



lun portset commands

ONTAP commands

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lun portset commands

lun portset add

Add iSCSI/FCP LIFs to a portset

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

Description

This command adds existing iSCSI and FCP LIFs to a port set. To create a new port set, use the [lun portset create](#) command.

Use the [network interface create](#) command to create new LIFs.



This command is not supported for a Vserver with Infinite Volume.

Parameters

-vserver <Vserver Name> - Vserver Name

Specifies the Vserver.

-portset <text> - Portset Name

Specifies the port set you want to add the LIFs to.

-port-name <port_name>,... - LIF or TPG Name

Specifies the LIF name you want to add to the port set.

Examples

```
cluster1::> portset add -vserver vs1 -portset ps1 -port-name lif1
```

Adds port lif1 to port set ps1 on Vserver vs1.

Related Links

- [lun portset create](#)
- [network interface create](#)

lun portset create

Creates a new portset

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

Description

This command creates a new port set for FCP and iSCSI. The port set name can include a maximum of 96 characters. You can add LIFs to the new port set. If you do not add a LIF to the port set, you create an empty port set. To add LIFs to an existing port set, use the [lun portset add](#) command.

After you create a port set, you must bind the port set to an igroup so the host knows which FC or iSCSI LIFs to access. If you do not bind an igroup to a port set, and you map a LUN to an igroup, then the initiators in the igroup can access the LUN on any LIF on the Vserver.



You cannot bind an igroup to an empty port set because the initiators in the igroup would have no LIFs to access the LUN.



This command is not supported for a Vserver with Infinite Volume.

Parameters

-vserver <Vserver Name> - Vserver Name

Specifies the Vserver.

-portset <text> - Portset Name

Specifies the name of the new port set. A port set name is a case-sensitive name that must contain one to 96 characters. Spaces are not allowed.

[-port-name <port_name>, ...] - LIF Or TPG Name

Specifies the name of the logical interface that you want to add to the portset you want to create.

{ [-protocol {mixed|fcp|iscsi}] - Protocol

Specifies if the portset protocol type is *fcp*, *iscsi*, or *mixed*. The default is *mixed*.

| [-f, -fcp <true>] - FCP

Specifies FCP as the protocol type of the new port set.

| [-i, -iscsi <true>] - iSCSI

Specifies iSCSI as the protocol type of the new port set.

Examples

```
cluster1::> portset create -vserver vs1 -portset ps1 -protocol mixed
```

Creates a port set *ps1* on Vserver *vs1* with the protocol type of *mixed*.

```
cluster1::> portset create -vserver vs1 -portset iscsips -protocol iscsi
```

Creates a port set *iscsips* on Vserver *vs1* with the protocol type of *iscsi*.

```
cluster1::> portset create -vserver vs1 -portset fcppc -protocol fcp
```

Creates a port set *fcppc* on Vserver *vs1* with the protocol type of *fcp*.

```
cluster1::> portset create -vserver vs1 -portset ps2 -protocol mixed -port -name 111
```

Creates a port set *ps2* on Vserver *vs1* with the protocol type of *mixed* and LIF *111*.

Related Links

- [lun portset add](#)

lun portset delete

Delete the portset

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

Description

This command deletes an existing port set. By default, you cannot delete a port set if it is bound to an initiator group. If a port set is bound to an initiator group, you can do one of the following:

- specify the *force* option to unbind the port set from the initiator group and delete the port set.
- use the [lun igrup unbind](#) command to unbind the port set from the initiator group. Then you can delete the port set.



This command is not supported for a Vserver with Infinite Volume.

Parameters

-vserver <Vserver Name> - Vserver Name

Specifies the Vserver.

-portset <text> - Portset Name

Specifies the port set you want to delete.

[-f, -force <true>] - Force

Forcibly unbinds the port set from the initiator group.

Examples

```
cluster1::> portset delete -vserver vs1 -portset ps1
```

Deletes port set ps1 on Vserver vs1.

Related Links

- [lun igrup unbind](#)

lun portset remove

Remove iSCSI/FCP LIFs from a portset

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

Description

This command removes a LIF from a port set.

You cannot remove the last LIF in a port set if the port set is bound to an initiator group (igroup). To remove the last LIF in a port set, use the [lun igrup unbind](#) command to unbind the port set from the igrup. Then you can remove the last LIF in the port set.



This command is not supported for a Vserver with Infinite Volume.

Parameters

-vserver <Vserver Name> - Vserver Name

Specifies the Vserver.

-portset <text> - Portset Name

Specifies the port set you want to remove a LIF from.

-port-name <port_name>,... - LIF or TPG Name

Specifies the LIF name you want to remove from the port set.

Examples

```
cluster1::> port set remove -vserver vs1 -portset ps1 -port-name lif1
```

Removes port lif1 from port set ps1 on Vserver vs1.

Related Links

- [lun igrup unbind](#)

lun portset show

Displays a list of portsets

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

Description

This command displays the LIFs in a port set. By default, the command displays all LIFs in all port sets.

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.

[-vserver <Vserver Name>] - Vserver Name

Selects the port sets that match this parameter value.

[-portset <text>] - Portset Name

Selects the port sets that match this parameter value.

[-port-name <port_name>,...] - LIF Or TPG Name

Selects the port sets that match this parameter value.

[-protocol {mixed|fcp|iscsi}] - Protocol

Selects the port sets that match this parameter value.

[-port-count <integer>] - Number Of Ports

Selects the port sets that match this parameter value.

[-igroups <igroup>,...] - Bound To Igroups

Selects the port sets that match this parameter value.

Examples

```
cluster1::> lun portset show
Vserver      Portset      Protocol  Port Names          Igroups
-----  -----  -----  -----
vs1          ps0          mixed     lif1, lif2          igroup1
              ps1          iscsi     lif3                  igroup2
              ps2          fcp      lif4                  -
3 entries were displayed.
```

The example above displays all port sets.

```
cluster1::> lun portset show -port-count 0
Vserver    Portset      Protocol Port Names          Igroups
-----  -----
vs1        p1          iscsi      -
```

The example above displays the port sets that contain zero LIFs.

```
cluster1::> lun portset show -protocol iscsi
Vserver    Portset      Protocol Port Names          Igroups
-----  -----
vs1        p1          iscsi      -
vs1        iscsips     iscsi      lif1          igrp1
2 entries were displayed.
```

The example above displays the port sets that have the iSCSI protocol.

```
cluster1::> lun portset show -port-name lif1
Vserver    Portset      Protocol Port Names          Igroups
-----  -----
vs1        iscsips     iscsi      lif1          igrp1
```

The example above displays the port sets that contain LIF lif1.

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