

How to configure ports on an access switch

Article Overview

To configure an access port on a switch, set the port to access mode and assign it to a specific VLAN, allowing it to carry traffic for only that VLAN.

Step-by-Step Configuration

o

Connect to the Switch Use a console cable, SSH, or Telnet to access the switch CLI. Enter privileged EXEC mode by typing enable and providing the password if required .

o

Enter Global Configuration Mode Type configure terminal to enter configuration mode where you can modify interface settings .

o

Select the Interface Identify the port you want to configure (e.g., FastEthernet 0/1 or GigabitEthernet 1/0/1) and enter interface configuration mode:

```
interface Fa0/1
```

or

```
interface Gi1/0/1" [^1^] [^2^].
```

o

Set the Port to Access Mode Configure the port to operate as an access port, which ensures it will carry traffic for only one VLAN:

```
switchport mode access" [^3^] [^2^].
```

o

Assign the VLAN Specify the VLAN that the access port should belong to:

```
switchport access vlan 10
```

Replace 10 with the VLAN ID you want the port to use .

o

Enable the Port If the port is administratively down, bring it up using:

```
no shutdown" [^1^].
```

o

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Save the Configuration Make the changes permanent by copying the running configuration to startup configuration:

```
copy running-config startup-config" [^1^].
```

Verification

o

Check the port status and VLAN assignment:

```
show running-configshow interfaces switchport
```

These commands display the current mode (access or trunk) and the VLAN assigned to the port .

o

Test connectivity by connecting an end device to the port and pinging another device in the same VLAN .

Key Points

- o Access ports carry traffic for a single VLAN and are typically used for end devices like PCs, printers, or IP phones .
- o Trunk ports carry multiple VLANs and are used for switch-to-switch or switch-to-router connections .
- o A port cannot be configured as both access and trunk simultaneously; the last command executed takes effect .
- o By default, all switch ports are in VLAN 1 unless reassigned .

Following these steps ensures that your switch ports are correctly configured to connect end devices to the appropriate VLAN, maintaining proper network segmentation and traffic flow.

On the Switching > Monitor > Switch Ports page, administrators can name ports, turn ports

Switch ports can be set either in trunk or access mode to have more control on switch port behaviour. Using switchport

Read on to learn how. Access ports and trunks: everything you need to know about how they work. When configuring a Cisco switch,

Learn exactly what the Access port is, which we often hear about in switch network devices. Discover how to set up

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Design & Configure Access port config (Huawei) Technology: Switching Area: Neighbor Discovery
Vendor: Huawei Software: eNSP

We need to configure the Switch interfaces for end-user devices. In this process, we need to set specific ports as

While configuring network switches (layer 2 devices) two types of modes are available to manage VLANs - "switchport

To activate or enable a port on your Cisco Switch, connect to your Switch and type

In this lesson we begin learning how to configure VLANs (Virtual Local Area Networks) on Cisco switches. More

Unlike other lower class switch vendors (which are plug-and-play), the Cisco switch needs some initial basic configuration in order to

When configuring an access port, you also want to define which VLAN the port belongs to. To configure and assign a switch access

Switch Port VLAN Assignment (Trunk & Access Ports) Configuring VLANs (Virtual Local Area Networks) on switch ports is essential

In this section we'll walk through configuring a number of common port types. Tips Access Port Access Port w/ Voice VLAN Trunk

This wikiHow teaches you how to turn on any port on your Cisco switch. In most cases,

How to configure an access port on Cisco switch? An access port transmits packets on only one VLAN (traffic is not tagged on this

The process of configuring a Cisco switch involves several key steps, including setting up basic switch parameters,

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