



## SAN Pin Groups

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## SAN Pin Groups

Cisco UCS uses SAN pin groups to pin Fibre Channel traffic from a vHBA on a server to an uplink Fibre Channel port on the fabric interconnect. You can use this pinning to manage the distribution of traffic from the servers.



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**Note** In Fibre Channel switch mode, SAN pin groups are irrelevant. Any existing SAN pin groups will be ignored.

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To configure pinning for a server, you must include the SAN pin group in a vHBA policy. The vHBA policy is then included in the service profile assigned to that server. All traffic from the vHBA will travel through the I/O module to the specified uplink Fibre Channel port.

You can assign the same pin group to multiple vHBA policies. As a result, you do not need to manually pin the traffic for each vHBA.



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**Important** Changing the target interface for an existing SAN pin group disrupts traffic for all vHBAs which use that pin group. The fabric interconnect performs a log in and log out for the Fibre Channel protocols to re-pin the traffic.

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## Configuring a SAN Pin Group

In a system with two fabric interconnects, you can associate the pin group with only one fabric interconnect or with both fabric interconnects.

**Procedure**

|               | <b>Command or Action</b>  | <b>Purpose</b>  |
|---------------|---|---|
| <b>Step 1</b> | UCS-A# <b>scope fc-uplink</b>   | Enters Fibre Channel uplink mode.   |
| <b>Step 2</b> | UCS-A /fc-uplink # <b>create pin-group</b><br><i>pin-group-name</i>   | Creates a Fibre Channel (SAN) pin group with the specified name, and enters Fibre Channel uplink pin group mode.  |
| <b>Step 3</b> | (Optional) UCS-A /fc-uplink/pin-group # <b>set descr</b> <i>description</i>                                     | Provides a description for the pin group.<br><br><b>Note</b> If your description includes spaces, special characters, or punctuation, you must begin and end your description with quotation marks. The quotation marks will not appear in the description field of any <b>show</b> command output. |
| <b>Step 4</b> | (Optional) UCS-A /fc-uplink/pin-group # <b>set target</b> {a   b   dual} <b>port</b> <i>slot-num / port-num</i> | Sets the Fibre Channel pin target to the specified fabric and port.   |
| <b>Step 5</b> | UCS-A /fc-uplink/pin-group # <b>commit-buffer</b>   | Commits the transaction to the system configuration.  |

**Example**

The following example creates a SAN pin group named `fcpingroup12`, provides a description for the pin group, sets the pin group target to slot 2, port 1, and commits the transaction:

```
UCS-A# scope fc-uplink
UCS-A /fc-uplink # create pin-group fcpingroup12
UCS-A /fc-uplink/pin-group* # set descr "This is my pin group #12"
UCS-A /fc-uplink/pin-group* # set target a port 2/1
UCS-A /fc-uplink/pin-group* # commit-buffer
UCS-A /fc-uplink/pin-group #
```

**What to do next**

Include the pin group in a vHBA template.

## Configuring a FCoE Pin Group

You can create a FCoE pin group, and specify the FCoE uplink port as the pin group target.

**Procedure**

|               | <b>Command or Action</b>                                       | <b>Purpose</b>   |
|---------------|--|--|
| <b>Step 1</b> | UCS-A# <b>scope fc-uplink</b>                                  | Enters FC uplink mode.   |
| <b>Step 2</b> | UCS-A /fc-uplink # <b>create pin-group fcoepingroup</b>        | Creates a FCoE pin group with the specified name, and enters FCoE uplink pin group mode. |
| <b>Step 3</b> | UCS-A /fc-uplink/pin-group # <b>set target a fcoe-port 1/8</b> | Sets FCoE port 1/8 as the target port for this pin group.                                |
| <b>Step 4</b> | UCS-A /fc-uplink/pin-group # <b>commit-buffer</b>              | Commits the transaction to the system configuration.                                     |

**Example**

```
UCS-A# scope fc-uplink
UCS-A /fc-uplink # create pin-group fcoepingroup
UCS-A /fc-uplink/pin-group* #set target a fcoe-port 1/8
UCS-A /fc-uplink/pin-group* # commit-buffer
UCS-A /fc-uplink/pin-group #
```

