



stcli node Commands

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stcli node Commands

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
	add	One of set required.	Adds the set of nodes to the storage cluster.
	discover	One of set required.	Lists the storage cluster nodes discoverable on the same subnet as this node.
	disk	One of set required.	Locate a physical disk in the node.
	disks	One of set required.	Provides information about the physical disks of the storage cluster node.
	identify	One of set required.	Turns on/off the node beacon to identify a node.

Option	Required or Optional	Description
info	One of set required.	Provides information about the specified storage cluster node.
list	One of set required.	Lists the storage cluster nodes in the storage cluster.
maintenanceMode	One of set required.	Enter or exit maintenance mode.
remove	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 add Command

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
--node-ips NODEIPS [NODEIPS . . .]	Required	ESXi management/vmk0 IP addresses of the nodes to be add to the storage cluster.
--dryrun	Optional	Only validate input parameters.
Site Name	Required for stretched cluster	Site name of the node.
--esx-username ESCUSERNAME	Optional	User name of ESX administrator. Enter ESX 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. 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 discover Command

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 disk Command

Locate a physical disk in the node.

```
stcli node disk [-h] [--id ID | --ip NAME] [--lighton | lightoff]
```

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> .
	--ip NAME	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> .
	--lighton	Optional.	Turn the ID light on the disk on.
	--lightoff	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 disks Command

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> .
	--ip NAME	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> .

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 identify Command

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 info Command

Provides information about the specified storage cluster node.

stcli node info [-h] [--id ID | --ip NAME] [--summary]

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> .
	--ip NAME	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 --ip option is currently not supported.
	--summary	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 list Command

Lists the nodes in the storage cluster.

stcli node list [-h] --summary

Syntax Description

Option	Required or Optional	Description
<code>--summary</code>	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 maintenanceMode Command

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
	--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> .
	--ip NAME	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> .
	--mode MODE	Required	Mode to set <code>enter</code> or <code>exit</code> HX maintenance mode.
	--timeout TIMEOUT	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 node remove Command

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 1: 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.

