



# **Adding, removing, or changing ISL ports nondisruptively**

## **ONTAP MetroCluster**

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# Adding, removing, or changing ISL ports nondisruptively

You might need to add, remove, or change ISL ports. You can convert dedicated ISL ports to shared ISL ports, or change the speed of ISL ports on a switch. ISLs traveling greater distances might require lower speeds to improve quality. You also might need to increase the speed of ISL ports to take advantage of system upgrades and add ISLs to a Cisco IP switch if you are adding or upgrading hardware.

If you are converting dedicated ISL ports to shared ISL ports, ensure the new ports meet the requirements for shared ISL ports.

## Considerations for sharing private layer 2 networks

You must complete all the steps on both switches to ensure ISL connectivity.

The following procedure assumes you are replacing a 10-Gb ISL connected at switch port Eth1/24/1 with two 100-Gb ISLs that are connected to switch ports 17 and 18.

### Steps

1. Disable the ISL ports of the ISLs on both switches in the fabric that you want to change.



You only need to disable the current ISL ports if you are moving them to a different port, or the speed of the ISL is changing. If you are adding an ISL port with the same speed as the existing ISLs, go to Step 3.

You must enter only one configuration command for each line and press Ctrl-Z after you have entered all the commands, as shown in the following example:

```
switch_A_1# conf t
switch_A_1(config)# int eth1/24/1
switch_A_1(config-if)# shut
switch_A_1(config-if)#
switch_A_1#

switch_B_1# conf t
switch_B_1(config)# int eth1/24/1
switch_B_1(config-if)# shut
switch_B_1(config-if)#
switch_B_1#
```

2. Remove the existing cables and transceivers.
3. Change the ISL port as required.

Option	Step
To change the speed of an ISL port...	Cable the new ISLs to the designated ports according to their speeds. You must ensure that these ISL ports for your switch are listed in the <i>MetroCluster IP Installation and Configuration Guide</i> .
To add an ISL...	Insert QFSPs into the ports you are adding as ISL ports. Ensure they are listed in the <i>MetroCluster IP Installation and Configuration Guide</i> and cable them according to this guide.

4. Enable all ISL ports (if not enabled) on both switches in the fabric beginning with the following command:

```
switch_A_1# conf t
```

You must enter only one configuration command per line and press Ctrl-Z after you have entered all the commands:

```
switch_A_1# conf t
switch_A_1(config)# int eth1/17
switch_A_1(config-if)# no shut
switch_A_1(config-if)# int eth1/18
switch_A_1(config-if)# no shut
switch_A_1(config-if)#
switch_A_1#
switch_A_1# copy running-config startup-config

switch_B_1# conf t
switch_B_1(config)# int eth1/17
switch_B_1(config-if)# no shut
switch_B_1(config-if)# int eth1/18
switch_B_1(config-if)# no shut
switch_B_1(config-if)#
switch_B_1#
switch_B_1# copy running-config startup-config
```

5. Verify that the ISLs are established between both switches:

```
switch_A_1# show int eth1/17,eth1/18 brief
```

You should see the ISL interfaces in the command output as shown in the following example:

```
switch_A_1# show int eth1/17,eth1/18 brief
```

```
-----  
-----  
Ethernet      VLAN      Type Mode      Status  Reason      Speed  
Port  
Interface  
Ch #  
-----  
-----  
Eth1/17       10          eth   access    up       none  
100G(D) 10  
Eth1/18       10          eth   access    up       none  
100G(D) 10
```

```
switch_B_1# show int eth1/17,eth1/18 brief
```

```
-----  
-----  
Ethernet      VLAN      Type Mode      Status  Reason      Speed  
Port  
Interface  
Ch #  
-----  
-----  
Eth1/17       10          eth   access    up       none  
100G(D) 10  
Eth1/18       10          eth   access    up       none  
100G(D) 10
```

6. Repeat the procedure for fabric 2.

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