



# **storage firmware commands**

## **ONTAP 9.12.1 commands**

NetApp  
August 29, 2024

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# storage firmware commands

## storage firmware download

Download disk, ACP processor and shelf firmware

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `storage firmware download` command downloads the ACP processor, disk, and shelf module firmware to a specified node. This command can also be used to download the disk qualification package (DQP).

Use the [storage disk firmware update](#) command to install downloaded disk firmware.

Use the [storage shelf firmware update](#) command to install downloaded shelf module firmware.

Use the [system node run` local storage download acp`](#) command to install downloaded ACP processor firmware.

### Parameters

**-node {<nodename>|local} - Node (privilege: advanced)**

This specifies the node to which the firmware is to be downloaded.

**-package-url <text> - Package URL (privilege: advanced)**

This specifies the path to the firmware package.

The packaged ACP processor, disk, and shelf firmware files need to have ".AFW", ".LOD", and ".SFW" file extensions, respectively.

The following URL protocols are supported: ftp, http, tftp and file. The file URL scheme can be used to specify the location of the package to be fetched from an external device connected to the storage controller. Currently, only USB mass storage devices are supported. The USB device is specified as `file://usb0/<filename>`. The package must be present in the root directory of the USB mass storage device.

### Examples

The following example downloads a disk firmware package with the path `ftp://example.com/fw/disk-fw-1.2.LOD.zip` to a node named `node1`:

```
cluster1::> storage firmware download -node node1 -package-url
ftp://example.com/fw/disk-fw-1.2.LOD.zip
```

### Related Links

- [storage disk firmware update](#)

- [storage shelf firmware update](#)
- [system node run](#)

## storage firmware acp delete

Delete an ACP firmware file

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `storage firmware acp delete` command deletes the specified ACP processor firmware file from all nodes that are currently part of the cluster.

### Parameters

**-filename <text> - Firmware Filename (privilege: advanced)**

Specifies the firmware file to delete.

### Examples

The following example deletes the ACP processor firmware file with the name ACP-IOM3.0150.AFW.FVF on each node:

```
cluster1::*> storage firmware acp delete -filename ACP-IOM3.0150.AFW.FVF
```

## storage firmware acp rename

Rename an ACP firmware file

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `storage firmware acp rename` command renames the specified ACP processor firmware file on each node.

### Parameters

**-oldname <text> - Old Filename (privilege: advanced)**

This parameter specifies the firmware file to rename.

**-newname <text> - New Filename (privilege: advanced)**

This parameter specifies the new name of the firmware file.

## Examples

The following example renames the ACP processor firmware file with the name ACP-IOM3.0150.AFW.FVF to ACP-IOM3.AFW.FVF on each node:

```
cluster1::*> storage firmware acp rename -oldname ACP-IOM3.0150.AFW.FVF  
-newname ACP-IOM3.AFW.FVF
```

## storage firmware acp show

Display the list of ACP firmware files on the given node

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The `storage firmware acp show` command displays the ACP processor firmware files present on each node.

### Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Selects the files that match the specified node name.

**[-filename <text>] - Storage Firmware File**

Selects the files that match the specified filename.

## Examples

The following example displays the ACP processor firmware files on each node:

```

cluster1::> storage firmware acp show
Node: Node1
ACP Firmware Files
-----
ACP-IOM3.0150.AFW.FVF
ACP-IOM3.AFW
ACP-IOM6.0210.AFW
ACP-IOM6.0210.AFW.FVF
Node: Node2
ACP Firmware Files
-----
ACP-IOM3.0150.AFW.FVF
ACP-IOM3.AFW
ACP-IOM6.0210.AFW
ACP-IOM6.0210.AFW.FVF
8 entries were displayed.

```

## storage firmware disk delete

Delete a disk firmware file

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `storage firmware disk delete` command deletes the specified disk firmware file on each node.

### Parameters

**-filename <text> - Storage Firmware Filename (privilege: advanced)**  
 Specifies the firmware file to delete.

### Examples

The following example deletes the disk firmware file with the name `X262_SMOOST25SSX.NA06.LOD` on each node:

```

cluster1::*> storage firmware disk delete -filename
X262_SMOOST25SSX.NA06.LOD

```

## storage firmware disk rename

Rename a disk firmware file

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

## Description

The `storage firmware disk rename` command renames the specified disk firmware file on each node.

## Parameters

**-oldname <text> - Old Filename (privilege: advanced)**

This parameter specifies the firmware file to rename.

**-newname <text> - New Filename (privilege: advanced)**

This parameter specifies the new name of the firmware file.

## Examples

The following example renames the disk firmware file with the name `X262_SMOOST25SSX.NA06.LOD` to `X262_SMOOST25SSX.LOD` on each node:

```
cluster1::*> storage firmware disk rename -oldname
X262_SMOOST25SSX.NA06.LOD -newname X262_SMOOST25SSX.LOD
```

## storage firmware disk show

Display the list of disk firmware files on the given node

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

The `storage firmware disk show` command displays the disk firmware files present on each node.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Selects the files that match the specified node name.

**[-filename <text>] - Storage Firmware File**

Selects the files that match the specified filename.

## Examples

The following example displays the disk firmware files on each node:

```
cluster1::> storage firmware disk show
Node: Node1
Disk Firmware Files
-----
X262_SMOOST25SSX.NA06.LOD
X262_SMOOST25SSX.NA06.LOD.FVF
X267_SMOOST50SSX.NA06.LOD
X267_SMOOST50SSX.NA06.LOD.FVF
Node: Node2
Disk Firmware Files
-----
X262_SMOOST25SSX.NA06.LOD
X262_SMOOST25SSX.NA06.LOD.FVF
X267_SMOOST50SSX.NA06.LOD
X267_SMOOST50SSX.NA06.LOD.FVF
8 entries were displayed.
```

## storage firmware hba show

Display the list of HBA firmware files on the given node

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The `storage firmware hba show` command displays the HBA firmware files present on each node. For MCC configs, run the command on each DR group.

### Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Selects the files that match the specified node name.

**[-filename <text>] - Storage Firmware File**

Selects the files that match the specified filename.



## Examples

The following example displays the HBA firmware files on each node:

```
cluster1::> storage firmware hba show
Node: Node1
HBA Firmware Files
-----
PM8072.03080900.HFW
SAS3008.13000000.HFW
SAS3616W.12030003.HFW
PM8072.03080900.HFW
Node: Node2
HBA Firmware Files
-----
PM8072.03080900.HFW
SAS3008.13000000.HFW
SAS3616W.12030003.HFW
PM8072.03080900.HFW
8 entries were displayed.
```

## storage firmware shelf delete

Delete a shelf firmware file

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `storage firmware shelf delete` command deletes the specified shelf firmware file from all nodes that are currently part of the cluster.

### Parameters

**-filename <text> - Storage Firmware Filename (privilege: advanced)**

Specifies the firmware file to delete.

## Examples

The following example deletes the shelf firmware file with the name IOM12.0210.SFW on each node:

```
cluster1::*> storage firmware shelf delete -filename IOM12.0210.SFW
```

# storage firmware shelf rename

Rename a shelf firmware file

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

## Description

The `storage firmware shelf rename` command renames the specified shelf firmware file on each node.

## Parameters

**-oldname <text> - Old Filename (privilege: advanced)**

This parameter specifies the firmware file to rename.

**-newname <text> - New Filename (privilege: advanced)**

This parameter specifies the new name of the firmware file.

## Examples

The following example renames the shelf firmware file with the name IOM12.0210.SFW to IOM12.000.SFW on each node:

```
cluster1::*> storage firmware shelf rename -oldname IOM12.0210.SFW  
-newname IOM12.000.SFW
```

# storage firmware shelf show

Display the list of shelf firmware files on the given node

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

## Description

The `storage firmware shelf show` command displays the shelf firmware files present on each node.

## Parameters

**{ [-fields <fieldname>,...]**

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

**| [-instance ] }**

If you specify the `-instance` parameter, the command displays detailed information about all fields.

**[-node {<nodename>|local}] - Node**

Selects the files that match the specified node name.

## **[-filename <text>] - Storage Firmware File**

Selects the files that match the specified filename.

## **Examples**

The following example displays the shelf firmware files on each node:

```
cluster1::> storage firmware shelf show
Node: Node1
Shelf Firmware Files
-----
AT-FCX.3800.SFW
AT-FCX.3800.SFW.FVF
ESH4.1400.SFW
ESH4.1400.SFW.FVF
Node: Node2
Shelf Firmware Files
-----
AT-FCX.3800.SFW
AT-FCX.3800.SFW.FVF
ESH4.1400.SFW
ESH4.1400.SFW.FVF
8 entries were displayed.
```

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