



# **lun portset commands**

## Command reference

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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 portset. To create a new portset, use the [lun portset create](#) command.

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

### Parameters

**-vserver <Vserver Name> - Vserver Name**

Specifies the Vserver.

**-portset <text> - Portset Name**

Specifies the portset 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 portset.

### Examples

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

Adds port lif1 to portset 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 portset for FCP and iSCSI. The portset name can include a maximum of 96 characters. You can add LIFs to the new portset. If you do not add a LIF to the portset, you create an empty portset. To add LIFs to an existing portset, use the [lun portset add](#) command.

After you create a portset, you must bind the portset to an igroup so the host knows which FC or iSCSI LIFs to access. If you do not bind an igroup to a portset, 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 portset because the initiators in the igroup would have no LIFs to access the LUN.

## Parameters

**-vserver <Vserver Name> - Vserver Name**

Specifies the Vserver.

**-portset <text> - Portset Name**

Specifies the name of the new portset. A portset 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|fc|iscsi}] - Protocol**

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

**| [-f, -fc <true>] - FCP**

Specifies FCP as the protocol type of the new portset.

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

Specifies iSCSI as the protocol type of the new portset.

## Examples

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

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

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

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

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

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

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

Creates a portset *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 portset. By default, you cannot delete a portset if it is bound to an initiator group. If a portset is bound to an initiator group, you can do one of the following:

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

## Parameters

**-vserver <Vserver Name> - Vserver Name**

Specifies the Vserver.

**-portset <text> - Portset Name**

Specifies the portset you want to delete.

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

Forcibly unbinds the portset from the initiator group.

## Examples

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

Deletes portset *ps1* on Vserver *vs1*.

## Related Links

- [lun igroup 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 portset.

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

## Parameters

**-vserver <Vserver Name> - Vserver Name**

Specifies the Vserver.

**-portset <text> - Portset Name**

Specifies the portset 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 portset.

## Examples

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

Removes port lif1 from portset ps1 on Vserver vs1.

## Related Links

- [lun igroup 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 portset. By default, the command displays all LIFs in all portsets.

## 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 portsets that match this parameter value.

**[-portset <text>] - Portset Name**

Selects the portsets that match this parameter value.

**[-uuid <UUID>] - Portset Uuid**

Selects the portsets that match this parameter value.

**[-port-name <port\_name>,...] - LIF Or TPG Name**

Selects the portsets that match this parameter value.

**[-protocol {mixed|fc|iscsi}] - Protocol**

Selects the portsets that match this parameter value.

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

Selects the portsets that match this parameter value.

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

Selects the portsets 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 portsets.

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

The example above displays the portsets that contain zero LIFs.

```
cluster1::> lun portset show -protocol iscsi
```

Vserver	Portset	Protocol	Port Names	Igroups
vs1	p1	iscsi	-	-
vs1	iscsips	iscsi	lif1	igroup1

2 entries were displayed.

The example above displays the portsets that have the iSCSI protocol.

```
cluster1::> lun portset show -port-name lif1
```

Vserver	Portset	Protocol	Port Names	Igroups
vs1	iscsips	iscsi	lif1	igroup1

The example above displays the portsets that contain LIF lif1.



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