

VLAN Switch Access



Article Overview

VLAN access allows you to control and filter traffic within a VLAN using VLAN Access Control Lists (VACLs) or by assigning switch ports to specific VLANs.

Understanding VLAN Access

A Virtual LAN (VLAN) is a logical grouping of devices that allows them to communicate as if they are on the same local network, even if physically connected to different switches. VLANs improve network performance, security, and manageability by isolating broadcast domains and controlling traffic flow. Devices in the same VLAN communicate directly, while communication between different VLANs requires Inter-VLAN Routing via a router or Layer 3 switch.

VLAN Port Access

Switch ports can operate in two modes:

- Access mode: The port is assigned to a single VLAN, and devices connected to it become members of that VLAN. This is the default mode for end devices.
- Trunk mode: The port carries traffic for multiple VLANs, typically used for switch-to-switch connections. To assign a port to a VLAN on a Cisco switch, use the following commands:

```
Switch(config)# interface GigabitEthernet0/1Switch(config-if)# switchport mode accessSwitch(config-if)# switchport access vlan 10
```

This assigns the port to VLAN 10, making any connected device a member of that V...

Article Content

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Access and Trunk Ports

Switch ports are Layer 2 interfaces that are used to carry layer 2 traffic. A single switch port can carry single VLAN

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Switch Port VLAN Assignment (Trunk & Access Ports)

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

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Routing Between VLANs & Layer 3 Switches

Learn what a Router Sub-interface and a L3 Switch is, as well as how to configure both of them on Cisco

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Access and Trunk Ports

Trunk ports provide a more efficient use of bandwidth by allowing multiple VLANs to share the same physical link.

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How to Configure VLANs: Trunks and Access Ports

Remember a couple of things when creating the VLANs. VLANs are created on switches, not routers. Trunk and

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

Learn the differences between access mode, trunk mode, and dynamic trunking protocol negotiation on Cisco Catalyst

May 07, 2026

Dell X-series switch, how to change Access mode VLAN

This How-to will describe how to change the VLAN that an Access mode port participates in, on the Dell Networking X

Aug 05, 2025

Configure VLANs on a Cisco Switch | ComputingForGeeks

This guide shows how to configure VLANs on a Cisco switch: creating them, putting access ports into them, adding a

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Wireless VLANs

The access port is normally assigned to the native VLAN of the access point, which is not necessarily VLAN 1, which

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Virtual Local Area Networks (VLANs)

VLANs serve two major functions: splitting up one switch into smaller virtual-switches, and extending those virtual-switches to other

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

Access port — A port that carries traffic only to and from the specific VLAN assigned to it. Trunk port — A port that is capable of

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access vlan between switches

Access ports tag or retag the packets in the incoming direction. So with your configuration packets from Switch A to Switch B and

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VLAN Configuration Guide

Management VLAN: Provides a dedicated path for network device management traffic, such as accessing switches

Oct 29, 2025

Cisco Switchport Mode Access vs Switchport Access VLAN

The switchport access VLAN is a command which assigns layer 2 interface on a Cisco switch to specific VLAN. This

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Description of Switchport Mode Access vs Trunk Modes

In this article, we will discuss a couple of core concepts of network switching which are about Access and

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Switchport Access Vlan Command on CISCO Router/Switch

Switchport Access Vlan Command Switchport Access Vlan Use Sets the VLAN that the interface belongs to. Syntax

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Inter VLAN Routing by Layer 3 Switch

Security: Inter-VLAN routing by Layer 3 switch provides better security than other methods, as it allows for the creation

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Layer 2 VLAN Configuration on a Cisco Switch (with Example)

This post will deal with creating Layer 2 VLANs on Cisco switches and performing all relevant configurations. Up to 4094 VLANs can

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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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VLAN access-map (VACL) Example Configuration on

In this post I will discuss Vlan access control lists (VACL), also called VLAN access Map or VLAN Map. A

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Consolidated Platform Configuration Guide, Cisco IOS Release

VLAN access control lists (ACLs) or VLAN maps access-control all packets (bridged and routed). You can use VLAN

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How To Configure VLANs On the Catalyst Switches

Introduction VLAN stands for Virtual Local Area Network one physical cisco switch; you can create multiple VLANs

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Access switch remotely from different VLAN

I can access the switches remotely from hosts connected to VLAN 99, but not from the other VLANs. However I can

Jul 09, 2026

How to Create VLAN | Switchport Mode Access

This article explains how to create Virtual LAN. Which is we need to put subnets into our switched environments.

Mar 31, 2026

VLAN Access Control Lists

Unsupported protocols are access-controlled through MAC addresses using Ethernet access control entries (ACEs). After a VLAN

Nov 02, 2025

How to Configure VLAN on a Cisco Switch: Step-by-Step Guide

Configuring a VLAN on a Cisco switch means more than just creating a VLAN ID. In a real network, you also need to

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