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Introduction

This document provides port isolation configuration examples.

Prerequisites

This document is not restricted to specific software or hardware versions.

The configuration examples in this document were created and verified in a lab environment, and all the devices were started with the factory default configuration. When you are working on a live network, make sure you understand the potential impact of every command on your network.

This document assumes that you have basic knowledge of port isolation.

General restrictions and guidelines

You cannot assign the member ports of a service loopback group to an isolation group. You cannot assign the member ports of an isolation group to a service loopback group.

Example: Configuring port isolation

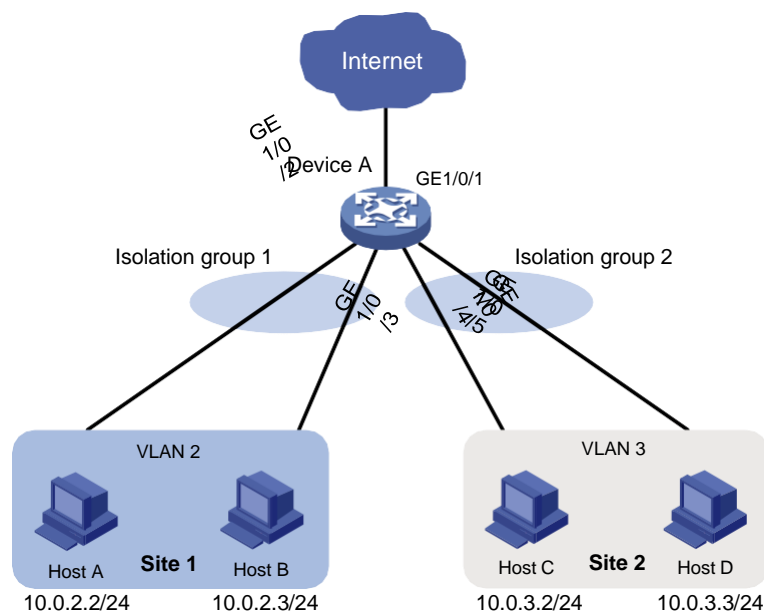
Network configuration

As shown in [Figure 1](#), the company branches Site 1 and Site 2 transfer service traffic in VLAN 2 and VLAN 3. Device A connects to the Internet through GigabitEthernet 1/0/1.

Configure port isolation on Device A to meet the following requirements:

- All hosts can access the Internet through Device A.
- Host A and Host B are isolated from each other at Layer 2.
- Host C and Host D are isolated from each other at Layer 2.

Figure 1 Network diagram



Applicable hardware and software versions

The following matrix shows the hardware and software versions to which this configuration example is applicable:

Hardware	Software version
SC 3570 switch series	Release 11xx
SC 5525 switch series	6615Pxx, Release 6628Pxx
SC 5520 switch series	Release 63xx, Release 65xx, Release 6615Pxx, Release 6628Pxx
SC 3170 switch series	Release 11xx
SC 3130 switch series	Release 63xx

Restrictions and guidelines

When you configure port isolation on the device, follow these restrictions and guidelines:

- Before assigning a port to an isolation group, make sure the isolation group already exists.
- You can assign a port to only one isolation group.

Procedures

Create VLAN 2 and assign ports GigabitEthernet 1/0/2 and GigabitEthernet 1/0/3 to the VLAN.

```
<DeviceA> system-view
```

```
[DeviceA] vlan 2
```

```
[DeviceA-vlan2] port gigabitethernet 1/0/2
```

```
[DeviceA-vlan2] port gigabitethernet 1/0/3
```

```
[DeviceA-vlan2] quit
```

Create VLAN 3 and assign ports GigabitEthernet 1/0/4 and GigabitEthernet 1/0/5 to the VLAN.

```
[DeviceA] vlan 3
```

```
[DeviceA-vlan3] port gigabitethernet 1/0/4
```

```
[DeviceA-vlan3] port gigabitethernet 1/0/5
```

```
[DeviceA-vlan3] quit
```

Configure port GigabitEthernet 1/0/1 as a trunk port and assign it to VLAN 2 and VLAN 3.

```
[DeviceA] interface gigabitethernet 1/0/1
```

```
[DeviceA-GigabitEthernet1/0/1] port link-type trunk
```

```
[DeviceA-GigabitEthernet1/0/1] port trunk permit vlan 2 3
```

```
[DeviceA-GigabitEthernet1/0/1] quit
```

Create isolation groups 1 and 2.

```
[DeviceA] port-isolate group 1
```

```
[DeviceA] port-isolate group 2
```

Assign ports GigabitEthernet 1/0/2 and GigabitEthernet 1/0/3 to isolation group 1.

```
[DeviceA] interface gigabitethernet 1/0/2
[DeviceA-GigabitEthernet1/0/2] port-isolate enable group 1
[DeviceA-GigabitEthernet1/0/2] quit
[DeviceA] interface gigabitethernet 1/0/3
[DeviceA-GigabitEthernet1/0/3] port-isolate enable group 1
[DeviceA-GigabitEthernet1/0/3] quit

# Assign ports GigabitEthernet 1/0/4 and GigabitEthernet 1/0/5 to isolation group 2.
[DeviceA] interface gigabitethernet 1/0/4
[DeviceA-GigabitEthernet1/0/4] port-isolate enable group 2
[DeviceA-GigabitEthernet1/0/4] quit
[DeviceA] interface gigabitethernet 1/0/5
[DeviceA-GigabitEthernet1/0/5] port-isolate enable group 2
[DeviceA-GigabitEthernet1/0/5] quit
```

Verifying the configuration

Display information about all isolation groups.

```
[DeviceA] display port-isolate group
Port isolation group information:
Group ID: 1
Group members:
    GigabitEthernet1/0/2
    GigabitEthernet1/0/3
```

```
Group ID: 2
Group members:
    GigabitEthernet1/0/4
    GigabitEthernet1/0/5
```

The output shows that:

- Ports GigabitEthernet 1/0/2 and GigabitEthernet 1/0/3 are in isolation group 1. As a result, Host A and Host B are isolated from each other at Layer 2.
- Ports GigabitEthernet 1/0/4 and GigabitEthernet 1/0/5 are in isolation group 2. As a result, Host C and Host D are isolated from each other at Layer 2.

Configuration files



IMPORTANT:

Support for the **port link-mode bridge** command depends on the device model.

```
#
port-isolate group 1
port-isolate group 2
#
vlan 2 to 3
#
interface GigabitEthernet1/0/1
port link-mode bridge
```

```
port link-type trunk
port trunk permit vlan 1 to 3
#
interface GigabitEthernet1/0/2
port link-mode bridge
port access vlan 2
port-isolate enable group 1
#
interface GigabitEthernet1/0/3
port link-mode bridge
port access vlan 2
port-isolate enable group 1
#
interface GigabitEthernet1/0/4
port link-mode bridge
port access vlan 3
port-isolate enable group 2
#
interface GigabitEthernet1/0/5
port link-mode bridge
port access vlan 3
port-isolate enable group 2
#
```