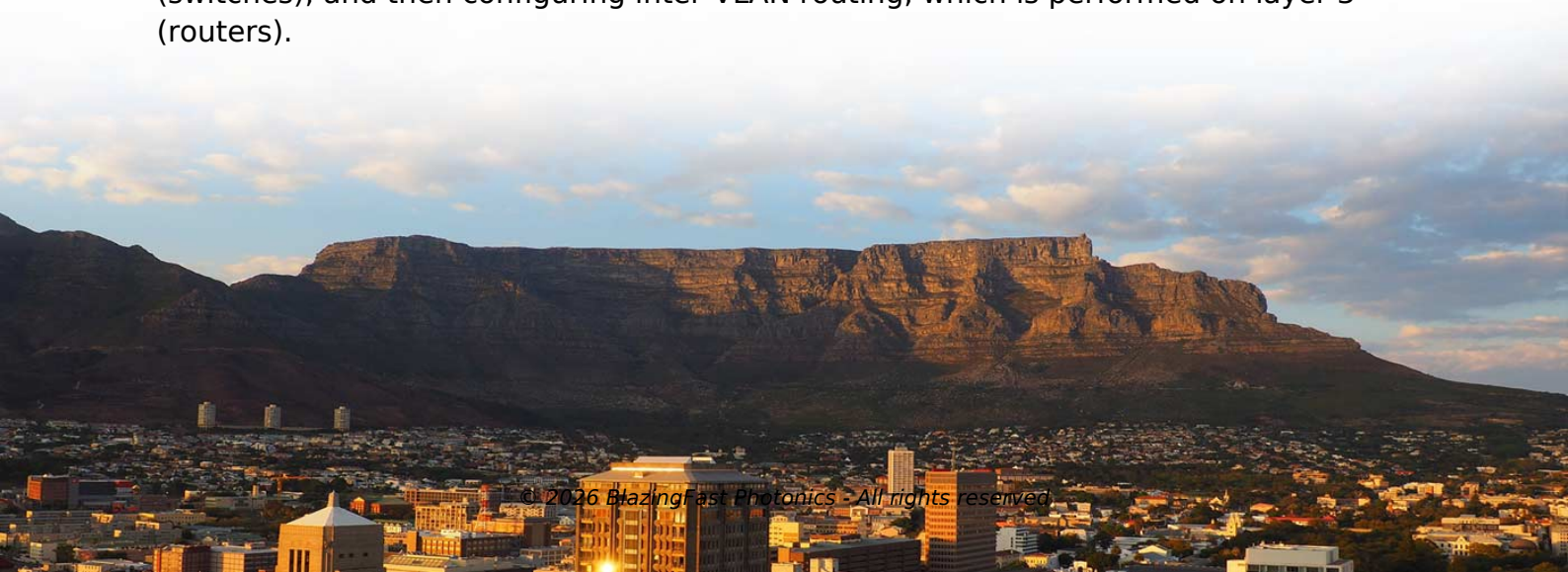
Access switches can only connect to a specific VLAN

Overview

Access ports connect end-user devices to a single VLAN, Trunk ports carry traffic from multiple VLANs, and Hybrid ports handle both tagged and untagged traffic—offering added flexibility. Ethernet interfaces are used to carry traffic over VLANs. Setting switch interfaces to access mode is required sometimes where there is a need to connect to endpoints as some. The question is, will the device attached to the right switch and assigned VLAN200 be able to communicate with the device attached on the left switch and assigned VLAN 200?

My understanding is that these two devices won't be able to communicate because of the fact that the ports on each switch are. A VLAN port is a physical or logical interface on a switch or router that controls how traffic is assigned to VLANs, enabling network segmentation and traffic isolation. Depending on their configuration, VLAN ports operate as Access, Trunk, or Hybrid ports. Trunk ports allow traffic for multiple VLANs, while access ports handle. Configuring VLANs involves two main components: configuring the VLANs themselves, which refers to creating the VLANs on layer 2 (switches), and then configuring inter-VLAN routing, which is performed on layer 3 (routers).



Article Content

Configuring Access and Trunk Interfaces

An access port can carry traffic in one VLAN only. By default, an access port carries traffic for VLAN1; to set the access port to carry traffic for a different VLAN, use the switchport access vlan command.

Wireless VLANs

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

Cisco Catalyst 2960-X and 2960-XR Series Switches

Cisco ONE Software for Access Switching is available for the Cisco Catalyst 2960-X and 2960-XR Series Switches. Cisco ONE Software offers a simplified

Configure Port to VLAN Interface Settings on a Switch

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

What''s the right way to connect to your IoT devices on

The IoT VLAN should be reachable from the main VLAN so that responses can be sent back for control purposes. There should be a wireless

Tagged vs Untagged VLAN: When You Should Use Each

Tagged vs untagged VLANs can be confusing for beginners. Discover the difference between the two VLAN types and when you need to use each.

What Is a VLAN? | Benefits, Security & Use Cases

A VLAN allows you to logically separate networks even if the devices are physically connected to the same switches. This technology improves

15 Best Managed Network Switches for Seamless

Just discovering the top managed network switches for 2025 can transform your connectivity—find out which models ensure seamless network

VLAN Port Types: Access vs Trunking vs Hybrid

VLAN port types govern how switches handle traffic in a VLAN. In any network configuration, knowing the 2 types of port in VLAN —Access and Trunk—is the

How to Configure VLANs: Trunks and Access Ports

VLANs are created on switches, not routers. Trunk and access ports are only configured on switches, not routers. The router''s only role with VLANs is

Home Network VLANs: Isolate IoT Devices for Security | State of ...

Segment your home network with VLANs to protect computers from compromised IoT devices. Complete guide to creating trusted, IoT, and guest networks with firewall rules.

Best Ethernet Switches for Business (2025): Selection

Selecting the right Ethernet switch for your business network is critical to ensuring optimal performance, security, and scalability while avoiding costly

Homelab VLANs Explained: Network Segmentation

Learn how VLANs work in a homelab, how network segmentation improves security, and how inter-VLAN routing connects separated networks.

Configuring access ports on Cisco switches – IT

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

Access and Trunk Ports

Access ports can only carry traffic for a single VLAN, which can limit network flexibility and scalability. If a device needs to communicate with devices on another VLAN, it must go through a

VLAN Port Types: Access vs Trunking vs Hybrid

Access ports connect end-user devices to a single VLAN, Trunk ports carry traffic from multiple VLANs, and Hybrid ports handle both tagged and

Switch Port VLAN Assignment (Trunk & Access Ports)

Custom (Trunk Port): This option can be used to allow traffic for subset of VLANs, rather than all of them. When configuring a switch port used to connect an AP or

can we connect two switches, when using access mode ?

Yes, you can connect two switches with access ports, and you just need to say "switchport mode access" and "switchport access vlan ID " on the

Understanding VLAN Trunking: Configuration and

This command configures the trunk to carry only VLANs 10 and 20, blocking all others. Advanced VLAN Trunking Concepts VTP simplifies the management of

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. You can assign an interface VLAN into a specific mode such as an

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 command takes effect only if

What is Switchport Mode Access? How to Configure

In this mode, the port can connect to only a single VLAN (usually for end devices like computers or printers) and does not participate in VLAN

VLAN Port Types: Access vs Trunking vs Hybrid

Access ports are configured to carry traffic for a single VLAN only. This means that any device connected to an access port will belong only to that

ACCESS PORT | Different VLANs

The drawing shows a left switch with 2 devices, one in vlan 100 and one in vlan 200, and an access port connecting left switch to right switch

What is a 10G SFP+ Switch and How to Use It?

You can connect multiple switches together to create a larger network without sacrificing speed. 3. Low Latency: The 10G SFP+ switch is designed to

Assign an Interface VLAN as an Access or Trunk Port

You can assign an interface VLAN into a specific mode such as an Access or Trunk port. Access port — A port that carries traffic only to and from

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