

PoE+ Series Switches Port Mirroring Configuration Guide

Models: S3150-8T2FP
S3260-8T2FP
S3260-16T4FP
S3400-24T4FP
S3400-48T4SP

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1. Port Mirroring Configuration

1.1 Configuring Port Mirroring Task List

- Configuring port mirroring
- Displays port mirroring information

1.2 Configuring Port Mirroring Task

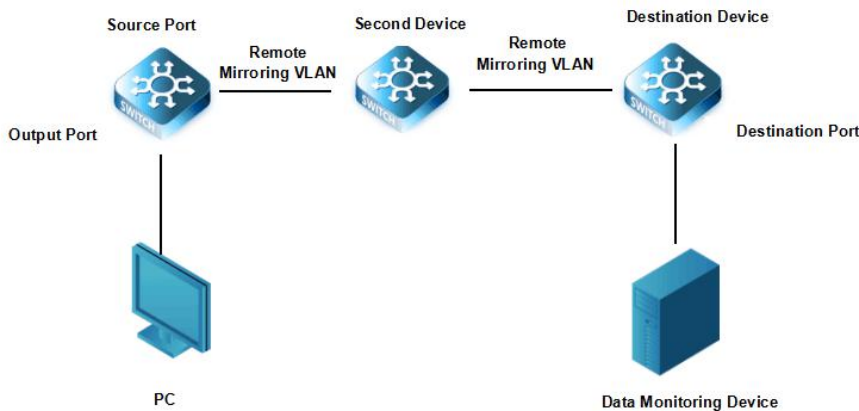
1.2.1 Configuring Port Mirroring

In order to make switch management easy, you can set port mirror and use a port of the switch to observe the flux that runs through a group of ports.

Port mirroring could be divided like local mirroring and remote mirroring. Local mirroring means copying message to this device's port, and remote mirroring function means transferring message to remote device across multiple network devices. Port mirroring is configured by the way of mirroring group, and relative concepts include port, destination port, remote mirroring VLAN, remote mirroring TPID, VLAN DISABLE-LEARNING and etc.

In the remote mirroring, the local device would add a vlan tag in the mirroring message. Messages from different mirroring's remote groups are detected by setting the tag's vid (remote mirroring vlan) and tpid. In order to achieve remote mirroring function, it is required that the second device could transfer messages within remote mirroring's vlan to remote device.

Remote mirroring's schemetic plot is like following:



Configuring remote mirroring function on source device, and mirroring source port's message to the output port while adding configuring RSPAN TAG on the message. Vlan id in this tag is the remote mirroring VLAN. Second device transfer mirroring message to the destination port by broadcasting. The destination device transfer message from destination port to data monitoring device by configuration. If the destination device supports port mirroring function, the message could be transferred from destination port to data monitoring device by configuring local mirroring. If the destination device supports the configuration of mac address learning based on vlan, the message could be transferred to data monitoring device by shutting down remote mirroring vlan address learning. If the destination device's qos policy mapping supports the matching of vlan, the message could be transferred to monitoring device by qos policy mapping.

Enter the EXEC mode and perform the following steps to configure port mirroring:

Command	Purpose
config	Enters the global configuration mode.

```
mirror session session_number {destination {interface
interface-id} {rspan vid tpid} | source {interface interface-id [, | -
] rx | tx | both}}
```

To set port mirror, run this command.
 session-number is the number of the port mirroring.
 destination is the destination port of the mirroring.
 VID is the tag of remote mirroring
 TPID is the tag of remote mirroring
 source is the source port of mirroring.
 rx means the data flow of mirroring. rx means the input data of mirroring. tx means the output data of mirroring, both means both mirroring

exit	Goes back to the EXEC mode.
write	Saves the settings.

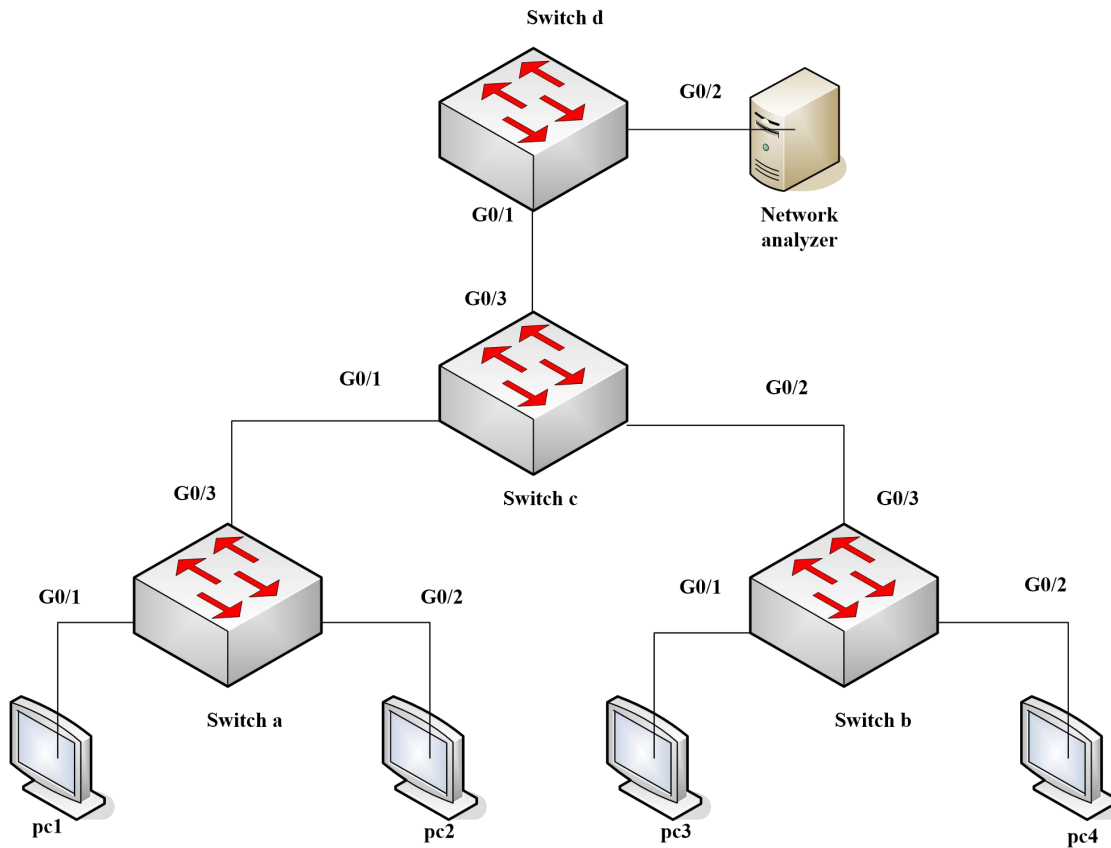
1.2.2 Displaying Port Mirroring Information

To display the configuration information about port mirroring, run the following command:

Command	Purpose
show mirror [session session_number]	Displays the configuration information about port mirroring session-number means the number of the port mirroring.

1.3 Remote Mirroring Configuration Example

The network topology is shown in the following figure:



You need to monitor the traffic of interface g0/1 on switch a and interface g0/1 on switch b by the network analysis meter.

Configure as follows by the remote mirroring:

switch a:

```
mirror session 1 destination interface g0/3 rspan 100 0x8100
mirror session 1 source interface g0/1 both
```

switch b:

```
mirror session 1 destination interface g0/3 rspan 1000 0x8100
mirror session 1 source interface g0/1 both
```

switch c:

```
interface GigaEthernet0/1
switchport mode trunk
!
interface GigaEthernet0/2
switchport mode trunk
!
interface GigaEthernet0/3
switchport mode trunk
!
!
vlan 1,100,1000
!
```

switch d:

```
mirror session 1 destination interface g0/2
mirror session 1 source interface g0/1 both
```