

Nutanix CLI examples

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Aborting a running task

Login to a CVM in your cluster using putty.

```
nutanix@CVM$ ecli task.list | grep Running  
411d7900-555e-48f8-8593-f8f8c8d96a12  
  
nutanix@CVM$ ergon_update_task  
--task_uuid=411d7900-555e-48f8-8593-f8f8c8d96a12  
--task_status=aborted
```

Account locked due to too many failed attempts

If you run into the above situation, ssh to any CVM (Controller VM) in the cluster as the nutanix user and run the following command:

```
nutanix@CVM$ allssh sudo faillock --user admin --reset
```

After running the above command for the locked out user, you should be able to log in.

Determining the source of failed authentication attempts:

If you are trying to get more details on what is locking out the account, you can use the steps below:

SSH to any CVM and run the command below to check which one is the Prism leader.

```
nutanix@CVM$ curl localhost:2019/prism/leader && echo
```

```
Possible output {"leader":"192.168.4.111:9080",  
"is_local":false}
```

SSH to the Prism leader.

```
nutanix@CVM:$ ssh nutanix@192.168.4.111
```

Use the command below to filter the logs for unsuccessful authentication exitattempts, which will list the usernames and IP addresses trying to authenticate.

```
nutanix@CVM$ grep "An unsuccessful login attempt was made with username" data/logs/prism_gateway.log
```

If you still have the account locked issue, please contact Nutanix support.

Reset admin password using ncli.

```
ncli user reset-password user-name=admin password="yournewpassword"
```

Manage ADS

```
accli ads.update enable=false  
accli ads.update enable=true
```

List hosts

Lists hostnames and IP addresses and other properties.

```
accli host.list
```

In and out of Maintenance mode

First ensure that all is fine. (Check Schedulable)

```
acli host.list
```

Hypervisor IP	Hypervisor DNS Name	Host UUID	Compute Only	Schedulable	Hypervisor Type	Hypervisor Name	CVM IP
192.168.4.110	192.168.4.110	xxxxxxx	False	True	kKvm	AHV	192.168.4.111
192.168.4.112	192.168.4.112	xxxxxxx	False	True	kKvm	AHV	192.168.4.113
192.168.4.114	192.168.4.114	xxxxxxx	False	True	kKvm	AHV	192.168.4.115

Check the id of each host and check maintenance mode. Also not the cluster id (red)

```
ncli host list|egrep "Id|Under "
```

```
Id : 000607b2-9035-b835-36c3-000c29c656e4::3
Under Maintenance Mode : false (CVM shutdown)
Id : 000607b2-9035-b835-36c3-000c29c656e4::4
Under Maintenance Mode : false (-)
Id : 000607b2-9035-b835-36c3-000c29c656e4::5
Under Maintenance Mode : false (-)
```

Bring the CVM with Id 3 into maintenance mode first and check it.

```
ncli host edit id=3 enable-maintenance-mode=true
```

```
ncli host list id=3 | grep Maintenance
```

```
Under Maintenance Mode : true (CVM shutdown)
```

Bring the host to maintenance mode and check it.

```
acli host.enter_maintenance_mode 192.168.4.110
```

```
acli host.list
```

Hypervisor IP	Hypervisor DNS Name	Host UUID	Compute Only	Schedulable	Hypervisor Type	Hypervisor Name	CVM IP
192.168.4.110	192.168.4.110	xxxxxxx	False	False	kKvm	AHV	192.168.4.111
192.168.4.112	192.168.4.112	xxxxxxx	False	True	kKvm	AHV	192.168.4.113
192.168.4.114	192.168.4.114	xxxxxxx	False	True	kKvm	AHV	192.168.4.115

Now you can perform any action you need to perform on the host that is in maintenance mode.

When you are done.

First bring take the host out of maintenance mode.

```
acli host.exit_maintenance_mode 192.168.4.110
acli host.get 192.168.4.110|grep schedulable
schedulable: True
```

Take the CVM out of maintenance mode.

```
ncli host edit id=3 enable-maintenance-mode=false
```

Which VMs are connected to a particular network.

To list all vms connected to network **ntnx-1**.

```
acli net.list_vms ntnx-1
```

Clone a VM using acli.

```
vm.clone newubuntu clone_from_vm=ubuntu
```

Clone a VM multiple times using acli.

```
vm.clone newubuntu[1..5] clone_from_vm=ubuntu
```

Create a disk and add it to a VM

```
accli vm.disk_create newubuntu create_size=2G container=SelfServiceContainer
```

Random CLI Actions

Display Nutanix Version

Description: Displays the current version of the Nutanix software

```
ncli cluster version
```

This screenshot shows the output from 'ncli version' as both a single-line command and from within an ncli "session".



```
nutanix@ntnx-19fm6k320168-b-cvm:~  
nutanix@ : ~$  
nutanix@ : ~$ ncli cluster version  
  
Cluster Version      : fraser-6.6-stable  
Changeset ID         : 83e265  
Changeset Date       : 2022-11-30 12:38:35 -0800  
Is LTS               : false  
  
ncli Version         : fraser-6.6-stable  
Changeset ID         : 83e265  
Changeset Date       : 2022-11-30 12:38:35 -0800  
nutanix@ : ~$  
nutanix@ : ~$ ncli  
  
Welcome, admin  
You're now connected to 0005f2f7-eee7-1995-6145-ac1f6b35fe5e (Dev) at 127.0.0.1  
  
<ncli> cluster version  
  
Cluster Version      : fraser-6.6-stable  
Changeset ID         : 83e265  
Changeset Date       : 2022-11-30 12:38:35 -0800  
Is LTS               : false  
  
ncli Version         : fraser-6.6-stable  
Changeset ID         : 83e265  
Changeset Date       : 2022-11-30 12:38:35 -0800  
<ncli>  
<ncli> |
```

Add Subnet to NFS whitelist

Description: Adds a particular subnet to the NFS whitelist

```
ncli cluster add-to-nfs-whitelist ip-subnet-masks=10.2.0.0/255.255.0.0
```

List Storage Pools

Description: Displays the existing storage pools

```
ncli sp ls
```

Note: This example shows the use of shortened commands. "storagepool" becomes "sp", "list" becomes "ls".

List Storage Containers

Description: Displays the existing containers

```
ncli ctr ls
```

Create Storage Container

Description: Creates a new container

```
ncli ctr create name=NAME sp-name=SP NAME
```

List VMs

Description: Displays the existing VMs

```
ncli vm ls
```

List Public Keys

Description: Displays the existing public keys

```
ncli cluster list-public-keys
```

Add Public Key

Description: Adds a public key for cluster access

SCP public key to CVM

Add public key to cluster

```
ncli cluster add-public-key name=myPK file-path=~/.mykey.pub
```

Remove Public Key

Description: Removes a public key for cluster access

```
ncli cluster remove-public-keys name=myPK
```

Create Protection Domain

Description: Creates a protection domain

```
ncli pd create name=NAME
```

Create Remote Site

Description: Create a remote site for replication

```
ncli remote-site create name=NAME address-list=Remote Cluster IP
```

Create Protection Domain For All VMs In Storage Container

Description: Protect all VMs in the specified container

```
ncli pd protect name=PD NAME ctr-id=Container ID cg-name=NAME
```

Create Protection Domain With Specified VMs

Description: Protect the VMs specified

```
ncli pd protect name=PD NAME vm-names=VM Name(s) cg-name=NAME
```


Create Protection Domain for AOS files (aka vDisk)

Description: Protect the DSF Files specified

```
ncli pd protect name=PD NAME files=File Name(s) cg-name=NAME
```

Create Protection Domain Snapshot

Description: Create a one-time snapshot of the protection domain

```
ncli pd add-one-time-snapshot name=PD NAME retention-time=seconds
```

Create Snapshot and Replication Schedule to Remote Site

Description: Create a recurring snapshot schedule and replication to n remote sites

```
ncli pd set-schedule name=PD NAME interval=seconds  
retention-policy=POLICY remote-sites=REMOTE SITE NAME
```

List Replication Status

Description: Monitor replication status

```
ncli pd list-replication-status
```

Migrate Protection Domain to Remote Site

Description: Fail-over a protection domain to a remote site

```
ncli pd migrate name=PD NAME remote-site=REMOTE SITE NAME
```

Activate Protection Domain

Description: Activate a protection domain at a remote site

```
ncli pd activate name=PD NAME
```

Check Cluster Resiliency Status

Node status

```
ncli cluster get-domain-fault-tolerance-status type=node
```

Block status

```
ncli cluster get-domain-fault-tolerance-status type=rackable_unit
```

Unregister cluster from Prism Central

```
ncli multicluster remove-from-multicluster username=admin  
password=0t1s1sgr8@ external-ip-address-or-svm-ips=<PC-address>
```