMs` option is deprecated and will be removed in a future release.

## stcli dp vm schedule Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.



HyperFlex data protection VM schedule operations.

**stcli dp vm schedule [-h] {set,get}**

Syntax Description	Option	Required or Optional	Description
	<b>--set</b>	Required one of set.	Set VM schedule operations.
	<b>--get</b>	Required one of set.	Get VM schedule.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm schedule` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

**stcli dp vm schedule get Command**



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Get the VM replication schedule information.

**stcli dp vm schedule get [-h] --vmid VMID [--vmidtype {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm schedule get` command with the required arguments with leading two dashes (`--`), or optionally, the arguments enclosed in `[ ]`.

**stcli dp vm schedule set Command**



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Set the VM replication schedule.

**stcli dp vm schedule set [-h] --vmid VMID [--vmidtype {VMBIOSUUID}] --replication-interval REPLICATIONINTERVALINMINUTES [--start-time REPLICATIONSTARTTIME] [--quiesce-using-tools] [--outgoing OUTGOING]**

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	Run the command on the virtual machine that matches the specified ID type.
	<b>--replication-interval REPLICATIONINTERVALMINUTES</b>	Required.	Replication interval in minutes
	<b>--start-time REPLICATIONSTARTTIME</b>	Optional	Replication start time in the format: mm/dd/yy_HH_MM.
	<b>--quiesce-using-tools</b>	Optional	Whether to use VMware Tools to quiesce the VMs before replication. VMware Tools must be installed in all the VMs in the replication group.
	<b>--outgoing OUTGOING</b>	Optional	ID of the outgoing/target cluster where data is replicated to.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm schedule set` command with the required arguments with leading two dashes (--), or optionally, the arguments enclosed in [ ].

## stcli dp vm prepareReverseProtect Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Prepare reverse protection actions for the given virtual machine.

```
stcli dp vm prepareReverseProtect [-h] --vmid VMID [--force]
```

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--force</b>	Optional.	Perform force reverse protect preparation without validating the arguments.

**Command Default** None.

**Usage Guidelines**

Accompany the `stcli dp vm prepareReverseProtect` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

**stcli dp vm failover Command**

To failover the individual virtual machines from the recovery HX Storage Cluster. Where the recovery HX Storage Cluster is the target cluster for the replication pair protecting the virtual machines.

This command outputs the JOB-ID that is used for monitoring by the status command.

```
stcli dp vm failover [-h] --vmid VMID [--resourcepool-id RESOURCEPOOL-ID | --resourcepool-name
RESOURCEPOOL-NAME] [--folder-id FOLDER-ID | --folder-name FOLDER-NAME]
[--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]] [--poweron] [--force]
```

**Syntax Description**

Option	Required or Optional	Description
<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.
<b>--resourcepool-id RESOURCEPOOL-ID</b>	One of optional pair.	Place the recovered VM(s) on the resource pool with the listed ID.
<b>--resourcepool-name RESOURCEPOOL-NAME</b>	One of optional pair.	Place the recovered VM(s) on the resource pool with the listed name.
<b>--folder-id FOLDER-ID</b>	One of optional pair.	Place the recovered VM(s) in the folder with the listed ID.
<b>--folder-name FOLDER-NAME</b>	One of optional pair.	Place the recovered VM(s) in the folder with the listed name.
<b>--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]</b>	Optional.	Map the source to destination network. Format <code>source_network:destination_network</code> . For example:  <pre>--network-mapping "source_network1:destination_network1", "source_network2:destination_network2"</pre>
<b>--poweron</b>	Optional.	Power on the VM after recovery
<b>--force</b>	Optional.	Do not validate the arguments and perform recovery

**Command Default**

Location defaults to command execution path.

**Usage Guidelines**

Accompany the `stcli dp vm failover` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

**stcli dp vm testfailover Command**

To test recovery of individual virtual machines from the recovery HX Storage Cluster. Where the recovery HX Storage Cluster is the target cluster for the replication pair protecting the virtual machines.

This command outputs the JOB-ID that is used for monitoring by the status command.

```
stcli dp vm testfailover [-h] --vmid VMID [--resourcepool-id RESOURCEPOOL-ID | --resourcepool-name
RESOURCEPOOL-NAME] [--folder-id FOLDER-ID | --folder-name FOLDER-NAME] [--test-network
TESTNETWORK] [--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]] [--poweron]
[--force] [--newname NEWNAME]
```

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Lists the virtual machine that matches the specified BIOS UUID.
	<b>--resourcepool-id RESOURCEPOOL-ID</b>	One of optional pair.	Place the recovered VM(s) on the resource pool with the listed ID.
	<b>--resourcepool-name RESOURCEPOOL-NAME</b>	One of optional pair.	Place the recovered VM(s) on the resource pool with the listed name.
	<b>--folder-id FOLDER-ID</b>	One of optional pair.	Place the recovered VM(s) in the folder with the listed ID.
	<b>--folder-name FOLDER-NAME</b>	One of optional pair.	Place the recovered VM(s) in the folder with the listed name.
	<b>--test-network TESTNETWORK</b>	Optional.	Test network to be used for test recovery. All source networks are assigned to this network after recovery.
	<b>--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]</b>	Optional.	Map the source to destination network. Format <code>source_network:destination_network</code> . For example:  <pre>--network-mapping "source_network1:destination_network1","source_network2:destination_network2"</pre>
	<b>--poweron</b>	Optional.	Power on the VM after recovery.
	<b>--force</b>	Optional.	Perform recovery without validating the arguments.
	<b>--newname NEWNAME</b>	Optional.	New name for the test recovered VM.

**Command Default** By default test recovery recovers the VM with the same name in the `HxTestRecovery` folder.

**Usage Guidelines** Accompany the `stcli dp vm testfailover` command with the required arguments with leading two dashes (--), or optionally, the arguments enclosed in [ ].

## stcli dp vm prepareFailover Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Prepare failover action for the given virtual machine.

```
stcli dp vm prepareFailover [-h] --vmid VMID [--force]
```

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--force</b>	Optional.	Perform force reverse failover preparation without validating the arguments.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm prepareFailover` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp vm migrate Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Migrate the given virtual machine.

```
stcli dp vm migrate [-h] --vmid VMID [--resourcepool-id RESOURCEPOOL-ID | --resourcepool-name RESOURCEPOOL-NAME] [--folder-id FOLDER-ID | --folder-name FOLDER-NAME] [--network-mapping NETWORKMAPPING [NETWORKMAPPING ...]] [--poweron]
```

Syntax Description	Option	Required or Optional	Description
	<b>--vmid VMID</b>	Required.	Run command on the virtual machine that matches the specified BIOS UUID.  ID of the virtual machine (vmbiosuuid). If using vCenter, specify the unique virtual machine VMBIOSUUID.
	<b>--resourcepool-id RESOURCEPOOL-ID</b>	Optional.	ID of the resource pool on which the recovered virtual machines have to be placed.
	<b>--resourcepool-name RESOURCEPOOL-NAME</b>	Optional.	Name of the resource pool on which the recovered virtual machines have to be placed.
	<b>--folder-id FOLDER-ID</b>	Optional.	ID of the folder on which the recovered virtual machines have to be placed.
	<b>--folder-name FOLDER-NAME</b>	Optional.	Name of the folder on which the recovered virtual machines have to be placed.

Option	Required or Optional	Description
<b>--network-mapping</b> <b>NETWORKMAPPING</b> [ <b>NETWORKMAPPING</b> ...]	Optional.	Source to destination network map, in the format: "Source Network": "Destination Network".
<b>--poweron</b>	Optional.	Power on the virtual machine after recovery.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp vm migrate` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp vm hxtask Command



**Note** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Data protection related operations.

**stcli dp vm hxtask [-h] [--vmid VMID] [--id ID] [--name NAME][--state {new,starting,running,suspended,shutting\_down,completed,terminated,cancelled,exception,stalled}]**

Syntax Description	Option	Required or Optional	Description
	<b>- vmid VMID</b>	Required	ID of the virtual machine to add to the protection group.
	<b>--id ID</b>	Optional	ID of the virtual machine.
	<b>--name NAME</b>	Optional.	Reference name assigned to the replication network.
			<p><b>Note</b> The <code>hx</code> task commands start with lower case, but the filtering of <code>--name</code> will start with uppercase. For example use <code>- TestFailover</code> instead of <code>testFailover</code>.</p> <p>The name to be filtered are on:</p> <ul style="list-style-type: none"> <li>TestFailover</li> <li>Failover</li> <li>PrepareReverseProtect</li> <li>PrepareFailover</li> <li>ReverseProtect</li> <li>Migrate</li> </ul>

Option	Required or Optional	Description
<code>--state</code>	Optional.	State of the replication process: new starting running suspended shutting_down completed terminated canceled exception stalled

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

**Usage Guidelines** Accompany the `stcli dp vm hxtask` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in [ ].

## stcli dp group Commands



**Note** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

HX Data Platform disaster recovery and native replication commands applied to virtual machine protection groups and not to individual virtual machines.

`stcli dp group [-h] {add | list | delete | vm | snapshot | schedule}`

Syntax Description	Option	Required or Optional	Description
	<code>add</code>	One of set required.	Add data protection group.
	<code>list</code>	One of set required.	List of data protection groups.
	<code>delete</code>	One of set required.	Delete data protection group.
	<code>vm</code>	One of set required.	VM tasks in a data protection group.
	<code>snapshot</code>	One of set required.	Snapshot operations in a data protection group. This command is not supported.
	<code>schedule</code>	One of set required.	Schedule replication for a data protection group.

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

**Usage Guidelines** Accompany the `stcli dp group` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.



**Note** Beginning with HX Release 3.5(2g), support for the `<command name>` command was limited to Cisco Tech support only. General use is not supported.

## stcli dp group add Command



**Note** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Add data protection group.

Command syntax for Cisco HyperFlex Release 5.0(2a) and earlier.

**stcli dp group add [-h] --groupname GROUPNAME**

Syntax Description	Option	Required or Optional	Description
	<code>--groupname GROUPNAME</code>	Required.	Name of the protection group.

**Command Default** None.

**Usage Guidelines** This command is only supported in Cisco HyperFlex Release 5.0(2a) and earlier. Accompany the `stcli dp group add` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in `[ ]`.

## stcli dp group list Command



**Note** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

List data protection group configuration and schedule.

**stcli dp group list [-h] [--groupname GROUPNAME] [--groupid GROUPID]**

Syntax Description	Option	Required or Optional	Description
	<code>--groupname GROUPNAME</code>	Optional.	List the protection group with given group name.



Option	Required or Optional	Description
<b>--groupid GROUPID</b>	Optional.	List the protection group with given ID.
<b>--brief</b>	Optional.	Display brief summary only.

**Command Default**

List all data protection groups.

**Usage Guidelines**

Accompany the `stcli dp group list` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

This example shows a list of data protection groups.

```
# stcli dp group list
clusterEr:
  type: cluster
  id: 21038104951568023:6930626691413900957
  name: source17-2.5.1a
vmGroupState: active
vmGroupEr:
  type: dp_vmgroup
  id: 4de5d40f-82d6-40f6-9425-e4942bdd9be9
  name: group1
members:
-----
  idtype: 2
  type: dp_vm
  id: 423f38fd-9754-a25c-0d60-1ddacacaac60
-----
  idtype: 2
  type: dp_vm
  id: 423fc732-4841-3a0a-8d75-6c7bdcf8de67
-----
schedules:
  replicationSchedule:
    targetClusterEr:
      type: cluster
      id: 1279191129902762643:7329250794747596775
      name: target17-2.5.1a
    enabled: True
    mode: 2
    startTime: 07/19/17_20:24
    intervalInMinutes: 15
```

**stcli dp group delete Command**



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Delete the specified data protection group.

**stcli dp group delete [-h] --groupid GROUPID**

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the protection group. To delete a protection group, all virtual machines must be removed.
<b>Command Default</b>	None.		
<b>Usage Guidelines</b>	Accompany the <code>stcli dp group delete</code> command with the required arguments with leading two dashes (--), or optionally, the arguments enclosed in [ ].		

## stcli dp group vm Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Hyperflex data protection group VM operations.

**stcli dp group vm [-h] {add | list | delete}**

Syntax Description	Option	Required or Optional	Description
	<b>add</b>	One of set required.	Add VM to data protection group.
	<b>list</b>	One of set required.	List VMs in data protection group.
	<b>delete</b>	One of set required.	Delete VM from data protection group.

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

**Usage Guidelines** Accompany the `stcli dp group vm` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp group vm add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Add a VM to a data protection group.

**stcli dp group vm add [-h] --groupid GROUPID --vmid VMID [--vmidtpe {VMBIOSUUID}]**

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the data protection group where the VMs reside.
	<b>--vmid VMID</b>	Required.	ID of the virtual machine to add to the protection group.
	<b>--vmidtype {VMBIOSUUID}</b>	Optional.	ID type for the virtual machine to add to the protection group. The VCMOID option is not supported.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp group vm add` command with optionally, the arguments enclosed in [ ].

### stcli dp group vm list Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

List the VMs included in the data protection group.

**stcli dp group vm list [-h] --groupid GROUPID**

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the data protection group where the VMs reside.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp group vm list` command with optionally, the arguments enclosed in [ ].

### stcli dp group schedule Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Hyperflex protection group schedule operations.

**stcli dp group schedule [-h] {set | get}**

Syntax Description	Option	Required or Optional	Description
	<b>set</b>	One of set required.	Set the replication schedule for a data protection group.
	<b>get</b>	One of set required.	Get the replication schedule for a data protection group.

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

**Usage Guidelines** Accompany the `stcli dp group schedule` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

## stcli dp group schedule get Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

List the replication schedule information for a data protection group.

```
stcli dp group schedule get [-h] --groupid GROUPID [--outgoing OUTGOING]
```

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the data protection group where the VMs reside.
	<b>--outgoing OUTGOING</b>	Optional.	ID of the outgoing/target cluster where data is replicated to.

**Command Default** Outgoing cluster is the paired remote cluster.

**Usage Guidelines** Accompany the `stcli dp group schedule get` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

## stcli dp group schedule set Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Set the replication schedule for a data protection group.

```
stcli dp group schedule set [-h] --groupid GROUPID --replication-interval REPINTERVALINMINS
[--start-time REPSTARTTIME] [--quiesce-using-tools] [--outgoing OUTGOING]
```

Syntax Description	Option	Required or Optional	Description
	<b>--groupid GROUPID</b>	Required.	ID of the data protection group where the VMs reside.
	<b>--replication-interval REPINTERVALINMINS</b>	Required.	Replication interval (frequency) in minutes. This sets how often the VMs are replicated to the target cluster.
	<b>--start-time REPSTARTTIME</b>	Optional.	Replication start time in format <code>mm/dd/yy_HH_MM</code> . Specifies when the first replication begins.
	<b>--quiesce-using-tools</b>	Optional.	Whether to use VMware Tools to quiesce the VMs before replication. VMware Tools must be installed in all the VMs in the replication group.
	<b>--outgoing OUTGOING</b>	Optional.	ID of the outgoing/target cluster where data is replicated to.
<b>Command Default</b>	Start time is immediately upon execution of the command. Quiesce is not set. Outgoing cluster is the paired remote cluster.		
<b>Usage Guidelines</b>	Accompany the <code>stcli dp group schedule set</code> command with one of the positional arguments enclosed in <code>{ }</code> or optionally, the arguments enclosed in <code>[ ]</code> .		

## stcli dp peer Commands



**Note** The stcli ommands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Hyperflex data protection operations on the remote (peer) cluster in a replication pair.

`stcli dp peer [-h] {get | add | list | query | edit | datastore | delete | forget | schedule}`

Syntax Description	Option	Required or Optional	Description
	<b>get</b>	One of set required.	Get peer cluster details.
	<b>add</b>	One of set required.	Add a pair using given inputs.
	<b>list</b>	One of set required.	Show all pairs.
	<b>query</b>	One of set required.	Query a pair to get pair-details.
	<b>edit</b>	One of set required.	Edit pair description for peer management IP.
	<b>datastore</b>	One of set required.	Edit mapped datastores in existing pair.
	<b>delete</b>	One of set required.	Delete a replication pair.

Option	Required or Optional	Description
<b>forget</b>	One of set required.	Forget peer using given inputs.
<b>schedule</b>	One of set required.	Peer schedule operations.

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

**Usage Guidelines** Accompany the `stcli dp peer` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp peer get Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

List the peer cluster details.



**Note** Please enter password when prompted.

**stcli dp peer get [-h] --mgmtIp MGMTIP --username USERNAME**

Syntax Description	Option	Required or Optional	Description
	<b>--mgmtIp MGMTIP</b>	Required.	Peer cluster's management IP.
	<b>--username USERNAME</b>	Required.	Peer cluster's user name.
			Enter peer cluster's user password when prompted.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer get` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp peer add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Add a replication pair using given inputs.



**Attention** Please enter password when prompted.



**Note** This command does not invoke and verify the Test Remote Replication Network similar to the verification process that gets done automatically while configuring replication pair in HX Connect.

```
stcli dp peer add [-h] --name NAME --description DESCRIPTION --mgmtIp MGMTIP --username USERNAME
```

Syntax Description	Option	Required or Optional	Description
	<code>--name NAME</code>	Required.	Name of cluster-pair.
	<code>--description DESCRIPTION</code>	Required.	Description of cluster-pair.
	<code>--mgmtIp MGMTIP</code>	Required.	Peer cluster's management IP.
	<code>--username USERNAME</code>	Required.	Peer cluster's user name. Enter peer cluster's password when prompted.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer add` command with the required arguments with leading two dashes (`--`) or optionally, the arguments enclosed in [ ].

## stcli dp peer list Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Show all replication pairs.

```
stcli dp peer list [-h]
```

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer list` command with optionally, the arguments enclosed in [ ].

## stcli dp peer query Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Query a replication pair for pair details.

**stcli dp peer query [-h] --name NAME**

Syntax Description	Option	Required or Optional	Description
	<b>--name NAME</b>	Required.	Name of cluster replication pair.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer query` command with optionally, the arguments enclosed in [ ].

## stcli dp peer edit Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Edit pair description or peer mgmtIp



**Note** This command is not supported.

**stcli dp peer edit [-h] --name NAME [--description DESCRIPTION] [--mgmtIp MGMTIP] --username USERNAME --password PASSWORD**

Syntax Description	Option	Required or Optional	Description
	<b>--name NAME</b>	Required.	Name of cluster-pair
	<b>--description DESCRIPTION</b>	Required	Description of cluster-pair
	<b>--mgmtIp MGMTIP</b>	Required	Peer cluster's management Ip
	<b>--username USERNAME</b>	Required	Peer cluster's user name
			Enter peer cluster's user password when prompted.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer edit` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].



## stcli dp peer datastore Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Edit mapped datastores in existing replication pair.



**Note** This command does not invoke and verify the Test Remote Replication Network similar to the verification process that gets done automatically while editing the pair in HX Connect.

**stcli dp peer datastore [-h] {edit | add | delete | editSchedule | editstatus | forget | }**

Syntax Description	Option	Required or Optional	Description
	<b>edit</b>	One of set required.	Edit mapped datastores in existing pair.
	<b>add</b>	One of set required.	Add a datastore mapping in existing cluster pair
	<b>delete</b>	One of set required.	Delete a datastore mapping in existing cluster pair
	<b>editSchedule</b>	One of set required.	Edit schedule of a datastore mapping in existing cluster pair.
	<b>editstatus</b>	One of set required.	Status of datastore edit job.
	<b>forget</b>	One of set required.	Forget datastore pair edit-in-progress; Forget datastore pairs

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

**Usage Guidelines** Accompany the `stcli dp peer datastore` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

### stcli dp peer datastore add Command

The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Add mapped datastores in existing replication pair.

**stcli dp peer datastore add [-h] --name NAME --localDs LOCALDS --peerDs PEERDS [--storageOnly] [--replication-interval REPLICATIONINTERVALINMINUTES] [--backupOnly] [--quiesce] [--fallbackToCrashConsistent]**

Syntax Description	Option	Required or Optional	Description
	<b>-h</b>	Optional.	Displays help message.
	<b>--name NAME</b>	Required.	Name of cluster-pair.
	<b>--localDs LOCALDS</b>	Required.	Local cluster's datastore name.
	<b>--peerDs PEERDS</b>	Required.	Peet cluster's datastore name.
	<b>--storageOnly</b>	Required.	SRM or an external DR orchestrator will manage the input datastore pair.
	<b>--replication-interval REPLICATIONINTERVALINMINUTES</b>	Required.	Replication interval in minutes.
	<b>--backupOnly</b>	Required.	The input datastore pair will be used for Backup only.
	<b>--quiesce</b>	Required.	When backupOnly is set, this flag specifies whether quiesce is preferred.
	<b>--fallbackToCrashConsistent</b>	Required.	When backupOnly and quiesce are set, and VM tools check fails, this flag specifies whether fallback to Crash Consistent snapshot is preferred.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer datastore add` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp peer datastore edit Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Edit mapped datastores in existing replication pair.

```
stcli dp peer datastore edit [-h] --name NAME --datastore DATASTORE [--storageOnly]
[--replication-interval REPLICATIONINTERVALINMINUTES] [--backupOnly] [--quiesce]
[-fallbackToCrashConsistent]
```

Syntax Description	Option	Required or Optional	Description
	<b>--name NAME</b>	Required.	Name of cluster-pair.

Option	Required or Optional	Description
<b>--datastore DATASTORE</b>	Required.	Datastore pairs with operations. Format is:  local_ds:remote_ds:OPERATION  Operation choices are: ADD, DELETE.
<b>--storageOnly</b>	Required.	SRM or an external DR orchestrator will manage the input datastore pair.
<b>--replication-interval REPLICATIONINTERVALINMINUTES</b>	Required.	Replication interval in minutes.
<b>--backupOnly</b>	Required.	The input datastore pair will be used for Backup only.
<b>--quiesce</b>	Required.	When backupOnly is set, this flag specifies whether quiesce is preferred.
<b>--fallbackToCrashConsistent</b>	Required.	When backupOnly and quiesce are set, and VM tools check fails, this flag specifies whether fallback to Crash Consistent snapshot is preferred.

**Command Default**

None.

**Usage Guidelines**

Accompany the `stcli dp peer datastore edit` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

This example shows changing the datastores associated with the replication pair.

```
# stcli dp peer datastore edit
<local ds 1>:<peer ds 1>:ADD,<local ds 2>:<peer ds 2>:DELETE,..
```

**stcli dp peer datastore delete Command**

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Delete a datastore mapping in an existing replication pair.

```
stcli dp peer datastore delete [-h] --name NAME --localDs LOCALDS --peerDs PEERDS [--storageOnly]
[--replication-interval REPLICATIONINTERVALINMINUTES] [--backupOnly] [--quiesce]
[--fallbackToCrashConsistent]
```

Syntax Description	Option	Required or Optional	Description
	<b>-h</b>	Optional.	Displays help message.
	<b>--name NAME</b>	Required.	Name of cluster-pair.
	<b>--localDs LOCALDS</b>	Required.	Local cluster's datastore name.
	<b>--peerDs PEERDS</b>	Required.	Peer cluster's datastore name.
	<b>--storageOnly</b>	Required.	SRM or an external DR orchestrator will manage the input datastore pair.
	<b>--replication-interval REPLICATIONINTERVALINMINUTES</b>	Required.	Replication interval in minutes.
	<b>--backupOnly</b>	Required.	The input datastore pair will be used for Backup only.
	<b>--quiesce</b>	Required.	When backupOnly is set, this flag specifies whether quiesce is preferred.
	<b>--fallbackToCrashConsistent</b>	Required.	When backupOnly and quiesce are set, and VM tools check fails, this flag specifies whether fallback to Crash Consistent snapshot is preferred.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer datastore delete` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp peer datastore editSchedule Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Edit schedule of a datastore mapping in an existing replication pair.

```
stcli dp peer datastore editSchedule [-h] --name NAME --localDs LOCALDS --peerDs PEERDS
[--storageOnly] [--replication-interval REPLICATIONINTERVALINMINUTES] [--backupOnly]
[--quiesce] [--fallbackToCrashConsistent]
```

Syntax Description	Option	Required or Optional	Description
	<b>-h</b>	Optional.	Displays help message
	<b>--name NAME</b>	Required.	Name of cluster-pair.

Option	Required or Optional	Description
<b>--localDs LOCALDS</b>	Required.	Local cluster's datastore name
<b>--peerDs PEERDS</b>	Required.	Peer cluster's datastore name
<b>--storageOnly</b>	Required.	SRM or an external DR orchestrator will manage the input datastore pair.
<b>--replication-interval REPLICATIONINTERVALINMINUTES</b>	Required.	Replication interval in minutes.
<b>--backupOnly</b>	Required.	The input datastore pair will be used for Backup only.
<b>--quiesce</b>	Required.	When backupOnly is set, this flag specifies whether quiesce is preferred.
<b>--fallbackToCrashConsistent</b>	Required.	When backupOnly and quiesce are set, and VM tools check fails, this flag specifies whether fallback to Crash Consistent snapshot is preferred.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer datastore editSchedule` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp datastore editstatus Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

View the status of the datastore mapping change for the replication pair.

**stcli dp peer datastore editstatus [-h] [--jobid JOBID]**

Syntax Description	Option	Required or Optional	Description
	<b>--jobid JOBID</b>	Optional.	Job ID for a datastore change task.

**Command Default** Job ID default is all displays status of all datastore edits.

**Usage Guidelines** Accompany the `stcli dp peer datastore editstatus` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

This example shows changing the datastores associated with the replication pair.

```
# stcli dp peer datastore editstatus
[<jobid>,<jobid>...,<jobid>]
```

## stcli dp peer datastore forget Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Forget datastore pair edit-in-progress; Forget datastore pairs.

```
stcli dp peer datastore forget [-h] --name NAME [ --all [editPairOnly]
```

Syntax Description	Option	Required or Optional	Description
	<b>-h</b>	Optional.	Displays help message
	<b>--name NAME</b>	Required.	Name of cluster-pair.
	<b>--all</b>	Required.	Perform this action for all Cluster Pairs.
	<b>--editPairOnly</b>	Required.	If set, only forget datastore pair edits that are in progress, while preserving existing datastore pairing.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer datastore forget` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp schedule Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Data protection schedule operations.

```
stcli dp schedule [-h] {pause | resume | status}
```

Syntax Description	Option	Required or Optional	Description
	<b>pause</b>	One of set required.	Pause replication. Stop sending replication snapshot bits to the remote cluster.

Option	Required or Optional	Description
<b>resume</b>	One of set required.	Resume replication. Resume sending replication snapshot bits to the remote cluster.
<b>status</b>	One of set required.	Query the scheduler state. That is the database state, not the status of scheduled events. It does not imply that the scheduler is full.

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

**Usage Guidelines** Accompany the `stcli dp schedule` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli dp peer delete Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Delete the peer from the replication pair.



**Important** Please enter password when prompted.

**stcli dp peer delete [-h] --name NAME --username USERNAME [--mgmtIp MGMTIP]**

Syntax Description	Option	Required or Optional	Description
	<b>--name NAME</b>	Required.	Name of cluster replication pair.
	<b>--username USERNAME</b>	Required.	Peer cluster's user name. Enter peer cluster's user password when prompted.
	<b>--mgmtIp MGMTIP</b>	Optional.	Peer cluster's management IP.

**Command Default** Management IP is assumed to be the currently associated peer.

**Usage Guidelines** Accompany the `stcli dp peer delete` command with the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].

## stcli dp peer forget Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

This removes the pairing between peers: the source and target clusters. Freeing up each cluster to be paired with a different cluster.

**stcli dp peer forget [-h] [--name NAME] [--all]**

Syntax Description	Option	Required or Optional	Description
	<b>--all</b>	One of set required.	Remove the pairing between peers, for all partially-paired and successfully paired clusters.
	<b>--name NAME</b>	One of set required.	Remove the pairing between peers, (the source and target clusters), for the cluster pair with the listed name.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp peer forget` command the required arguments with leading two dashes (--) or optionally, the arguments enclosed in [ ].



**Note** NR/NFS cleanup time delay—During the VM replication process, the message "Please retry again after outstanding replication jobs are complete", or "DP Peer forget failed: Failed to clean connection cache for peer replication CIP <IP address>. Replication jobs (#) in progress. Please retry again after outstanding replication jobs are complete." may appear indicating that detaching policies may fail. If you receive this message try again after a few minutes as there is a time delay in the NR/NFS cleanup.

## stcli dp schedule Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Data protection schedule operations.

**stcli dp schedule [-h] {pause | resume | status}**

Syntax Description	Option	Required or Optional	Description
	<b>pause</b>	One of set required.	Pause replication. Stop sending replication snapshot bits to the remote cluster.
	<b>resume</b>	One of set required.	Resume replication. Resume sending replication snapshot bits to the remote cluster.
	<b>status</b>	One of set required.	Query the scheduler state. That is the database state, not the status of scheduled events. It does not imply that the scheduler is full.



---

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

---

**Usage Guidelines** Accompany the `stcli dp schedule` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

## stcli dp schedule pause Command



---

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

---

Pause replication. Stop monitoring existing jobs and stop creating new jobs sending replication snapshot bits to the remote cluster.

**stcli dp schedule pause [-h]**

---

**Command Default** None.

---

**Usage Guidelines** Accompany the `stcli dp schedule pause` command optionally, the arguments enclosed in `[ ]`.

## stcli dp schedule resume



---

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

---

Resume replication. Resume monitoring existing jobs and resume creating new jobs sending data replication bits to the remote cluster.

**stcli dp schedule resume [-h]**

---

**Command Default** None.

---

**Usage Guidelines** Accompany the `stcli dp schedule resume` command optionally, the arguments enclosed in `[ ]`.

## stcli dp schedule status



---

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

---

Query the scheduler state. That is the database state, not the status of scheduled events. It does not imply that the scheduler is full.

**stcli dp schedule status [-h]**

---

**Command Default** None.

**Usage Guidelines** Accompany the `stcli dp schedule status` command optionally, the arguments enclosed in [ ].

## stcli drnetwork cleanup Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Remove the DR network.

**stcli drnetwork cleanup [-h]**

**Command Default** None.

**Usage Guidelines** Use the `stcli drnetwork cleanup` command as part of the DR Network cleanup operations.



**Note** The drnetwork cleanup operation is supported when there is no dr pairing or protection configured. For information about cleaning up the configuration, see the [Managing Virtual Machine Disaster Recovery](#) topic for your release.

## stcli license Commands

### stcli license Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Smart Licensing operations.

**stcli license [-h] {register | deregister | show | renew}**

Syntax Description	Option	Required or Optional	Description
	<b>register</b>	One of set required.	Register Smart Licensing with an ID token.
	<b>deregister</b>	One of set required.	Deregister Smart Licensing.
	<b>show</b>	One of set required.	Show Smart Licensing options. Includes summary, unique device identifier (UDI), usage count, technical support details, registration and authorization status, and instance name.
	<b>renew</b>	One of set required.	Renew Smart Licensing operations.

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

**Usage Guidelines** Accompany the `stcli license` command with one of the positional arguments enclosed in `{ }` or optionally, the arguments enclosed in `[ ]`.

## stcli license register Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Register a Smart License with an ID token.

**stcli license register [-h] --idtoken IDTOKEN [--force]**

Syntax Description	Option	Required or Optional	Description
	<code>--idtoken IDTOKEN</code>	Required.	Registration ID token.
	<code>--force</code>	Optional.	Force the registration when the cluster is already registered.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli license register` command with the required arguments with leading two dashes (`--`), or optionally, the arguments enclosed in `[ ]`.

```
# stcli license register--idtoken
zmM2YTVhZjMtZTQxNi00...1LTE0ODg0NzkppYmF...A3OD0%3D%0...8caERE
```

## stcli license deregister Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Deregister Smart Licensing.

**stcli license deregister [-h]**

**Command Default** None.

**Usage Guidelines** Accompany the `stcli license deregister` command with optionally, the arguments enclosed in `[ ]`.

## stcli license reservation install Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Reserve a Smart License with a file path.

**stcli license reservation install [-h]**

### Syntax Description

Option	Required or Optional	Description
<b>--file FILE_PATH</b>	Optional.	Auth code file path.

### Command Default

None.

### Usage Guidelines

Accompany the `stcli license reservation install` command with the required arguments with leading two dashes (--), or optionally, the arguments enclosed in [ ].

```
# stcli license reservation install -h --file FILE_PATH
```

## stcli license show Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Show Smart License information based on option selected.

**stcli license show**

### Syntax Description

Option	Required or Optional	Description
<b>all</b>	Optional.	Show all license information.
<b>auth-status</b>	Optional.	Show Smart Licensing authorization status.
<b>inst-name</b>	Optional.	Show cluster instance name.
<b>reg-status</b>	Optional.	Show Smart Licensing registration status.
<b>status</b>	Optional.	Show Smart Licensing registration, authorization, and license status.
<b>summary</b>	Optional.	Show Smart Licensing summary.
<b>tech-support</b>	Optional.	Show Smart Licensing technical support details.

Option	Required or Optional	Description
<b>udi</b>	Optional.	Show Smart Licensing unique device identifier (UDI).
<b>usage</b>	Optional.	Show Smart Licensing usage count.

**Command Default**

None.

**Usage Guidelines**

Accompany the `stcli license show` command with the required option, no leading dashes (--) required. Optionally, include the arguments enclosed in [ ].

An example when license not registered

```
# stcli license show status

Smart Licensing is ENABLED
Registration: Status: UNREGISTERED
Export-Controlled Functionality: Not Allowed
License Authorization: Status: EVAL MODE
Evaluation Period Remaining: 89 days, 23 hr, 57 min, 3 sec
Last Communication Attempt: NONE
```

An example when license is registered

```
# stcli license show summary

Smart Licensing is ENABLED
Registration:
  Status: REGISTERED
  Smart Account: HyperFlex License Test
  Virtual Account: derek
  Last Renewal Attempt: None
  Next Renewal Attempt: Aug 1 17:47:06 2017 PDT
License Authorization:
  Status: AUTHORIZED
  Last Communication Attempt: SUCCEEDED
  Next Communication Attempt: Mar 4 16:47:11 2017 PST
License Usage:
  License          Count          Entitlement Tag
                                     Status
```

```
Cisco Vendor String XYZ  regid.2016-11.com.cisco.HX-SP-DP-S001,1.0_1c06...d45203
InCompliance
```

## stcli license renew Command



**Note** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Renew Smart Licensing operations.

**stcli license renew [-h] {id | auth}**

Syntax Description	Option	Required or Optional	Description
	<b>auth</b>	One of set required.	Renew Smart Licensing authorization.
	<b>id</b>	One of set required.	Renew registration and registration ID certificate information.

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

**Usage Guidelines** Accompany the `stcli license review` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli node Commands

### stcli node Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Operations performed on the storage cluster nodes.



**Note** Do not perform conflicting actions simultaneously. For example, do not run node add and node remove at the same time: `stcli node add --node-ips NODEIPS remove --id-1 ID1`

**stcli nodes [-h] {discover | list | info | identify | disks | disk | add | remove | maintenanceMode}**

Syntax Description	Option	Required or Optional	Description
	<b>add</b>	One of set required.	Adds the set of nodes to the storage cluster.
	<b>discover</b>	One of set required.	Lists the storage cluster nodes discoverable on the same subnet as this node.
	<b>disk</b>	One of set required.	Locate a physical disk in the node.
	<b>disks</b>	One of set required.	Provides information about the physical disks of the storage cluster node.
	<b>identify</b>	One of set required.	Turns on/off the node beacon to identify a node.
	<b>info</b>	One of set required.	Provides information about the specified storage cluster node.

Option	Required or Optional	Description
<b>list</b>	One of set required.	Lists the storage cluster nodes in the storage cluster.
<b>maintenanceMode</b>	One of set required.	Enter or exit maintenance mode.
<b>remove</b>	One of set required.	Removes the node from the storage cluster.

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

**Usage Guidelines** Accompany the `stcli node` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli node discover Command



**Note** The `stcli` commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Lists the storage cluster nodes discoverable on the same subnet as this node.

**stcli node discover [-h]**

**Command Default** None. No additional parameters.

**Usage Guidelines** Run the `stcli node discover` command on the storage cluster.

```
# stcli node discover

state:
storfsIp:
  addr:
  stService:
  gateway:
  subnetMask:
  method:

host:
  state:
  about:
    serviceType:
    instanceUuid:
    name:
    locale:
    serialNumber:
    apiVersion:
    modelNumber:
    build:
    fullName:
    productVersion:

stctlvm:
  name:
  ip:
  guestHostname:
```

```
storageNetworkIp:
moid:
role:
entityRef:
  type:
  id: v
  name:
version:
passthrough:
guestState:
mgmtNetworkIp:

name:
ip:
  addr:
  stService:
  vlanId:
  gateway:
  subnetMask:
  method:

moid:
ipmiSettings:
  addr:
  stService:
  gateway:
  subnetMask:
  method:

ioVisor:
  about:
    serviceType:
    instanceUuid:
    name:
    locale:
    serialNumber:
    apiVersion:
    modelNumber:
    build:
    fullName:
    productVersion:
  state:

bootTime:
entityRef:
  type:
  id:
  name:
vMotionIp:
  addr:
  vlanId:
  gateway:
  subnetMask:
  method:
enclosureSerialNumber:

entityRef:
  type:
  id:
  name:
progress:
```



# stcli node list Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Lists the nodes in the storage cluster.

**stcli node list [-h] --summary**

Syntax Description	Option	Required or Optional	Description
	<b>--summary</b>	Optional.	Display summary only.

**Command Default** None.

**Usage Guidelines** Run the `stcli node list` command and optionally include arguments enclosed in [ ].

```
# stcli node list
-----
upgradeState:
state:
storfsIp:
  addr:
  stService:
  vlanId:
  gateway:
  subnetMask:
  method:

pNode:
  about:
    serviceType:
    instanceUuid:
    name:
    locale:
    serialNumber:
    apiVersion:
    modelNumber:
    build:
    displayVersion:
    fullName:
    productVersion:

  retired:
  compression:
  ip:
  dedup:
  nsPrimary:
  dataWriteThruEnabled:
  state:
  bootTime:
  master:
  entityRef:
    type:
    id:
```

```
    name:
    version:
    lastModifiedTime:
    name:
host:
  state:
  about:
    serviceType:
    instanceUuid:
    name:
    locale:
    serialNumber:
    apiVersion:
    modelNumber:
    build:
    fullName:
    productVersion:
stctlvm:
  name:
  storageClusterIp:
  ip:
  guestHostname:
  mgmtClusterIp:
  storageNetworkIp:
  moid:
  role:
  entityRef:
    type:
    id:
    name:
  version:
  passthrough:
  guestState:
  mgmtNetworkIp:
name:
ip:
  addr:
  stService:
  vlanId:
  gateway:
  subnetMask:
  method:
moid:
ipmiSettings:
  addr:
  stService:
  gateway:
  subnetMask:
  method:
iovisor:
  about:
    serviceType:
    instanceUuid:
    name:
    locale:
    serialNumber:
    apiVersion:
    modelNumber:
    build:
    fullName:
```

```

        productVersion:
        state:

bootTime:
entityRef:
  type:
  id:
  name:
vMotionIp:
  addr:
  vlanId:
  gateway:
  subnetMask:
  method:
enclosureSerialNumber:

entityRef:
  type:
  id:
  name:
upgradeVersion:
-----

```

## stcli node info Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Provides information about the specified storage cluster node.

**stcli node info** [-h] {--id ID | --ip NAME} [--summary]

Syntax Description	Option	Required or Optional	Description
	<b>--id ID</b>	One of set required.	A unique ID number for the storage cluster node. The ID is listed in the <code>stcli cluster info</code> command under the <code>stNode</code> field <code>id</code> .
	<b>--ip NAME</b>	One of set required.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command under the <code>stNode</code> field <code>name</code> .  The <code>--ip</code> option is currently not supported.
	<b>--summary</b>	Optional.	Display summary only.

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

**Usage Guidelines** Accompany the `stcli node info` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## stcli node identify Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Turns on/off the node beacon to identify a node.



**Important** Please enter password when prompted.

**stcli node identify [-h] --ipmiIp IPMIIP [--interval INTERVAL] [--user USER]**

Syntax Description	Option	Required or Optional	Description
	--ipmiIp IPMIIP	Required	Ipmi IP address.
	--interval INTERVAL	Optional	Number of seconds to turn the beacon on. If not specified, turns the beacon off.
	---user USER	Optional	The IPMI admin user name. Enter IPMI admin password when prompted.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli node identify` command with the required arguments with leading two dashes (--), and optionally, one or more of the positional arguments enclosed in [ ].

## stcli node disks Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Provides information about the physical disks of the storage cluster node.

**stcli node disks [-h] [--id ID | --ip NAME]**

Syntax Description	Option	Required or Optional	Description
	--id ID	One of set required.	A unique ID number for the storage cluster node. The ID is listed in the <code>stcli cluster info</code> command under the <code>stNode</code> field <code>id</code> .

Option	Required or Optional	Description
<b>--ip NAME</b>	One of set required.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command under the <code>stNode field name</code> .

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

**Usage Guidelines** Accompany the `stcli node disks` command with one of the positional arguments enclosed in `{ }`.

## stcli node disk Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Locate a physical disk in the node.

**stcli node disk [-h] {--id ID | --ip NAME} [--lighton | lightoff]**

Syntax Description	Option	Required or Optional	Description
	<b>--id ID</b>	One of set required.	A unique ID number for the storage cluster node. The ID is listed in the <code>stcli cluster info</code> command under the <code>stNode field id</code> .
	<b>--ip NAME</b>	One of set required.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command under the <code>stNode field name</code> .
	<b>--lighton</b>	Optional.	Turn the ID light on the disk on.
	<b>--lightoff</b>	Optional.	Turn the ID light on the disk off.

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

**Usage Guidelines** Accompany the `stcli node disk` command with one of the positional arguments enclosed in `{ }`, and optionally arguments enclosed in `[ ]`.

## stcli node add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Adds the specified nodes to the storage cluster.



- Note**
- Please enter password when prompted.
  - Only use the `stcli node add` command when the storage cluster is online and healthy.
  - Do not perform conflicting actions simultaneously. For example, do not run `node add` and `node remove` at the same time: `stcli node add --node-ips NODEIPS remove --id-1 ID1`

For standard cluster or edge cluster:

**stcli node add [-h] --node-ips NODEIPS [NODEIPS . . .] [--esx-username ESXUSERNAME] [--dryrun]**

For stretched cluster:

**stcli node add [-h] --node-ips NODEIPS [NODEIPS . . .]:<Site Name> [--esx-username ESXUSERNAME] [--dryrun]**

Syntax Description	Option	Required or Optional	Description
	<b>--node-ips</b> NODEIPS [NODEIPS . . .]	Required	ESXi management/vmk0 IP addresses of the nodes to be add to the storage cluster.
	<b>--dryrun</b>	Optional	Only validate input parameters.
	<b>Site Name</b>	Required for stretched cluster	Site name of the node.
	<b>--esx-username</b> ESCUSERNAME	Optional	User name of ESX administrator. Enter ESX 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. Node identification is required.

**Usage Guidelines** Accompany the `stcli node add` command with the `--node-ips` and optionally, the arguments enclosed in [ ].



**Note** When you add a new node to a storage cluster, if the storage cluster is in an Out of Space condition, the system automatically rebalances the storage cluster. Otherwise, it schedules a nightly rebalance.

## stcli node remove Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

**IMPORTANT:** Use the `stcli node remove` command to permanently remove a node from the cluster. Do not run the `stcli node remove` command if you intend to add the same node back into the same cluster later. Adding a node back into a cluster that it was already part of is not supported.



**Note** For HX 4.5(1a) and later, you can only remove 1 converged node.



**Note** Do not perform conflicting actions simultaneously. For example, do not run node add and node remove at the same time: `stcli node add --node-ips NODEIPS remove --id-1 ID1`



**Warning** Prior to removing a node or nodes for HyperFlex clusters with Logical Availability Zones (LAZ) configured, LAZ must be disabled.

If LAZ is utilized in the HyperFlex cluster, then the number of remaining nodes must be in a balanced configuration that supports LAZ per the [LAZ Guidelines and Considerations](#) prior to reenabling LAZ.

`stcli node remove [-h] [--id-1 ID1 | --ip-1 NAME1] [-f]`

*Table 131: Syntax Description*

Option	Required or Optional	Description
<code>--id-1 ID1</code>	One of set required.	A unique ID number for the storage cluster node. The ID is listed in the <code>stcli cluster info</code> command under the <code>stNode</code> field <code>id</code> .
<code>--ip-1 NAME1</code>	One of set required.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command under the <code>stNode</code> field <code>name</code> .
<code>-f, --force</code>	Optional.	Forcibly remove storage cluster nodes.

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

**Usage Guidelines** Accompany the `stcli node remove` command with one of the positional arguments enclosed in { }, or optional arguments enclosed in [ ].

- Before you remove a node from a storage cluster, ensure that DRS is enabled. DRS migrates only powered-on VMs.
- For ESXi nodes, you must first put the node in Maintenance Mode before performing a node remove.
- For cluster sizes less than 5, please schedule a maintenance window and shut down the cluster before performing a node removal.
- If your network has powered-off VMs, you must manually migrate them to the storage cluster. Otherwise, they are inaccessible after you remove the node.
- If DRS is not enabled, manually migrate the VMs.
- Removing a node requires that the storage cluster is healthy and that removing the node will not reduce the number of available nodes below the minimum 3 nodes which would make the storage cluster unhealthy.

## stcli node maintenanceMode Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Puts the ESX server in the storage cluster into HX maintenance mode.

**stcli node maintenanceMode [-h] [--id ID | ip NAME] --mode MODE {enter | exit} [--timeout TIMEOUT]**

Syntax Description	Option	Required or Optional	Description
	<b>--id ID</b>	One of set required.	A unique ID number for the storage cluster node. The ID is listed in the <code>stcli cluster info</code> command under the <code>stNode</code> field <code>id</code> .
	<b>--ip NAME</b>	One of set required.	IP address of storage cluster node. The IP is listed in the <code>stcli cluster info</code> command under the <code>stNode</code> field <code>name</code> .
	<b>--mode MODE</b>	Required	Mode to set <code>enter</code> or <code>exit</code> HX maintenance mode.
	<b>--timeout TIMEOUT</b>	Optional.	Set timeout in seconds for HX maintenance mode.

**Command Default** None. One option from the set is required and the `--mode` type

**Usage Guidelines** Accompany the `stcli node maintenanceMode` command with one of the positional arguments enclosed in `{ }` and the `--mode` type, plus optionally arguments enclosed in `[ ]`.



# stcli security Commands

## stcli security Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Security related operations.

**stcli security [-h] {password | whitelist | ssh | encryption}**

Syntax Description	Option	Required or Optional	Description
	<b>password</b>	One of set required.	Commands supported in the Storage security password manipulation namespace.
	<b>ssh</b>	One of set required.	Commands supported in the Storage security ssh namespace.
	<b>whitelist</b>	One of set required.	Commands supported in the Storage security ip whitelist namespace.
	<b>encryption</b>	One of set required.	Commands supported in the Storage security encryption namespace.

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

**Usage Guidelines** Accompany the `stcli security` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## stcli security encryption Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Encryption management operations.

**stcli security encryption [-h] {ucsm-ro-user}**

Syntax Description	Option	Required or Optional	Description
	ucsm-ro-user	Required.	Commands supported in the security encryption UCSM RO user namespace.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli security encryption` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli security encryption ucsm-ro-user Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Encryption UCSM read only (RO) user operations.

`stcli security encryption ucsm-ro-user [-h] {show | create | delete}`

Syntax Description	Option	Required or Optional	Description
	create	Required one of set.	Create UCSM RO user.
	delete	Required one of set.	Delete UCSM RO user.
	show	Required one of set.	Show UCSM RO user credentials.

**Command Default** None.

**Usage Guidelines** Accompany the `stcli security encryption ucsm-ro-user` command with one of the positional arguments enclosed in { } or optionally, the arguments enclosed in [ ].

## stcli security encryption ucsm-ro-user create Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Encryption UCSM read only (RO) user create operations.



**Important** Please enter password when prompted.

`stcli security encryption ucsm-ro-user create [-h] --hostname HOSTNAME [--username USERNAME]`

Syntax Description	Option	Required or Optional	Description
	--hostname HOSTNAME	Required.	UCSM host name.

Option	Required or Optional	Description
--username USERNAME	Optional.	UCSM user name.
		<b>Note</b> The UCSM user used to create the RO user should be the local UCSM user, and not an LDAP or AD user.
		Enter UCSM admin level password when prompted.

**Command Default** Username default is `admin`.

**Usage Guidelines** Accompany the `stcli security encryption ucsm-ro-user create` command with the required arguments with leading two dashes (--), and optionally, the arguments enclosed in [ ].

### stcli security encryption ucsm-ro-user delete Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Encryption UCSM read only (RO) user delete operations.



**Important** Please enter password when prompted.

**stcli security encryption ucsm-ro-user delete [-h] --hostname HOSTNAME [--username USERNAME]**

Syntax Description	Option	Required or Optional	Description
	--hostname HOSTNAME	Required.	UCSM host name.
	--username USERNAME	Optional.	UCSM user name. Must be UCSM admin level user. Enter UCSM admin level password when prompted.

**Command Default** Username default is `admin`.

**Usage Guidelines** Accompany the `stcli security encryption ucsm-ro-user delete` command with the required arguments with leading two dashes (--), and optionally, the arguments enclosed in [ ].

### stcli security encryption ucsm-ro-user show Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Encryption UCSM read only (RO) show users.

**stcli security encryption ucsm-ro-user show [-h]****Command Default** None.**Usage Guidelines** Accompany the `stcli security encryption ucsm-ro-user show` command optionally, the arguments enclosed in [ ].

## stcli security password Command

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

SSH key management operations. Sets user password for all the controller VMs in the storage cluster.

**Important** Enter password when prompted**stcli security password set [-h] [--user USER][--user diag]**

Syntax Description	Option	Required or Optional	Description
	<code>set</code>	Required.	Sets user password for all the controller VMs in the storage cluster.
	<code>--user USER</code>	Optional.	User must be either admin or root. User root is assumed if not specified.
	<code>--user diag</code>	Optional	Admin user account with escalated privileges designed for troubleshooting. Support introduced in 5.0(2a)

**Command Default** Default controller VM username, `root` and password, `Cisco123`.**Usage Guidelines** Accompany the `stcli security password set` command with one of the optional arguments enclosed in [ ].

## stcli security ssh Command

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

SSH key management operations. Resyncs SSH keys in storage cluster.

**stcli security ssh [-h] resync**

Syntax Description	Option	Required or Optional	Description
	<b>resync</b>	Required.	Resyncs SSH keys in storage cluster.

**Command Default** None.

**Usage Guidelines** Run the `stcli security ssh` command with the `resync` positional argument, or include the optional arguments enclosed in [ ].

## stcli security whitelist Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

IP tables white-listing operations.

**stcli security whitelist [-h] [list | add | remove | clear]**

Syntax Description	Option	Required or Optional	Description
	<b>add</b>	One of set required.	Adds IP addresses to IP table white-list.
	<b>clear</b>	One of set required.	Clears IP addresses from IP table white-list.
	<b>list</b>	One of set required.	List IP table white-listed entries.
	<b>remove</b>	One of set required.	Removes IP addresses from IP table white-list.

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

**Usage Guidelines** Accompany the `stcli security whitelist` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

### stcli security whitelist list Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Displays the list of white list entries in the IP table.

**stcli security whitelist list [-h]**

**Command Default** None.

**Usage Guidelines** Accompany the `stcli security whitelist list` command, or include optional arguments enclosed in [ ].

```
# stcli security whitelist list
10.1.1.2
10.1.2.3
```

## stcli security whitelist add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Adds IP addresses to the IP table white list.

**stcli security whitelist add [-h] --ips IP [IP . . .]**

Syntax Description	Option	Required or Optional	Description
	<code>--ips IP [IP . . .]</code>	Required.	The IP addresses to add to white list.

**Command Default** None. IP addresses required.

**Usage Guidelines** Accompany the `stcli security whitelist add` command with the IPs of the servers to add.

```
# stcli security whitelist add --ips 10.1.2.3 10.3.4.5
```

## stcli security whitelist remove Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Deletes the specified IP addresses from the IP table white list.

**stcli security whitelist remove [-h] --ips IP [IP . . .]**

Syntax Description	Option	Required or Optional	Description
	<code>--ips IP [IP . . .]</code>	Required.	IP addresses to remove from white list.

**Command Default** None.

**Usage Guidelines**

Accompany the `stcli security whitelist remove` command with the IP addresses to remove from the white list.

```
# stcli security whitelist remove --ips 10.1.2.3
```

**stcli security whitelist clear Command**

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Deletes the entire list of IP addresses in the IP table white list.

```
stcli security whitelist clear [-h]
```

**Command Default**

None.

**Usage Guidelines**

Run the `stcli security whitelist clear` command to delete IP addresses from the white list.

## stcli services Commands

### stcli services Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

System services related operations.

```
stcli services [-h] [smtp | dns | ntp | asup | sch | remotesupport | timezone]
```

**Syntax Description**

Option	Required or Optional	Description
<b>asup</b>	One of set required.	Commands supported in the autosupport (ASUP) configuration namespace.
<b>dns</b>	One of set required.	Commands supported in the storage DNS configuration namespace.
<b>ntp</b>	One of set required.	Commands supported in the storage NTP configuration namespace.
<b>remotesupport</b>	One of set required.	Commands supported for support remote access.
<b>sch</b>	One of set required.	Commands supported in the Smart Call Home configuration namespace.

Option	Required or Optional	Description
<b>smtp</b>	One of set required.	Commands supported in the storage SMTP for autosupport configuration namespace.
<b>timezone</b>	One of set required.	Commands supported in the timezone configuration namespace.

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

**Usage Guidelines** Accompany the `stcli services` command with at least one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli services smtp Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

The HX Data Platform Simple Mail Transfer Protocol (SMTP) configuration options. SMTP is an Internet standard for email transmission. The SMTP servers are used with the HX ASUP feature.

**stcli services smtp [-h] {show | set | clear}**

Syntax Description	Option	Required or Optional	Description
	<b>clear</b>	One of set required.	Removes all SMTP servers from the storage cluster configuration settings.
	<b>set</b>	One of set required.	Add all SMTP servers to the storage cluster configuration.
	<b>show</b>	One of set required.	Lists all SMTP servers configured for the storage cluster.

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

**Usage Guidelines** Accompany the `stcli services smtp` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli services smtp show Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Displays the storage cluster configured SMTP servers.



**stcli services smtp show [-h]**

**Command Default**

No additional options.

**Usage Guidelines**

Run the `stcli services smtp show` command to view all SMTP servers in storage cluster configuration.

```
# stcli services smtp show
smtpServer: mailhost.eng.mycompany.com
fromAddress: admin@mycompany.com
```

**stcli services smtp set Command**



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Adds SMTP servers to the storage cluster configuration settings.

**stcli services smtp set [-h] --smtp SMTPSERVER --fromaddress FROMADDRESS**

**Syntax Description**

Option	Required or Optional	Description
<b>--smtp SMTPSERVER</b>	Required.	The hosting address of the SMTP server.
<b>--fromaddress FROMADDRESS</b>	Required.	Email address to send Auto Support emails from. The address used by the SMTP server to send email notifications to the recipients.

**Command Default**

None. Server information is required.

**Usage Guidelines**

Accompany the `stcli services smtp set` command with the required parameters. To verify the SMTP servers are configured, check the `/etc/msmtprc` file.

```
# stcli services smtp set --smtp mailhost.eng.mycompany.com --fromAddress
smtpnotice@mycompany.com
```

**stcli services smtp clear Command**



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Removes all SMTP servers from the storage cluster configuration settings.

**stcli services smtp clear [-h]**

**Command Default** No additional options.

**Usage Guidelines** Run the `stcli services smtp clear` command to remove all SMTP servers from storage cluster configuration. To verify the SMTP servers are removed, check that the `/etc/msmtprc` file is missing.

```
# stcli services smtp clear
```

## stcli services dns Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Domain Name Server (DNS) server configuration operations. DNS is a hierarchical distributed naming system for computers, services, or any resource connected to the Internet or a private network.

```
stcli services dns [-h] {show | set | add | remove}
```

### Syntax Description

Option	Required or Optional	Description
<b>add</b>	One of set required.	Adds servers to the DNS server list.
<b>set</b>	One of set required.	Replace the DNS server list with this new list.
<b>show</b>	One of set required.	Show the DNS server list.
<b>remove</b>	One of set required.	Delete a server from the DNS server list.

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

**Usage Guidelines** Accompany the `stcli services dns` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli services dns show Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Displays the DNS server list.

```
stcli services dns show [-h]
```

**Command Default** No additional options.

**Usage Guidelines** Run the `stcli services dns show` command.

```
# stcli services dns show
10.64.1.8
10.64.1.9
```

## stcli services dns set Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Replaces existing list of servers in the DNS server list. Deletes current list To add servers to an existing list, use `dns add`.

```
stcli services dns set [-h] --dns DNSSERVER [DNSSERVER . . .]
```

### Syntax Description

Option	Required or Optional	Description
<code>--dns DNSSERVER [DNSSERVER . . .]</code>	Required.	List at least one server to replace the current list of DNS servers.

### Command Default

None. At least one server ID is required.

### Usage Guidelines

Accompany the `stcli services dns set` command with at least one DNS server ID. Separate servers with a space.

```
# stcli services dns set --dns 10.60.1.1
```

## stcli services dns add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Adds servers to the DNS server list.

```
stcli services dns add [-h] --dns DNSSERVER [DNSSERVER . . .]
```

### Syntax Description

Option	Required or Optional	Description
<code>--dns DNSSERVER [DNSSERVER . . .]</code>	Required.	List at least one server to add to the list of DNS servers.

### Command Default

None. At least one server ID is required.

**Usage Guidelines**

Accompany the `stcli services dns add` command with at least one DNS server ID. Separate servers with a space.

```
# stcli services dns add --dns 10.60.8.9
```

**stcli services dns remove Command**

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Removes one or more or all servers from the existing list of servers in the DNS server list.

```
stcli services dns remove [-h] --dns DNSSERVER [DNSSERVER . . .]
```

**Syntax Description**

Option	Required or Optional	Description
<code>--dns DNSSERVER [DNSSERVER . . .]</code>	Optional.	List at least one server to delete from the current list of DNS servers.

**Command Default**

Default removes all DNS servers from the list.

**Usage Guidelines**

Accompany the `stcli services dns remove` command with none, one, or more DNS server IDs. Separate servers with a space.

```
# stcli services dns remove --dns 10.60.6.7
```

**stcli services ntp Commands**

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

The HX Data Platform Network Time Protocol (NTP) configuration operations.

NTP is a protocol that is used to synchronize computer clock times in a network of computers so that you can correlate events when you receive system logs and other time-specific events from multiple network devices. NTP uses the User Datagram Protocol (UDP) as its transport protocol. All NTP communications use Coordinated Universal Time (UTC).

```
stcli services ntp [-h] {add | set | show | remove}
```

**Syntax Description**

Option	Required or Optional	Description
<code>add</code>	One of set required.	Add one or more servers to the list of storage NTP servers.

Option	Required or Optional	Description
<b>set</b>	One of set required.	Replace the existing list of NTP servers with the listed DNS servers.
<b>show</b>	One of set required.	Display the list of storage NTP servers.
<b>remove</b>	One of set required.	Remove one or more servers from the list of storage NTP servers.

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

**Usage Guidelines** Accompany the `stcli services ntp` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

## stcli services ntp add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Add one or more servers to the list of storage DNS servers.

```
stcli services ntp add [-h] --ntp NTPSERVER [NTPSERVER . . .]
```

Syntax Description	Option	Required or Optional	Description
	<b>--ntp NTPSERVER [NTPSERVER . . .]</b>	Required.	Add one or more servers to the list of storage NTP servers.

**Command Default** None. At least one server ID is required.

**Usage Guidelines** Accompany the `stcli services ntp add` command with at least one server ID.

```
# stcli services ntp add --ntp 136.158.1.0
```

## stcli services ntp set Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Replaces existing list of NTP servers with new list. To add servers to an existing list, use `ntp add`.

```
stcli services ntp set [-h] --ntp NTPSERVER [NTPSERVER . . .]
```

Syntax Description	Option	Required or Optional	Description
	<b>--ntp NTPSERVER</b> [NTPSERVER . . .]	Required.	Provide one or more servers to replace the current the list of storage NTP servers.

**Command Default** None. At least one server ID is required.

**Usage Guidelines** Accompany the `stcli services ntp set` command with at least one server ID.

```
# stcli services ntp set --ntp 10.12.1.1
```

## stcli services ntp show Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Display the list of storage DNS servers.

**stcli services ntp show [-h]**

**Command Default** No options available.

**Usage Guidelines** Run the `stcli services ntp show` command.

```
# stcli services ntp show
0.company.pool.ntp.org
ntp.ubuntu.com
```

## stcli services ntp remove Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Delete one or more servers from the list of storage DNS servers.

**stcli services ntp remove [-h] --ntp NTPSERVER [NTPSERVER . . .]**

Syntax Description	Option	Required or Optional	Description
	<b>--ntp NTPSERVER</b> [NTPSERVER . . .]	Optional.	Remove one or more servers from the list of storage DNS servers.

**Command Default** Default removes all NTP servers from the list of storage NTP servers.

**Usage Guidelines** Accompany the `stcli services ntp remove` command with at least one server ID.

```
# stcli services ntp remove --ntp 136.158.1.0
```

## stcli services asup Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

This section lists and describes the Cisco Automatic Support (ASUP) commands. ASUP enables you to proactively obtain information about failures and responds immediately. It also helps in planning system performance and capacity.



**Note** ASUP relies on SMTP. Before you enable ASUP, ensure that you configure SMTP in your network.

**stcli services asup [-h] {enable | disable | show | recipients}**

Syntax Description	Option	Required or Optional	Description
	<b>disable</b>	One of set required.	Disables ASUP.
	<b>enable</b>	One of set required.	Enables ASUP.
	<b>recipients</b>	One of set required.	Commands to support ASUP recipients list configuration.
	<b>show</b>	One of set required.	Shows the ASUP configuration.

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

**Usage Guidelines** Accompany the `stcli services asup` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

### stcli services asup enable Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Enables HX auto support (ASUP) support.

**stcli services asup enable [-h]**

---

**Command Default** No additional options.

---

**Usage Guidelines**

1. Ensure SMTP is configured. See the `stcli services asup smtp` command.
2. Run the `stcli services asup enable` command.

```
# stcli services asup enable
```

## stcli services asup disable Command




---

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

---

Disables HX auto support (ASUP) support.

**stcli services asup disable [-h]**

---

**Command Default** No additional options.

---

**Usage Guidelines** Run the `stcli services asup disable` command.

```
# stcli services asup disable
```

## stcli services asup show Command




---

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

---

Shows the ASUP configuration, this includes the ASUP recipient list and whether ASUP is enabled or disabled.

**stcli services asup show [-h]**

---

**Command Default** No additional options available.

---

**Usage Guidelines** Run the `stcli services asup show` command to list the applied ASUP settings.

This sample response indicates that ASUP is not enabled and there are no email addresses in the recipient list.

```
# stcli services asup show

recipientList:
enabled: False
```



## stcli services asup recipients Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

HX auto support (ASUP) recipient configuration operations.

**stcli services asup recipients [-h] {set | clear | add | remove}**

Syntax Description	Option	Required or Optional	Description
	<b>add</b>	One of set required.	Adds ASUP email recipients to an existing list of ASUP recipients.
	<b>clear</b>	One of set required.	Deletes the entire ASUP recipient list. To remove individual recipients, use <code>asup recipients remove</code> .
	<b>remove</b>	One of set required.	Deletes the specified ASUP email recipients from an existing list.
	<b>set</b>	One of set required.	Sets the ASUP recipient list. Replaces previously set list of recipients. To add recipients to an existing list, use <code>asup recipients add</code> .

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

**Usage Guidelines** Accompany the `stcli services asup recipients` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

- Use `clear` option to delete all recipients from an existing list of recipients.
- Use `remove` option to delete specific email addresses from the list of recipients.
- Use `add` option to add new email addresses to the list of recipients.
- Use `set` option to replace the previous list of recipients with a new list of recipients.

### stcli services asup recipients set Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Replaces an existing list of ASUP email recipients with a provided list of email addresses. This deletes all recipients on the existing list. To add recipients to an existing list and not deleted the existing recipients, use `asup recipients add`.

**stcli services asup recipients set [-h] --recipients RECIPIENTS [RECIPIENTS . . .]**

## stcli services asup recipients clear Command

Syntax Description	Option	Required or Optional	Description
	<b>--recipients</b> <b>RECIPIENTS</b> <b>[RECIPIENTS . . .]</b>	Required.	Add one or more email addresses to replace the existing list of recipients to receive ASUP notifications. Separate email recipients with a space.

**Command Default** None. At least one recipient is required.

**Usage Guidelines** Accompany the `stcli services asup recipients set` command with at least one recipient. Separate multiple recipients with a space between email addresses.

```
# stcli services asup recipients set --recipients user1@mycompany.com user2@mycompany.com
```

## stcli services asup recipients clear Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Deletes the entire ASUP recipient list. To remove individual recipients, use `asup recipients remove`.

**stcli services asup recipients clear [-h]**

**Command Default** No additional options.

**Usage Guidelines** Run the `stcli services asup recipients clear` command to delete all email addresses from the recipient list.

## stcli services asup recipients add Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Adds ASUP email recipients to an existing list of ASUP recipients. The existing list can be currently empty. Use this command to add one or more recipients.

**stcli services asup recipients add [-h] --recipients RECIPIENTS [RECIPIENTS . . .]**

Syntax Description	Option	Required or Optional	Description
	<b>--recipients</b> <b>RECIPIENTS</b> <b>[RECIPIENTS . . .]</b>	Required.	Add one or more email addresses to the current list of recipients that receive ASUP notifications.

**Command Default** None. At least one recipient is required.

**Usage Guidelines**

Accompany the `stcli services asup recipients add` command with at least one recipient. Separate multiple recipients with a space between email addresses.

```
# stcli services asup recipients add --recipients user1@mycompany.com user2@mycompany.com
```

**stcli services asup recipient remove Command**



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Deletes the specified individual email recipients from an existing list of ASUP recipients.

```
stcli services asup recipients remove [-h] --recipients RECIPIENTS [RECIPIENTS . . .]
```

**Syntax Description**

Option	Required or Optional	Description
<b>--recipients RECIPIENTS [RECIPIENTS . . .]</b>	Required.	Delete individual email addresses from the current list of recipients that receive ASUP notifications.

**Command Default**

None. At least one recipient is required.

**Usage Guidelines**

Accompany the `stcli services asup recipients remove` command with at least one recipient. Separate multiple recipients with a space between email addresses.

```
# stcli services asup recipients remove --recipients user1@mycompany.com user2@mycompany.com
```

## stcli services sch Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

This section lists and describes the Cisco Smart Call Home (SCH) commands. Smart call home provides continuous monitoring, proactive diagnostics, alerts, service ticket notifications, and remediation recommendations about the HX storage cluster to the designated ASUP customer contacts. It also provides a means to provide the information through HTTPS and a proxy server, if needed.



**Note** If your HX storage cluster is behind a firewall, a proxy server is required for access.

The **stcli services** cli support both HTTP and HTTPS proxy.

```
stcli services sch [-h] {enable | disable | show | ping | clear | set}
```

Syntax Description	Option	Required or Optional	Description
	<b>clear</b>	One of set required.	Clears the smart call home configuration.
	<b>disable</b>	One of set required.	Disables smart call home.
	<b>enable</b>	One of set required.	Enables smart call home.
	<b>ping</b>	One of set required.	Pings the smart call home endpoint.
	<b>set</b>	One of set required.	Commands for smart call home registration, including proxy server for HTTPS access
	<b>show</b>	One of set required.	Shows the smart call home configuration.

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

**Usage Guidelines** Accompany the `stcli services sch` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli services sch enable Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Enables HX smart call home. See `stcli services sch set` to configure the notification email address.

**stcli services sch enable [-h]**

**Command Default** No additional options.

**Usage Guidelines** Run the `stcli services sch enable` command.

```
# stcli services sch enable
```

## stcli services sch disable Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Disables HX smart call home.

**stcli services sch disable [-h]**

**Command Default** No additional options.

---

**Usage Guidelines** Run the `stcli services sch disable` command.

```
# stcli services sch disable
```

## stcli services sch show Command



---

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

---

Shows the smart call home configuration, this includes configured notification email and proxy settings, and whether smart call home is enabled or disabled.

**stcli services sch show [-h]**

---

**Command Default** No additional options available.

---

**Usage Guidelines** Run the `stcli services sch show` command to list the applied smart call home settings.

This sample response indicates that smart call home is enabled, but the email addresses and proxy settings are not configured.

```
# stcli services sch show

proxyPort: 0
proxyUser:
enabled: True
proxyPassword:
cloudEnvironment: production
proxyUrl:
emailAddress:
portalUrl:
cloudAsupEndpoint: https://diag-hyperflex.io/
```

## stcli services sch ping Command



---

**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

---

Pings the Smart Call Home endpoint.

**stcli services sch ping [-h]**

---

**Command Default** No options.

---

**Usage Guidelines** Run the `stcli services sch ping` command.

This example shows:

```
# stcli services sch ping
ping to callhome endpoint was successful
```

## stcli services sch clear Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Removes the smart call home email and proxy settings from the storage cluster configuration.

**stcli services sch clear [-h]**

### Command Default

No additional options.

### Usage Guidelines

Run the `stcli services sch clear` command to remove the smart call home notification email and proxy settings from storage cluster configuration.

```
# stcli services sch clear
```

## stcli services sch set Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Configures the smart call home service required contact and proxy server.



**Important** Please enter password when prompted.

The `stcli services cli` support both HTTP and HTTPS proxy.

**stcli services sch set [-h] --email EMAILADDRESS [--proxy-url PROXYURL] [--proxy-port PROXYPORT] [--proxy-user PROXYUSER] [--portal-url PORTALURL] [--enable-proxy ENABLEPROXY]**

### Syntax Description

Option	Required or Optional	Description
<b>--email EMAILADDRESS</b>	Required.	Add an email address for someone to receive email from Cisco support. Recommendation is to use a distribution list or alias.
<b>--enable-proxy ENABLEPROXY</b>	Optional.	Explicitly enable or disable use of proxy.

Option	Required or Optional	Description
<b>--portal-url</b> PORTALURL	Optional.	Specify an alternative Smart Call Home portal URL, if applicable.
<b>--proxy-url</b> PROXYURL	Optional.	Specify the HTTP or HTTPS proxy URL, if applicable.
<b>--proxy-port</b> PROXYPORT	Optional.	Specify the HTTP or HTTPS proxy port, if applicable.
<b>--proxy-user</b> PROXYUSER	Optional.	Specify the HTTP or HTTPS proxy user, if applicable. Specify the HTTP or HTTPS proxy password, when prompted.

**Command Default**

None. Email address is required. Proxy server is not configured by default.

**Usage Guidelines**

Accompany the `stcli services sch set` command with an email recipient address. Set the proxy server if your HX storage cluster is behind a firewall.

To use the smart call home service, ensure it is enabled. See the `stcli services sch show` and `stcli services sch enable` commands.

```
# stcli services sch set --email alias@mycompany.com
```

## stcli services remotesupport Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

This section lists and describes the remote support commands. This command allows Cisco support to access your HX storage cluster to collect information about cluster operations, for example, configured notification email and proxy settings and support triggered support bundles.

This is enabled by default.

**stcli services remotesupport [-h] {set | show}**

**Syntax Description**

Option	Required or Optional	Description
<b>set</b>	One of set required.	Commands to configure remote support.
<b>show</b>	One of set required.	Shows the remote support configuration.

**Command Default**

None. One option from the set is required.

**Usage Guidelines** Accompany the `stcli services remotesupport` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## stcli services remotesupport set Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Set configuration for remote support access and actions.

**stcli services remotesupport set [-h] --enable ENABLE\_RS\_VALUE [--enable-support-bundle-action ENABLE\_RSB\_VALUE]**

Syntax Description	Option	Required or Optional	Description
	<b>--enable</b> ENABLE_RS_VALUE	Required.	Enable or disable remote support. Specify either value <code>true</code> or <code>false</code> .
	<b>--enable-support-bundle-action</b> ENABLE_RSB_VALUE	Optional.	Enable or disable support bundle actions. Specify either <code>true</code> or <code>false</code> .  Allows TAC to remotely trigger building a support bundle.

**Command Default** Remote support is enabled by default.

**Usage Guidelines** Accompany the `stcli services remotesupport set` command with the required parameter.

```
# stcli services remotesupport set --enable false
```

## stcli services remotesupport show Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Shows the remote support configuration, this includes configured notification email and proxy settings, and whether remote support is enabled or disabled and if support triggered support bundles are enabled or disabled.

**stcli services remotesupport show [-h]**

**Command Default** No additional options available.



**Usage Guidelines**

Run the `stcli services remotesupport show` command to list the applied settings.

This sample response indicates that remote access by support and remotely triggering support bundles are enabled.

```
# stcli services remotesupport show
enableSupportBundleAction: True
enabled: True
```

## stcli services timezone Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

HX Data Platform timezone configuration operations.

`stcli services timezone [-h] {show | set}`

**Syntax Description**

Option	Required or Optional	Description
<code>set</code>	One of set required.	Specifies the time zone for the controller VMs.
<code>show</code>	One of set required.	Displays the system time zone that is currently set.

**Command Default**

None. One option from the set is required.

**Usage Guidelines**

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

### stcli services timezone show Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Displays the system time zone that is currently set for the controller VMs.

`stcli services timezone show [-h]`

**Command Default**

No additional options.

**Usage Guidelines**

Run the `stcli services timezone show` command to view the timezone currently set.

```
# stcli services timezone show
America/New_York
```

## stcli services timezone set Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Specifies the time zone for the controller VMs.

**stcli services timezone set [-h] --timezone TIMEZONE**

Syntax Description	Option	Required or Optional	Description
	<code>--timezone TIMEZONE</code>	Required.	<p>Specify a value for the time zone.</p> <p>For a list of valid time zone values, go to:  <a href="http://manpages.ubuntu.com/manpages/jaunty/ma%20n3/DateTime::TimeZone::Catalog.3pm.html">http://manpages.ubuntu.com/manpages/jaunty/ma%20n3/DateTime::TimeZone::Catalog.3pm.html</a></p> <ul style="list-style-type: none"> <li>• Ensure that you specify a (case-sensitive) value for the time zone only from this list; for example: Europe/Paris or America/Los_Angeles.</li> <li>• Any value that is not in this list is invalid.</li> <li>• If you specify an invalid time zone, the system reverts to GMT.</li> </ul>

**Command Default** None. Timezone is required.

**Usage Guidelines** Accompany the `stcli services timezone set` command with a valid timezone.

```
# stcli services timezone set --timezone America/Los_Angeles
```

## stcli vm clone and snapshot Commands

### stcli file clone Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Creates a HX clone for the given file.

**stcli file clone [-h] --name NAME --clone CLONE [--parentname PARENTNAME] [--replfirst] [--repl] [--readonly] [--thick]**

Syntax Description	Option	Required or Optional	Description
	<b>--clone CLONE</b>	Required.	Name to assign to the file clone.
	<b>--name NAME</b>	Required.	Name of the file to be cloned.
	<b>--parentname PARENTNAME</b>	Optional.	Name of the parent file of the file to be cloned.
	<b>--replfirst</b>	Optional.	First replication file clone.
	<b>--repl</b>	Optional.	Replication file clone.
	<b>--readonly</b>	Optional.	Read only file clone.
	<b>--thick</b>	Optional.	Thick file clone.

**Command Default** None. File name and clone name required.

**Usage Guidelines** Accompany the `stcli file clone` command with the positional arguments and optionally the arguments enclosed in [ ].

## stcli snapshot-schedule Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Enables or disables native snapshot schedules for all the objects in this cluster.

**stcli snapshot-schedule [-h] {--enable | --disable}**

Syntax Description	Option	Required or Optional	Description
	<b>--enable</b>	One of set required.	Enable the native snapshot schedule.
	<b>--disable</b>	One of set required.	Disable the native snapshot schedule.

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

**Usage Guidelines** Accompany the `stcli snapshot-schedule` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

Use the HX Data Platform plug-in to create the native snapshot schedule. This command allows you to disable the schedule and re-enable it without requiring you to rebuild the schedule.

## stcli vm Commands



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

HX Data Platform VM ReadyClone and Native Snapshot operations.

**stcli vm [-h] {clone | snapshot}**

Syntax Description	Option	Required or Optional	Description
	<b>clone</b>	One of set required.	Creates a specified number of ReadyClones for the given VM.
	<b>snapshot</b>	One of set required.	Creates a native snapshot for the given VM.

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

**Usage Guidelines** Accompany the `stcli vm` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

### stcli vm clone Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Creates a specified number of ReadyClones for the given VM.

**stcli vm clone [-h] {--id ID | --name NAME} --clone CLONE --number NUMBER [--poweron] [--custspec CUSTSPEC] [--guestname GUESTNAME] [--startnumber STARTNUMBER] [--increment INCREMENT] [--resourcepool-id RP-ID | --resourcepool-name RP-NAME]**

Syntax Description	Option	Required or Optional	Description
	<b>--clone CLONE</b>	Required.	Name of the ReadyClone.
	<b>--id ID</b>	One of set required.	ID of source VM. The ID is listed in the <code>stcli cluster info</code> command.
	<b>--name NAME</b>	One of set required.	Name of the source VM.
	<b>-number NUMBER</b>	Required.	Number of ReadyClones to create.
	<b>--custspec CUSTSPEC</b>	Optional.	Guest customization spec for the ReadyClones. See vCenter Customize Guest OS feature.

Option	Required or Optional	Description
<b>--guestname</b> <b>GUESTNAME</b>	Optional.	Specify a guest name for the ReadyClones so it can be different from source VM name.  Default is the DNS name for the host. This name must be DNS resolvable before specifying it.
<b>--increment</b> <b>INCREMENT</b>	Optional.	Suffix to use for incrementing the ReadyClone names.  <b>Note</b> Do not try to increment clone numbers using a value = or > 10000000000.
<b>--poweron</b>	Optional.	Power on the created ReadyClone after cloning.
<b>--resourcepool-id</b> <b>RP-ID</b>	Optional.	ID of the resource pool to place the ReadyClones.
<b>--resourcepool-name</b> <b>RP-NAME</b>	Optional.	Name of the resource pool to place the ReadyClones.
<b>--startnumber</b> <b>STARTNUMBER</b>	Optional.	Starting number for the incrementing suffix for the ReadyClone names.

**Command Default** None. Specified options are required.

**Usage Guidelines** Accompany the `stcli vm clone` command with one of the required positional arguments listed and optionally, arguments enclosed in [ ].

## stcli vm snapshot Command



**Note** The stcli commands are being deprecated. We recommend that you use the [hxcli Commands, on page 3](#) instead.

Creates a native snapshot for the given VM.

```
stcli vm snapshot [-h] {id ID | --name NAME | --folder-id FOLDER-ID | --folder-name FOLDER-NAME
| --resourcepool-id RP-ID | --resourcepool-name RP-NAME} --snapshot SNAPSHOT [--desc DESC]
[--memory | --quiesce]
```

Syntax Description	Option	Required or Optional	Description
	<b>--snapshot</b> <b>SNAPSHOT</b>	Required.	Name of the native snapshot.
	<b>-folder-id</b> <b>FOLDER-ID</b>	One of set required.	ID of the folder used to create the native snapshot.
	<b>--folder-name</b> <b>FOLDER-NAME</b>	One of set required.	Name of the folder used to create the native snapshot.
	<b>--id</b> <b>ID</b>	One of set required.	ID of the source VM used to create the native snapshot.

Option	Required or Optional	Description
<b>--name NAME</b>	One of set required.	Name of the source VM used to create the native snapshot.
<b>--resourcepool-id RP-ID</b>	One of set required.	ID of the resource pool used to create the native snapshot.
<b>--resourcepool-name RP-NAME</b>	One of set required.	Name of the resource pool used to create the native snapshot.
<b>--desc DESC</b>	Optional.	Description of the native snapshot.
<b>--memory</b>	One of pair optional.	Memory for the native snapshot.
<b>--quiesce</b>	One of pair optional.	Quiesce the file system in the virtual machine.

**Command Default**

None. Specified options are required.

**Usage Guidelines**

Accompany the `stcli vm snapshot` command with one of the required positional arguments listed and optionally, arguments enclosed in [ ].



## CHAPTER 4

# Appendix

- [priv install package](#), on page 177
- [secure disk erase](#), on page 178

## priv install package

Installs the HX Data Platform encryption package.

**priv install package {flags}**

Syntax Description	Option	Required or Optional	Description
	<b>--local</b>		Installs the package on the current node of the cluster.
	<b>--cluster</b>		Installs the package on all the available nodes of the cluster. If any node/s is/are not available then the package will not be installed on that/those node/s.  <b>Note</b> Valid only if the current state of the cluster is HEALTHY/WARNING.
	<b>--path</b>		Path to the package.

*Table 132: Command History*

HX Release	Modification
5.0(1b)	This command was introduced in Cisco HX Release 5.0(1b).

**Command Default** Default (or None.)

**Usage Guidelines** Example: Accompany the `priv install package` command with one of the positional arguments enclosed in `{ }` or optional arguments enclosed in `[ ]`.

## secure disk erase

A disk erase utility that provides the option to do a basic (Mode '0') and standard (Mode '1'/Mode '2') sanitization of the disk.



### Note

- For the standard mode erase, you can trigger the secure erase operation on the drive and the progress status can be tracked using the **--progress** option.
- Multiple pass overwrite and user specified pattern is only allowed for HDD and not for SSD.
- To skip the last primary copy check, you can use **--skip-last-primary-check** option, which skips the last primary copy check for the disk. This flag can be used in the case when the node is not part of the cluster, or the node is in some intermediate state, or the cluster is in offline state. Please be aware that if the drive contains the last primary copy of the data then there is permanent data loss.
- If Reboot/Power is interrupted while **secure disk erase** is in-progress and when the power is restored, the disk may not show up in the controller VM. In this case, you need to wait for the estimated time while the erase finishes in the background and then reboot the controller node. Estimated time is determined by using the below erase rate:

For HDD average erase rate is ~2hours/TB.  
For SSD average erase rate is ~2Mins/TB.



### Note

Total estimated time is proportional to the number of overwrite counts.

### secure\_disk\_erase {flags}

Syntax Description	Option	Required or Optional	Description
	<b>-h, --help</b>	Optional	Displays help for secure disk erase command.
	<b>-d, --disk-path</b>	Required	Specifies the absolute path of the target disk.
		<b>Note</b>	<p>A warning is displayed before you run this command.</p> <pre>admin:~\$ secure_disk_erase -d /dev/sde THIS UTILITY WILL IRRECOVERABLY ERASE DATA FROM DRIVE.PROCEED WITH CAUTION. storfs signature from the disk /dev/sde will be destroyed, proceed [Y/N]:Y Successfully removed the disk from the system: '/dev/sde' Starting basic erase for disk '/dev/sde' Erase successfully for disk /dev/sde.</pre>



Option	Required or Optional	Description
<b>-m, --mode</b>	Optional	Indicates the mode {0,1,2}. The erase modes are: <ul style="list-style-type: none"> <li>• (default: 0): 0 - Erase only storfs signature from the disk.</li> <li>• 1 - Single pass full disk erase.</li> <li>• 2 - 3 pass full disk erase (Valid only for HDD).</li> </ul>
<b>-p, --erase-pattern</b>	Optional (Valid only for HDD)	Any erase pattern.
<b>-o, --overwrite-count</b>	Optional (Valid only for HDD)	The number of overwrite count (>0).
<b>-s, --skip-last-primary-check</b>	Optional	Skips the last primary check for the disk. Allowed only if the node is not part of the active cluster.
<b>-r, --progress</b>	Optional	Checks the secure erase progress for the given disk. Progress is displayed only if the active erase operation is in progress for the disk.

Table 133: Command History

HX Release	Modification
5.0(1b)	This command was introduced in Cisco HX Release 5.0(1b).

**Command Default**

Default (or None.)

**Usage Guidelines**

Example: Accompany the `secure disk erase` command with one of the positional arguments enclosed in { } or optional arguments enclosed in [ ].

