

Access Switch Port



Article Overview

A switch access port is a Layer 2 interface configured to carry traffic for a single VLAN, typically connecting end devices like computers or printers.

Definition and Purpose

An access port is a switch port that connects directly to end devices and is assigned to a single VLAN. It strips any VLAN tags from incoming frames and only forwards traffic for the VLAN it is assigned to, ensuring that the connected device belongs to a specific broadcast domain. This simplifies network management and enhances security by isolating traffic between VLANs.

Key Characteristics

- **Single VLAN Assignment:** Each access port can carry traffic for only one VLAN. By default, all switch ports are assigned to VLAN 1 unless configured otherwise.
- **No VLAN Tagging:** Frames sent from an access port are untagged, and any tagged frames that do not match the port's VLAN are dropped.
- **End Device Connectivity:** Access ports are used to connect devices such as PCs, printers, IP phones, or servers that do not need to be aware of VLANs.
- **Broadcast Domain:** All devices connected to access ports within the same VLAN share a single broadcast domain, which helps contain broadcast traffic and improve network performance.

Configuration on Cisco Switches...

Article Content

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Cisco switchport mode access vs switchport access vlan

What's the difference between "switchport mode access" and "switchport access vlan xx"? First of all, both commands are required

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Configuring access & trunk ports

This article describes how to configure access and trunk ports on a Cisco switch. How to verify the commands is also shown in the

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Differences Between Access ports and Trunk ports

In access mode, the port connects an end device to the network and functions within a single VLAN. In trunk mode,

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A Comprehensive Overview of Ethernet Switch Port Types

Confused about SFP, QSFP, or combo ports? This guide explains Ethernet switch port types including RJ45,

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Description of Switchport Mode Access vs Trunk Modes on Cisco

If a switch port is operating in "access" mode, it can be assigned to only a single VLAN, adding additional security. Multiple ports can

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Difference Between Trunk Port and Access Port

Trunk ports facilitate the transfer of multiple VLAN traffic streams across switches, while access ports enable data

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VLAN Access Ports

VLAN Access Ports – Cisco CCNA Tutorial In this Cisco CCNA training tutorial, you'll learn about VLAN Access ports and how to

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Configuring Access and Trunk Interfaces

To optimize the performance on access ports, you can configure the port as a host port. Once the port is configured as

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Ethernet Switch Port Types Explained: Access, Trunk, SFP, QSFP

Explore all Ethernet switch port types including access, trunk, hybrid, SFP, SFP+, QSFP, QSFP28, PoE, and stack

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Access Port vs Trunk Port: The Ultimate Guide to VLAN Modes

What is the difference between an access port and a trunk port? Learn how switches process 802.1Q tags, handle

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Access Port vs Trunk Port: The Ultimate Guide to VLAN Modes

What Is an Access Port? An access port represents the extreme edge of your enterprise network. Its primary design

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Assign an Interface VLAN as an Access or Trunk Port on a Switch

This ensures that packets for both data types are isolated from each other, maximizing the utilization of the switch.

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Configuring access ports on Cisco switches – IT Networking Skills

This is Part 1 of 3 of VLANs study notes for the CCNA exam. In this lesson we begin learning how to configure VLANs

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How to configure and assign a Cisco switch access port to a VLAN

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

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Access ports vs trunk ports | ManageEngine OpUtils

Access port vs. trunk port: 7 key differences Understanding the core data frame processing capability, functionalities, and key

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What is Switchport Mode Access? How to Configure Switchport Mode

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

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What is Switchport Mode Access? How to Configure Switchport Mode Access ...

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

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How to Configure Access and Trunk Ports for Beginners on ...

In this Cisco Tech Talk, we provide a beginner-friendly guide on how to configure access and trunk ports on Cisco

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What is a Switch Port? A Complete Guide

What is a switch port? A switch port is a physical switch that evolves with the network and the type of transmission

Oct 27, 2025

Access and trunk ports

Access and trunk ports If you intend to use VLANs in your network, you will need to configure some ports on a switch as access

Oct 21, 2025

VLAN Access Ports and Switchport Modes: Access, Trunk, Dynamic

Each mode determines how a port handles frames, which VLANs are allowed on the port, and how the switch

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What is a Switchport | Basic Definitions, Types, and Functions

The three primary types of switch ports in this kind of network are access, trunk, and hybrid: Access Ports: A network

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Configuring Access and Trunk Interfaces

Configuring Access and Trunk Interfaces Ethernet interfaces can be configured either as access ports or trunk ports. Trunks carry the

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Configure Port to VLAN Interface Settings on a Switch through ...

This article provides instructions on how to configure an interface VLAN as an access or trunk port on your switch

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7-3 Types of Switch Ports

A switch port in access modes belongs to one specific VLAN and sends and receives regular Ethernet frames in untagged form. The

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How to Log into a Network Switch: Console Port, Telnet, Web

Here are 3 ways to log into a network switch: console port, Telnet, and web interface. Learn how to access a switch

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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