



# Sun StorageTek™ Operations Manager 6.0 CLI Guide

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Adobe PostScript

# Contents

---

**Contents**   iii

**Tables**   xxxiii

**Revision History**   xxxv

**Preface**   xxxvii

**1. Overview of the CLI**   1

Before Using the CLI   2

Accessing the CLI Help from the CLI   3

About Error Codes   4

    Accessing Error Codes   4

**2. Installing the CLI**   5

Installing the CLI on Microsoft Windows   5

Installing the CLI on Sun Solaris   6

Installing the CLI on Linux   8

Installing the CLI on IBM AIX   9

Upgrading the CLI   11

Removing the CLI   11

### 3. CLI Commands 13

CLI Version 14

Applications 14

appiqlist -application -all 15

appiqlist -application <id> 15

appiqlist -application -database -all 15

appiqlist -application -exchange -all 15

appiqlist -application -virtual -all 15

appiqshow -application <id> 16

appiqshow -application -all 16

appiqshow -application -database -all 16

appiqshow -application -exchange -all 16

appiqshow -application -virtual -all 16

appiqstats -application -all 16

appiqstats -application <id> 16

Backups 17

appiqlist -backup -backupmanager -all 17

appiqlist -backup -backupmanager <ID> 18

appiqlist -backup -backupmanager <ID> -all 18

appiqlist -backup -backupmanager <ID>  
-mediamanager 18

appiqlist -backup -backupmanager <ID> -schedule 18

appiqlist -backup -backupmanager <ID> -job -all 18

appiqlist -backup -backupmanager <ID> -job -success 19

appiqlist -backup -backupmanager <ID> -job -failure 19

appiqlist -backup -backupmanager <ID> -job -partial 19

appiqlist -backup -backupmanager <ID> -mediapool 19

appiqlist -backup -backupmanager <ID> -media 19

appiqlist -backup -backupmanager <ID> -policy 20

```

appiqlist -backup -backupmanager <ID> -client 20
appiqlist -backup -mediamanager <ID> 20
appiqlist -backup -mediamanager <ID> -tapelibrary 20
appiqlist -backup -mom -all 20
appiqlist -backup -mom <ID> 21
appiqshow -backup -backupmanager -all 21
appiqshow -backup -backupmanager <ID> 21
appiqshow -backup -backupmanager <ID> -all 21
appiqshow -backup -backupmanager <ID>
    -mediamanager 21
appiqshow -backup -backupmanager <ID> -schedule 22
appiqshow -backup -backupmanager <ID> -job -all 22
appiqshow -backup -backupmanager <ID> -job -success 22
appiqshow -backup -backupmanager <ID> -job -failure 22
appiqshow -backup -backupmanager <ID> -job -partial 23
appiqshow -backup -backupmanager <ID> -mediapool 23
appiqshow -backup -backupmanager <ID> -media 23
appiqshow -backup -backupmanager <ID> -policy 23
appiqshow -backup -backupmanager <ID> -client 24
appiqshow -backup -mediamanager <ID> 24
appiqshow -backup -mediamanager <ID> -tapelibrary 24
appiqshow -backup -mom -all 24
appiqshow -backup -mom <ID> 24
Configuration 25
appiqadd -configuration -discovery -name <Schedule Name> -description
    <text> -nextrun <date@time> -interval <frequency@duration> -
    discoverygroup
    <ids> [-infrastructure -backup -refresh -enable] 25
appiqconfig -logout 25
appiqconfig -default [-server <IPAddress/DNS name>] 25

```

```

appiqedit -configuration -backup -imagecollection <id> -nextrun
    <date@time> -interval <frequency@duration> -enable 25

appiqedit -configuration -discovery <id> -name <Schedule Name> -
    description
    <text> -nextrun date@time -interval <frequency@duration> -
    discoverygroup
    <ids> [-enable] 26

appiqedit -configuration -performance -dataaging <id> -nextrun
    <date@time> -interval <frequency@duration> [-enable] 26

appiqedit -configuration -performance -datacollection <id> -nextrun
    date@time -interval <frequency@duration> -enable 26

appiqedit -configuration -producthealth -diskspace
    -nextrun date@time -interval <frequency@duration> [-enable] 26

appiqedit -configuration -producthealth -logfile -nextrun
    <date@time> -interval <frequency@duration> [-enable] 27

appiqedit -configuration -producthealth -rmanbackup -nextrun
    date@time -interval <frequency@duration> [-enable] 27

appiqedit -configuration -reports -cache -nextrun <date@time>
    -interval <frequency@duration> -enable 27

appiqedit -configuration -reports -cleanup -nextrun <date@time>
    -interval <frequency@duration> -enable 27

appiqedit -configuration -reports -dataaging <id> -nextrun
    <date@time> -interval <frequency@duration> -enable 28

appiqedit -configuration -reports -datacollection <id> -nextrun
    <date@time> -interval <frequency@duration> -enable 28

appiqrgrun -configuration -reports -globalreporter 28

appiqedit -configuration -reports -globalreporter
    -nextrun
    <date@time> -interval <frequency@duration> -enable 28

appiqedit -configuration -reports -scheduleddeliveries <id> -emailaddress
    <xxxx@xx.com> -subject <text> -message <text> -format
    <pdf/xml/excel>
    -starttime <hh:mm> -schedule <daily> -frequency
    <everyday/weekdays/1@days>
    -schedule <weekly> -frequency <Sunday/Monday.....> -schedule
    <monthly>
    -frequency <firstday/lastday/1@dayofmonth> [organization <id>] 28

```

appiqlist -configuration -backup -imagecollection 29  
 appiqlist -configuration -backup -imagecollection <id> 29  
 appiqlist -configuration -discovery 29  
 appiqlist -configuration -discovery <id> 29  
 appiqlist -configuration -performance -dataaging 30  
 appiqlist -configuration -performance -dataaging <id> 30  
 appiqlist -configuration -performance -datacollection 30  
 appiqlist -configuration -performance -datacollection <id> 30  
 appiqlist -configuration -producthealth -diskspace 30  
 appiqlist -configuration -producthealth -logfile 30  
 appiqlist -configuration -producthealth -rmanbackup 31  
 appiqlist -configuration -reports -cache 31  
 appiqlist -configuration -reports -cleanup 31  
 appiqlist -configuration -reports -dataaging 31  
 appiqlist -configuration -reports -dataaging <id> 31  
 appiqlist -configuration -reports -datacollection 31  
 appiqlist -configuration -reports -datacollection <id> 31  
 appiqlist -configuration -reports -globalreporter 32  
 appiqlist -configuration -reports -scheduleddeliveries 32  
 appiqlist -configuration -reports -scheduleddeliveries <id> 32  
 appiqlist -configuration -server -address 32  
 appiqrn -configuration -backup -imagecollection <ids> 32  
 appiqrn -configuration -performance -datacollection <ids> 32  
 appiqrn -configuration -reports -datacollection <ids> 33  
 appiqrn -configuration -reports -cache 33  
 appiqshow -configuration -backup -imagecollection 33  
 appiqshow -configuration -backup -imagecollection <id> 33  
 appiqshow -configuration -discovery 33

appiqshow -configuration -discovery <id> 33  
 appiqshow -configuration -performance -dataaging 34  
 appiqshow -configuration -performance -dataaging <id> 34  
 appiqshow -configuration -performance -datacollection 34  
 appiqshow -configuration -performance -datacollection <id> 34  
 appiqshow -configuration -producthealth -diskspace 34  
 appiqshow -configuration -producthealth -logfile 34  
 appiqshow -configuration -producthealth -rmanbackup 35  
 appiqshow -configuration -reports -cache 35  
 appiqshow -configuration -reports -cleanup 35  
 appiqshow -configuration -reports -dataaging 35  
 appiqshow -configuration -reports -dataaging <id> 35  
 appiqshow -configuration -reports -datacollection 35  
 appiqshow -configuration -reports -datacollection <id> 35  
 appiqshow -configuration -reports -globalreporter 36  
 appiqshow -configuration -reports -scheduleddeliveries 36  
 appiqshow -configuration -reports -scheduleddeliveries <id> 36  
 appiqshow -configuration -server -address 36  
 appiqstop -configuration -backup -imagecollection <ids> 36  
 appiqstop -configuration -performance -datacollection <ids> 36  
 appiqstop -configuration -reports -datacollection <ids> 37  
 Discovery 37  
 appiqadd -domaindiscovery -address <ip/DNS Name> -username <name>  
           -password <pwd> -Comment <text> 37  
 appiqadd -domaindiscovery -iprange -fromaddress <ip/DNS Name> -  
           toaddress  
           <ip/DNS Name> -username <name> -password <pwd> -comment  
           <text> 37



appiqcreate -domaindiscovery -application -databaseinfo  
     -address <ip/DNS Name> -managementaddress <ip/DNS Name> -  
     server  
     <appiq> -port <number> -type <oracle/sybase/sql> 38

appiqcreate -domaindiscovery -application -domaincontrollerinfo  
     -domain <Name> -domaincontroller <name> -username <name> -  
     password  
     <pwd> [-primary] 38

appiqcreate -domaindiscovery -application -tnslisterport <port number>  
     38

appiqdelete -domaindiscovery -accesspoint <ids> 38

appiqdelete -domaindiscovery -accesspoint -all 38

appiqdelete -domaindiscovery -address <ids> 39

appiqdelete -domaindiscovery -address -all 39

appiqdelete -domaindiscovery -application -databaseinfo -address  
     <IP/DNS Name> -server <Database Server Name> -port <port number>  
     -type <Oracle/SYBASE/SQLServer/CacheDB> 39

appiqdelete -domaindiscovery -application -domaincontrollerinfo <id> 39

appiqdelete -domaindiscovery -application -tnslisterport <port number>  
     39

appiqdelete -domaindiscovery -credential -username 40

appiqdelete -domaindiscovery -credential -all 40

appiqdiscover -domaindiscovery -address <ids> [-sync] 40

appiqdiscover -domaindiscovery -address -all [-sync] 40

appiqdiscover -domaindiscovery -details -all 40

appiqdiscover -domaindiscovery -details -backup 40

appiqdiscover -domaindiscovery -details -discoverygroup <ids>  
     [-infrastructure -backup -refresh -sync] 41

appiqdiscover -domaindiscovery -details -stop 41

appiqdiscover -domaindiscovery -refresh -fabric <fabric id> 41

appiqdiscover -domaindiscovery -refresh -host <host id> 41

appiqdiscover -domaindiscovery -refresh -storagesystem <storage system  
     id> 42

appiqdiscover -domaindiscovery -refresh -switch <switch id> 42  
 appiqdiscover -domaindiscovery -test -address <id> [-sync] 42  
 appiqdiscover -domaindiscovery -topology [-sync] 42  
 appiqdiscover -domaindiscovery -topology -discoverygroup <ids> [-sync]  
 42  
 appiqfetch -domaindiscovery -file <file name> [-password <password>] 43  
 appiqlist -domaindiscovery -accesspoint <id> 43  
 appiqlist -domaindiscovery -accesspoint -all 43  
 appiqlist -domaindiscovery -address <id> 43  
 appiqlist -domaindiscovery -address -all 43  
 appiqlist -domaindiscovery -application -all 43  
 appiqlist -domaindiscovery -application -databaseinfo 43  
 appiqlist -domaindiscovery -application -DomainControllerinfo 44  
 appiqlist -domaindiscovery -application -tnslistenerport 44  
 appiqlist -domaindiscovery -credentials 44  
 appiqlist -domaindiscovery -discoverygroup <id> 44  
 appiqlist -domaindiscovery -discoverygroup -all 44  
 appiqmove -domaindiscovery -discoverygroup <id> -accesspoint <id> 44  
 appiqsave -domaindiscovery -password <password> [-path <directory path  
 name>] 45  
 appiqset -domaindiscovery -address <id> -username <name> -password  
 <pwd> -Comment <text> 45  
 appiqset -domaindiscovery -credential -username <name>  
 -password <password> 45  
 appiqshow -domaindiscovery -accesspoint <id> 45  
 appiqshow -domaindiscovery -accesspoint -all 45  
 appiqshow -domaindiscovery -address <id> 46  
 appiqshow -domaindiscovery -address -all 46  
 appiqshow -domaindiscovery -application -all 46  
 appiqshow -domaindiscovery -application -databaseinfo 46

appiqshow -domaindiscovery -application -DomainControllerinfo 46  
 appiqshow -domaindiscovery -application -tnslistnerport 46  
 appiqshow -domaindiscovery -credentials 46  
 appiqshow -domaindiscovery -discoverygroup <id> 47  
 appiqshow -domaindiscovery -discoverygroup -all 47  
 Domains 47  
 appiqlist -domain -path 47  
 appiqshow -domain -path 47  
 Events 47  
 appiqlist -event -all 48  
 appiqlist -event <event id> 48  
 appiqlist -event -all -startdate <yyyy-mm-dd | today>  
     -starttime <hh:mm | now> -enddate  
     <yyyy-mm-dd | today> -endtime <hh:mm | now> 48  
 appiqlist -event -all -severity <severity> 48  
 appiqlist -event -all -severity <severity> -startdate  
     <yyyy-mm-dd | today> -starttime <hh:mm | now>  
     -enddate <yyyy-mm-dd | today> -endtime  
     <hh:mm | now> 49  
 appiqlist -event -all -type <eventType> -startdate  
     <yyyy-mm-dd | today> -starttime <hh:mm | now>  
     -enddate <yyyy-mm-dd | today> -endtime  
     <hh:mm | now> 50  
 appiqlist -event -all -severity <severity> -type  
     <eventType> -startdate <yyyy-mm-dd | today>  
     -starttime <hh:mm | now> -enddate <yyyy-mm-dd  
     | today> -endtime <hh:mm | now> 50  
 appiqlist -event -all -elementtype <element type> 51  
 appiqlist -event -all -elementtype <element type>  
     -severity <severity> 52  
 appiqlist -event -all -elementtype <element type>  
     -startdate <yyyy-mm-dd | today> -starttime  
     <hh:mm | now> -enddate <yyyy-mm-dd | today>  
     -endtime <hh:mm | now> 52

```

appiqlist -event -elementid <element id> 53
appiqlist -event -elementid <element id> -severity <severity> 53
appiqlist -event -elementid <element id> -startdate
    <yyyy-mm-dd | today> -starttime <hh:mm | now>
    -enddate <yyyy-mm-dd | today> -endtime
    <hh:mm | now> 53
appiqlist -event -elementid <element id> -severity
    <severity> -startdate <yyyy-mm-dd | today> -starttime
    <hh:mm | now> -enddate <yyyy-mm-dd | today>
    -endtime <hh:mm | now> 54
appiqlist -event -elementid <element id> -type
    <eventtype> -startdate <yyyy-mm-dd | today>
    -starttime <hh:mm | now> -enddate
    <yyyy-mm-dd | today> -endtime <hh:mm | now> 54
appiqlist -event -elementid <element id> -severity
    <severity> -type <eventtype> -startdate
    <yyyy-mm-dd | today> -starttime <hh:mm | now>
    -enddate <yyyy-mm-dd | today> -endtime
    <hh:mm | now> 55
appiqshow -event <event id> 55
appiqshow -event -all -elementtype <element type> 55
appiqshow -event -all -severity <severity> 56
appiqshow -event -all -elementtype <element type>
    -severity <severity> 56
appiqshow -event -all -elementtype <element type>
    -startdate <yyyy-mm-dd | today> -starttime
    <hh:mm | now> -enddate <yyyy-mm-dd | today>
    -endtime <hh:mm | now> 56
appiqshow -event -all -startdate <yyyy-mm-dd | today>
    -starttime <hh:mm | now> -enddate
    <yyyy-mm-dd | today> -endtime <hh:mm | now> 57
appiqshow -event -all -severity <severity> -startdate
    <yyyy-mm-dd | today> -starttime <hh:mm | now>
    -enddate <yyyy-mm-dd | today> -endtime
    <hh:mm | now> 57

```

```

appiqshow -event -all -type <eventtype> -startdate
    <yyyy-mm-dd | today> -starttime <hh:mm | now>
    -enddate <yyyy-mm-dd | today> -endtime
    <hh:mm | now> 58

appiqshow -event -all -severity <severity> -type
    <eventtype> -startdate <yyyy-mm-dd | today> -starttime
    <hh:mm | now> -enddate <yyyy-mm-dd | today>
    -endtime <hh:mm | now> 58

appiqshow -event -elementid <element id> 59

appiqshow -event -elementid <element id> -severity <severity> 59

appiqshow -event -elementid <element id>
    -startdate <yyyy-mm-dd | today> -starttime
    <hh:mm | now> -enddate <yyyy-mm-dd | today>
    -endtime <hh:mm | now> 59

appiqshow -event -elementid <element id> -severity
    <severity> -startdate <yyyy-mm-dd | today> -starttime
    <hh:mm | now> -enddate <yyyy-mm-dd | today>
    -endtime <hh:mm | now> 60

appiqshow -event -elementid <element id> -type
    <eventtype> -startdate <yyyy-mm-dd | today> -starttime
    <hh:mm | now> -enddate <yyyy-mm-dd | today>
    -endtime <hh:mm | now> 60

appiqshow -event -elementid <element id> -severity
    <severity> -type <eventtype> -startdate
    <yyyy-mm-dd | today> -starttime <hh:mm | now>
    -enddate <yyyy-mm-dd | today> -endtime
    <hh:mm | now> 61

appiqclear -event <event id> 61

appiqclear -event -all 61

appiqclear -event -all -startdate <yyyy-mm-dd | today>
    -starttime <hh:mm | now> -enddate
    <yyyy-mm-dd | today> -endtime <hh:mm | now> 62

appiqclear -event -all -severity <severity> 62

appiqclear -event -all -severity <severity> -startdate
    <yyyy-mm-dd | today> -starttime <hh:mm | now>
    -enddate <yyyy-mm-dd | today> -endtime
    <hh:mm | now> 62

```

```

appiqdelete -event <event id> 63
appiqdelete -event -all 63
appiqdelete -event -all -severity <severity> 63
appiqdelete -event -all -startdate
    <yyyy-mm-dd | today> -starttime <hh:mm | now>
    -enddate <yyyy-mm-dd | today> -endtime <hh:mm | now> 63
appiqdelete -event -all -severity <severity> -startdate
    <yyyy-mm-dd | today> -starttime <hh:mm | now>
    -enddate <yyyy-mm-dd | today> -endtime
    <hh:mm | now> 64
appiqdelete -event -elementid <element id> 64
appiqdelete -event -elementid <element id> -severity
    <severity> 64
appiqdelete -event -elementid <element id> -severity
    <severity> -startdate <yyyy-mm-dd | today>
    -starttime <hh:mm | now> -enddate
    <yyyy-mm-dd | today> -endtime <hh:mm | now> 65

```

#### Export to Visio 65

```

appiqexport -topologylayout -path <c:/xmls> -system 65
appiqexport -topologylayout -path <c:/xmls> -backup 65

```

#### Fabrics 66

```

appiqlist -fabric -all 66
appiqlist -fabric -all -device 66
appiqlist -fabric -all -application 66
appiqlist -fabric -all -host 67
appiqlist -fabric -all -port 67
appiqlist -fabric -all -switch 68
appiqlist -fabric -all -storagesystem 68
appiqlist -fabric -all -tapelibrary 69
appiqlist -fabric -all -zoneset 69
appiqlist -fabric -all -zone 69
appiqlist -fabric -all -zonealias 70

```

appiqlist -fabric <fabric id> 70  
appiqlist -fabric <fabric id> -device 70  
appiqlist -fabric <fabric id> -application 71  
appiqlist -fabric <fabric id> -host 71  
appiqlist -fabric <fabric id> -port 71  
appiqlist -fabric <fabric id> -switch 72  
appiqlist -fabric <fabric id> -storagesystem 72  
appiqlist -fabric <fabric id> -tapelibrary 72  
appiqlist -fabric <fabric id> -zoneset 73  
appiqlist -fabric <fabric id> -zone 73  
appiqlist -fabric <fabric id> -zonealias 73  
appiqset -fabric <fabric id> -customname <new name> 73  
appiqshow -fabric -all 73  
appiqshow -fabric -all -device 74  
appiqshow -fabric -all -application 74  
appiqshow -fabric -all -host 74  
appiqshow -fabric -all -port 74  
appiqshow -fabric -all -switch 74  
appiqshow -fabric -all -storagesystem 74  
appiqshow -fabric -all -tapelibrary 74  
appiqshow -fabric -all -zoneset 75  
appiqshow -fabric -all -zone 75  
appiqshow -fabric -all -zonealias 75  
appiqshow -fabric <fabric id> 75  
appiqshow -fabric <fabric id> -device 75  
appiqshow -fabric <fabric id> -application 75  
appiqshow -fabric <fabric id> -host 76  
appiqshow -fabric <fabric id> -port 76

appiqshow -fabric <fabric id> -switch 76  
appiqshow -fabric <fabric id> -storagesystem 76  
appiqshow -fabric <fabric id> -tapelibrary 77  
appiqshow -fabric <fabric id> -zoneset 77  
appiqshow -fabric <fabric id> -zone 77  
appiqshow -fabric <fabric id> -zonealias 77

## Hosts 77

appiqdelete -device -host <id> [-accesspoint] 78  
appiqlist -device -host -all 78  
appiqlist -device -host <id> 78  
appiqlist -device -host <id> -all 79  
appiqlist -device -host <id> -port 79  
appiqlist -device -host <id> -application 79  
appiqlist -device -host <id> -hba 80  
appiqlist -device -host <id> -targetmapping 80  
appiqlist -device -host <id> -diskdrive 80  
appiqlist -device -host <id> -logicaldisk 81  
appiqlist -device -host <id> -volume 81  
appiqlist -device -host <id> -partition 81  
appiqlist -device -host <id> -multipathdevice 81  
appiqlist -device -host <id> -processor 81  
appiqset -device -host <id> -customname  
    <new name> 82  
appiqshow -device -host -all 82  
appiqshow -device -host <id> 82  
appiqshow -device -host <id> -all 82  
appiqshow -device -host <id> -port 82  
appiqshow -device -host <id> -application 83  
appiqshow -device -host <id> -hba 83



appiqshow -device -host <id> -targetmapping 83  
 appiqshow -device -host <id> -diskdrive 83  
 appiqshow -device -host <id> -logicaldisk 83  
 appiqshow -device -host <id> -volume 84  
 appiqshow -device -host <id> -partition 84  
 appiqshow -device -host <id> -multipathdevice 84  
 appiqshow -device -host <id> -processor 84  
 appiqstats -device -host -all 84  
 appiqstats -device -host <id> 84  
 appiqstats -device -host <id> -logicaldisk 85

## Host Security Groups 85

appiqlist -hostsecuritygroup <hostsecuritygroup id> 85  
 appiqlist -hostsecuritygroup <hostsecuritygroup id>  
     -all 85  
 appiqlist -hostsecuritygroup <hostsecuritygroup id>  
     -port 86  
 appiqlist -hostsecuritygroup <hostsecuritygroup id>  
     -volume 86  
 appiqlist -hostsecuritygroup <hostsecuritygroup id>  
     -initiator 86  
 appiqlist -hostsecuritygroup <hostsecuritygroup id> -lun 87  
 appiqlist -hostsecuritygroup <hostsecuritygroup id> -hid 87  
 appiqlist -hostsecuritygroup <hostsecuritygroup id> -subordinate 87  
 appiqlist -hostsecuritygroup <hostsecuritygroup id> -maskingcapabilities  
     87  
 appiqshow -hostsecuritygroup  
     <hostsecuritygroup id> 88  
 appiqshow -hostsecuritygroup <hostsecuritygroup id> -all 88  
 appiqshow -hostsecuritygroup  
     <hostsecuritygroup id> -port 88

```

appiqshow -hostsecuritygroup
    <hostsecuritygroup id> -volume 88

appiqshow -hostsecuritygroup <hostsecuritygroup id> -initiator 89

appiqshow -hostsecuritygroup
    <hostsecuritygroup id> -lun 89

appiqshow -hostsecuritygroup
    <hostsecuritygroup id> -hid 89

appiqshow -hostsecuritygroup
    <hostsecuritygroup id> -subordinate 89

appiqshow -hostsecuritygroup
    <hostsecuritygroup id> -maskingcapabilities 90

appiqset -hostsecuritygroup <hostsecuritygroup id>
    -name <hostsecuritygroup name> 90

appiqset -hostsecuritygroup <hostsecuritygroup id>
    -hostmode <StorageClientSetting id> 90

appiqset -hostsecuritygroup <hostsecuritygroup id>
    -hostmode2 <String representing HostMode2 value> 91

appiqdelete -hostsecuritygroup
    <hostsecuritygroup id> 91

appiqadd -hostsecuritygroup <hostsecuritygroup id>
    -volume <list of volume ids> -deviceaccess
    <list of device access ids> 91

appiqadd -hostsecuritygroup <host security group
    id> - initiator <list of hba port ids> 92

appiqremove -hostsecuritygroup <host security
    group id> -volume <list of volume ids> 92

appiqremove -hostsecuritygroup <host security
    group id> - initiator <list of hba port ids> 93

appiqcreate -hostsecuritygroup <storage system
    id> -initiator <list of host port wwns | list of host port
    Ids> [-name <name>] 93

appiqcreate -hostsecuritygroup <storage system
    id> -port <list of storage system port ids> -initiator
    <list of host port wwns | list of host port Ids> [-name
    <name>] 93

```

appiqcreate -hostsecuritygroup <storage system  
id> -port <list of storage system ports> -initiator <list  
of host port wwns | list of host port Ids> -volume <list  
of volume ids> -deviceaccess <list of deviceaccess  
values> [-name <name>] 94

## NetApp NAS Devices 95

appiqlist -device -nashost -all 95  
appiqlist -device -nashost <id> 95  
appiqlist -device -nashost <id> -all 95  
appiqlist -device -nashost <id> -volume 96  
appiqlist -device -nashost <id> -volume <id> -quota 96  
appiqlist -device -nashost <id> -volume <id>  
-snapshot 96  
appiqlist -device -nashost <id> -volume <id> -share 96  
appiqlist -device -nashost <id> -volume <id> -qtree 96  
appiqlist -device -nashost <id> -diskdrive 96  
appiqlist -device -nashost <id> -aggregate 96  
appiqlist -device -nashost <id> -plex 97  
appiqlist -device -nashost <id> -raid 97  
appiqlist -fabric <id> -nashost 97  
appiqlist -fabric -all -nashost 97  
appiqshow -device -nashost -all 97  
appiqshow -device -nashost <id> -all 97  
appiqshow -device -nashost <id> 97  
appiqshow -device -nashost <id> -volume 97  
appiqshow -device -nashost <id> -volume <id> -quota 98  
appiqshow -device -nashost <id> -volume <id>  
-snapshot 98  
appiqshow -device -nashost <id> -volume <id> -share 98  
appiqshow -device -nashost <id> -volume <id> -qtree 98  
appiqshow -device -nashost <id> -diskdrive 98

appiqshow -device -nashost <id> -aggregate 98

appiqshow -device -nashost <id> -plex 99

appiqshow -device -nashost <id> -raid 99

appiqshow -fabric <id> -nashost 99

appiqshow -fabric -all -nashost 99

## Remote CIM Extensions Management 99

appiqinstall -agent -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 100

appiqinstall -ssh -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 100

appiqstart -agent -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 100

appiqstop -agent -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 100

appiqstatus -agent -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 101

appiqfetch -logs -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 101

appiqudate -agent -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 101

appiqfetch -config -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 101

appiqudate -config -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 102

appiquinstall -agent -username <username of host>  
-password <password of host> -hostname <IP address or DNS name of  
host> 102

## Reports 102

appiqlist -report -all 103

appiqlist -report -assetmanagement 103

appiqlist -report -chargebackmanager 103

appiqrund -report <id> -organization <ids> -startdate <date> -enddate <date>  
[-format <html, pdf> -path <dir>] 103

appiqshow -report -all 103

appiqshow -report -assetmanagement 104

appiqshow -report -chargebackmanager 104

## Element Specific Reports 104

appiqlist -report -application 104

appiqlist -report -applicationcluster 105

appiqlist -report -host 105

appiqlist -report -hostcluster 105

appiqlist -report -nas 105

appiqlist -report -switch 105

appiqlist -report -tapelibrary 105

appiqlist -report -storagesystem 105

appiqrund -report <id/name> -organization <ids>  
-element <id> [-format <html, pdf> -path <dir> ] 105

appiqshow -report -application 106

appiqshow -report -applicationcluster 106

appiqshow -report -host 106

appiqshow -report -hostcluster 106

appiqshow -report -nas 106

appiqshow -report -switch 106

appiqshow -report -tapelibrary 106

appiqshow -report -storagesystem 106

## Protection Explorer Reports 107

appiqlist -report -backupmanager 107

appiqrund -report <id> -organization <ids> -startdate <date> -enddate  
<date> [-format <html, pdf> -path <dir> ] 107

appiqrund -report <id> -organization <ids> -startdate <date> -enddate <date>  
-backupclients  
<all/unix/windows> -backupclient <id> -tapelibrary < id> -  
consfailedjobsno <1/2/3/4/5>  
[-format <html, pdf> -path <dir>] 107

appiqshow -report -backupmanager 108

## Global Reports 108

appiqlist -report -globalreports 108

appiqlist -report -globalreports -system 108

appiqlist -report -globalreports -system -application 108

appiqlist -report -globalreports -system -host 109

appiqlist -report -globalreports -system -storagesystem 109

appiqlist -report -globalreports -system -switch 109

appiqrund -report <id> -organization <ids> [-format <html, pdf> -path  
<dir>] 109

appiqshow -report -globalreports 109

appiqshow -report -globalreports -system 109

appiqshow -report -globalreports -system -application 109

appiqshow -report -globalreports -system -host 110

appiqshow -report -globalreports -system -storagesystem 110

appiqshow -report -globalreports -system -switch 110

## System Reports 110

appiqlist -report -system -all 111

appiqlist -report -system -application 111

appiqlist -report -system -cluster 112

appiqlist -report -system -events 112

appiqlist -report -system -fabric 112

appiqlist -report -system -fileservers 112

appiqlist -report -system -hba 112  
 appiqlist -report -system -host 112  
 appiqlist -report -system -nas 112  
 appiqlist -report -system -performance 112  
 appiqlist -report -system -storagesystem 113  
 appiqlist -report -system -switch 113  
 appiqrund -report <id> -organization <ids> [-format <html, pdf> -path <dir>  
 ] 113  
 appiqrund -report <id/name> -organization <ids> [-format <html, pdf> -path  
 <dir> ] 113  
 appiqrund -report <id> -organization <ids> -applicationtype  
 <all/database/exchange>  
 -startdate <date> -enddate <date> -interval  
 <raw/daily/weekly/monthly> -topn <1-n>  
 [-format <html, pdf> -path <dir> ] 113  
 appiqrund -report <id> -organization <ids> -fabric <fabric id/unknown>  
 [-format <html, pdf> -path <dir>] 113  
 appiqrund -report <id> -organization <ids> -startdate <date> -enddate <date>  
 -elementtype  
 <application/fabric/host/storagesystem/switch/tapelibrary/all> -  
 eventseverity  
 <critical/informational/major/minor/unknown/warning/all> [-format  
 <html, pdf> -path <dir>] 114  
 appiqrund -report <id> -organization <ids> -startdate <date> -enddate <date>  
 -interval <raw,daily,weekly,monthly> -os  
 <all,aix,altix,hp-ux,irix,linux,openvm,...> [-format <html, pdf> -path  
 <dir> ] 114  
 appiqrund -report <id> -organization <ids> -startdate <date> -enddate <date>  
 -interval  
 <raw/daily/weekly/monthly> -storagesystem <id> -storagepool | | -  
 storagevolume <id>  
 -storagecontroller <id> -storageFCPort <id> -diskdrive <id> -switchtype  
 <id> [-format <html, pdf>  
 -path <dir> ] 114  
 appiqrund -report <id> -organization <ids> -startdate <date> -enddate <date>  
 -vendor <all, 3par, clarion, hp-eva, hp-msa, hp-xp,...> [-format <html,  
 pdf> -path <dir> ] 115

```

appiqrund -report <id/name> -organization <ids> -switchvendor
    <all/qlogic/cnt/brocade/mcdata/cisco> [-format <html, pdf> -path
    <dir>] 115

appiqrund -report <id> -organization <ids> -topn <1...n> -fileserver <fileserver
    name>
    -fsrmvolume <volume name> -fsrmvolumerule <rule name> [-format
    <html, pdf> -path <dir> ] 115

appiqshow -report -system -all 115

appiqshow -report -system -application 115

appiqshow -report -system -cluster 116

appiqshow -report -system -events 116

appiqshow -report -system -fabric 116

appiqshow -report -system -fileserver 116

appiqshow -report -system -hba 116

appiqshow -report -system -host 116

appiqshow -report -system -nas 116

appiqshow -report -system -performance 116

appiqshow -report -system -storagesystem 117

appiqshow -report -system -switch 117

```

## Security 117

```

appiqadd -organization <id> -host <ids> -switch <ids> -storagesystem <ids>
    -application <ids>
    -tapelibrary <ids> -childorganization <ids> -volume <ids> 117

appiqcreate -organization -name <orgName> -description <text>
    -host <ids> -switch <ids> -storagesystem <ids> -tapelibrary <ids> -
    application <ids>
    -childorganization <ids> -volume <ids> 117

appiqdelete -organization <id> 118

appiqlist -user -all 118

appiqlist -user <user id> 118

appiqlist -user <user id> -role 118

appiqlist -user <user id> -organization 118

```



appiqlist -role -all 118  
 appiqlist -role <role id> 118  
 appiqlist -organization -all 119  
 appiqlist -organization <org id> 119  
 appiqlist -organization <org id> -element 119  
 appiqlist -organization <org id> -user 119  
 appiqlist -organization <org id> -childorganization 119  
 appiqremove -organization <id> -host <ids> -switch <ids> -storagesystem  
     <ids> -application <ids> -tapelibrary <ids> -childorganization <ids> -  
     volume <ids> 119  
 appiqset -organization <id> -name <orgName> -description <text>  
     -host <ids> -switch <ids> -storagesystem <ids> -application <ids> -  
     tapelibrary <ids>  
     -childorganization <ids> -volume <ids> 120  
 appiqshow -user -all 120  
 appiqshow -user <user id> 120  
 appiqshow -user <user id> -role 120  
 appiqshow -user <user id> -organization 120  
 appiqshow -role -all 120  
 appiqshow -role <role id> 121  
 appiqshow -organization - all 121  
 appiqshow -organization <org id> 121  
 appiqshow -organization <org id> -element 121  
 appiqshow -organization <org id> -user 121  
 appiqshow -organization <org id> -childorganization 121  
 Storage Pools 122  
 appiqlist -pool <pool id> 122  
 appiqlist -pool <pool id> -volume 122  
 appiqlist -pool <pool id> -storageextent 122  
 appiqlist -pool <pool id> -storagesetting 122

appiqshow -pool <pool id> 123  
 appiqshow -pool <pool id> -storagesetting 123  
 appiqshow -pool <pool id> -storageextent 123  
 appiqshow -pool <pool id> -volume 123  
 appiqcreate -pool <pool id 1>...<pool id n>  
     -storagesetting <storage settings id> -size  
     <size in MB> 123  
 appiqcreate -pool <pool id 1>...<pool id n> -extents  
     <extent id 1>...<extent id n> -storagesetting  
     <storage settings id> -size <size in MB> 124  
 appiqdelete -pool <pool id> 125  
 Sorting the Information Displayed 125  
     Sorting Hosts by Number of HBAs 125  
     Sort Storage Systems by Number of Fabrics Connected 126  
     Search Fabrics for Zone Sets with the Same Name 126  
     Sort All Zones in All Fabrics by Zone Name 127  
     Display Model Numbers of All Switches 127  
 Storage Systems 127  
     appiqdelete -device -storagesystem <storage system id> [-accesspoint] 128  
     appiqlist -device -storagesystem -all 128  
     appiqlist -device -storagesystem <storage system id> 128  
     appiqlist -device -storagesystem <storage system id>  
         -all 129  
     appiqlist -device -storagesystem <ssid> -port 129  
     appiqlist -device -storagesystem <ssid> -lun 129  
     appiqlist -device -storagesystem <ssid> -pool 130  
     appiqlist -device -storagesystem <ssid> -volume 130  
     appiqlist -device -storagesystem <ssid>  
         -storagecapability 130  
     appiqlist -device -storagesystem <ssid> -drive 130  
     appiqlist -device -storagesystem <ssid> -extent 131

appiqlist -device -storagesystem <ssid>  
     -hostsecuritygroup 131

appiqlist -device -storagesystem <ssid>  
     -maskingcapabilities 131

appiqlist -device -storagesystem <ssid>  
     -unmappedvolume 131

appiqlist -device -storagesystem <ssid>  
     -mappedvolume 132

appiqlist -device -storagesystem <ssid>  
     -storageclientsettings 132

appiqset -device -storagesystem <ssid>  
     -customname <new name> 132

appiqshow -device -storagesystem -all 132

appiqshow -device -storagesystem <ssid> 132

appiqshow -device -storagesystem <ssid> -all 133

appiqshow -device -storagesystem <ssid> -port 133

appiqshow -device -storagesystem <ssid> -lun 133

appiqshow -device -storagesystem <ssid> -pool 133

appiqshow -device -storagesystem <ssid> -volume 134

appiqshow -device -storagesystem <ssid>  
     -unmappedvolume 134

appiqshow -device -storagesystem <ssid>  
     -mappedvolume 134

appiqshow -device -storagesystem <ssid>  
     -storagecapability 135

appiqshow -device -storagesystem <ssid> -drive 135

appiqshow -device -storagesystem <ssid> -extent 135

appiqshow -device -storagesystem <ssid>  
     -hostsecuritygroup 135

appiqshow -device -storagesystem <ssid>  
     -maskingcapabilities 136

appiqshow -device -storagesystem <ssid>  
     -storageclientsettings 136

appiqstats -device -storagesystem -all 136  
appiqstats -device -storagesystem <ssid> 136  
appiqstats -device -storagesystem <ssid> -pool 136

#### Switches 137

appiqdelete -device -switch <switch id> [-accesspoint] 137  
appiqlist -device -switch -all 137  
appiqlist -device -switch <switch id> 138  
appiqlist -device -switch <switch id> -all 138  
appiqlist -device -switch <switch id> -port 138  
appiqlist -device -switch <switch id> -zonealias 139  
appiqlist -device -switch <switch id> -zone 139  
appiqlist -device -switch <switch id> -zoneset 139  
appiqset -device -switch <switch id> -customname  
    <new name> 139  
appiqshow -device -switch -all 140  
appiqshow -device -switch <switch id> 140  
appiqshow -device -switch <switch id> -all 140  
appiqshow -device -switch <switch id> -port 140  
appiqshow -device -switch <switch id> -zone 140  
appiqshow -device -switch <switch id> -zoneset 141  
appiqshow -device -switch <switch id> -zonealias 141  
appiqstats -device -switch -all 141  
appiqstats -device -switch <switch id> 141

#### Tape Libraries 141

appiqdelete -device -tapelibrary <library ID>  
    [-accesspoint] 142  
appiqlist -device -tapelibrary -all 142  
appiqlist -device -tapelibrary <library ID> 142  
appiqlist -device -tapelibrary <library ID> -all 142

appiqlist -device -tapelibrary <library ID> -port 142  
 appiqlist -device -tapelibrary <library ID>  
     -mediaaccessdevice 143  
 appiqlist -device -tapelibrary <library ID> -controller 143  
 appiqlist -device -tapelibrary <library ID>  
     -changerdevice 143  
 appiqset -device -tapelibrary <library ID>  
     -customname <new name> 143  
 appiqshow -device -tapelibrary -all 144  
 appiqshow -device -tapelibrary <library ID> 144  
 appiqshow -device -tapelibrary <library ID> -all 144  
 appiqshow -device -tapelibrary <library ID> -port 144  
 appiqshow -device -tapelibrary <library ID>  
     -mediaaccessdevice 145  
 appiqshow -device -tapelibrary <library ID>  
     -controller 145  
 appiqshow -device -tapelibrary <library ID>  
     -changerdevice 145

## Volumes 145

appiqdelete -volume <list of volume id> 146  
 appiqcreate -volume <stor sys pool id>  
     -storagesetting <storage setting id | [-default]> -size <size in MB> 146  
 appiqcreate -volume <stor sys pool id>  
     -storagesetting <storage setting id | [-default]>  
     -size <size in MB> -name <name> 146  
 appiqcreate -volume <storagesystem pool id> -lsi  
     -storagesetting <storage setting id | [-default]>  
     -size<size in MB> -cacheahead <ca> -segmentsize  
     <ssize> -name <name> 147

## Zones 148

### Naming Conventions for Switches 148

appiqlist -zone <zone id> -all 148  
 appiqlist -zone <zone id> -host 149

appiqlist -zone <zone id> -storagesystem 149  
 appiqlist -zone <zone id> -port 149  
 appiqlist -zone <zone id> -zonealias 149  
 appiqshow -zone <zone id> 150  
 appiqshow -zone <zone id> -all 150  
 appiqshow -zone <zone id> -host 150  
 appiqshow -zone <zone id> -storagesystem 150  
 appiqshow -zone <zone id> -port 151  
 appiqshow -zone <zone id> -zonealias 151  
 appiqcreate -zone <VSAN1>:<switch1>:<zone> -fabric <fabric id> -port <port id> 151  
 appiqcreate -zone <zone name> -fabric <fabric id> -port <port id> 152  
 appiqcreate -zone <zonenumber> -fabric <fabric id> -zonealias <zonealias id> 152  
 appiqcreate -zone <zonenumber> -fabric <fabric id> -zonealias <zonealias id> -port <port id> 153  
 appiqdelete -zone <zone id> 154  
 appiqadd -zone <zone id> -port <port id> 154  
 appiqadd -zone <zone id> -zonealias <zonealias id> 154  
 appiqremove -zone <zone id> -port <port id> 154  
 appiqremove -zone <zone id> -zonealias <zonealias id> 155

## Zone Aliases 155

appiqshow -zonealias <zonealias id> 155  
 appiqcreate -zonealias <VSAN1>:<switch1>:<zonealias> -fabric <fabric id> -port <port id> 156  
 appiqcreate -zonealias <zone alias name> -fabric <fabric id> -port <port id> 156  
 appiqdelete -zonealias <zonealias id> 157  
 appiqadd -zonealias <zonealias id> -port <port id> 157

appiqremove -zonealias <zonealias id>  
-port <port id> 157

## Zone Sets 158

appiqlist -zoneset <zoneset id> 158

appiqlist -zoneset <zoneset id> -zone 158

appiqshow -zoneset <zoneset id> 158

appiqshow -zoneset <zoneset id> -zone 159

appiqcreate -zoneset <VSAN1>:<switch1>:<zoneset> -fabric <fabric id> -  
zone <zone id> 159

appiqcreate -zoneset <zoneset name>  
-fabric <fabric id> -zone <zone id> 159

appiqdelete -zoneset <zoneset id> 160

appiqactivate -zoneset <zoneset id> 160

appiqadd -zoneset <zoneset id> -zone <zone id> 160

appiqremove -zoneset <zoneset id> -zone <zone id> 161

## Index 163





# Tables

---

TABLE 1-1	Error Code Descriptions	4
TABLE 3-1	Severity Definitions	49
TABLE 3-2	Event Types	51
TABLE 3-3	Element Types	51



# Revision History

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Short Name	Part Number	Dash	Date	Comments
CLI GUIDE	817-7924-16	-05	January 2008	

---



# Preface

---

*This book describes how to use the command line interface that ships with Sun StorageTek™ Operations Manager 6.0.*

*This document assumes you have a basic understanding of the following:*

- *Networking*
- *Storage Area Networks (SANs)*
- *The Common Information Model (CIM)*

---

## Before You Read This Book

In order to fully use the information in this document, you must have thorough knowledge of the topics discussed in these books:

- *Sun StorageTek™ Operations Manager 6.0 Installation Guide*
- *Sun StorageTek™ Operations Manager 6.0 User Guide*

---

# Using UNIX Commands

This document might not contain information on basic UNIX® commands and procedures such as shutting down the system, booting the system, and configuring devices. See the following for this information:

- Software documentation that you received with your system
- Solaris™ operating environment documentation, which is at

<http://docs.sun.com>

*Table with descriptions and examples of the typographic conventions that are used in this book.*

---

## Related Documentation

Application	Title	Part Number
Installation	Release Notes	-----
Operations Manager	<i>Sun StorageTek™ Operations Manager 6.0 Installation Guide</i>	817-7922-16
Operations Manager	<i>Sun StorageTek™ Operations Manager 6.0 User Guide</i>	817-7923-16
Resource Manager	<i>Sun StorageTek™ Resource Manager 6.0 Guide</i>	817-7925-16
Application Module	<i>Sun StorageTek™ Application Module 6.0 Guide</i>	817-7926-16

*Table listing other documents that are related to this book or product.*

---

## Accessing Sun Documentation

You can view, print, or purchase a broad selection of Sun documentation, including localized versions, at:

<http://www.sun.com/documentation>

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## Contacting Sun Technical Support

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*Sun StorageTek™ Operations Manager 6.0 CLI Guide*, part number 817-7924-16





## Overview of the CLI

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**Caution** – Depending on your license, the Command Line Interface (CLI) may not be available. See the List of Features to determine if you have access to the CLI. The List of Features is accessible from the Documentation Center (**Help > Documentation Center**).

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The CLI provides an alternate way for you to manage elements that the management server monitors. You can use the CLI commands in scripts to manage your storage. For example, you can use the `appiqlist -event -all` command in a script to obtain a listing of the events.

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**Caution** – Before you can use the CLI, you must install it. You can install it on the same server that is running the management server or on a remote server. Refer to the release notes for the version requirements. For more information on how to install the CLI, see “Installing the CLI” on page 5.

---

Keep in mind the following:

- Before you can use the CLI interface, you must make a connection to the management server. See “Before Using the CLI” on page 2.
- When you enter a CLI command on Solaris or AIX, enter it in lowercase letters.
- If the UNIX shell environment variable `$PATH` is not set with the current directory, prefix the command with `./` when running it on UNIX.
- If `$PATH` is set to include `/opt/APPQcli/bin`, you can run the CLI commands from any directory.
- You can run the CLI commands anywhere as long as you provide the path to the bin directory:
  - **Microsoft Windows** - `C:\sun\CLI\bin`
  - **UNIX** - `/opt/APPQcli/bin`

Some of the things that CLI commands can do include:

- Identify the following:
  - Backup information

- Interconnects between the various components in the domain
- Detailed configuration of each component
- Capacity, performance, status, and event information from each device and its components
- Information about zone, zone aliases, and zone sets.
- Volume information
- Manage the following:
  - Get Details
  - Events
  - LUNs
  - Pools
  - Volumes
  - Zone aliases
  - Zone sets
  - Zones

To exit the CLI, enter **exit** or **quit**.

---

## Before Using the CLI

Before you can use the CLI, you must configure the CLI environment. To connect to the management server, enter the following command on the computer from which you will run the CLI commands. This computer must already have the CLI installed.

### ■ Microsoft Windows:

```
appiqconfig -username <name> -password <passwd> -server <ip/name>
            -transport <transport> -erroroutput <erroroutput> -port <port>
```

### ■ UNIX:

```
./appiqconfig -username <name> -password <passwd> -server <ip/name>
            -transport <transport> -erroroutput <erroroutput> -port <port>
```

where

- <name> is the user name you use to log on to the management server.
- <passwd> is the password you use to log on to the management server.
- <ip/name> is the IP address or server name of the server running the management server.
- *Optional:* <transport> is the transport that will be used for the CLI commands. The management server supports the following transport types:
  - **https** - Default setting if the transport type is not specified.
  - **http**
  - **RMI**
- *Optional:* <erroroutput> determines how much information is provided in error messages. The options are as follows:

- **minimal (min)** - This option displays numeric return code, no-exception messaging, or stack trace produced. You can also use `min` for `minimal`.
  - **standard (std)** - This option is the default setting. It displays numeric error return code as well as a brief textual message (if available) describing the error. You can also use `std` for `standard`.
  - **maximum (max)** - This option is the “debug” level setting. Aside from the numeric error code, it dumps a stack trace for any thrown exception. You can also use `max` for `maximum`.
  - *Optional:* `<port>` sets the port for the CLI. Use this feature when you want to use a nonstandard port for the CLI. If you do not set this option, the management server uses the following standard communication ports:
    - HTTP - 80
    - HTTPS - 443
    - RMI - 1099
- 

## Accessing the CLI Help from the CLI

Online help for the command line interface (CLI) is accessible not only by clicking the **Help** button on the management server, but also from the CLI window. Help can be accessed from the CLI window by appending `-help` or `-h` to the command. For example, assume you want to list all the statistics for a host, but you don't know the full command. You could enter a portion of the command and append it with `-help`, as shown in the following example:

■ **Microsoft Windows:**

```
appiqstats -help
```

■ **UNIX:**

```
./appiqstats -help
```

The software would provide information about the `appiqstats` command.

If you want to view the overall help for the CLI, enter the following at the command prompt:

```
cli -help
```

Before you can use the CLI, you must make a connection to the management server. See “Before Using the CLI” on page 2.

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# About Error Codes

The management server provides error codes to help you in determining what went wrong. Each error code corresponds to one of the descriptions listed in the following table.

**TABLE 1-1** Error Code Descriptions

Error Code	Description
0	No Error
1	Unknown Operation
2	Unsupported Operation
3	Bad Parameter List
4	Bad ID Parameter
5	Bad Parameter Value
6	Bad Command
7	API Error
8	CLI Configuration Error
9	Help Error
10	General Error

## Accessing Error Codes

To access error codes, enter one of the following at the command prompt after you have entered a CLI command:

■ **Microsoft Windows:**

```
echo %errorlevel%
```

■ **UNIX (C shell):**

```
echo $status
```

■ **UNIX (Bourne shell, Bourne Again shell, and Korn shell)**

```
echo $?
```

The error code is returned, for example 0, which means there is no error.

## Installing the CLI

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This chapter contains the following topics:

- “Installing the CLI on Microsoft Windows” on page 5
- “Installing the CLI on Sun Solaris” on page 6
- “Installing the CLI on Linux” on page 8
- “Installing the CLI on IBM AIX” on page 9
- “Upgrading the CLI” on page 11
- “Removing the CLI” on page 11

Keep in mind the following:

- Install the CLI on a remote server that can access the management server.
- If you have a previous version of the CLI, you must upgrade it to match the current build of the management server. See “Upgrading the CLI” on page 11 for more information.

---

## Installing the CLI on Microsoft Windows

To install the CLI on Microsoft Windows:

1. Go to the `Windows` directory on the Utilities CD-ROM.
2. Double-click **InstallCLI.exe**.

When you see the introduction screen, click **Next**.

3. When you are asked for an installation directory, you can select the default or choose your own. To choose your own directory, click **Choose**. You can always display the default directory by clicking **Restore Default Folder**.

When you are done, click **Next**.

4. Check the notes for any information that applies to your installation. Click **Next**.

5. Check the preinstallation summary. You are shown the following:
  - Product Name
  - Installation Folder
  - Disk Space Required
  - Disk Space Available
6. Do one of the following:
  - Click **Install** if you agree with the pre-installation summary.
  - Click **Previous** if you want to modify your selections.

The CLI is installed.
7. When you are told the installation was successful, click **Done** to quit the installation.
8. Go to the following directory:  
`C:\companyname\CLI\bin`
9. Configure the CLI workstation to point to the management server. See “Before Using the CLI” on page 2.

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## Installing the CLI on Sun Solaris

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**Caution** – You must have root privileges to install this software.

---

You are provided several installation options. One is an interactive option, which lets you select the installation directory. Another is a silent installation, which installs with no user input. The silent installation assumes the default installation directory. Both options install on computers with or without X Windows.

To install the CLI on Sun Solaris:

1. Go to the `/Solaris` directory on the Utilities CD-ROM by entering the following at the command prompt:  

```
# cd /cdrom/Solaris
```

where `/cdrom` is the directory where you mounted the CD-ROM.
2. To install the software, do one of the following:

---

**Caution** – If you receive a message saying there is not enough room in the `temp` directory to perform the installation, set the `IATEMPDIR` variable to another directory. The installation uses this directory to extract the installation files. Refer to the documentation for your operating system for information on how to set this variable.

---

- **Interactive installation (without X Windows or Telnet terminal session) -**  
You must enter `-i console`; otherwise, you are shown a traceback error.  
Enter the following at the command prompt:

```
# ./InstallCLI.bin -i console
```

- **Interactive installation (with X Windows)** - Enter the following at the command prompt:

```
# ./InstallCLI.bin
```

- **Silent installation (X Windows not required)** - Enter the following at the command prompt, and then go to Step 6. You cannot change the installation directory.

```
# ./InstallCLI.bin -i silent
```

The CLI is automatically installed in the `/opt/APPQcli` directory.

3. During the installation, you are asked for the installation directory. For best results, select the default installation directory.
4. Go to a directory other than one on the CD-ROM.
5. Unmount the CD-ROM by entering the following at the command prompt:  

```
# umount /cdrom
```

  
where `/cdrom` is the name of the directory where you mounted the CD-ROM.
6. Go to the `[CLI_installation_directory]/bin` directory, where `[CLI_installation_directory]` is the directory containing the CLI program.
7. Configure the CLI workstation to point to the management server. See “Before Using the CLI” on page 2.

---

# Installing the CLI on Linux

---

**Caution** – You must have root privileges to install this software.

---

You are provided several installation options. One is an interactive option, which lets you select the installation directory. Another is a silent installation, which installs with no user input. The silent installation assumes the default installation directory. Both options install on computers with or without X Windows.

To install the CLI on Linux:

1. Insert the Utilities CD into the CD-ROM drive.
2. Mount the CD-ROM drive by entering the following commands at the command prompt:

```
# mkdir -p /mnt/extensions
# mount /dev/cdrom /mnt/extensions
```

where /dev/cdrom is the CD device.

3. Go to the /linux directory on the Utilities CD by entering the following at the command prompt:

```
# cd /mnt/extensions/linux
```

where /mnt/extensions is the directory where you mounted the CD-ROM.

4. To install the software, do one of the following:

---

**Caution** – If you receive a message saying there is not enough room in the temp directory to perform the installation, set the IATEMPDIR variable to another directory. The installation uses this directory to extract the installation files. Refer to the documentation for your operating system for information on how to set this variable.

---

- **Interactive installation (without X Windows or Telnet terminal session)** - You must enter `-i console`; otherwise, you are shown a traceback error. Enter the following at the command prompt:

```
# ./InstallCLI.bin -i console
```

- **Interactive installation (with X Windows)** - Set the DISPLAY environment variable using the following commands:

```
# DISPLAY=<ip-address>:displaynumber.screennumber
```



where <ip-address> is the address of the client from where the Installer script is launched.

```
# export DISPLAY
```

For example: # DISPLAY=172.168.10.15:0.0

```
# export DISPLAY
```

Enter the following at the command prompt:

```
# ./InstallCLI.bin
```

- **Silent installation (X Windows not required)** - Enter the following at the command prompt, and then go to Step 6. You cannot change the installation directory.

```
# ./InstallCLI.bin -i silent
```

The CLI is automatically installed in the /opt/APPQcli directory.

5. During the installation, you are asked for the installation directory. For best results, select the default installation directory.
6. Go to a directory other than one on the CD-ROM.
7. Unmount the CD-ROM by entering the following at the command prompt:  

```
# umount /mnt/extensions
```
8. Go to the [CLI\_installation\_directory]/bin directory, where [CLI\_installation\_directory] is the directory containing the CLI program.
9. Configure the CLI workstation to point to the management server. See “Before Using the CLI” on page 2.

---

## Installing the CLI on IBM AIX

You are provided several installation options. One is an interactive option, which lets you select the installation directory. Another is a silent installation, which installs with no user input. The silent installation assumes the default installation directory. Both options install on computers with or without X Windows.

To install the CLI on IBM AIX:

1. Insert the Utilities CD-ROM into the CD-ROM drive.
2. Mount the CD-ROM drive by entering the following at the command prompt:  

```
# mount -rv cdrfs /dev/cd0 /cdrom
```

where /dev/cd0 is the name of the CD-ROM drive.

If necessary, create a /cdrom directory first.

3. Go to the /aix directory on the CD-ROM by entering the following at the command prompt:

```
# cd /cdrom/aix
```

where /cdrom is the directory where you mounted the CD-ROM.

4. To install the software, do one of the following:

---

**Caution** – If you receive a message saying there is not enough room in the temp directory to perform the installation, set the IATEMPDIR variable to another directory. The installation uses this directory to extract the installation files. Refer to the documentation for your operating system for information on how to set this variable.

---

- **Interactive installation (without X Windows or Telnet terminal session) -**

You must enter -i console; otherwise, you are shown a traceback error. Enter the following at the command prompt:

```
# ./InstallCLI.bin -i console
```

- **Interactive installation (with X Windows) -** Enter the following at the command prompt:

```
# ./InstallCLI.bin
```

- **Silent installation (X Windows not required) -** Enter the following at the command prompt, and then go to Step 6. You cannot change the installation directory.

```
# ./InstallCLI.bin -i silent
```

The CLI is automatically installed in the /opt/APPQcli directory.

5. During the installation, you are asked for the installation directory. For best results, select the default installation directory.

6. Go to a directory other than one on the CD-ROM.

7. Unmount the CD-ROM by entering the following at the command prompt:

```
# umount /cdrom
```

where /cdrom is the name of the directory where you mounted the CD-ROM.

8. Go to the [CLI\_installation\_directory]/bin directory, where [CLI\_installation\_directory] is the directory containing the CLI program.

9. Configure the CLI workstation to point to the management server. See “Before Using the CLI” on page 2.

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## Upgrading the CLI

You can upgrade the CLI by running the installation as described in the previous sections. The installation detects an existing version, and it upgrades the CLI to the same location.

---

## Removing the CLI

To remove the CLI from Microsoft Windows:

1. Go to Add/Remove Programs.
2. Select the CLI program from the list.
3. Click **Change/Remove**.
4. When you are told the product is about to be uninstalled, click **Uninstall**.
5. When the program is done with removing the product, click **Done**.

The CLI is removed from Microsoft Windows.

To remove the CLI from UNIX:

1. Go to the following directory by entering the following at the command prompt:

```
# cd [InstallationDirectory]/Uninstall_[company_name]_CLI
```

where:

`InstallationDirectory` is the directory containing the CLI

`company_name` is the name of the company, for example, SUN.

2. Remove the CLI by entering the following at the command prompt:

```
# ./Uninstall_[company_name]_CLI
```

where `company_name` is the name of the company, for example, SUN.



## CLI Commands

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**Caution** – Before you can use the CLI, you must make a connection to the management server. See “Before Using the CLI” on page 2 for more information.

---

It is recommended that you use the CLI prompt to enter your commands instead of typing the “appiq” prefix in the CLI commands. You can avoid typing the “appiq” prefix in the CLI commands by entering **cli** at the command prompt.

Each time you use the `appiq` prefix in a command at the command prompt, the CLI client must reestablish a connection with the management server. In comparison, when you use the CLI command prompt, a connection with the management server is established only once, not each time you enter a command. Because the CLI command prompt only establishes a connection once, it uses fewer resources and runs faster than entering commands at the command prompt. Using the CLI command prompt to enter commands is sometimes referred to as interactive mode.

To access the CLI prompt and enter a command:

1. Enter the following:

```
cli
```

2. Enter the following:

```
cli> list -event -all
```

Notice that the `appiq` prefix has been removed.

This chapter provides information about CLI Commands for the following:

- “CLI Version” on page 14
- “Applications” on page 14
- “Backups” on page 17
- “Configuration” on page 25
- “Discovery” on page 37
- “Domains” on page 47
- “Events” on page 47

- “Export to Visio” on page 65
- “Fabrics” on page 66
- “Hosts” on page 77
- “Host Security Groups” on page 85
- “NetApp NAS Devices” on page 95
- “Remote CIM Extensions Management” on page 99
- “Reports” on page 102
- “Security” on page 117
- “Storage Pools” on page 122
- “Sorting the Information Displayed” on page 125
- “Storage Systems” on page 127
- “Switches” on page 137
- “Tape Libraries” on page 141
- “Volumes” on page 145
- “Zones” on page 148
- “Zone Aliases” on page 155
- “Zone Sets” on page 158

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## CLI Version

You can find the version of the CLI by entering the following:

- **Microsoft Windows:**

```
cli -version
```

- **UNIX:**

```
./cli -version
```

At the CLI prompt you can enter `-version` or `version`, as shown in the following example:

```
CLI> -version (or) version
```

---

## Applications

Use the following CLI commands for applications:

- “appiqlist -application -all” on page 15
- “appiqlist -application <id>” on page 15
- “appiqlist -application -database -all” on page 15
- “appiqlist -application -exchange -all” on page 15
- “appiqlist -application -virtual -all” on page 15

- “appiqshow -application <id>” on page 16
- “appiqshow -application -all” on page 16
- “appiqshow -application -database -all” on page 16
- “appiqshow -application -exchange -all” on page 16
- “appiqshow -application -virtual -all” on page 16
- “appiqstats -application -all” on page 16
- “appiqstats -application <id>” on page 16

## appiqlist -application -all

**Description:** Provides a short description of all the applications

## appiqlist -application <id>

**Description:** Provides a short description of the specified application identifier, where <id> is the identifier for the application. The identifier for the application can be obtained using several methods, such as the `appiqlist -application -all` command.

## appiqlist -application -database -all

**Description:** Lists all the database applications.

## appiqlist -application -exchange -all

**Description:** Lists all the exchange applications.

## appiqlist -application -virtual -all

**Description:** Lists all the virtual applications.

## `appiqshow -application <id>`

**Description:** Displays detailed information about the specified application, where <id> is the identifier for the application. The identifier for the application can be obtained using several methods, such as the `appiqlist -application -all` command.

## `appiqshow -application -all`

**Description:** Displays detailed information about all the applications.

## `appiqshow -application -database -all`

**Description:** Displays detailed information about all the database applications.

## `appiqshow -application -exchange -all`

**Description:** Displays detailed information about all the exchange applications.

## `appiqshow -application -virtual -all`

**Description:** Displays detailed information about all the virtual applications.

## `appiqstats -application -all`

**Description:** Shows the statistical information about all the applications.

## `appiqstats -application <id>`

**Description:** Shows the statistical information about the specified applications, where <id> is the identifier for the application. The identifier for the application can be obtained using several methods, such as the `appiqlist -application -all` command.



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# Backups

Use the following CLI commands to manage backups:

- “appiqlist -backup -backupmanager -all” on page 17
- “appiqlist -backup -backupmanager <ID>” on page 18
- “appiqlist -backup -backupmanager <ID> -all” on page 18
- “appiqlist -backup -backupmanager <ID> -mediamanager” on page 18
- “appiqlist -backup -backupmanager <ID> -schedule” on page 18
- “appiqlist -backup -backupmanager <ID> -job -all” on page 18
- “appiqlist -backup -backupmanager <ID> -job -success” on page 19
- “appiqlist -backup -backupmanager <ID> -job -failure” on page 19
- “appiqlist -backup -backupmanager <ID> -job -partial” on page 19
- “appiqlist -backup -backupmanager <ID> -mediapool” on page 19
- “appiqlist -backup -backupmanager <ID> -media” on page 19
- “appiqlist -backup -backupmanager <ID> -policy” on page 20
- “appiqlist -backup -backupmanager <ID> -client” on page 20
- “appiqlist -backup -mediamanager <ID>” on page 20
- “appiqlist -backup -mediamanager <ID> -tapelibrary” on page 20
- “appiqlist -backup -mom -all” on page 20
- “appiqlist -backup -mom <ID>” on page 21
- “appiqshow -backup -backupmanager -all” on page 21
- “appiqshow -backup -backupmanager <ID>” on page 21
- “appiqshow -backup -backupmanager <ID> -all” on page 21
- “appiqshow -backup -backupmanager <ID> -mediamanager” on page 21
- “appiqshow -backup -backupmanager <ID> -schedule” on page 22
- “appiqshow -backup -backupmanager <ID> -job -all” on page 22
- “appiqshow -backup -backupmanager <ID> -job -success” on page 22
- “appiqshow -backup -backupmanager <ID> -job -failure” on page 22
- “appiqshow -backup -backupmanager <ID> -job -partial” on page 23
- “appiqshow -backup -backupmanager <ID> -mediapool” on page 23
- “appiqshow -backup -backupmanager <ID> -media” on page 23
- “appiqshow -backup -backupmanager <ID> -policy” on page 23
- “appiqshow -backup -backupmanager <ID> -client” on page 24
- “appiqshow -backup -mediamanager <ID>” on page 24
- “appiqshow -backup -mediamanager <ID> -tapelibrary” on page 24
- “appiqshow -backup -mom -all” on page 24
- “appiqshow -backup -mom <ID>” on page 24

## appiqlist -backup -backupmanager -all

**Description:** Lists all the backup managers.

## appiqlist -backup -backupmanager <ID>

**Description:** Provides the name of the backup manager.

You can find the identifier for the specified backup manager through the `appiqlist -backup -backupmanager -all` command.

## appiqlist -backup -backupmanager <ID> -all

**Description:** Lists all the subcomponents of the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## appiqlist -backup -backupmanager <ID> -mediamanager

**Description:** Lists all the media managers connected to the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## appiqlist -backup -backupmanager <ID> -schedule

**Description:** Lists all the backup schedules of the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## appiqlist -backup -backupmanager <ID> -job -all

**Description:** Lists all the backup jobs configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

`appiqlist -backup -backupmanager <ID> -job -success`

**Description:** Lists all the successful jobs configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

`appiqlist -backup -backupmanager <ID> -job -failure`

**Description:** Lists all the failed jobs configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

`appiqlist -backup -backupmanager <ID> -job -partial`

**Description:** Lists all the partially success jobs configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

`appiqlist -backup -backupmanager <ID> -mediapool`

**Description:** Lists all the backup media pools configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

`appiqlist -backup -backupmanager <ID> -media`

**Description:** Lists all the available backup media for the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqlist -backup -backupmanager <ID> -policy`

**Description:** Lists all the backup policies configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqlist -backup -backupmanager <ID> -client`

**Description:** Lists all the backup clients associated with the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqlist -backup -mediamanager <ID>`

**Description:** Provides the name of the media manager.

## `appiqlist -backup -mediamanager <ID> -tapelibrary`

**Description:** Lists all the tape libraries connected to the media manager.

You can find the identifier for the media manager through the `appiqlist -backup -backupmanager <ID> -mediamanager` command.

## `appiqlist -backup -mom -all`

**Description:** Lists all of the master of master servers.

`appiqlist -backup -mom <ID>`

**Description:** Provides the name of the specified master of master server.

`appiqshow -backup -backupmanager -all`

**Description:** Provides a detailed description of all the backup managers.

`appiqshow -backup -backupmanager <ID>`

**Description:** Provides a detailed description of the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

`appiqshow -backup -backupmanager <ID> -all`

**Description:** Provides a detailed description of all the subcomponents of the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

`appiqshow -backup -backupmanager <ID>  
-mediamanager`

**Description:** Provides a detailed description of all the media managers connected to the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqshow -backup -backupmanager <ID> -schedule`

**Description:** Provides a detailed description of all the backup schedules of the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqshow -backup -backupmanager <ID> -job -all`

**Description:** Provides a detailed description of all the backup jobs configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqshow -backup -backupmanager <ID> -job -success`

**Description:** Provides a detailed description of all the success jobs configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqshow -backup -backupmanager <ID> -job -failure`

**Description:** Provides a detailed description of all the failed jobs configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## appiqshow -backup -backupmanager <ID> -job -partial

**Description:** Provides a detailed description of all the partially success jobs configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## appiqshow -backup -backupmanager <ID> -mediapool

**Description:** Provides a detailed description of all the backup media pools configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## appiqshow -backup -backupmanager <ID> -media

**Description:** Provides a detailed description of all the available backup media for the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## appiqshow -backup -backupmanager <ID> -policy

**Description:** Provides a detailed description of all the backup policies configured on the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqshow -backup -backupmanager <ID> -client`

**Description:** Provides a detailed description of all the backup clients associated with the backup manager.

You can find the identifier for the backup manager through the `appiqlist -backup -backupmanager -all` command.

## `appiqshow -backup -mediamanager <ID>`

**Description:** Provides a detailed description of the media manager.

You can find the identifier for the media manager through the `appiqlist -backup -backupmanager <ID> -mediamanager` command.

## `appiqshow -backup -mediamanager <ID> -tapelibrary`

**Description:** Provides a detailed description of all the tape libraries connected to the media manager.

You can find the identifier for the media manager through the `appiqlist -backup -backupmanager <ID> -mediamanager` command.

## `appiqshow -backup -mom -all`

**Description:** Provides a detailed description of all the master of master servers.

## `appiqshow -backup -mom <ID>`

**Description:** Provides a detailed description of the specified master of master server.



---

# Configuration

Use the CLI commands in this section to configure the management server:

```
appiqadd -configuration -discovery -name  
<Schedule Name> -description  
<text> -nextrun <date@time> -interval  
<frequency@duration> -discoverygroup  
<ids> [-infrastructure -backup -refresh -enable]
```

**Description:** Adds a new schedule for discovery.

```
appiqconfig -logout
```

**Description:** Ends the CLI session with management server.

```
appiqconfig -default [-server <IPAddress/DNS  
name>]
```

**Description:** Sets the default configuration in the `cli.cfg` file, and connects to the management server with the default configuration. The `-server` identifier is optional. If the `-server` identifier is not listed, the CLI uses “localhost” as the server name. The default values for admin and password are “admin” and “password.”

```
appiqedit -configuration -backup -imagecollection  
<id> -nextrun <date@time> -interval  
<frequency@duration> -enable
```

**Description:** Edits the Backup Image Collection schedule.

```
appiqedit -configuration -discovery <id> -name  
<Schedule Name> -description  
<text> -nextrun date@time -interval  
<frequency@duration> -discoverygroup  
<ids> [-enable]
```

**Description:** Edits the discovery schedule.

```
appiqedit -configuration -performance -dataaging  
<id> -nextrun  
<date@time> -interval <frequency@duration> [-  
enable]
```

**Description:** Edits the performance data aging schedule.

```
appiqedit -configuration -performance -  
datacollection <id> -nextrun date@time -interval  
<frequency@duration> -enable
```

**Description:** Edits the performance data collection schedule.

```
appiqedit -configuration -producthealth -  
diskspace  
-nextrun date@time -interval  
<frequency@duration> [-enable]
```

**Description:** Edits the product health disk space schedule.

```
appiqedit -configuration -producthealth -logfile -  
nextrun  
<date@time> -interval <frequency@duration> [-  
enable]
```

**Description:** Edits the product health log file schedule.

```
appiqedit -configuration -producthealth -  
rmanbackup -nextrun  
date@time -interval <frequency@duration> [-  
enable]
```

**Description:** Edits the product health rmanbackup schedule.

```
appiqedit -configuration -reports -cache -nextrun  
<date@time>  
-interval <frequency@duration> -enable
```

**Description:** Resets report cache schedule parameters.

```
appiqedit -configuration -reports -cleanup -  
nextrun <date@time>  
-interval <frequency@duration> -enable
```

**Description:** Resets report cleanup schedule parameters.

```
appiqedit -configuration -reports -dataaging <id>
-nextrun
<date@time> -interval <frequency@duration> -
enable
```

**Description:** Resets report data aging schedule parameters.

```
appiqedit -configuration -reports -datacollection
<id> -nextrun
<date@time> -interval <frequency@duration> -
enable
```

**Description:** Resets report data collection schedule parameters.

```
appiqrun -configuration -reports -globalreporter
```

**Description:** Refreshes the global reporter.

```
appiqedit -configuration -reports -globalreporter
-nextrun
<date@time> -interval <frequency@duration> -
enable
```

**Description:** Resets global reporter schedule parameters.

```
appiqedit -configuration -reports -
scheduleddeliveries <id> -emailaddress
<xxxx@xx.com> -subject <text> -message <text> -
format <pdf/xml/excel>
-starttime <hh:mm> -schedule <daily> -frequency
```

```
<everyday/weekdays/1@days>  
-schedule <weekly> -frequency  
<Sunday/Monday..... -schedule <monthly>  
-frequency <firstday/lastday/1@dayofmonth>  
[organization <id>]
```

**Description:** Resets report scheduled deliveries schedule parameters.

```
appiqlist -configuration -backup -imagecollection
```

**Description:** Lists all image collection schedules.

```
appiqlist -configuration -backup -imagecollection  
<id>
```

**Description:** Lists the specified image collection schedule.

```
appiqlist -configuration -discovery
```

**Description:** Lists all discovery schedules. This command works in the same way as the Discovery tab on the Configuration tab on the main page of the management server's user interface.

```
appiqlist -configuration -discovery <id>
```

**Description:** Lists the specified discovery schedule. This command works in the same way as the Discovery tab on the Configuration tab on the main page of the management server's user interface.

## appiqlist -configuration -performance -dataaging

**Description:** Lists performance data aging schedules. This command works the same as the Data Aging tab on the Performance tab in the management server's user interface.

## appiqlist -configuration -performance -dataaging <id>

**Description:** Lists the specified performance data aging schedule. This command works the same as the Data Aging tab on the Performance tab in the management server's user interface.

## appiqlist -configuration -performance - datacollection

**Description:** Lists performance data collection for all schedules. This command works in the same way as the Data Collection tab on the Performance tab in the management server's user interface.

## appiqlist -configuration -performance - datacollection <id>

**Description:** Lists the specified data collection schedules. This command works in the same way as the Data Collection tab on the Performance tab in the management server's user interface.

## appiqlist -configuration -producthealth -diskspace

**Description:** Lists all product health disk space schedules.

## appiqlist -configuration -producthealth -logfile

**Description:** Lists the product health log file schedule.

appiqlist -configuration -producthealth -  
rmanbackup

**Description:** Lists the product health rmanbackup schedule.

appiqlist -configuration -reports -cache

**Description:** Lists report cache schedule basic details.

appiqlist -configuration -reports -cleanup

**Description:** Lists report cleanup schedule basic details.

appiqlist -configuration -reports -dataaging

**Description:** Lists report data aging schedules basic details.

appiqlist -configuration -reports -dataaging <id>

**Description:** Lists the specified report data aging schedule.

appiqlist -configuration -reports -datacollection

**Description:** Lists all report data collection schedules basic details.

appiqlist -configuration -reports -datacollection  
<id>

**Description:** Lists the specified report data collection schedules basic details.

appiqlist -configuration -reports -globalreporter

**Description:** Lists global reporter schedule basic details.

appiqlist -configuration -reports -  
scheduleddeliveries

**Description:** Lists report scheduled deliveries basic details.

appiqlist -configuration -reports -  
scheduleddeliveries <id>

**Description:** Lists the specified scheduled deliveries basic details.

appiqlist -configuration -server -address

**Description:** Displays the IP address of the management server connected to the CLI.

appiqrn -configuration -backup -imagecollection  
<ids>

**Description:** Runs the Backup Image Collection schedule.

appiqrn -configuration -performance -  
datacollection <ids>

**Description:** Runs performance data collection schedules. The Schedule ID may be one or many.



`appiqrn -configuration -reports -datacollection  
<ids>`

**Description:** Runs reports data collection schedules. The Schedule ID may be one or many.

`appiqrn -configuration -reports -cache`

**Description:** Refreshes the report cache.

`appiqshow -configuration -backup -  
imagecollection`

**Description:** Shows details of all image collection schedules.

`appiqshow -configuration -backup -  
imagecollection <id>`

**Description:** Shows details of the specified image collection schedule.

`appiqshow -configuration -discovery`

**Description:** Shows details of all discovery schedules. This command works in the same way as the Discovery tab on the Configuration tab on the main page of the management server's user interface.

`appiqshow -configuration -discovery <id>`

**Description:** Shows details of the specified discovery schedule.

## appiqshow -configuration -performance - dataaging

**Description:** Shows details of all performance data aging schedules. The same information is provided as resides on the Data Collection tab in the user interface.

## appiqshow -configuration -performance - dataaging <id>

**Description:** Shows details of the specified performance data aging schedule.

## appiqshow -configuration -performance - datacollection

**Description:** Shows details of performance datacollection for all schedules. This command works in the same way as the Data Collection tab on the Performance tab in the management server's user interface.

## appiqshow -configuration -performance - datacollection <id>

**Description:** Shows details of the specified data collection schedule.

## appiqshow -configuration -producthealth - diskspace

**Description:** Shows details of product health disk space schedules.

## appiqshow -configuration -producthealth -logfile

**Description:** Shows details of the product health log file schedule.

`appiqshow -configuration -producthealth -rmanbackup`

**Description:** Shows details of the product health rmanbackup schedule.

`appiqshow -configuration -reports -cache`

**Description:** Shows details of the report cache schedule.

`appiqshow -configuration -reports -cleanup`

**Description:** Shows details of the report cleanup schedule.

`appiqshow -configuration -reports -dataaging`

**Description:** Shows details of report data aging schedules.

`appiqshow -configuration -reports -dataaging  
<id>`

**Description:** Shows details of the specified report data aging schedule.

`appiqshow -configuration -reports -datacollection`

**Description:** Shows details of report data collection schedules.

`appiqshow -configuration -reports -datacollection  
<id>`

**Description:** Shows details of the specified report data collection schedules.

**appiqshow -configuration -reports -globalreporter**

**Description:** Shows details of global reporter schedule.

**appiqshow -configuration -reports -  
scheduleddeliveries**

**Description:** Shows details of report scheduled deliveries.

**appiqshow -configuration -reports -  
scheduleddeliveries <id>**

**Description:** Shows details of report scheduled deliveries.

**appiqshow -configuration -server -address**

**Description:** Displays the IP address and user name of the management server connected to the CLI.

**appiqstop -configuration -backup -  
imagecollection <ids>**

**Description:** Stops the Backup Image Collection schedule.

**appiqstop -configuration -performance -  
datacollection <ids>**

**Description:** Stops running performance data collection schedules. The schedule ID may be one or many.

```
appiqstop -configuration -reports -datacollection  
<ids>
```

**Description:** Stops running reports data collection schedules. The Schedule ID may be one or many.

---

## Discovery

Use the CLI commands in this section to perform discovery, obtain the topology, and gather details from elements. For additional information about discovery, see “Discovering NAS Devices, Tape Libraries, Switches and Storage Systems” and “Discovering Applications, Backup Servers and Hosts” in the user guide.

---

**Note** – Some of the commands in this section have an optional `-sync` flag. If you specify the `-sync` flag, the command will be in synchronous mode, meaning the management server will not accept new commands until it is done with discovery.

---

```
appiqadd -domaindiscovery -address <ip/DNS  
Name> -username <name>  
-password <pwd> -Comment <text>
```

**Description:** Adds the address of an element in the same way as the Add Address button does in discovery Step 1 of the management server’s user interface.

```
appiqadd -domaindiscovery -iprange -  
fromaddress <ip/DNS Name> -toaddress  
<ip/DNS Name> -username <name> -password  
<pwd> -comment <text>
```

**Description:** Adds the IP address range to the domain discovery address list.

```
appiqcreate -domaindiscovery -application -  
databaseinfo  
-address <ip/DNS Name> -managementaddress  
<ip/DNS Name> -server  
<appiq> -port <number> -type  
<oracle/sybase/sql>
```

**Description:** Creates a new entry for database information.

```
appiqcreate -domaindiscovery -application -  
domaincontrollerinfo  
-domain <Name> -domaincontroller <name> -  
username <name> -password  
<pwd> [-primary]
```

**Description:** Creates a new entry for the exchange domain controller. The `-primary` tag is required if the domain controller is primary.

```
appiqcreate -domaindiscovery -application -  
tnslisterport <port number>
```

**Description:** Creates a new entry for the Oracle TNS Listener Port.

```
appiqdelete -domaindiscovery -accesspoint <ids>
```

**Description:** Removes the specified access points from the discovery Step 2 and Step 3 list.

```
appiqdelete -domaindiscovery -accesspoint -all
```

**Description:** Removes all access points from the discovery Step 2 and Step 3 list.

`appiqdelete -domaindiscovery -address <ids>`

**Description:** Removes the specified discovery addresses from the discovery Step 1 list.

`appiqdelete -domaindiscovery -address -all`

**Description:** Removes all discovery addresses from the discovery Step 1 list.

`appiqdelete -domaindiscovery -application -  
databaseinfo -address  
<IP/DNS Name> -server <Database Server  
Name> -port <port number>  
-type <Oracle/SYBASE/SQLServer/CacheDB>`

**Description:** Removes database information. All of the parameters are mandatory.

`appiqdelete -domaindiscovery -application -  
domaincontrollerinfo <id>`

**Description:** Removes the specified domain controller from the list.

`appiqdelete -domaindiscovery -application -  
tnslistenerport <port number>`

**Description:** Removes the specified port number from from the TNS Listener Port list.

`appiqdelete -domaindiscovery -credential -  
username`

**Description:** Removes credentials from the default list. Credentials are identified by user name.

`appiqdelete -domaindiscovery -credential -all`

**Description:** Removes all credentials.

`appiqdiscover -domaindiscovery -address <ids> [-  
sync]`

**Description:** Performs discovery Step 1 for the specified discovery addresses.

`appiqdiscover -domaindiscovery -address -all [-  
sync]`

**Description:** Performs discovery Step 1 for all discovery addresses.

`appiqdiscover -domaindiscovery -details -all`

**Description:** Collects infrastructure and backup data during Get Details.

`appiqdiscover -domaindiscovery -details -backup`

**Description:** Collects only backup data during Get Details.



`appiqdiscover -domaindiscovery -details -  
discoverygroup <ids>  
[-infrastructure -backup -refresh -sync]`

**Description:** Collects element details for the specified discovery groups. The `-infrastructure` tag collects infrastructure details, and the `-backup` tag collects backup details. One of these options must be used. The `-refresh` tag forces the device manager to refresh.

`appiqdiscover -domaindiscovery -details -stop`

**Description:** Stops the collection of infrastructure and backup data during Get Details.

`appiqdiscover -domaindiscovery -refresh -fabric  
<fabric id>`

**Description:** Refreshes details of all the elements in a fabric. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

`appiqdiscover -domaindiscovery -refresh -host  
<host id>`

**Description:** Collects infrastructure data during Get Details for a specified host, but does not delete components that no longer exist. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**appiqdiscover -domaindiscovery -refresh -  
storagesystem <storage system id>**

**Description:** Collects infrastructure data during Get Details for a specified storage system, but does not delete components that no longer exist. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**appiqdiscover -domaindiscovery -refresh -switch  
<switch id>**

**Description:** Collects infrastructure data during Get Details for a specified switch, but does not delete components that no longer exist. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**appiqdiscover -domaindiscovery -test -address  
<id> [-sync]**

**Description:** Works like the discovery Step 1 test button in the management server's user interface.

**appiqdiscover -domaindiscovery -topology [-  
sync]**

**Description:** Obtains the topology. This command assumes you have already performed a discovery.

**appiqdiscover -domaindiscovery -topology -  
discoverygroup <ids> [-sync]**

**Description:** Obtains topology information for the specified discovery groups.

`appiqfetch -domaindiscovery -file <file name> [-password <password>]`

**Description:** Imports discovery settings from file. Only the file name is required if the file is in the same directory. Otherwise, the full path of the file must be entered. The password is optional if the password is blank.

`appiqlist -domaindiscovery -accesspoint <id>`

**Description:** Lists the specified access points listed in discovery Step 2 and Step 3.

`appiqlist -domaindiscovery -accesspoint -all`

**Description:** Lists all of the access points listed in discovery Step 2 and Step 3.

`appiqlist -domaindiscovery -address <id>`

**Description:** Lists the specified addresses listed in discovery Step 1.

`appiqlist -domaindiscovery -address -all`

**Description:** Lists all of the addresses listed in discovery Step 1.

`appiqlist -domaindiscovery -application -all`

**Description:** Lists the TNS Listener ports, Exchange domain controllers, and database information.

`appiqlist -domaindiscovery -application -databaseinfo`

**Description:** Lists all of the database information.

appiqlist -domaindiscovery -application -  
DomainControllerinfo

**Description:** Lists all of the Exchange server domain controller information.

appiqlist -domaindiscovery -application -  
tnslisterport

**Description:** Lists all of the Oracle TNS Listener ports.

appiqlist -domaindiscovery -credentials

**Description:** Lists all default user names.

appiqlist -domaindiscovery -discoverygroup <id>

**Description:** Lists basic details of the specified discovery group.

appiqlist -domaindiscovery -discoverygroup -all

**Description:** Lists all discovery groups.

appiqmove -domaindiscovery -discoverygroup  
<id> -accesspoint <id>

**Description:** Moves the access point in a discovery group.

`appiqsave -domaindiscovery -password  
<password>[-path <directory path name>]`

**Description:** Saves discovery settings to file. The password is required and the path must follow file system rules. If the path is not specified, the settings are saved to the `env<CLI_DIR>/DiscoverySetting.xml` file.

`appiqset -domaindiscovery -address <id> -  
username <name> -password <pwd> -Comment  
<text>`

**Description:** Resets the username, password, and comment for the specific address.

`appiqset -domaindiscovery -credential -username  
<name>  
-password <password>`

**Description:** Sets the default credentials in the same way that the Set Default User Name and Password link does on discovery Step 1 of the management server's user interface. If the credential name exists, the password is reset for the specified user name. The user name and password must be separated by `"/"`.

`appiqshow -domaindiscovery -accesspoint <id>`

**Description:** Shows details of the specified access point listed in discovery Step 2 and Step 3.

`appiqshow -domaindiscovery -accesspoint -all`

**Description:** Show details of all access points listed in discovery Step 2 and Step 3.

`appiqshow -domaindiscovery -address <id>`

**Description:** Shows details of the specified address listed in discovery Step 1.

`appiqshow -domaindiscovery -address -all`

**Description:** Shows details of all of the addresses listed in discovery Step 1.

`appiqshow -domaindiscovery -application -all`

**Description:** Shows details of TNS Listener ports, exchange controllers, and database information

`appiqshow -domaindiscovery -application -  
databaseinfo`

**Description:** Shows details of database information.

`appiqshow -domaindiscovery -application -  
DomainControllerinfo`

**Description:** Shows details of exchange domain controllers.

`appiqshow -domaindiscovery -application -  
tnslistenerport`

**Description:** Shows details of TNS Listener ports.

`appiqshow -domaindiscovery -credentials`

**Description:** Shows details of credentials (default UserName and password).

`appiqshow -domaindiscovery -discoverygroup <id>`

**Description:** Shows details of the specified discovery group.

`appiqshow -domaindiscovery -discoverygroup -all`

**Description:** Shows details of all discovery groups, such as id, name, and accesspoints.

---

## Domains

Use the following CLI commands to manage domains:

- “`appiqlist -domain -path`” on page 47
- “`appiqshow -domain -path`” on page 47

`appiqlist -domain -path`

**Description:** Lists the domains detected by the management server and its paths.

`appiqshow -domain -path`

**Description:** Provides a detailed description of the domains detected by management server and their paths.

---

## Events

Use the CLI commands in this section to manage and obtain information about events:

## appiqlist -event -all

**Description:** Provides a short description of the events.

## appiqlist -event <event id>

**Description:** Lists events specified by <event id> along with a short description of each event. You can obtain <event id> from the `appiqlist -event -all` command.

## appiqlist -event -all -startdate <yyyy-mm-dd | today> -starttime <hh:mm | now> -enddate <yyyy-mm-dd | today> -endtime <hh:mm | now>

**Description:** Lists the events from the elements monitored by the management server that fall within the time specified

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.

## appiqlist -event -all -severity <severity>

**Description:** Lists the events from the elements monitored by the management server that fall within the severity specified

where <severity> is the severity of the event. All severities are included if you do not include the severity flag.



To specify the severity, enter the appropriate number from the following table. If you do not include the severity flag, all severities are included. The definition for each severity level varies according to the type of element.

**TABLE 3-1** Severity Definitions

Severity	Definition
1	<b>unknown severity, minimum severity</b>
2	<b>information notices</b>
4	<b>warning</b> - For example, for a Brocade switch, one or more new physical fabric objects (device port, switch, or fabric) have appeared.
8	<b>minor severity</b> - For example, for a Brocade switch, a physical fabric object (switch port or fabric) has changed state.
16	<b>major severity</b> - For example, for a Brocade switch, one or more physical fabric objects (device port, switch, or fabric) have disappeared.
32	<b>critical severity</b> - For example, for a Brocade switch, a device connected to the switch has gone off line.
64	<b>clear</b>

```
appiqlist -event -all -severity <severity> -startdate
<yyyy-mm-dd | today> -starttime <hh:mm | now>
-enddate <yyyy-mm-dd | today> -endtime
<hh:mm | now>
```

**Description:** Lists the events from the elements monitored by the management server that fall within the time and severity specified.

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqlist -event -all -type <eventType> -startdate  
<yyyy-mm-dd | today> -starttime <hh:mm | now>  
-enddate <yyyy-mm-dd | today> -endtime  
<hh:mm | now>
```

**Description:** Lists the events from the elements monitored by the management server that fall within the time and event type specified.

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <eventType> is the event type. Events of all types are shown if you do not specify the event type. See Table 3-2, “Event Types,” on page 50 for more information about event types.

```
appiqlist -event -all -severity <severity> -type  
<eventType> -startdate <yyyy-mm-dd | today>  
-starttime <hh:mm | now> -enddate <yyyy-mm-dd  
| today> -endtime <hh:mm | now>
```

**Description:** Lists the events from the elements monitored by the management server that fall within the severity, event type, and time specified.

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <eventType> is the event type. See Table 3-2, “Event Types,” on page 50 for a listing of available event types.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

**Event Type Definition:** Enter one of the following for the event type.

**TABLE 3-2** Event Types

S.No	Event Type	An Event Regarding...
1	unknown	An unknown event
2	cimevent	CIMOM
3	cimalert	CIMOM alert
4	cimprocess	A process with the CIMOM
5	appiqalert	An alert from the management server
6	appiqevent	An event from the management server
7	policy	Policies
8	provisioning	Provisioning
9	discovery	Discovery
10	synchronizer	Get Details
11	monitoring	Performance Explorer
12	reporting	Reporter
13	asset	Chargeback
14	policymanager	Policy Manager
15	appiqagent	CIM extensions
16	api	The management server API
17	enterprisereporting	Global Reporter
18	buimagecollection	Business Tools
19	reportviewrefresh	An event regarding a refresh with the report views
20	dbalertlogscan	An alert regarding a database log scan

**appiqlist -event -all -elementtype <element type>**

where <element type> is the identifier for an element type. See Table 3-3, “Element Types,” on page 51 for information about the various element types. Events from all element types are displayed if you do not specify the -elementtype tag.

**Description:** Lists the events for the specified event type.

**TABLE 3-3** Element Types

Element Type	Lists Only Events From...
application	Applications

**TABLE 3-3** Element Types (*Continued*)

Element Type	Lists Only Events From...
host	Hosts
switch	Switches
storagesystem	Storage systems
tapelibrary	Tape libraries
fabric	Fabrics
other	Elements that do not fit the previous categories
management server	The management server
All	All elements

**appiqlist -event -all -elementtype <element type>  
-severity <severity>**

**Description:** Lists the events for the specified event type and severity.

- <element type> is the identifier for an element type. See Table 3-3, “Element Types,” on page 51 for information about the various element types. Events from all element types are displayed if you do not specify the -elementtype tag.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

**appiqlist -event -all -elementtype <element type>  
-startdate <yyyy-mm-dd | today> -starttime  
<hh:mm | now> -enddate <yyyy-mm-dd | today>  
-endtime <hh:mm | now>**

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <element type> is the identifier for an element type. See Table 3-3, “Element Types,” on page 51 for information about the various element types. Events from all element types are displayed if you do not specify the -elementtype tag.

**Description:** Lists the events from the element type specified within the specified time.

## appiqlist -event -elementid <element id>

where <element id> is the identifier for the element. The element identifier can be obtained using several methods. For example, the element identifier for a storage system can be obtained using the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the events from the element specified.

## appiqlist -event -elementid <element id> -severity <severity>

**Description:** Lists the events from a specified element and with a specified severity value.

where

- <element id> is the identifier for the element. The element identifier can be obtained using several methods. For example, the element identifier for a storage system can be obtained using the `appiqlist -device -storagesystem -all` command.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

## appiqlist -event -elementid <element id> -startdate <yyyy-mm-dd | today> -starttime <hh:mm | now> -enddate <yyyy-mm-dd | today> -endtime <hh:mm | now>

**Description:** Lists the events from the elements monitored by the management server that fall within the time specified.

where

- <element id> is the identifier for the element. The element identifier can be obtained using several methods. For example, the element identifier for a storage system can be obtained using the `appiqlist -device -storagesystem -all` command.
- <yyyy-mm-dd | today> is the date, or `today` can be entered, for example, 2005-05-23.

- `<hh:mm|now>` is the time (24-hour clock), or `now` can be entered, for example, 10:45.
- `<severity>` is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqlist -event -elementid <element id> -severity
<severity> -startdate <yyyy-mm-dd | today> -
starttime
<hh:mm | now> -enddate <yyyy-mm-dd | today>
-endtime <hh:mm | now>
```

**Description:** Lists the events for the specified element, severity, and time interval.

- `<element id>` is the identifier for the element. The element identifier can be obtained using several methods. For example, the element identifier for a storage system can be obtained using the `appiqlist -device -storagesystem -all` command.
- `<severity>` is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.
- `<yyyy-mm-dd|today>` is the date, or `today` can be entered, for example, 2005-05-23.
- `<hh:mm|now>` is the time (24-hour clock), or `now` can be entered, for example, 10:45.

```
appiqlist -event -elementid <element id> -type
<eventtype> -startdate <yyyy-mm-dd | today>
-starttime <hh:mm | now> -enddate
<yyyy-mm-dd | today> -endtime <hh:mm | now>
```

where

- `<yyyy-mm-dd|today>` is the date, or `today` can be entered, for example, 2005-05-23.
- `<hh:mm|now>` is the time (24-hour clock), or `now` can be entered, for example, 10:45.
- `<eventtype>` is the event type. See Table 3-2, “Event Types,” on page 50. Events of all types are shown if you do not specify the event type.

**Description:** Lists the events from the element specified with the specified event type and within the specified interval.

```
appiqlist -event -elementid <element id> -severity  
<severity> -type <eventtype> -startdate  
<yyyy-mm-dd | today> -starttime <hh:mm | now>  
-enddate <yyyy-mm-dd | today> -endtime  
<hh:mm | now>
```

**Description:** Lists the events from the element specified with the specified event type and within the specified interval.

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <eventtype> is the event type. See Table 3-2, “Event Types,” on page 50. Events of all types are shown if you do not specify the event type.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqshow -event <event id>
```

**Description:** Provides a detailed description of the event specified by <event id>. You can obtain <event id> from the `appiqlist -event -all` command.

```
appiqshow -event -all -elementtype <element  
type>
```

**Description:** Provides detailed information about all the events for a specified <element type>, where <element type> is the identifier for an element type. See Table 3-3, “Element Types,” on page 51 for information about the various element types. Events from all element types are displayed if you do not specify the `-elementtype` tag.

## appiqshow -event -all -severity <severity>

where <severity> is the severity of the event. All severities are included if you do not include the severity flag.

**Description:** Provides a description of the events from the elements monitored by the management server that fall within the severity specified. All severities are included if you do not include the severity flag. The definition for each severity level varies according to the type of element. See Table 3-1, "Severity Definitions," on page 48 for more information.

## appiqshow -event -all -elementtype <element type> -severity <severity>

**Description:** Provides detailed information about all the events for a specified <element type> that are of the specified severity.

where

- <element type> is the identifier for an element type. See Table 3-3, "Element Types," on page 51 for information about the various element types. Events from all element types are displayed if you do not specify the -elementtype tag.
- <severity> is the severity of the event. See Table 3-1, "Severity Definitions," on page 48 for more information. All severities are included if you do not include the severity flag.

## appiqshow -event -all -elementtype <element type> -startdate <yyyy-mm-dd | today> -starttime <hh:mm | now> -enddate <yyyy-mm-dd | today> -endtime <hh:mm | now>

**Description:** Provides detailed information about all the events for a specified <element type> and time interval.

where

- <element type> is the identifier for an element type. See Table 3-3, "Element Types," on page 51 for information about the various element types. Events from all element types are displayed if you do not specify the -elementtype tag.



- `<yyyy-mm-dd | today>` is the date, or `today` can be entered, for example, 2005-05-23.
- `<hh:mm | now>` is the time (24-hour clock), or `now` can be entered, for example, 10:45.
- `<severity>` is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqshow -event -all -startdate <yyyy-mm-dd | today>
-starttime <hh:mm | now> -enddate
<yyyy-mm-dd | today> -endtime <hh:mm | now>
```

**Description:** Provides detailed information about all the events between the specified time intervals.

where

- `<yyyy-mm-dd | today>` is the date, or `today` can be entered, for example, 2005-05-23.
- `<hh:mm | now>` is the time (24-hour clock), or `now` can be entered, for example, 10:45.
- `<severity>` is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqshow -event -all -severity <severity> -
startdate
<yyyy-mm-dd | today> -starttime <hh:mm | now>
-enddate <yyyy-mm-dd | today> -endtime
<hh:mm | now>
```

**Description:** Provides detailed information about all the events with the specified severity and time interval.

where

- `<yyyy-mm-dd | today>` is the date, or `today` can be entered, for example, 2005-05-23.
- `<hh:mm | now>` is the time (24-hour clock), or `now` can be entered, for example, 10:45.

- `<severity>` is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqshow -event -all -type <eventtype> -
startdate
<yyyy-mm-dd | today> -starttime <hh:mm | now>
-enddate <yyyy-mm-dd | today> -endtime
<hh:mm | now>
```

**Description:** Provides detailed information about all the events with the specified event type and time interval.

where

- `<yyyy-mm-dd | today>` is the date, or `today` can be entered, for example, 2005-05-23.
- `<hh:mm | now>` is the time (24-hour clock), or `now` can be entered, for example, 10:45.
- `<eventtype>` is the event type. See Table 3-2, “Event Types,” on page 50. Events of all types are shown if you do not specify the event type.

```
appiqshow -event -all -severity <severity> -type
<eventtype> -startdate <yyyy-mm-dd | today> -
starttime
<hh:mm | now> -enddate <yyyy-mm-dd | today>
-endtime <hh:mm | now>
```

**Description:** Provides detailed information about all the events with the specified severity, event type, and time interval.

where

- `<yyyy-mm-dd | today>` is the date, or `today` can be entered, for example, 2005-05-23.
- `<hh:mm | now>` is the time (24-hour clock), or `now` can be entered, for example, 10:45.
- `<severity>` is the severity of the event. All severities are included if you do not include the severity flag.

## appiqshow -event -elementid <element id>

**Description:** Provides detailed information about all the events for a specified element.

## appiqshow -event -elementid <element id> -severity <severity>

**Description:** Provides a detailed description of events from the specified element and with the specified severity value.

where

- <element id> is the identifier for the element. The element identifier can be obtained using several methods. For example, the element identifier for a storage system can be obtained using the `appiqlist -device -storagesystem -all` command.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

## appiqshow -event -elementid <element id> -startdate <yyyy-mm-dd | today> -starttime <hh:mm | now> -enddate <yyyy-mm-dd | today> -endtime <hh:mm | now>

**Description:** Provides detailed information about all the events for a specified element and within the specified time interval.

where

- <element id> is the identifier for an element.
- <yyyy-mm-dd | today> is the date, or `today` can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or `now` can be entered, for example, 10:45.

```
appiqshow -event -elementid <element id> -  
severity  
<severity> -startdate <yyyy-mm-dd | today> -  
starttime  
<hh:mm | now> -enddate <yyyy-mm-dd | today>  
-endtime <hh:mm | now>
```

**Description:** Provides detailed information about all the events for a specified element, severity, and specified time interval.

where

- <element id> is the identifier for an element.
- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqshow -event -elementid <element id> -type  
<eventtype> -startdate <yyyy-mm-dd | today> -  
starttime  
<hh:mm | now> -enddate <yyyy-mm-dd | today>  
-endtime <hh:mm | now>
```

**Description:** Provides detailed information about all the events for a specified element, event type, and time interval.

where

- <element id> is the identifier for an element.
- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <eventtype> is the event type. See Table 3-2, “Event Types,” on page 50. Events of all types are shown if you do not specify the event type.

```
appiqshow -event -elementid <element id> -
severity
<severity> -type <eventtype> -startdate
<yyyy-mm-dd | today> -starttime <hh:mm | now>
-enddate <yyyy-mm-dd | today> -endtime
<hh:mm | now>
```

**Description:** Provides detailed information about all the events for a specified element, severity, event type, and interval.

where

- <element id> is the identifier for an element.
- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <eventtype> is the event type. See Table 3-2, “Event Types,” on page 50. Events of all types are shown if you do not specify the event type.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqclear -event <event id>
```

**Description:** Clears the event specified by <event id>.

where <event id> is the identifier for the event.

```
appiqclear -event -all
```

**Description:** Clears all events.

```
appiqclear -event -all -startdate <yyyy-mm-dd | today>  
-starttime <hh:mm | now> -enddate  
<yyyy-mm-dd | today> -endtime <hh:mm | now>
```

**Description:** Clears all the events generated between the specified times.

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.

```
appiqclear -event -all -severity <severity>
```

**Description:** Clears all the events with the specified severity.

where <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqclear -event -all -severity <severity> -  
startdate  
<yyyy-mm-dd | today> -starttime <hh:mm | now>  
-enddate <yyyy-mm-dd | today> -endtime  
<hh:mm | now>
```

**Description:** Clears events with the specified severity and between the specified times.

where

- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.
- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.

## appiqdelete -event <event id>

**Description:** Deletes the event specified by <event id>. This command can only delete events that are associated with an element.

## appiqdelete -event -all

**Description:** Deletes all the events. This command can only delete events that are associated with an element.

## appiqdelete -event -all -severity <severity>

**Description:** Deletes all events with the specified severity value, where <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. This command can only delete events that are associated with an element.

## appiqdelete -event -all -startdate <yyyy-mm-dd | today> -starttime <hh:mm | now> -enddate <yyyy-mm-dd | today> -endtime <hh:mm | now>

**Description:** Deletes all the events that are associated with an element between specified times. This command can only delete events that are associated with an element.

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.

```
appiqdelete -event -all -severity <severity> -
startdate
<yyyy-mm-dd | today> -starttime <hh:mm | now>
-enddate <yyyy-mm-dd | today> -endtime
<hh:mm | now>
```

**Description:** Deletes all the events that are associated with an element with the specified severity and time interval. This command can only delete events that are associated with an element.

where

- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

```
appiqdelete -event -elementid <element id>
```

**Description:** Deletes all the events that are from the element specified by <element id>.

```
appiqdelete -event -elementid <element id> -
severity
<severity>
```

**Description:** Delete all the events that are from the element specified by <element id> and with the specified severity value.

where <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.



```
appiqdelete -event -elementid <element id> -
severity
<severity> -startdate <yyyy-mm-dd | today>
-starttime <hh:mm | now> -enddate
<yyyy-mm-dd | today> -endtime <hh:mm | now>
```

**Description:** Delete all the events for a specified element, severity, and time interval.

where

- <element id> is the identifier for an element.
- <yyyy-mm-dd | today> is the date, or today can be entered, for example, 2005-05-23.
- <hh:mm | now> is the time (24-hour clock), or now can be entered, for example, 10:45.
- <severity> is the severity of the event. See Table 3-1, “Severity Definitions,” on page 48 for more information. All severities are included if you do not include the severity flag.

---

## Export to Visio

Use the following commands to export the topology to an XML file that can be viewed in Microsoft Visio:

```
appiqexport -topologylayout -path <c:/xmls> -
system
```

**Description:** Exports the SAN topology as an XML file.

```
appiqexport -topologylayout -path <c:/xmls> -
backup
```

**Description:** Exports the backup topology as an XML file.

---

# Fabrics

Use the following types of CLI commands to obtain information about fabrics:

- **appiqlist** - Lists fabrics or elements, such as applications, hosts, switches, storage systems, zone sets, zones, and paths within the fabrics or a specified fabric.
- **appiqshow** - Provides detailed information about fabrics or elements within a fabric.

To obtain information about the command, type `-help` at the end of the command, as shown in the following example:

```
appiqlist -fabric -all -help
```

## appiqlist -fabric -all

**Description:** Lists fabrics.

## appiqlist -fabric -all -device

**Description:** Lists the devices in all discovered fabrics, such as hosts, switches, and storage systems.

## appiqlist -fabric -all -application

**Description:** Lists the applications in fabrics.

**Example:**

```
C:\cli>appiqlist -fabric -all -application
```

```
Fabric:1080:100008008840242B
```

```
Fabric:1089:1000080088A0D07E
```

```
Fabric:1096:1000006069500b84
```

```
Application:1064:straker1
```

```
Application:1125:Archer1
```

```
Fabric:1166:10000060695011e9
```

```
Application:1064:straker1
```

```
Application:1125:Archer1
```

```
Fabric:1179:1000080088A06414
```

```
Fabric:1215:100000606930260d
```

The number after the first colon is the identifier for the element. The item after the second colon is the world wide name (WWN) of the fabric or the name of the element in the fabric.

## appiqlist -fabric -all -host

**Description:** Lists the hosts in fabrics.

**Example:**

```
C:\cli>appiqlist -fabric -all -host
```

```
Fabric:1080:100008008840242B
```

```
Fabric:1089:1000080088A0D07E
```

```
Fabric:1096:1000006069500b84
```

```
Host:1004:ufo
```

```
Host:1003:challenger
```

```
Fabric:1166:10000060695011e9
```

```
Host:1004:ufo
```

```
Host:1003:challenger
```

```
Fabric:1179:1000080088A06414
```

```
Fabric:1215:100000606930260d
```

The number after the first colon is the identifier for the element. The item after the second colon is the world wide name (WWN) of the fabric or the name of the element in the fabric.

## appiqlist -fabric -all -port

**Description:** Lists the Fibre Channel ports in the fabrics.

## appiqlist -fabric -all -switch

**Description:** Lists the switches in fabrics.

**Example:**

```
C:\cli>appiqlist -fabric -all -switch  
  
Fabric:1080:100008008840242B  
  
Switch:1012:AppIQ_ED-1032  
  
Fabric:1089:1000080088A0D07E  
  
Switch:1010:AppIQ_ES-3016  
  
Fabric:1096:1000006069500b84  
  
Switch:1013:QBrocade3  
  
Switch:1014:QBrocade4  
  
Fabric:1166:10000060695011e9  
  
Switch:1007:QBrocade2  
  
Switch:1008:QBrocade5  
  
Fabric:1179:1000080088A06414  
  
Switch:1011:AppIQ_ED-6064  
  
Fabric:1215:100000606930260d  
  
Switch:1005:QBrocade1
```

The number after the first colon is the identifier for the element. The item after the second colon is the world wide name (WWN) of the fabric or the name of the element in the fabric.

## appiqlist -fabric -all -storagesystem

**Description:** Lists the storage systems in fabrics.

**Example:**

```
C:\cli>appiqlist -fabric -all -storagesystem  
  
Fabric:1080:100008008840242B
```

```
Fabric:1089:1000080088A0D07E
Fabric:1096:1000006069500b84
StorageSystem:1006:LSI2400
StorageSystem:1000:HDS9910@192.168.1.236
StorageSystem:1001:000183500570 (Symm48:3830)
Fabric:1166:10000060695011e9
StorageSystem:1009:LSI4600
StorageSystem:1000:HDS9910@192.168.1.236
StorageSystem:1001:000183500570 (Symm48:3830)
Fabric:1179:1000080088A06414
StorageSystem:1000:HDS9910@192.168.1.236
Fabric:1215:100000606930260d
StorageSystem:1001:000183500570 (Symm48:3830)
```

The number after the first colon is the identifier for the element. The item after the second colon is the world wide name (WWN) of the fabric or the name of the element in the fabric.

## appiqlist -fabric -all -tapelibrary

**Description:** Lists the tape libraries in fabrics.

## appiqlist -fabric -all -zoneset

**Description:** Lists the zone sets in fabrics.

## appiqlist -fabric -all -zone

**Description:** Lists the zones in fabrics.

## appiqlist -fabric -all -zonealias

**Description:** Lists the zone aliases in fabrics.

## appiqlist -fabric <fabric id>

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Displays the world wide name of the specified fabric and its fabric identifier.

## appiqlist -fabric <fabric id> -device

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Lists the hosts, switches, storage systems, and applications in the fabric specified by <fabric id>.

### Example:

```
C:\cli>appiqlist -fabric 1096 -device
```

```
Host:1004:ufo
```

```
Host:1003:challenger
```

```
Switch:1013:QBrocade3
```

```
Switch:1014:QBrocade4
```

```
StorageSystem:1006:LSI2400
```

```
StorageSystem:1000:HDS9910@192.168.1.236
```

```
StorageSystem:1001:000183500570 (Symm48:3830)
```

```
Application:1064:straker1
```

```
Application:1125:Archer1
```

The number after the first colon is the identifier for the element. The item after the second colon is the world wide name (WWN) of the fabric or the name of the element in the fabric.

## appiqlist -fabric <fabric id> -application

**Description:** Lists the applications in the fabric specified by <fabric id>, where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the appiqlist -fabric -all command.

**Example:**

```
C:\cli>appiqlist -fabric 1096 -application
```

```
Application:1064:straker1
```

```
Application:1125:Archer1
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the element in the fabric.

## appiqlist -fabric <fabric id> -host

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the appiqlist -fabric -all command.

**Description:** Lists the hosts in the fabric specified by <fabric id>.

**Example:**

```
C:\cli>appiqlist -fabric 1096 -host
```

```
Host:1004:ufo
```

```
Host:1003:challenger
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the element in the fabric.

## appiqlist -fabric <fabric id> -port

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the appiqlist -fabric -all command.

**Description:** Lists the Fibre Channel ports in the specified fabric.

## appiqlist -fabric <fabric id> -switch

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the appiqlist -fabric -all command.

**Description:** Lists the switches in the fabric specified by <fabric id>.

**Example:**

```
C:\cli>appiqlist -fabric 1096 -switch
```

```
Switch:1013:QBrocade3
```

```
Switch:1014:QBrocade4
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the element in the fabric.

## appiqlist -fabric <fabric id> -storagesystem

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the appiqlist -fabric -all command.

**Description:** Lists the storage systems in the fabric specified by <fabric id>.

**Example:**

```
C:\cli>appiqlist -fabric 1096 -storagesystem
```

```
StorageSystem:1006:LSI2400
```

```
StorageSystem:1000:HDS9910@192.168.1.236
```

```
StorageSystem:1001:000183500570 (Symm48:3830)
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the element in the fabric.

## appiqlist -fabric <fabric id> -tapelibrary

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the appiqlist -fabric -all command.

**Description:** Provides tape library in the fabric specified by <fabric id>.



## appiqlist -fabric <fabric id> -zoneset

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Lists the zone sets in the fabric specified by <fabric id>.

## appiqlist -fabric <fabric id> -zone

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Lists the zones in the fabric specified by <fabric id>.

## appiqlist -fabric <fabric id> -zonealias

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Lists the zone aliases in the fabric specified by <fabric id>.

## appiqset -fabric <fabric id> -customname <new name>

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Sets the custom name of the fabric.

## appiqshow -fabric -all

**Description:** Provides a detailed description of the fabrics managed by the management server.

## appiqshow -fabric -all -device

**Description:** Provides a detailed description of the elements, such as hosts, switches, and storage, in the fabrics managed by the management server.

## appiqshow -fabric -all -application

**Description:** Provides a detailed description of the applications in the fabrics managed by the management server.

## appiqshow -fabric -all -host

**Description:** Provides a detailed description of the hosts in the fabrics managed by the management server.

## appiqshow -fabric -all -port

**Description:** Provides a detailed description of the Fibre Channel ports in the fabrics managed by the management server. Inter Switch Link (ISL) trunking information is also provided, if accessible, for supported switches.

## appiqshow -fabric -all -switch

**Description:** Provides a detailed description of the switches in the fabrics managed by the management server.

## appiqshow -fabric -all -storagesystem

**Description:** Provides a detailed description of the storage systems in the fabrics managed by the management server.

## appiqshow -fabric -all -tapelibrary

**Description:** Provides a detailed description of the tape libraries in the fabrics managed by the management server.

## appiqshow -fabric -all -zoneset

**Description:** Provides a detailed description of the zone sets in the fabrics managed by the management server.

## appiqshow -fabric -all -zone

**Description:** Provides a detailed description of the zones in the fabrics managed by the management server.

## appiqshow -fabric -all -zonealias

**Description:** Provides a detailed description of the zone aliases in the fabrics managed by the management server.

## appiqshow -fabric <fabric id>

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the fabric specified by <fabric id>.

## appiqshow -fabric <fabric id> -device

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the applications, hosts, switches, storage systems, zone sets, zones, and paths in the fabric specified by <fabric id>.

## appiqshow -fabric <fabric id> -application

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the applications in the fabric specified by `<fabric id>`.

## `appiqshow -fabric <fabric id> -host`

where `<fabric id>` is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the hosts in the fabric specified by `<fabric id>`.

## `appiqshow -fabric <fabric id> -port`

where `<fabric id>` is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the Fibre Channel ports in the fabric specified by `<fabric id>`. Inter Switch Link (ISL) trunking information is also provided, if accessible, for supported switches.

## `appiqshow -fabric <fabric id> -switch`

where `<fabric id>` is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the switches in the fabric specified by `<fabric id>`. Inter Switch Link (ISL) trunking information is also provided, if accessible, for supported switches.

## `appiqshow -fabric <fabric id> -storagesystem`

where `<fabric id>` is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the storage systems in the fabric specified by `<fabric id>`.

## appiqshow -fabric <fabric id> -tapelibrary

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the tape libraries in the fabric specified by <fabric id>.

## appiqshow -fabric <fabric id> -zoneset

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the zone sets in the fabric specified by <fabric id>.

## appiqshow -fabric <fabric id> -zone

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the zones in the fabric specified by <fabric id>.

## appiqshow -fabric <fabric id> -zonealias

where <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.

**Description:** Provides a detailed description of the zone aliases in the fabric specified by <fabric id>.

---

## Hosts

Use the following types of CLI commands to obtain information about hosts:

- **appiqlist** - Lists hosts or components belonging to the hosts or a specified host, such as ports and disk drives.

- **appiqshow** - Provides detailed information about the components belonging to the hosts or a specified host.
- **appiqstats** - Provides statistics about a host or its components, such as a logical drive.

## appiqdelete -device -host <id> [-accesspoint]

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Deletes the specified host. The optional `-accesspoint` tag deletes the element entry from the access point list.

## appiqlist -device -host -all

**Description:** Lists the hosts detected by the management server.

**Example:**

```
C:\cli>AppiqList -device -host -all
```

```
Host:1002:vikings
```

```
Host:1003:challenger
```

```
Host:1004:ufo
```

```
Host:1058:YAMATO
```

```
Host:1069:QASERVER02
```

```
Host:1083:GROMMIT
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the host.

## appiqlist -device -host <id>

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides the DNS name of the host specified.

**Example:**

```
C:\cli>appiqlist -device -host 1004  
Host:1004:comet
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the host.

## appiqlist -device -host <id> -all

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the components of the host specified.

**Example:**

```
C:\cli>appiqlist -device -host 1004 -all  
Port:1044:Adapter 0 Port 0  
Port:1060:Adapter 1 Port 0
```

The number after the first colon is the identifier for the element.

## appiqlist -device -host <id> -port

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the specified host's Fibre Channel ports.

**Example:**

```
C:\cli>appiqlist -device -host 1004 -port  
Port:1044:Adapter 0 Port 0  
Port:1060:Adapter 1 Port 0
```

The numbers 1044 and 1060 are the identifiers for the ports.

## appiqlist -device -host <id> -application

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the applications on the host specified.

**Example:**

```
C:\cli>appiqlist -device -host 1004 -application
```

```
Application:1064:straker1
```

The number 1064 is the identifier for the application, and `straker1` is the name of the instance for the application. In this instance, `straker1` is an Oracle instance.

## `appiqlist -device -host <id> -hba`

where `<id>` is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the host bus adapters connected to the host specified.

**Example:**

```
C:\cli>appiqlist -device -host 1004 -hba
```

```
HBACard:1025:Adapter 0
```

```
HBACard:1027:Adapter 1
```

The numbers 1025 and 1027 are the identifiers for the HBA cards.

## `appiqlist -device -host <id> -targetmapping`

where `<id>` is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the target mappings of the host specified.

## `appiqlist -device -host <id> -diskdrive`

where `<id>` is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the disk drives connected to the host specified.



## appiqlist -device -host <id> -logicaldisk

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the logical drives of the host specified.

## appiqlist -device -host <id> -volume

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the volume manager volumes of the host specified.

## appiqlist -device -host <id> -partition

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the partitions of the host specified.

## appiqlist -device -host <id> -multipathdevice

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the multipath devices connected to the host specified.

## appiqlist -device -host <id> -processor

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Lists the processors connected to the host specified.

**appiqset -device -host <id> -customname  
<new name>**

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Sets the custom name of the specified host.

**appiqshow -device -host -all**

**Description:** Provides a detailed description of the components on the hosts detected by the management server.

**appiqshow -device -host <id>**

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the host specified.

**appiqshow -device -host <id> -all**

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the specified host's components.

**appiqshow -device -host <id> -port**

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the Fibre Channel ports connected to the host specified.

## appiqshow -device -host <id> -application

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the applications on the host specified.

## appiqshow -device -host <id> -hba

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the host bus adapters connected to the host specified.

## appiqshow -device -host <id> -targetmapping

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the target mappings of the host specified.

## appiqshow -device -host <id> -diskdrive

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the disk drives connected to the host specified.

## appiqshow -device -host <id> -logicaldisk

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the specified host's logical disks.

## `appiqshow -device -host <id> -volume`

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the volume manager volumes on the host specified.

## `appiqshow -device -host <id> -partition`

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the partitions on the host specified.

## `appiqshow -device -host <id> -multipathdevice`

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the multi-path devices on the host specified.

## `appiqshow -device -host <id> -processor`

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides a detailed description of the processors on the host specified.

## `appiqstats -device -host -all`

**Description:** Provides statistics about the hosts the management server discovers.

## `appiqstats -device -host <id>`

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides statistics about the host specified.

`appiqstats -device -host <id> -logicaldisk`

where <id> is the host identifier. The host identifier can be obtained using several methods, such as the `appiqlist -device -host -all` command.

**Description:** Provides statistics about the logical disks on the specified host.

---

## Host Security Groups

Use the following CLI commands to manage host security groups:

`appiqlist -hostsecuritygroup <hostsecuritygroup id>`

**Description:** Provides the name of the specified host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

`appiqlist -hostsecuritygroup <hostsecuritygroup id>  
-all`

**Description:** Lists all the subcomponents belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

`appiqlist -hostsecuritygroup <hostsecuritygroup id>`  
`-port`

**Description:** Lists all the ports belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup`  
command.

`appiqlist -hostsecuritygroup <hostsecuritygroup id>`  
`-volume`

**Description:** Lists volumes in the host security group specified. The identifier for the host security group can be obtained using several methods, such as the  
`appiqlist -device -storagesystem <ssid> -hostsecuritygroup`  
command.

`appiqlist -hostsecuritygroup <hostsecuritygroup id>`  
`-initiator`

**Description:** Lists initiator ports associated with the host security group specified. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup`  
command.

## `appiqlist -hostsecuritygroup <hostsecuritygroup id> -lun`

**Description:** Lists all the LUNs belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqlist -hostsecuritygroup <hostsecuritygroup id> -hid`

**Description:** Lists all the hardware IDs belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqlist -hostsecuritygroup <hostsecuritygroup id> -subordinate`

**Description:** Lists all the subordinate host security groups belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqlist -hostsecuritygroup <hostsecuritygroup id> -maskingcapabilities`

**Description:** Lists all the masking capabilities belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqshow -hostsecuritygroup <hostsecuritygroup id>`

**Description:** Provides a detailed description of the specified host security group. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqshow -hostsecuritygroup <hostsecuritygroup id> -all`

**Description:** Provides detailed information about all the subcomponents belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqshow -hostsecuritygroup <hostsecuritygroup id> -port`

**Description:** Provides detailed information about all the ports belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqshow -hostsecuritygroup <hostsecuritygroup id> -volume`

**Description:** Provides detailed information about all volumes in the host security group specified. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.



## `appiqshow -hostsecuritygroup <hostsecuritygroup id> -initiator`

**Description:** Provides detailed information about all the initiators in the host security group specified. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqshow -hostsecuritygroup <hostsecuritygroup id> -lun`

**Description:** Provides detailed information about all the LUNs belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqshow -hostsecuritygroup <hostsecuritygroup id> -hid`

**Description:** Provides detailed information about all the hardware IDs belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqshow -hostsecuritygroup <hostsecuritygroup id> -subordinate`

**Description:** Provides detailed information about all the subordinate host security group belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqshow -hostsecuritygroup <hostsecuritygroup id> -maskingcapabilities`

**Description:** Provides detailed information about all the masking capabilities belonging to the specified host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqset -hostsecuritygroup <hostsecuritygroup id> -name <hostsecuritygroup name>`

**Description:** Sets or changes the name of the host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.

## `appiqset -hostsecuritygroup <hostsecuritygroup id> -hostmode <StorageClientSetting id>`

**Description:** Sets the host mode data.

where

- `<hostsecuritygroup id>` is the identifier for the host security group.
- `<StorageClientSetting id>` is the identifier for the storage client setting.

The identifiers for the host security group and storage client setting can be obtained using several methods, such as the

`appiqlist -device -storagesystem <ssid> -hostsecuritygroup`  
and  
`appiqlist -device -storagesystem <ssid> -  
storageclientsettings` commands.

```
appiqset -hostsecuritygroup <hostsecuritygroup
id>
-hostmode2 <String representing HostMode2
value>
```

**Description:** Sets data for the second host mode.

where

- <hostsecuritygroup id> is the identifier for the host security group.
- <String representing HostMode2 value> is the string for the second host mode.

```
appiqdelete -hostsecuritygroup
<hostsecuritygroup id>
```

**Description:** Deletes the host security group specified, where the <hostsecuritygroup id> is the identifier for the host security group. The identifier for the host security group can be obtained using several methods, such as the

```
appiqlist -device -storagesystem <ssid> -hostsecuritygroup
command.
```

```
appiqadd -hostsecuritygroup <hostsecuritygroup
id>
-volume <list of volume ids> -deviceaccess
<list of device access ids>
```

**Description:** Adds specified volumes to the host security group specified. The identifier for the host security group can be obtained using several methods, such as the

```
appiqlist -device -storagesystem <ssid> -hostsecuritygroup
command.
```

where <List of access types> is a list of volume access rights for each volume specified by <list of volume ids>. For each volume specified, you must provide one of the following numbers to indicate the access type:

- 0: Unknown access

- 2: Read-write
- 3: Read-only
- 4: No access

**appiqadd -hostsecuritygroup <host security group id> -initiator <list of hba port ids>**

**Description:** Adds specified initiator WWNs to the host security group specified.

where:

- <host security group id> is the identifier for the host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.
- <list of host port ids> it is the HBA port ID or initiator for the host. The HBA port ID can be obtained using several methods, such as the `appiqlist -device -host <host id> -port` command.

**appiqremove -hostsecuritygroup <host security group id> -volume <list of volume ids>**

**Description:** Removes specified volumes from the protocol controller specified.

where:

- <host security group id> is the identifier for the host security group. The identifier for the host security group can be obtained using several methods, such as the `appiqlist -device -storagesystem <ssid> -hostsecuritygroup` command.
- <list of volume ids> is a list of storage system volume IDs. The list of volume IDs can be obtained using several methods, such as the `appiqshow -hostsecuritygroup <hostsecuritygroup id> -volume` command.

**appiqremove -hostsecuritygroup <host security group id> - initiator <list of hba port ids>**

**Description:** Removes specified initiator WWNs from the protocol controller specified.

where:

- <host security group id> is the identifier for the host security group. The identifier for the host security group can be obtained using several methods, such as the  
appiqlist -device -storagesystem <ssid> -hostsecuritygroup command.
- <list of host port ids> is the HBA port ID or initiator for the host. The HBA port ID can be obtained using several methods, such as the  
appiqlist -device -host <host id> -port command.

**appiqcreate -hostsecuritygroup <storage system id> -initiator <list of host port wwns | list of host port  
Ids> [-name <name>]**

**Description:** Creates a host security group with the specified list of initiators (host ports) and with the given name.

where:

- <storage system id> can be obtained using several methods, such as the  
appiqlist -device -storagesystem -all command.
- <list of host port wwns | list of host port Ids> is a list of host ports (initiators). You can give either the port ID or its 16 digit world wide name (WWN). You can obtain the host port ID or its WWN from several methods, such as the following command: appiqlist -device -host <host id> -  
port
- <Name> (optional) is the name you specify for the host security group

**appiqcreate -hostsecuritygroup <storage system id> -port <list of storage system port ids> -  
initiator**

<list of host port wwns | list of host port Ids> [-  
name  
<name>]

**Description:** Creates a host security group with the given name that is associated with the specified lists of initiators (host ports) and storage system ports.

where:

- <storage system id> can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.
- <list of host port wwns | list of host port Ids> is a list of host ports (initiators). You can use either the port ID or its 16-digit world wide name (WWN). You can obtain the host port ID or its WWN from several methods, such as the following command: `appiqlist -device -host <host id> -port`
- <List of storagesystem ports IDs> is a list of storage system port IDs.
- <list of volume ids> is a list of storage system volume IDs.
- <Name> (optional) is the name you specify for the host security group.

`appiqcreate -hostsecuritygroup <storage system  
id> -port <list of storage system ports> -initiator  
<list  
of host port wwns | list of host port Ids> -volume  
<list  
of volume ids> -deviceaccess <list of deviceaccess  
values> [-name <name>]`

**Description:** Creates a host security group with a given name that is associated with the specified lists of initiators (host ports), storage system ports, and volumes. Device access specifies access level to each of the specified storage volume.

where:

- <storage system id> can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.
- <list of host port wwns | list of host port Ids> is a list of host ports (initiators). You can use either the port ID or its 16-digit world wide name (WWN). You can obtain the host port ID or its WWN from several methods, such as the following command: `appiqlist -device -host <host id> -port`

- <List of storagesystem ports IDs> is a list of storage system port IDs.
- <list of volume ids> is a list of storage system volume IDs.
- <list of deviceaccess values> is a list of volume access rights for each volume specified by <list of volume ids>. For each volume specified, you must provide one of the following numbers to indicate the access type:
  - 0: Unknown access
  - 2: Read-write
  - 3: Read-only
  - 4: No access
- *Optional*: <Name> is the name you specify for the host security group

Adding a list of initiator, volumes or storagesystem ports to a host security group (HSG) is specific to the storage system. Some storage system may not support adding more than one volume or initiator to the same HSG. Some storage systems may not support adding same volume to more than one HSG. You can obtain information about HSGs from the following command:

```
Appiqshow -device -storagesystem <storagesystem id> -
maskingcapabilities
```

---

## NetApp NAS Devices

Use the following CLI commands to show details for NetApp NAS devices:

### appiqlist -device -nashost -all

**Description:** Lists all NAS hosts.

### appiqlist -device -nashost <id>

**Description:** Lists all NAS hosts with matching ID.

### appiqlist -device -nashost <id> -all

**Description:** Lists all NAS host elements.

appiqlist -device -nashost <id> -volume

**Description:** Lists all the volumes of a NAS host.

appiqlist -device -nashost <id> -volume <id> -  
quota

**Description:** Lists all quotas for a volume of a NAS host.

appiqlist -device -nashost <id> -volume <id> -  
-snapshot

**Description:** Lists all snapshots for a volume of a NAS host.

appiqlist -device -nashost <id> -volume <id> -  
share

**Description:** Lists all shares for a volume of a NAS host.

appiqlist -device -nashost <id> -volume <id> -  
qtree

**Description:** Lists all qtrees for a volume of a NAS host.

appiqlist -device -nashost <id> -diskdrive

**Description:** Lists all disk drives of a NAS host.

appiqlist -device -nashost <id> -aggregate

**Description:** Lists all aggregates of a NAS host.



`appiqlist -device -nashost <id> -plex`

**Description:** Lists all plexes of a NAS host.

`appiqlist -device -nashost <id> -raid`

**Description:** Lists all RAID groups of a NAS host.

`appiqlist -fabric <id> -nashost`

**Description:** Lists all NAS hosts of a fabric.

`appiqlist -fabric -all -nashost`

**Description:** Lists all NAS hosts of all fabrics.

`appiqshow -device -nashost -all`

**Description:** Provides a detailed description of all NAS hosts.

`appiqshow -device -nashost <id> -all`

**Description:** Provides a detailed description of NAS host elements.

`appiqshow -device -nashost <id>`

**Description:** Provides a detailed description of a NAS host with a specified id.

`appiqshow -device -nashost <id> -volume`

**Description:** Provides a detailed description of all the volumes of a NAS host.

`appiqshow -device -nashost <id> -volume <id> -quota`

**Description:** Provides a detailed description of all the quotas for a volume of a NAS host.

`appiqshow -device -nashost <id> -volume <id> -snapshot`

**Description:** Provides a detailed description of all the snapshots for a volume of a NAS host.

`appiqshow -device -nashost <id> -volume <id> -share`

**Description:** Provides a detailed description of all the shares for a volume of a NAS host.

`appiqshow -device -nashost <id> -volume <id> -qtree`

**Description:** Provides a detailed description of all the qtrees for a volume of a NAS host.

`appiqshow -device -nashost <id> -diskdrive`

**Description:** Provides a detailed description of all the disk drives of a NAS host.

`appiqshow -device -nashost <id> -aggregate`

**Description:** Provides a detailed description of all the aggregates of a NAS host.

`appiqshow -device -nashost <id> -plex`

**Description:** Provides a detailed description of all the plexes of a NAS host.

`appiqshow -device -nashost <id> -raid`

**Description:** Provides a detailed description of all the raid groups of a NAS host.

`appiqshow -fabric <id> -nashost`

**Description:** Provides a detailed description of all the NAS hosts of a fabric.

`appiqshow -fabric -all -nashost`

**Description:** Provides a detailed description of all NAS hosts of all fabrics.

---

## Remote CIM Extensions Management

Use the following CLI commands to install, upgrade, and manage CIM extensions.

---

**Note** – You must copy the CIM extensions to the management server before you can remotely manage CIM extensions. Refer to the “Deploying and Managing CIM Extensions” chapter of the *installation guide* for more details.

---

---

**Note** – Each host being managed must be running a supported SSH daemon. The SSH daemon must support SFTP file transfers and the EXEC channel method of executing remote commands. The root or Administrator user must be allowed to log on for most operations.

---

`appiqinstall -agent -username <username of host>  
-password <password of host> -hostname <IP  
address or DNS name of host>`

**Description:** Performs an initial installation of the CIM extension configuration for the specified remote host.

`appiqinstall -ssh -username <username of host>  
-password <password of host> -hostname <IP  
address or DNS name of host>`

**Description:** Installs OpenSSH on the specified remote Windows host. This command works only from a Windows management server, and can deploy OpenSSH only to a Windows server.

`appiqstart -agent -username <username of host>  
-password <password of host> -hostname <IP  
address or DNS name of host>`

**Description:** Tries to start the CIM extension on the indicated remote host.

`appiqstop -agent -username <username of host>  
-password <password of host> -hostname <IP  
address or DNS name of host>`

**Description:** Tries to stop the CIM extension on the indicated remote host.

`appiqstatus -agent -username <username of host>  
-password <password of host> -hostname <IP  
address or DNS name of host>`

**Description:** Attempts to contact the CIM extension on the indicated remote host. If successful, the version number of the agent is returned.

`appiqfetch -logs -username <username of host>  
-password <password of host> -hostname <IP  
address or DNS name of host>`

**Description:** Retrieves the CIM extension log files from the indicated host. The files are zipped and the resulting zip file stored in the indicated directory on the management server.

`appiquupdate -agent -username <username of  
host>  
-password <password of host> -hostname <IP  
address or DNS name of host>`

**Description:** Updates the CIM extension on the indicated host.

`appiqfetch -config -username <username of host>  
-password <password of host> -hostname <IP  
address or DNS name of host>`

**Description:** Retrieves the CIM extension configuration files from the indicated remote host. If successful, the configuration files are copied to the indicated directory on the management server.

`appiquupdate -config -username <username of host>`

`-password <password of host> -hostname <IP address or DNS name of host>`

**Description:** Updates the CIM extension configuration files for the indicated remote host.

For the `appiquupdate -config` command, the following arguments are all optional. If they are not specified, they will be left out of the configuration.

`-port`: The port to start the agent on.

`-ip`: The IP address to start the agent on (useful for multihomed systems).

`-autoip`: Specifies that the same IP address used to communicate with the machine via SSH is used to start the agent.

`-agentUsername`: The username the agent will respond to.

`-agentPassword`: The password the agent will respond to.

`appiquinstall -agent -username <username of host>`

`-password <password of host> -hostname <IP address or DNS name of host>`

**Description:** Uninstalls the CIM extension from the indicated host.

---

## Reports

Use the following CLI commands to view information about reports:

- `"appiqshow -report -all"` on page 103
- `"appiqlist -report -assetmanagement"` on page 103
- `"appiqlist -report -chargebackmanager"` on page 103
- `"appiqrun -report <id> -organization <ids> -startdate <date> -enddate <date> [-format <html, pdf> -path <dir>]"` on page 103
- `"appiqshow -report -all"` on page 103

- “appiqshow -report -assetmanagement” on page 104
- “appiqshow -report -chargebackmanager” on page 104

### Optional Parameters

`-organization`: This parameter is only for run commands. It is a filter for organization IDs. You can run reports for one organization or many. If this option is not specified as parameter in the command, the report will be generated for all organizations assigned to a user ID.

`-path`: This parameter helps to define the destination directory at local host for a report generated at the server.

`-format`: This parameter defines the file format of the report. The default format is HTML. The parameter values can be html, pdf, xml or excel.

## appiqlist -report -all

**Description:** Lists all reports.

## appiqlist -report -assetmanagement

**Description:** Lists all asset management reports.

## appiqlist -report -chargebackmanager

**Description:** Lists all Chargeback reports.

`appiqrun -report <id> -organization <ids> -startdate <date> -enddate <date> [-format <html, pdf> -path <dir>]`

**Description:** Runs the specified report.

## appiqshow -report -all

**Description:** Provides detailed information for all reports.

## appiqshow -report -assetmanagement

**Description:** Provides detailed information for all asset management reports

## appiqshow -report -chargebackmanager

**Description:** Provides detailed information for all Chargeback reports.

---

## Element Specific Reports

Use the following CLI commands to view information about element specific reports:

- “appiqlist -report -application” on page 104
- “appiqlist -report -applicationcluster” on page 105
- “appiqlist -report -host” on page 105
- “appiqlist -report -hostcluster” on page 105
- “appiqlist -report -nas” on page 105
- “appiqlist -report -switch” on page 105
- “appiqlist -report -tapelibrary” on page 105
- “appiqlist -report -storagesystem” on page 105
- “appiqlist -report <id> -organization <ids> -element <id> [-format <html, pdf> -path <dir> ]” on page 105
- “appiqshow -report -application” on page 106
- “appiqshow -report -applicationcluster” on page 106
- “appiqshow -report -host” on page 106
- “appiqshow -report -hostcluster” on page 106
- “appiqshow -report -nas” on page 106
- “appiqshow -report -switch” on page 106
- “appiqshow -report -tapelibrary” on page 106
- “appiqshow -report -storagesystem” on page 106

## appiqlist -report -application

**Description:** List all application reports.



## appiqlist -report -applicationcluster

**Description:** Lists all application cluster reports.

## appiqlist -report -host

**Description:** Lists all host reports.

## appiqlist -report -hostcluster

**Description:** Lists all host cluster reports.

## appiqlist -report -nas

**Description:** Lists all NAS reports.

## appiqlist -report -switch

**Description:** Lists all switch reports.

## appiqlist -report -tapelibrary

**Description:** Lists all tape library reports.

## appiqlist -report -storagesystem

**Description:** Lists all storage system reports.

## appiqrn -report <id/name> -organization <ids> -element <id> [-format <html, pdf> -path <dir> ]

**Description:** Runs the specified report.

`appiqshow -report -application`

**Description:** Provides detailed information for all application reports.

`appiqshow -report -applicationcluster`

**Description:** Provides detailed information for all application cluster reports.

`appiqshow -report -host`

**Description:** Provides detailed information for all host reports.

`appiqshow -report -hostcluster`

**Description:** Provides detailed information for all host cluster reports.

`appiqshow -report -nas`

**Description:** Provides detailed information for all NAS reports.

`appiqshow -report -switch`

**Description:** Provides detailed information for all switch reports.

`appiqshow -report -tapelibrary`

**Description:** Provides detailed information for all tape library reports.

`appiqshow -report -storagesystem`

**Description:** Provides detailed information for all storage system reports.

---

# Protection Explorer Reports

Use the following CLI commands to view information about Protection Explorer reports:

- “appiqlist -report -backupmanager” on page 107
- “appiqrund -report <id> -organization <ids> -startdate <date> -enddate <date> [-format <html, pdf> -path <dir> ]” on page 107
- “appiqrund -report <id> -organization <ids> -startdate <date> -enddate <date> -backupclientes <all/unix/windows> -backupclient <id> -tapelibrary < id> -consfailedjobsno <1/2/3/4/5> [-format <html,pdf> -path <dir>]” on page 107
- “appiqshow -report -backupmanager” on page 108

## appiqlist -report -backupmanager

**Description:** Lists all Protection Explorer reports.

```
appiqrund -report <id> -organization <ids> -
startdate <date> -enddate
<date> [-format <html, pdf> -path <dir> ]
```

**Description:** Runs the specified report.

```
appiqrund -report <id> -organization <ids> -
startdate <date> -enddate <date> -backupclientes
<all/unix/windows> -backupclient <id> -
tapelibrary < id> -consfailedjobsno <1/2/3/4/5>
[-format <html,pdf> -path <dir>]
```

**Description:** Runs Protection Explorer reports with organization, startdate and enddate parameters, and specified optional parameters.

## appiqshow -report -backupmanager

**Description:** Provides detailed information for all Protection Explorer reports.

---

## Global Reports

Use the following CLI commands to view information about global reports:

- “appiqlist -report -globalreports” on page 108
- “appiqlist -report -globalreports -system” on page 108
- “appiqlist -report -globalreports -system -application” on page 108
- “appiqlist -report -globalreports -system -host” on page 109
- “appiqlist -report -globalreports -system -storagesystem” on page 109
- “appiqlist -report -globalreports -system -switch” on page 109
- “appiqrun -report <id> -organization <ids> [-format <html, pdf> -path <dir>]” on page 109
- “appiqshow -report -globalreports” on page 109
- “appiqshow -report -globalreports -system” on page 109
- “appiqshow -report -globalreports -system -application” on page 109
- “appiqshow -report -globalreports -system -host” on page 110
- “appiqshow -report -globalreports -system -storagesystem” on page 110
- “appiqshow -report -globalreports -system -switch” on page 110

## appiqlist -report -globalreports

**Description:** Lists all global reports.

## appiqlist -report -globalreports -system

**Description:** Lists all global system reports.

## appiqlist -report -globalreports -system -application

**Description:** Lists all global application reports.

`appiqlist -report -globalreports -system -host`

**Description:** Lists all global host reports.

`appiqlist -report -globalreports -system -storagesystem`

**Description:** Lists all global storage system reports.

`appiqlist -report -globalreports -system -switch`

**Description:** Lists all global switch reports.

`appiqrn -report <id> -organization <ids> [-format <html, pdf> -path <dir>]`

**Description:** Runs the specified report.

`appiqshow -report -globalreports`

**Description:** Provides detailed information for all global reports.

`appiqshow -report -globalreports -system`

**Description:** Provides detailed information for all global system reports.

`appiqshow -report -globalreports -system -application`

**Description:** Provides detailed information for all global application reports.

`appiqshow -report -globalreports -system -host`

**Description:** Provides detailed information for all global host reports.

`appiqshow -report -globalreports -system -storagesystem`

**Description:** Provides detailed information for all global storage system reports.

`appiqshow -report -globalreports -system -switch`

**Description:** Provides detailed information for all global switch reports.

---

## System Reports

Use the following CLI commands to view information about system reports:

- `"appiqlist -report -system -all"` on page 111
- `"appiqlist -report -system -application"` on page 111
- `"appiqlist -report -system -cluster"` on page 112
- `"appiqlist -report -system -events"` on page 112
- `"appiqlist -report -system -fabric"` on page 112
- `"appiqlist -report -system -fileservers"` on page 112
- `"appiqlist -report -system -hba"` on page 112
- `"appiqlist -report -system -host"` on page 112
- `"appiqlist -report -system -nas"` on page 112
- `"appiqlist -report -system -performance"` on page 112
- `"appiqlist -report -system -storagesystem"` on page 113
- `"appiqlist -report -system -switch"` on page 113
- `"appiqrund -report <id> -organization <ids> [-format <html,pdf> -path <dir> ]"` on page 113
- `"appiqrund -report <id/name> -organization <ids> [-format <html, pdf> -path <dir> ]"` on page 113
- `"appiqrund -report <id> -organization <ids> -applicationtype <all/database/exchange> -startdate <date> -enddate <date> -interval <raw/daily/weekly/monthly> -topn <1-n> [-format <html, pdf> -path <dir> ]"` on page 113
- `"appiqrund -report <id> -organization <ids> -fabric <fabric id/unknown> [-format <html, pdf> -path <dir>]"` on page 113

- “appiqr run -report <id> -organization <ids> -startdate <date> -enddate <date> -elementtype <application/fabric/host/storagesystem/switch/tapelibrary/all> -eventseverity <critical/informational/major/minor/unknown/warning/all> [-format <html, pdf> -path <dir>]” on page 114
- “appiqr run -report <id> -organization <ids> -startdate <date> -enddate <date> -interval <raw,daily,weekly,monthly> -os <all,aix,altix,hp-ux,irix,linux,openvm,...> [-format <html, pdf> -path <dir> ]” on page 114
- “appiqr run -report <id> -organization <ids> -startdate <date> -enddate <date> -interval <raw/daily/weekly/monthly> -storagesystem <id> -storagepool | | -storagevolume <id> -storagecontroller <id> -storageFCPort <id> -diskdrive <id> -switchtype <id> [-format <html,pdf> -path <dir> ]” on page 114
- “appiqr run -report <id> -organization <ids> -startdate <date> -enddate <date> -vendor <all, 3par, clarion, hp-eva, hp-msa, hp-xp,...> [-format <html, pdf> -path <dir> ]” on page 115
- “appiqr run -report <id/name> -organization <ids> -switchvendor <all/qlogic/cnt/brocade/mcdata/cisco> [-format <html, pdf> -path <dir>]” on page 115
- “appiqr run -report <id> -organization <ids> -topn <1...n> -fileservers <fileservers name> -fsrmvolume <volume name> -fsrmvolumerule <rule name> [-format <html, pdf> -path <dir> ]” on page 115
- “appiqshow -report -system -all” on page 115
- “appiqshow -report -system -application” on page 115
- “appiqshow -report -system -cluster” on page 116
- “appiqshow -report -system -events” on page 116
- “appiqshow -report -system -fabric” on page 116
- “appiqshow -report -system -fileservers” on page 116
- “appiqshow -report -system -hba” on page 116
- “appiqshow -report -system -host” on page 116
- “appiqshow -report -system -nas” on page 116
- “appiqshow -report -system -performance” on page 116
- “appiqshow -report -system -storagesystem” on page 117
- “appiqshow -report -system -switch” on page 117

## appiqlist -report -system -all

**Description:** Lists all system reports.

## appiqlist -report -system -application

**Description:** Lists the system application report.

`appiqlist -report -system -cluster`

**Description:** Lists the system cluster report.

`appiqlist -report -system -events`

**Description:** Lists the system events reports.

`appiqlist -report -system -fabric`

**Description:** Lists the system fabric reports.

`appiqlist -report -system -filesserver`

**Description:** Lists the system file server reports.

`appiqlist -report -system -hba`

**Description:** Lists the system hba reports.

`appiqlist -report -system -host`

**Description:** Lists the system host reports.

`appiqlist -report -system -nas`

**Description:** Lists the system NAS reports.

`appiqlist -report -system -performance`

**Description:** Lists the system performance reports.



**appiqlist -report -system -storagesystem**

**Description:** Lists the system storage system reports.

**appiqlist -report -system -switch**

**Description:** Lists the system switch reports.

**appiqrund -report <id > -organization <ids> [-  
format <html,pdf> -path <dir> ]**

**Description:** Runs the specified report.

**appiqrund -report <id/name> -organization <ids>  
[-format <html, pdf> -path <dir> ]**

**Description:** Runs the specified report.

**appiqrund -report <id> -organization <ids> -  
applicationtype <all/database/exchange>  
-startdate <date> -enddate <date> -interval  
<raw/daily/weekly/monthly> -topn <1-n>  
[-format <html, pdf> -path <dir> ]**

**Description:** Runs the specified report.

**appiqrund -report <id> -organization <ids> -fabric  
<fabric id/unknown>  
[-format <html, pdf> -path <dir>]**

**Description:** Runs the specified report.

```
appiqr run -report <id> -organization <ids> -
startdate <date> -enddate <date>
-elementtype
<application/fabric/host/storagesystem/switch/
tapelibrary/all> -eventseverity
<critical/informational/major/minor/unknown/
warning/all> [-format <html, pdf> -path <dir>]
```

**Description:** Runs the specified report.

```
appiqr run -report <id> -organization <ids> -
startdate <date> -enddate <date>
-interval <raw,daily,weekly,monthly> -os
<all,aix,altix,hp-ux,irix,linux,openvm,...> [-format
<html, pdf> -path <dir> ]
```

**Description:** Runs the specified report.

```
appiqr run -report <id> -organization <ids> -
startdate <date> -enddate <date> -interval
<raw/daily/weekly/monthly> -storagesystem
<id> -storagepool || -storagevolume <id>
-storagecontroller <id> -storageFCPort <id> -
diskdrive <id> -switchtype <id> [-format
<html,pdf>
-path <dir> ]
```

**Description:** Runs the specified report.

```
appiqr run -report <id> -organization <ids> -  
startdate <date> -enddate <date>  
-vendor <all, 3par, clarion, hp-eva, hp-msa, hp-  
xp,...> [-format <html, pdf> -path <dir> ]
```

**Description:** Runs the specified report.

```
appiqr run -report <id/name> -organization <ids>  
-switchvendor  
<all/qlogic/cnt/brocade/mcdata/cisco> [-format  
<html, pdf> -path <dir>]
```

**Description:** Runs the specified report.

```
appiqr run -report <id> -organization <ids> -topn  
<1...n> -fileserver <fileserver name>  
-fsrmvolume <volume name> -fsrmvolumerule  
<rule name> [-format <html, pdf> -path <dir> ]
```

**Description:** Runs the specified report.

```
appiqr show -report -system -all
```

**Description:** Provides detailed information for all system reports.

```
appiqr show -report -system -application
```

**Description:** Provides detailed information for all system application reports.

`appiqshow -report -system -cluster`

**Description:** Provides detailed information for all system cluster reports.

`appiqshow -report -system -events`

**Description:** Provides detailed information for all system events reports.

`appiqshow -report -system -fabric`

**Description:** Provides detailed information for all system fabric reports.

`appiqshow -report -system -fileserver`

**Description:** Provides detailed information for for all system file server reports.

`appiqshow -report -system -hba`

**Description:** Provides detailed information for for all system HBA reports.

`appiqshow -report -system -host`

**Description:** Provides detailed information for all system host reports.

`appiqshow -report -system -nas`

**Description:** Provides detailed information for all system NAS reports.

`appiqshow -report -system -performance`

**Description:** Provides detailed information for all system performance reports.

`appiqshow -report -system -storagesystem`

**Description:** Provides detailed information for all system storage system reports.

`appiqshow -report -system -switch`

**Description:** Provides detailed information for for all system switch reports.

---

## Security

Use the following CLI commands to view information about users, groups, organizations, and roles.

`appiqadd -organization <id> -host <ids> -switch  
<ids> -storagesystem <ids> -application <ids>  
-tapelibrary <ids> -childorganization <ids> -  
volume <ids>`

**Description:** Adds top-level elements to an organization.

`appiqcreate -organization -name <orgName> -  
description <text>  
-host <ids> -switch <ids> -storagesystem <ids> -  
tapelibrary <ids> -application <ids>  
-childorganization <ids> -volume <ids>`

**Description:** Creates a new organization and adds top-level and sub-elements in the organization.

## appiqdelete -organization <id>

**Description:** Deletes the specified organization.

## appiqlist -user -all

**Description:** Lists users authorized to access the management server.

## appiqlist -user <user id>

**Description:** Provides information about the specified user. You can obtain the identifier for the user from the `appiqlist -user -all` command.

## appiqlist -user <user id> -role

**Description:** Provides information about the specified user's role. You can obtain the identifier for the user from the `appiqlist -user -all` command.

## appiqlist -user <user id> -organization

**Description:** Provides information about the specified user's organizations. You can obtain the identifier for the user from the `appiqlist -user -all` command.

## appiqlist -role -all

**Description:** Lists all the available roles in the server.

## appiqlist -role <role id>

**Description:** Provides information about the role specified. You can obtain the identifier for the role from the `appiqlist -role -all` command.

## appiqlist -organization -all

**Description:** Lists the organizations available in the management server.

## appiqlist -organization <org id>

**Description:** Provides information about the organization specified. You can obtain the identifier for the organization from the `appiqlist -organization -all` command.

## appiqlist -organization <org id> -element

**Description:** Lists elements available in the organization specified. You can obtain the identifier for the organization from the `appiqlist -organization -all` command.

## appiqlist -organization <org id> -user

**Description:** Lists users in the organization specified. You can obtain the identifier for the organization from the `appiqlist -organization -all` command.

## appiqlist -organization <org id> -childorganization

**Description:** Lists child organizations in the organization specified. You can obtain the identifier for the organization from the `appiqlist -organization -all` command.

## appiqremove -organization <id> -host <ids> -switch <ids> -storagesystem <ids> -application <ids> -tapelibrary <ids> -childorganization <ids> -volume <ids>

**Description:** Removes top level elements in a organization.

`appiqset -organization <id> -name <orgName> -description <text>  
-host <ids> -switch <ids> -storagesystem <ids> -application <ids> -tapelibrary <ids>  
-childorganization <ids> -volume <ids>`

**Description:** Sets the organization name and description, and also replaces the top-level and sub-elements in the organization.

`appiqshow -user -all`

**Description:** Provides a detailed description about the users authorized to access the management server.

`appiqshow -user <user id>`

**Description:** Provides a detailed description of the specified user. You can obtain the identifier for the user from the `appiqlist -user -all` command.

`appiqshow -user <user id> -role`

**Description:** Provides a detailed description of the specified user's role. You can obtain the identifier for the user from the `appiqlist -user -all` command.

`appiqshow -user <user id> -organization`

**Description:** Provides a detailed description of the specified user's organizations. You can obtain the identifier for the user from the `appiqlist -user -all` command.

`appiqshow -role -all`

**Description:** Provides a detailed description of the available roles on the server.



## appiqshow -role <role id>

**Description:** Provides a detailed description of the role specified. You can obtain the identifier for the role from the `appiqlist -role -all` command.

## appiqshow -organization - all

**Description:** Provides a detailed description of the organizations available in the management server.

## appiqshow -organization <org id>

**Description:** Provides a detailed description of the organization specified. You can obtain the identifier for the organization from the `appiqlist -organization -all` command.

## appiqshow -organization <org id> -element

**Description:** Provides a detailed description of all the elements available in the organization specified. You can obtain the identifier for the organization from the `appiqlist -organization -all` command.

## appiqshow -organization <org id> -user

**Description:** Provides a detailed description of all the users in the organization specified. You can obtain the identifier for the organization from the `appiqlist -organization -all` command.

## appiqshow -organization <org id> -childorganization

**Description:** Provides a detailed description of all the child organizations in the organization specified. You can obtain the identifier for the organization from the `appiqlist -organization -all` command.

---

# Storage Pools

Use the CLI commands in this section to manage storage pools.

## `appiqlist -pool <pool id>`

**Description:** Provides the name of a specific storage pool. The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.

## `appiqlist -pool <pool id> -volume`

**Description:** Lists volumes on the storage pool specified. The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.

## `appiqlist -pool <pool id> -storageextent`

**Description:** Lists storage extents on the storage pool specified. The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.

## `appiqlist -pool <pool id> -storagesetting`

**Description:** Lists storage settings for the pool specified:

Keep in mind the following:

- For a parent pool (unconfigured pool), the storage settings provided from this command are used in the creation of a pool.
- For a nonparent pool, the storage settings provided from this command are used in volume creation.

The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.

## appiqshow -pool <pool id>

**Description:** Provides a detailed description of the pool specified. The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.

## appiqshow -pool <pool id> -storagesetting

**Description:** Provides a detailed list of storage settings for this pool.

Keep in mind the following:

- For a parent pool (unconfigured pool), these settings are used in the creation of a pool.
- For a non-parent pool, these settings are used in volume creation.

The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.

## appiqshow -pool <pool id> -storageextent

**Description:** Provides a detailed description of storage extents on the pool specified. The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.

## appiqshow -pool <pool id> -volume

**Description:** Provides a detailed description of volumes on the pool specified. The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.

## appiqcreate -pool <pool id 1>...<pool id n> -storagesetting <storage settings id> -size <size in MB>

**Description:** Creates a storage pool with the specified unconfigured pools, storage setting and size. Not all storage systems support assigning the name at creation time.

where:

- `<pool id>` is an unconfigured pool ID. The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.
- `<storage setting id>` is the storage setting ID for the new pool. You can obtain the storage setting ID from one of the following commands:
  - `appiqshow -device -storage system <storagesystem id> -pool`
  - `appiqlist -pool <id> -storagesetting`
  - `appiqshow -pool <id> -storagesetting` (This command also shows supported sizes for each of the storagesetting.)
- `<size in MB>` is the size of the pool in megabytes.

```
appiqcreate -pool <pool id 1>...<pool id n> -  
extents  
<extent id 1>...<extend id n> -storagesetting  
<storage settings id> -size <size in MB>
```

**Description:** Creates a storage pool with the specified unconfigured pools, storage setting, size, and storage pool name. The parameters must be entered in the specified order.

where:

- `<pool id>` is an unconfigured pool ID. The pool ID can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool` command.
- `<extent id 1>` is the extent identifier. This command currently supports only one extent identifier.
- `<storage setting id>` is the storage setting ID for the new pool. You can obtain the storage setting ID from one of the following commands:
  - `appiqshow -device -storage system <storagesystem id> -pool`
  - `appiqlist -pool <id> -storagesetting`
  - `appiqshow -pool <id> -storagesetting` - This command also shows supported sizes for each of the storagesetting.
- `<size in MB>` is the size of the pool in megabytes.

## appiqdelete -pool <pool id>

**Description:** Deletes a storage pool, where <pool id> is the identifier for the storage system pool. The identifier for the storage system pool can be obtained using several methods, such as the `appiqlist -device -storagesystem <storage system id> -pool command`.

---

## Sorting the Information Displayed

This software provides several commands that let you sort the information displayed. Before you can use the commands for sorting information on Windows, you must install Cygwin, which is accessible from <http://www.cygwin.com/>. Cygwin is a program that simulates a Linux environment. Cygwin is required, because the following commands include the `grep` command, which is not recognized by Windows but it is recognized by Linux. If you have the CLI installed on Windows, the commands mentioned in this section must be typed in the Cygwin interface. Refer to the Cygwin Web site for technical questions and issues.

If you have not already done so, connect to the management server. See “Before Using the CLI” on page 2 or type “`AppiqConfig -help`” in the CLI.

## Sorting Hosts by Number of HBAs

To sort hosts by the number of host bus adapters, enter the following at the command prompt:

```
# appiqlist -fabric -all -host | grep "^Host:" | sort | uniq -c | sort -rn
```

The software displays the following:

```
2 Host:3563:Host_3563
2 Host:1622:ufo
2 Host:1620:challenger
2 Host:1608:YAMATO
2 Host:1607:TIRPITZ
1 Host:3597:Host_3597
1 Host:3594:Host_3594
1 Host:3591:Host_3591
1 Host:3588:Host_3588
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the host.

## Sort Storage Systems by Number of Fabrics Connected

To sort the storage systems by the number of fabrics connected, enter the following at the command prompt:

```
# appiqlist -fabric -all -storagesystem | grep "^StorageSystem:" |  
sort | uniq -c | sort -rn
```

The software displays the following:

```
6 StorageSystem:1616:000183500570 (Symm48:3830)  
4 StorageSystem:3536:HITACHI DISK-SUBSYSTEM 0118  
2 StorageSystem:3527:DGC LUNZ 0099  
2 StorageSystem:1618:LSI2400  
2 StorageSystem:1019:LSI4600
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the storage system.

## Search Fabrics for Zone Sets with the Same Name

To obtain a list of fabrics with zone sets with the same name, enter the following at the command prompt:

```
# appiqlist -fabric -all -zoneset | grep "^ZoneSet:" | cut -d':' -f3  
| sort | uniq -c | sort -rn
```

The software displays the following:

```
3 QAConfig01  
3 DevConfig01  
2 QAConfig03  
2 QAConfig02  
2 DevConfig03  
1 test98798798  
1 test650  
1 test
```

The first item is the number of zone sets with the same name. The second item is the name of the zone set.

## Sort All Zones in All Fabrics by Zone Name

To sort all zones in all fabrics by zone name, enter the following at the command prompt:

```
# appiqlist -fabric -all -zone | grep "^Zone:" | cut -d':' -f3 | sort
```

The software displays the following:

```
BobsLP8000_FA13B
```

```
BobsLP8000_FA13B
```

```
Challenger_FA13A
```

```
Challenger_FA16A
```

The names of the zones are displayed.

## Display Model Numbers of All Switches

To display the model numbers of all switches, enter the following at the command prompt:

```
# appiqshow -fabric -all -switch | grep "^Model:" | cut -d':' -f2 |  
sort | uniq -c | sort -rn
```

The software displays the following:

```
5 SilkWorm 2800
```

```
2 SilkWorm 3800
```

```
2 SilkWorm 2400
```

```
1 5000.001
```

The first item is the number of switches of that type. The second item is the model name.

---

## Storage Systems

Use the following types of CLI commands to obtain information about storage systems:

- **appiqlist** - Lists information about the components of the storage system.
- **appiqshow** - Provides a detailed description of the components in the storage system.
- **appiqstats** - Provides statistics about a storage system or its components, such as a storage pool.

## appiqdelete -device -storagesystem <storage system id> [-accesspoint]

where <storage system id> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Deletes the specified storage system. The optional `-accesspoint` tag deletes the storage system entry from the access point list.

## appiqlist -device -storagesystem -all

**Description:** Lists the storage systems the management server detects.

**Example:**

```
C:\cli>appiqlist -device -storagesystem -all

StorageSystem:1000:HDS9910@192.168.1.236

StorageSystem:1001:000183500570 (Symm48:3830)

StorageSystem:1006:LSI2400

StorageSystem:1009:LSI4600
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the element.

## appiqlist -device -storagesystem <storage system id>

where <storage system id> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.



**Description:** Provides the name of the storage system specified.

**Example:**

```
C:\cli>appiqlist -device -storagesystem 1006
```

```
StorageSystem:1006:LSI2400
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the element.

```
appiqlist -device -storagesystem <storage system id>  
-all
```

where <storage system id> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the subcomponents of the specified storage system.

```
appiqlist -device -storagesystem <ssid> -port
```

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the ports for the storage system specified.

```
appiqlist -device -storagesystem <ssid> -lun
```

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the LUNs for the storage system specified.

## appiqlist -device -storagesystem <ssid> -pool

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the storage pools for the storage system specified.

## appiqlist -device -storagesystem <ssid> -volume

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command. To view volume information for HiCommand storage systems, use the `AppIQList -device -storagesystem <ssid> -unmappedvolume` and `AppIQList -device -storagesystem <ssid> -mappedvolume` commands. See the “Volumes” on page 145 for more information.

**Description:** Lists the volumes for the storage system specified.

## appiqlist -device -storagesystem <ssid> -storagecapability

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the storage capabilities for the storage system specified.

## appiqlist -device -storagesystem <ssid> -drive

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the drives for the storage system specified.

## `appiqlist -device -storagesystem <ssid> -extent`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the extents for the storage system specified.

## `appiqlist -device -storagesystem <ssid> -hostsecuritygroup`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides the host security group for the storage system specified.

## `appiqlist -device -storagesystem <ssid> -maskingcapabilities`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the masking capabilities for the storage system specified.

## `appiqlist -device -storagesystem <ssid> -unmappedvolume`

where <ssid> is the identifier for a storage system. The storage system identifier can be found through several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the unmapped volumes for the storage system specified.

## `appiqlist -device -storagesystem <ssid> -mappedvolume`

where `<ssid>` is the identifier for a storage system. The storage system identifier can be found through several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the mapped volumes for the storage system specified.

## `appiqlist -device -storagesystem <ssid> -storageclientsettings`

where `<ssid>` is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Lists the storage client settings for the storage system specified.

## `appiqset -device -storagesystem <ssid> -customname <new name>`

where `<ssid>` is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Sets the custom name of the specified storage system.

## `appiqshow -device -storagesystem -all`

**Description:** Provides a detailed description of the storage systems detected by the management server.

## `appiqshow -device -storagesystem <ssid>`

where `<ssid>` is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command. To view volume information for HiCommand

storage systems, use the `AppIQShow -device -storagesystem <ssid> -unmappedvolume` and `AppIQShow -device -storagesystem <ssid> -mappedvolume` commands. See “Volumes” on page 145 for more information.

**Description:** Provides a detailed description of the specified storage system, such as the controller port identifiers for the storage system specified, not the actual ports.

## `appiqshow -device -storagesystem <ssid> -all`

where `<ssid>` is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the components of the storage system specified.

## `appiqshow -device -storagesystem <ssid> -port`

where `<ssid>` is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the ports for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -lun`

where `<ssid>` is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the LUNs for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -pool`

where `<ssid>` is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the storage pools for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -volume`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command. To view volume information for HiCommand storage systems, use the `AppIQShow -device -storagesystem <ssid> -unmappedvolume` and `AppIQShow -device -storagesystem <ssid> -mappedvolume` commands. See “Volumes” on page 145 for more information.

**Description:** Provides a detailed description of the volumes for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -unmappedvolume`

where <ssid> is the identifier for a storage system. The storage system identifier can be found through several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the unmapped volumes for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -mappedvolume`

where <ssid> is the identifier for a storage system. The storage system identifier can be found through several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the mapped volumes for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -storagecapability`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the storage pool capability for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -drive`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the drives for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -extent`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the extents for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -hostsecuritygroup`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the host security group for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -maskingcapabilities`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the masking capabilities for the storage system specified.

## `appiqshow -device -storagesystem <ssid> -storageclientsettings`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides a detailed description of the storage client settings for the storage system specified.

## `appiqstats -device -storagesystem -all`

**Description:** Provides statistics about the storage systems the management server discovers.

## `appiqstats -device -storagesystem <ssid>`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.

**Description:** Provides statistics about the storage system specified.

## `appiqstats -device -storagesystem <ssid> -pool`

where <ssid> is the storage system identifier. The storage system identifier can be obtained using several methods, such as the `appiqlist -device -storagesystem -all` command.



**Description:** Provides statistics about the storage pools on the specified storage systems.

---

## Switches

Use the following types of CLI commands to obtain information about switches:

- **appiqlist** - Lists information about the components of the switch
- **appiqshow** - Provides a detailed description of the components in the switch

### `appiqdelete -device -switch <switch id> [-accesspoint]`

where `<switch id>` is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Deletes the specified switch. The optional `-accesspoint` tag deletes the switch entry from the access point list.

### `appiqlist -device -switch -all`

**Description:** Lists the switches the management server detects.

**Example:**

```
C:\cli>appiqlist -device -switch -all

Switch:1005:QBrocade2

Switch:1007:QBrocade5

Switch:1008:AppIQ_ED-6064

Switch:1011:AppIQ_ES-3016

Switch:1012:QBrocade3

Switch:1013:QBrocade4

Switch:1014:QBrocade1
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the element.

## appiqlist -device -switch <switch id>

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides the name of the switch specified by the switch identifier.

### Example:

```
C:\cli>appiqlist -device -switch 1007
```

```
Switch:1007:QBrocade5
```

The number after the first colon is the identifier for the element. The item after the second colon is the name of the element.

## appiqlist -device -switch <switch id> -all

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Lists the elements associated with the specified switch, such as ports, zones, zone aliases and zone sets.

## appiqlist -device -switch <switch id> -port

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides information about the ports on the specified switch.

## appiqlist -device -switch <switch id> -zonealias

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides information about zone aliases on the specified switch.

## appiqlist -device -switch <switch id> -zone

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides information about zones on the specified switch.

## appiqlist -device -switch <switch id> -zoneset

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides information about zone sets on the specified switch.

## appiqset -device -switch <switch id> - customname <new name>

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Sets the custom name of the specified switch.

## appiqshow -device -switch -all

**Description:** Provides detailed information about the switches detected by the management server. Inter Switch Link (ISL) trunking information is also provided, if accessible, for supported switches.

## appiqshow -device -switch <switch id>

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides detailed information about the specified switch.

## appiqshow -device -switch <switch id> -all

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides detailed information about the specified switch and the subelements of the switch, such as ports, zones, zone aliases, and zone sets.

## appiqshow -device -switch <switch id> -port

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides detailed information about the ports on the specified switch. Inter Switch Link (ISL) trunking information is also provided, if accessible, for supported switches.

## appiqshow -device -switch <switch id> -zone

where <switch id> is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides detailed information about zones in the switch fabric.

`appiqshow -device -switch <switch id> -zoneset`

where `<switch id>` is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides detailed information about zone sets in the switch fabric.

`appiqshow -device -switch <switch id> -zonealias`

where `<switch id>` is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides detailed information about zone aliases in the switch fabric.

`appiqstats -device -switch -all`

**Description:** Provides statistical information about all switches

`appiqstats -device -switch <switch id>`

where `<switch id>` is the switch identifier. The switch identifier can be obtained using several methods, such as the `appiqlist -device -switch -all` command.

**Description:** Provides statistical information about a specified switch.

---

## Tape Libraries

Use the following types of CLI commands to obtain information about tape libraries:

- **appiqlist** - Lists information about the components of the tape libraries
- **appiqshow** - Provides a detailed description of the components in the tape libraries

## `appiqdelete -device -tapelibrary <library ID> [-accesspoint]`

where `<library id>` is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Deletes the specified element. The optional `-accesspoint` tag deletes the tape library entry from the access point list.

## `appiqlist -device -tapelibrary -all`

**Description:** Lists all the tape libraries that the management server detects.

## `appiqlist -device -tapelibrary <library ID>`

where `<library id>` is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Provides the name of the specified tape library.

## `appiqlist -device -tapelibrary <library ID> -all`

where `<library id>` is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Lists all the subcomponents (port, media access device, controller cards, and changer devices) that belong to the specified tape library.

## `appiqlist -device -tapelibrary <library ID> -port`

where `<library id>` is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Lists all Fibre Channel ports that belong to the specified tape library.

## `appiqlist -device -tapelibrary <library ID> -mediaaccessdevice`

where `<library id>` is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Lists all media-access devices that belong to the specified tape library.

## `appiqlist -device -tapelibrary <library ID> -controller`

where `<library id>` is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Lists all front-end controller cards that belong to the specified tape library.

## `appiqlist -device -tapelibrary <library ID> -changerdevice`

where `<library id>` is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Lists all changer devices that belong to the specified tape library.

## `appiqset -device -tapelibrary <library ID> -customname <new name>`

where `<library id>` is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Sets the custom name of the specified tape library.

## appiqshow -device -tapelibrary -all

where <library id> is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Provides a detailed description of all the tape libraries that the management server detects.

## appiqshow -device -tapelibrary <library ID>

where <library id> is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Provides a detailed description of a specified tape library.

## appiqshow -device -tapelibrary <library ID> -all

where <library id> is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Provides a detailed description of all subcomponents (for example, port, media-access device, controller, and changer device) that belong to the specified tape library.

## appiqshow -device -tapelibrary <library ID> -port

where <library id> is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Provides a detailed description of all Fibre Channel ports that belong to the specified tape library.



## appiqshow -device -tapelibrary <library ID> -mediaaccessdevice

where <library id> is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Provides a detailed description of all media-access devices that belong to the specified tape library

## appiqshow -device -tapelibrary <library ID> -controller

where <library id> is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Provides a detailed description of all front-end controller cards that belongs to the specified tape library.

## appiqshow -device -tapelibrary <library ID> -changerdevice

where <library id> is the identifier for the tape library. The identifier for the tape library can be obtained using several methods, such as the `appiqlist -device -tapelibrary -all` command.

**Description:** Provides a detailed description of all changer devices that belong to the specified tape library.

---

## Volumes

Use the following types of CLI commands to create and delete volumes:

- **appiqcreate** - Creates a volume.
- **appiqdelete** - Deletes a volume.

## appiqdelete -volume <list of volume id>

**Description:** Deletes the volume specified, where <volume id> is the identifier of a volume. The <volume id> can be obtained through several methods, such as the `appiqlist -device -host <id> -volume` command.

## appiqcreate -volume <stor sys pool id> -storagesetting <storage setting id | [-default]> - size <size in MB>

**Description:** Creates a storage volume with the specified storage pool and the storage setting ID. To create a storage volume on an LSI storage system, use “`appiqcreate -volume <storagesystem pool id> -lsi -storagesetting <storage setting id | [-default]> -size<size in MB> -cacheahead <ca> -segmentsize <ssize> -name <name>`” on page 147.

where:

- <stor sys pool id> is the identifier for a storage system pool. The storage system pool identifier can be found through several methods, such as the `appiqlist -device -storagesystem <ssid> -pool` command.
- <storage setting id | -default> is the identifier for the storage setting. The storage setting identifier can be found through several methods, such as the `appiqshow -device -storagesystem <id> -pool` command.
- <size in MB> is the size of the volume in megabytes.

## appiqcreate -volume <stor sys pool id> -storagesetting <storage setting id | [-default]> -size <size in MB> -name <name>

**Description:** Creates a storage volume on the specified storage pool with the storage settings ID and name. To create a storage volume on an LSI storage system, use “`appiqcreate -volume <storagesystem pool id> -lsi -storagesetting <storage setting id | [-default]> -size<size in MB> -cacheahead <ca> -segmentsize <ssize> -name <name>`” on page 147.

where:

- <stor sys pool id> is the identifier for a storage system pool. The storage system pool identifier can be found through several methods, such as the `appiqlist -device -storagesystem <ssid> -pool` command.

- `<storage setting id | -default>` is the identifier for the storage setting. The storage setting identifier can be found through several methods, such as the `appiqshow -device -storagesystem <id> -pool` command.
- `<size in MB>` is the size of the volume in megabytes.
- `<name>` is the name of the storage volume you want to create.

**Note:** Not all storage systems support assigning a name at creation time.

```
appiqcreate -volume <storagesystem pool id> -lsi
-storage setting <storage setting id | [-default]>
-size<size in MB> -cacheahead <ca> -segment size
<ssize> -name <name>
```

**Description:** Creates a storage volume on an LSI storage system.

where:

- `<stor sys pool id>` is the identifier for a storage system pool. The storage system pool identifier can be found through several methods, such as the `appiqlist -device -storagesystem <ssid> -pool` command.
- `<storage setting id | -default>` is the identifier for the storage setting. The storage setting identifier can be found through several methods, such as the `appiqshow -device -storagesystem <id> -pool` command.
- `<size in MB>` is the size of the volume in megabytes.
- `<ca>` is the cache read-ahead multiplier (0 to 65535 bytes). A cache read-ahead multiplier copies additional data blocks into the cache while it is reading and copying host-requested data blocks from disk to cache. Select the multiplier that maximizes performance for the way the volume will be utilized.
- `<ss>` is the segment size of the volume.
- `<name>` is the name of the storage volume you want to create.

To create a storage volume on a storage system other than LSI, use one of the following commands:

- “`appiqcreate -volume <stor sys pool id> -storage setting <storage setting id | [-default]> -size <size in MB>`” on page 146
- “`appiqcreate -volume <stor sys pool id> -storage setting <storage setting id | [-default]> -size <size in MB> -name <name>`” on page 146

---

# Zones

Use the following types of CLI commands to manage and obtain information about zones:

- **appiqlist** - Lists the ports and zone aliases in a specified zone.
- **appiqshow** - Provides detailed information about ports and zone aliases within a specified zone.
- **appiqcreate** - Creates a zone.
- **appiqdelete** - Deletes a zone.
- **appiqadd** - Lets you add a specified zone to a zone set. You can also use this command to add zone aliases or ports to a zone.
- **appiqremove** - Removes a specified zone from a zone set.

## Naming Conventions for Switches

### Naming conventions for brocade switches:

- The name must contain 1 to 64 characters.
- The name must begin with a letter. Any character other than the first character can be a letter, a numeral (0 to 9), or an underscore (\_).
- The name is case sensitive. For example, "Zone1" and "zone1" are different zones.
- You cannot create a zone with the same name as an existing zone, zone alias or zone set. For example, if you create a zone named "new", you cannot give a zone, zone alias, or zone set the same name.
- The following characters are invalid for Brocade switches: caret (^), dash (-), and dollar sign (\$).

### Naming Conventions for McDATA and Connectrix Switches:

- The name can have a maximum of 64 characters.
- The first character of a zone name must be a letter (A-Z, AZ).
- A zone name cannot contain spaces.
- Valid characters are a-a, AA, 0-9, caret (^), dash ( -), underscore ( \_), and dollar sign (\$).
- All names must be unique and may not differ by case. For example, myzone and MyZone are considered to be the same zone.

## appiqlist -zone <zone id> -all

where <zone id> is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Lists the ports, zone aliases, hosts, and storage systems contained in the zone specified.

## `appiqlist -zone <zone id> -host`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> --zone` command.

**Description:** Lists the hosts in the zone specified.

## `appiqlist -zone <zone id> -storagesystem`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> --zone` command.

**Description:** Lists the storage systems in the zone specified.

## `appiqlist -zone <zone id> -port`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Lists the ports in the zone specified.

## `appiqlist -zone <zone id> -zonealias`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Lists the zone aliases in the zone specified.

## `appiqshow -zone <zone id>`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Provides a detailed description of the zone specified.

## `appiqshow -zone <zone id> -all`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Provides a detailed description of the ports and zone aliases contained in the zone specified.

## `appiqshow -zone <zone id> -host`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Provides a detailed description of the hosts contained in the zone specified.

## `appiqshow -zone <zone id> -storagesystem`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Provides a detailed description of the storage systems contained in the zone specified.

## `appiqshow -zone <zone id> -port`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Provides a detailed description of the ports in the zone specified.

## `appiqshow -zone <zone id> -zonealias`

where `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Provides a detailed description of the zone aliases in the zone specified.

## `appiqcreate -zone <VSAN1>:<switch1>:<zone> -fabric <fabric id> -port <port id>`

where

- `<VSAN1>` is the name of the virtual SAN in which you want to create the zone alias.
- `<switch1>` is the name of the switch on which you want to create the zone alias.
- `<zone>` is the name of the zone you want to create.
- `<fabric id>` is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.
- `<port id>` is the port identifier for a host, switch, or storage system. The port identifier for a host can be obtained using the `appiqlist -device -host <id> -port` command, and the port identifier for a storage system can be obtained using the `appiqlist -device -storagesystem <storage system id> -port` command. The port identifier for a switch can be obtained using the `appiqlist -device -switch <switch id> -all` command.

**Description:** Creates a zone alias in the virtual storage area network (VSAN) you specify. This command is only for switches that use VSANs. Use the `appiqcreate -zone <zone name> -fabric <fabric id> -port <port id>` command for switches that do not use VSANs.

```
appiqcreate -zone <zone name> -fabric <fabric id>
-port <port id>
```

where

- <zone name> is the name of the zone. To make sure you do not have a zone with the same name, enter the `appiqlist -fabric <fabric id> -zone` command.
- <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.
- <port id> is the port identifier for a host or storage system. The port identifier for a host can be obtained using the `appiqlist -device -host <id> -port` command and the port identifier for a storage system can be obtained using the `appiqlist -device -storagesystem <storage system id> -port` command.

**Description:** Creates a zone within the specified fabric. If you used the port identifier of a host when you created the zone, use the `appiqadd -zone <zone id> -port <port id>` command to add the port identifier for the storage system. Likewise, if you used the port identifier of a storage system when you created the zone, use the `appiqadd -zone <zone id> -port <port id>` command to add the port identifier for the host. This command is for switches that do not use virtual storage area networks (VSANs). Use the `appiqcreate -zone <VSAN1>:<switch1>:<zone> -fabric <fabric id> -port <port id>` command for switches that do use virtual storage area networks.

For switch naming conventions, see “Naming Conventions for Switches” on page 148.

```
appiqcreate -zone <zonenumber> -fabric <fabric id>
-zonealias <zonealias id>
```

where

- <zone name> is the name of the zone. Make sure you do not have a zone with the same name by entering the `appiqlist -fabric <fabric id> -zone` command.
- <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.
- <zonealias id> is the zone alias identifier. The zone alias identifier can be obtained using several methods, such as the `appiqlist -zone <zone id> -zonealias` command.



**Description:** Creates a zone within the specified fabric and containing the specified zone alias. Use the `appiqadd -zone <zone id> -port <port id>` command to add the port identifier for a storage system or host. Spaces and dashes are not supported within the zone name for McDATA and Brocade switches. This command is for switches that do not use virtual storage area networks (VSANs). Use the `appiqcreate -zone <VSAN1>:<switch1>:<zone> -fabric <fabric id> -port <port id>` command for switches that do use virtual storage area networks.

For switch naming conventions, see “Naming Conventions for Switches” on page 148.

`appiqcreate -zone <zonenumber> -fabric <fabric id>  
-zonealias <zonealias id> -port <port id>`

where

- `<zone name>` is the name of the zone. Make sure you do not have a zone with the same name by entering the `appiqlist -fabric <fabric id> -zone` command.
- `<fabric id>` is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.
- `<zonealias id>` is the zone alias identifier. The zone alias identifier can be obtained using several methods, such as the `appiqlist -zone <zone id> -zonealias` command.
- `<port id>` is the port identifier for a host or a storage system. The port identifier for a host can be obtained using the `appiqlist -device -host <id> -port` command and the port identifier for a storage system can be obtained using the `appiqlist -device -storagesystem <storage system id> -port` command.

**Description:** Creates a zone within the specified fabric and containing the specified zone alias. If you used the port identifier of a host when you created the zone, use the `appiqadd -zone <zone id> -port <port id>` command to add the port identifier for the storage system. Likewise, if you used the port identifier of a storage system when you created the zone, use the `appiqadd -zone <zone id> -port <port id>` command to add the port identifier for the host. This command is for switches that do not use virtual storage area networks (VSANs). Use the `appiqcreate -zone <VSAN1>:<switch1>:<zone> -fabric <fabric id> -port <port id>` command for switches that do use virtual storage area networks.

For switch naming conventions, see “Naming Conventions for Switches” on page 148.

## appiqdelete -zone <zone id>

where <zone id> is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Deletes the specified zone.

## appiqadd -zone <zone id> -port <port id>

where

- <zone id> is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.
- <port id> is the port identifier for a host or a storage system. The port identifier for a host can be obtained using the `appiqlist -device -host <id> -port` command and the port identifier for a storage system can be obtained using the `appiqlist -device -storagesystem <storage system id> -port` command.

**Description:** Adds a specified port to a zone.

## appiqadd -zone <zone id> -zonealias <zonealias id>

where

- <zone id> is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.
- <zonealias id> is the zone alias identifier. The zone alias identifier can be obtained using several methods, such as the `appiqlist -zone <zone id> -zonealias` command.

**Description:** Adds a zone alias to a zone.

## appiqremove -zone <zone id> -port <port id>

where

- `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.
- `<port id>` is the port identifier. The port identifier can be obtained using the `appiqlist -zone <zoneid> -port` command.

**Description:** Removes a port from a zone.

## `appiqremove -zone <zone id> -zonealias <zonealias id>`

where

- `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.
- `<zonealias id>` is the zone alias identifier. The zone alias identifier can be obtained using several methods, such as the `appiqlist -zone <zone id> -zonealias` command.

**Description:** Removes a zone alias from a zone.

---

## Zone Aliases

Use the following types of CLI commands to manage and obtain information zone aliases:

- **appiqshow** - Obtains a detailed description about the zone alias.
- **appiqcreate** - Creates a zone alias.
- **appiqdelete** - Deletes a zone alias.
- **appiqadd** - Adds a zone alias.
- **appiqremove** - Removes a zone alias.

## `appiqshow -zonealias <zonealias id>`

where `<zonealias id>` is the zone alias identifier. The zone alias identifier can be obtained using several methods, such as the `appiqshow -fabric -all -zonealias` command.

**Description:** Provides a detailed description of the zone alias specified.

```
appiqcreate -zonealias  
<VSAN1>:<switch1>:<zonealias>  
-fabric <fabric id> -port <port id>
```

where

- <VSAN1> is the name of the virtual SAN in which you want to create the zone alias.
- <switch1> is the name of the switch on which you want to create the zone alias.
- <zonealias> is the name of the zone alias you want to create.
- <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.
- <port id> is the port identifier for a host, switch, or storage system. The port identifier for a host can be obtained using the `appiqlist -device -host <id> -port` command, and the port identifier for a storage system can be obtained using the `appiqlist -device -storagesystem <storage system id> -port` command. The port identifier for a switch can be obtained using the `appiqlist -device -switch <switch id> -all` command.

**Description:** Creates a zone alias in the virtual storage area network (VSAN) you specify. This command is only for switches that use VSANs. Use the `appiqcreate -zonealias <zone alias name> -fabric <fabric id> -port <port id>` command for switches that do not use VSANs.

```
appiqcreate -zonealias <zone alias name> -fabric  
<fabric id> -port <port id>
```

where

- <zone alias name> is the name for the zone alias that will be created.
- <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.
- <port id> is the port identifier for a host, switch, or storage system. The port identifier for a host can be obtained using the `appiqlist -device -host <id> -port` command, and the port identifier for a storage system can be obtained using the `appiqlist -device -storagesystem <storage system id> -port` command. The port identifier for a switch can be obtained using the `appiqlist -device -switch <switch id> -all` command.

**Description:** Creates a zone alias assigned to a port in a specified fabric. This command is for switches that do not use virtual storage area networks (VSANs). Use the `appiqcreate -zonealias <VSAN1>:<switch1>:<zonealias> -fabric <fabric id> -port <port id>` for switches that use VSANs.

For switch naming conventions, see “Naming Conventions for Switches” on page 148.

## `appiqdelete -zonealias <zonealias id>`

where `<zonealias id>` is the zone alias identifier. The zone alias identifier can be obtained using several methods, such as the `appiqshow -fabric -all -zonealias` command.

**Description:** Deletes a zone alias.

## `appiqadd -zonealias <zonealias id> -port <port id>`

where

- `<zonealias id>` is the zone alias identifier. The zone alias identifier can be obtained using several methods, such as the `appiqshow -fabric -all -zonealias` command.
- `<port id>` is the port identifier for a host, switch, or storage system. The port identifier for a host can be obtained using the `appiqlist -device -host <id> -port` command, and the port identifier for a storage system can be obtained using the `appiqlist -device -storagesystem <storage system id> -port` command. The port identifier for a switch can be obtained using the `appiqlist -device -switch <switch id> -all` command.

**Description:** Adds a port to a zone alias.

## `appiqremove -zonealias <zonealias id> -port <port id>`

where

- `<zonealias id>` is the zone alias identifier. The zone alias identifier can be obtained using several methods, such as the `appiqshow -fabric -all -zonealias` command.
- `<port id>` is the port identifier. The port identifier can be obtained using the `appiqshow -zonealias <zonealias id> -port` command.

**Description:** Removes the association with a zone alias and a specified port.

---

## Zone Sets

Use the following types of CLI commands to manage and obtain information about zone sets:

- **appiqlist** - Lists information about the members of the zone set specified.
- **appiqshow** - Obtains a detailed description about the members of the zone set specified.
- **appiqcreate** - Creates a zone set.
- **appiqactivate** - Activates a zone set.
- **appiqdelete** - Deletes a zone set.
- **appiqadd** - Adds a specified zone to a zone set.
- **appiqremove** - Removes a zone set.

### **appiqlist -zoneset <zoneset id>**

where `<zoneset id>` is the zone set identifier. The zone set identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zoneset` command.

**Description:** Lists the elements that are contained within the zone set specified.

### **appiqlist -zoneset <zoneset id> -zone**

where `<zoneset id>` is the zone set identifier. The zone set identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zoneset` command.

**Description:** Lists the zones that are contained within the zone set specified.

### **appiqshow -zoneset <zoneset id>**

where `<zoneset id>` is the zone set identifier. The zone set identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zoneset` command.

**Description:** Provides a detailed description of the zone set specified.

## appiqshow -zoneset <zoneset id> -zone

where <zoneset id> is the zone set identifier. The zone set identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zoneset` command.

**Description:** Provides a detailed description of the zones that are contained within the zone set specified.

## appiqcreate -zoneset <VSAN1>:<switch1>:<zoneset> -fabric <fabric id> -zone <zone id>

where

- <VSAN1> is the name of the virtual SAN in which you want to create the zone set.
- <switch1> is the name of the switch on which you want to create the zone set.
- <zoneset> is the name of the zone set you want to create.
- <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.
- <zone id> is the zone in which you want to create the zone set.

**Description:** Creates a zone set in the virtual storage area network (VSAN) you specify. This command is only for switches that use VSANs. Use the `appiqcreate -zoneset <zoneset name> -fabric <fabric id> -zone <zone id>` command for switches that do not use VSANs.

## appiqcreate -zoneset <zoneset name> -fabric <fabric id> -zone <zone id>

where

- <zoneset name> is the name of the zone set. To verify you have a unique name for the zone set in the fabric, enter the `appiqlist -fabric <fabric id> -zoneset` command.
- <fabric id> is the fabric identifier. The fabric identifier can be obtained using several methods, such as the `appiqlist -fabric -all` command.
- <zone id> is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Creates a zone set with the name specified by <zoneset name> in the fabric specified by <fabric id>. The zone set contains the zone identified by <zone id>. This command is for switches that do not use virtual storage area networks (VSANs). Use the `appiqcreate -zoneset <VSAN1>:<switch1>:<zoneset> -fabric <fabric id> -zone <zone id>` command for switches that use VSANs.

For switch naming conventions, see “Naming Conventions for Switches” on page 148.

## `appiqdelete -zoneset <zoneset id>`

where <zoneset id> is the zone set identifier. The zone set identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zoneset` command.

**Description:** Deletes the zone set specified by <zoneset id>.

## `appiqactivate -zoneset <zoneset id>`

where <zoneset id> is the zone set identifier. The zone set identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zoneset` command.

**Description:** Activates the zone set specified by <zoneset id>. The zone set that was previously active is automatically deactivated.

## `appiqadd -zoneset <zoneset id> -zone <zone id>`

where

- <zoneset id> is the zone set identifier. The zone set identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zoneset` command.
- <zone id> is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zone` command.

**Description:** Adds the zone to the zone set specified by <zoneset id>.



`appiqremove -zoneset <zoneset id> -zone <zone id>`

where

- `<zoneset id>` is the zone set identifier. The zone set identifier can be obtained using several methods, such as the `appiqlist -fabric <fabric id> -zoneset` command.
- `<zone id>` is the zone identifier. The zone identifier can be obtained using several methods, such as the `appiqlist -zoneset <zoneset id> -zone` command.

**Description:** Removes the zone from the specified zone set.



# Index

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## A

accessing

- CLI, 2
- CLI help, 3
- error codes, 4

AIX

- CLI installation, 9
- CLI removal, 11

appiqactivate, 158

appiqadd, 148, 155, 158

appiqclear, 47

appiqcreate, 122, 145, 148, 155, 158

appiqdelete, 47, 122, 145, 148, 155, 158

appiqlist, 47, 66, 77, 127, 137, 148, 158

appiqlist -device -storagesystem -port, 127

appiqlist -device -storagesystem -all, 127

appiqremove, 148, 155, 158

appiqshow, 47, 66, 77, 127, 137, 148, 155, 158

## C

CLI, 125

- accessing, 2
- CLI\_DIR, 2
- configuring, 2
- connecting, 2
- error codes, 4
- exiting, 1
- installing, 5, 6, 9
- removing, 11
- setting variable, 2
- upgrading, 11

CLI commands

- domains, 47
- events, 47
- fabrics, 66
- hosts, 77
- list of, 4
- storage pools, 122
- storage systems, 127
- switches, 137
- volumes, 145
- zone aliases, 155
- zone sets, 158
- zones, 148

CLI help

- accessing, 3

CLI\_DIR, 2

configuring

- CLI environment, 2

connecting

- CLI environment, 2

## D

deleting

- CLI, 11

domains

- CLI commands, 47

## E

error

- codes CLI, 4

events

- CLI commands, 47

- exiting
  - CLI, 1
- exporting
  - CLI\_DIR, 2

## **F**

- fabrics
  - CLI commands, 66

## **H**

- help
  - accessing, 3
- hosts
  - CLI commands, 77

## **I**

- installing
  - CLI, 5, 6, 9

## **L**

- leaving
  - CLI, 1
- list of
  - CLI commands, 4

## **P**

- pools
  - CLI commands, 122

## **Q**

- quitting
  - CLI, 1

## **R**

- removing
  - CLI, 11

## **S**

- setting
  - CLI variable, 2
  - CLI\_DIR, 2
- Solaris
  - CLI installation, 6
  - CLI removal, 11
- sorting
  - CLI, 125

- storage pools
  - CLI commands, 122
- storage systems
  - CLI commands, 127
- switches
  - CLI commands, 137

## **U**

- uninstalling
  - CLI, 11
- upgrading
  - CLI, 11

## **V**

- variable
  - setting, 2
- volumes
  - CLI commands, 145

## **W**

- Windows
  - CLI installation, 5
  - CLI removal, 11

## **Z**

- zone aliases
  - CLI commands, 155
- zone sets
  - CLI commands, 158
- zones
  - CLI commands, 148