



NetApp

Element CLI Tools Release Notes

Version 1.7

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 **NetApp**[®]

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About these release notes

These release notes describe the features of CLI Tools, and provide information about the prerequisites for using the tool and software components that CLI Tools supports. The release notes also include a list of commands that you can use in CLI Tools.

Support matrix

CLI Tools support specific releases of software and operating systems.

Support matrix

Component	Version
NetApp Element	9.0 and later
Python	<ul style="list-style-type: none">• Python 2: 2.7 and later• Python 3: 3.5 or later
Operating system	<ul style="list-style-type: none">• Windows 7, 8, and 10• macOS• Linux

New in this release

CLI Tools 1.7 includes new features and enhancements.

ClusterAdmin commands

Starting with release 1.7, a new set of ClusterAdmin commands are supported. These include:

- DeleteAuthSession
- DeleteAuthSessionsBy
- DeleteAuthSessionsByUsername
- ListActiveAuthSessions
- ListAuthSessionsBy
- ListAuthSessionsByUsername

Cluster commands

Starting with release 1.7, a new set of Cluster commands are supported. These include:

- DisableMaintenanceMode
- EnableMaintenanceMode
- GetBinAssignmentProperties
- GetLicenseKey
- GetProtectionDomainLayout
- SetLicenseKey
- SetProtectionDomainLayout

IdP commands

Starting with release 1.7, a new set of Identity Provider (IdP) commands are supported. These include:

- AddIdpClusterAdmin
- CreateIdpConfiguration
- DeleteIdpConfiguration
- DisableIdpAuthentication
- EnableIdpAuthentication
- GetIdpAuthenticationState
- ListIdpConfigurations
- UpdateIdpConfiguration

SnapMirror commands

Starting with release 1.7, a new set of SnapMirror commands are supported. These include:

- AbortRelationship
- BreakRelationship
- BreakVolume
- CreateEndpoint
- CreateEndpointUnmanaged
- CreateRelationship
- CreateVolume
- DeleteEndpoints
- DeleteRelationships
- GetClusterIdentity

New in this release

- GetOntapVersionInfo
- InitializeRelationship
- ListAggregates
- ListEndpoints
- ListLuns
- ListNetworkInterfaces
- ListNodes
- ListPolicies
- ListRelationships
- ListSchedules
- ListVolumes
- ListVservers
- ModifyEndpoint
- ModifyEndpointUnmanaged
- ModifyRelationship
- QuiesceRelationship
- ResumeRelationship
- ResyncRelationship
- UpdateRelationship

Known issues

This section includes information about issues that are known to affect functionality in this release of CLI Tools.

Unable to pass blank strings for command options

You cannot include blank strings for any of the `sfcli` command options.

Workaround

Use a character that represents a blank; for example, underscore (`_`) or asterisks (`*`).

Unsupported APIs

The following APIs are not supported or have known issues in the Element CLI version 1.6 release.

API Name	Description
SetClusterStructure	<p>Input parameters with empty data might result in structure failure. Use the following commands to restore the cluster structure.</p> <ol style="list-style-type: none">1. Save the response of <code>GetClusterStructure</code> in a json file: <pre>sfcli --mvip <ip> --username <user> --password <pwd> -j cluster getstructure > getStructureResp.json</pre>2. Remove the "id" and "result" fields from the <code>getStructureResp.json</code> file. Only keep the value for the "result" field. Before: { "id" : 1, "result" : { "key1" : "vall", ... } } After: { "key1" : "vall", ... }3. Use the response from <code>GetStructure</code> to restore the cluster structure: <pre>cat ./getStructureResp.json xargs -0 sfcli --mvip <ip> --username <user> --password <pwd> SFApi Invoke --method SetClusterStructure --parameters</pre>
CheckPingOnVlan	The SDK is unable to parse the response received from the cluster.

CLI Tools overview

CLI Tools is a command-line interface from which you can control a SolidFire storage system without having to use the Element API. CLI Tools provides an easy interface that enables storage administrators to query for information, make changes to objects in a storage system, and perform common storage system tasks. Users who are familiar with using shell or command-line based configuration interfaces can take advantage of CLI Tools.

CLI Tools includes the following features:

- Coverage of 87 percent of SolidFire API methods
- Inline help system for commands
- Capability on Windows, macOS, and Linux operating systems to automatically populate command syntax
- Ability to provide responses to commands in three output formats: tree, JSON, and pickle

Support matrix

The tool supports the following software and operating systems:

Component	Version
NetApp Element	9.0 and later
Python	<ul style="list-style-type: none">• Python 2: 2.7 and later• Python 3: 3.3 or later
Operating system	<ul style="list-style-type: none">• Windows 7, 8, and 10• macOS• Linux

List of commands

This section lists all the commands that you can run in CLI Tools.

A

account add
account getbyid
account getbyname
account getefficiency
account list
account modify
account remove
async getresult
async listresults

B

backuptarget create
backuptarget get

backuptarget list
backuptarget modify
backuptarget remove

C

clusteradmin add
clusteradmin deleteauthsession
clusteradmin deleteauthsessionsby
clusteradmin deleteauthsessionsbyusername
clusteradmin getcurrent
clusteradmin getloginbanner
clusteradmin list
clusteradmin listactiveauthsessions
clusteradmin listactiveauthsessionsby
clusteradmin listactiveauthsessionsbyusername
clusteradmin modify
clusteradmin remove
clusteradmin setloginbanner
cluster checkproposednodeadditions
cluster clearfaults
cluster create
cluster createinterfacepreference
cluster createsupportbundle
cluster deleteinterfacepreference
cluster deleteallsupportbundles
cluster disableencryptionatrest
cluster disablemaintenancemode
cluster enableencryptionatrest
cluster enablemaintenancemode
cluster getactivetlsciphers
cluster getapi
cluster getbinassignmentproperties
cluster getcapacity
cluster getcompletestats
cluster getconfig
cluster getfullthreshold

cluster getinfo
cluster getinterfacepreference
cluster getlicensekey
cluster getlimits
cluster getmasternodeid
cluster getntpinfo
cluster getprotectiondomainlayout
cluster getrawstats
cluster getsslcertificate
cluster getstate
cluster getstats
cluster getstructure
cluster getsupportedtsciphers
cluster getsystemstatus
cluster getversioninfo
cluster listevents
cluster listfaults
cluster listinterfacepreferences
cluster listprotectiondomainlevels
cluster listsyncjobs
cluster modifyfullthreshold
cluster modifyinterfacepreference
cluster removesslcertificate
cluster resetsupplementaltsciphers
cluster setconfig
cluster setlicensekey
cluster setntpinfo
cluster setprotectiondomainlayout
cluster setsslcertificate
cluster setstructure
cluster setsupplementaltsciphers
cluster testaddressavailability

D

drive add
drive getconfig

drive gethardwareinfo
drive getstats
drive list
drive listhardware
drive liststats
drive remove
drive reset
drive secureerase
drive test

H

hardware disablebmccoldreset
hardware enablebmccoldreset
hardware getclusterinfo
hardware getconfig
hardware getinfo
hardware getnodeinfo
hardware getnvraminfo

I

idp addidpclusteradmin
idp createidpconfiguration
idp deleteidpconfiguration
idp disableidpauthentication
idp enableidpauthentication
idp getidpauthenticationstate
idp listidpconfigurations
idp updateidpconfiguration
initiators addtovolumeaccessgroup
initiators create
initiators delete
initiators list
initiators modify
initiators removefromvolumeaccessgroup
invoke

L

ldap addclusteradmin
ldap disableauthentication
ldap enableauthentication
ldap getconfiguration
ldap testauthentication
lldp getconfig
lldp setconfig
logging getloginsessioninfo
logging getremotehosts
logging setloginsessioninfo
logging setremotehosts

N

network listfibrechannelportinfo
network listfibrechannelsessions
network listinterfaces
network listiscsisessions
network listnodefibrechannelportinfo
node add
node checkproposedcluster
node controlpower
node getactivetlsciphers
node getbootstrapconfig
node getconfig
node getfipsdrivesreport
node getnetworkconfig
node getorigin
node getpendingoperation
node getsslcertificate
node getstats
node getsupportedtlsciphers
node listactive
node listall
node listpending
node listpendingactive

node liststats
node remove
node removesslcertificate
node resetsupplementaltlsciphers
node setsslcertificate
node setsupportedtlsciphers

P

pairing completecluster
pairing completevolume
pairing listactivepairedvolumes
pairing listclusterpairs
pairing modifyvolumepair
pairing removeclusterpair
pairing removevolumepair
pairing startcluster
pairing startvolume

R

restart networking
restart resetnode
restart shutdown

S

schedule get
schedule list
security addkeyservertoproviderkmip
security createkeyproviderkmip
security createkeyserverkmip
security createpublicprivatekeypair
security deletekeyproviderkmip
security deletekeyserverkmip
security getclientcertificatesignrequest
security getfipsreport
security getkeyproviderkmip
security getkeyserverkmip
security listkeyproviderskmip

security listkeysserverskmip
security modifykeyserverkmip
security removekeyserverfromproviderkmip
security testkeyproviderkmip
security testkeyserverkmip
sensors getipmiconfig
sensors getipmiinfo
service list
service restart
snapmirror abortrelationship
snapmirror breakrelationship
snapmirror breakvolume
snapmirror createendpoint
snapmirror createendpointunmanaged
snapmirror createrelationship
snapmirror createvolume
snapmirror deleteendpoints
snapmirror deleterelationships
snapmirror getclusteridentity
snapmirror getontapversioninfo
snapmirror initializerelationship
snapmirror listaggregates
snapmirror listendpoints
snapmirror listluns
snapmirror listnetworkinterfaces
snapmirror listnodes
snapmirror listpolicies
snapmirror listrelationships
snapmirror listschedules
snapmirror listvolumes
snapmirror listvservers
snapmirror modifyendpoint
snapmirror modifyendpointunmanaged
snapmirror modifyrelationship
snapmirror quiescerelationship

snapmirror resumerelease
snapmirror resyncrelationship
snapmirror updaterelationship
snapshot create
snapshot creategroup
snapshot createschedule
snapshot delete
snapshot deletegroup
snapshot list
snapshot listgroup
snapshot modify
snapshot modifygroup
snapshot modifyschedule
snapshot rollbackto
snapshot rollbacktogroup
snmp disable
snmp enable
snmp getacl
snmp getinfo
snmp getstate
snmp gettrapinfo
snmp sendtesttraps
snmp setacl
snmp setinfo
snmp settrapinfo
ssh disableclusterssh
ssh disablessh
ssh enableclusterssh
ssh enablessh
ssh getclustersshinfo
ssh getsshinfo
storagecontainer create
storagecontainer delete
storagecontainer getefficiency
storagecontainer list

storagecontainer modify

T

test connectensemble
test connectmvip
test connectsvip
test list
test listutilities
test ping

V

virtualnetwork add
virtualnetwork list
virtualnetwork modify
virtualnetwork remove
virtualvolume enablefeature
virtualvolume getcount
virtualvolume getfeaturestatus
virtualvolume list
virtualvolume listbindings
virtualvolume listhosts
virtualvolume listprotocolendpoints
virtualvolume listtasks
virtualvolume listvolumestatsby
volume addtoaccessgroup
volume cancelclone
volume cancelgroupclone
volume clone
volume clonemultiple
volume copy
volume create
volume createqospolicy
volume delete
volume deleteqospolicy
volume getcount
volume getdefaultqos

volume getefficiency
volume getqospolicy
volume getstats
volume list
volume listactive
volume listbulkjobs
volume listdeleted
volume listforaccount
volume listqoshistograms
volume listqospolicies
volume liststats
volume liststatsby
volume liststatsbyaccessgroup
volume liststatsbyaccount
volume modify
volume modifyqospolicy
volume purgedeleted
volume removefromaccessgroup
volume restoredeleted
volume setdefaultqos
volume startbulkread
volume startbulkwrite
volume updatebulkstatus
volumeaccessgroup create
volumeaccessgroup delete
volumeaccessgroup getefficiency
volumeaccessgroup getlunassignments
volumeaccessgroup list
volumeaccessgroup modify
volumeaccessgroup modifylunassignments

Where to find product documentation and other information

You can learn more about using and managing NetApp HCI and SolidFire all-flash storage from the resources available in the Documentation Centers and Resources pages for both products.

In the Documentation Centers, you can also find information about hardware installation and maintenance, additional content resources available, links to known issues and resolved issues, and the latest release notes. On the Resources pages, you can find links to data sheets, technical reports, white papers, and videos.

- [*NetApp HCI Documentation*](#)
- [*NetApp HCI Documentation Center*](#)
- [*NetApp HCI Resources page*](#)
- [*SolidFire and Element 12.2 Documentation Center*](#)
- [*SolidFire and Element 12.0 Documentation Center*](#)
- [*SolidFire and Element 11.8 Documentation Center*](#)
- [*SolidFire and Element 11.7 Documentation Center*](#)
- [*SolidFire and Element 11.5 Documentation Center*](#)
- [*SolidFire Resources page*](#)

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If you need help with or have questions or comments about NetApp products, contact NetApp Support.

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