



## 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
	<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.
	<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 [ ].

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## 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
<b>--node-ips NODEIPS [NODEIPS . . .]</b>	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 ESCUSERNAME</b>	Optional	User name of ESX administrator. Enter ESX administrator password when prompted.
<b>Controller VM root user password</b>	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
	<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>--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 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
	<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> .

**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
	<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 node remove Command

Removes specified nodes from the storage cluster.



**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`



**Note** 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.

**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.