

Can different VLANs of the core switch communicate with each other



Summary of Content

Different VLANs can communicate with a core switch if inter-VLAN routing is enabled, typically using a Layer 3 switch or router.

VLAN Basics

A VLAN (Virtual Local Area Network) segments a network at Layer 2, creating separate broadcast domains. Devices within the same VLAN can communicate directly, but devices on different VLANs cannot communicate at Layer 2 alone because VLANs isolate traffic to maintain separation and security .

Role of the Core Switch

A core switch often operates at Layer 3, meaning it can perform routing between VLANs. To enable communication between VLANs:

- Trunk Links: Access and distribution switches connect to the core switch using trunk ports, which carry traffic for multiple VLANs simultaneously .
- SVIs (Switched Virtual Interfaces): Each VLAN on the core switch must have an SVI configured with an IP address. These SVIs act as default gateways for devices in their respective VLANs .
- Routing: The core switch must have IP routing enabled. This allows it to route packets between VLANs, effectively enabling devices in VLAN 10 to communicate with devices in VLAN 20 .

Practical Configuration Steps

Article Content

CONFIGURATION GUIDE: Routing Between VLANs

Trying to establish inter-VLAN communication? Check out our guide to routing between VLANs here! Real problems, hands on

Routing Between VLANs Overview

Security VLANs improve security by isolating groups. High-security users can be grouped into a VLAN, possibly on the same

Solved: Communication between two VLAN'S

Solved: Hello Team, Can two different VLANs on the same switch communicate without

Inter VLAN Routing Explained for Network Pros.

Inter-VLAN routing allows devices in different VLANs to communicate with each other using

CCT: Why Can't Devices in Different VLANs Communicate on Switch

Devices within the same VLAN can communicate directly through the switch. Communication between devices in

Inter-VLAN Routing Configuration

Inter-VLAN routing is a network configuration technique that allows communication between devices on different

Why can't a switch send frames between two VLANs?

I only know the basics of networks. Why can't a switch send frames between two VLANs? Or why can't a switch do

How can hosts on two different VLANs communicate?

Two separate VLANs must communicate through a layer-3 device, like a router. Devices on a VLAN communicate with

Inter-VLAN Routing | LogicMonitor

You can have one device on one VLAN, and another on another VLAN connected to the

switch

A frame from the "native" VLAN is transmitted without VLAN tag on a trunk, so if you use different VLAN IDs as native

Why Devices on Different VLANs but on the Same Subnet Can't

A common confusion arises when devices are on different VLANs but share the same IP subnet: they can't

Solved: VLAN's on cisco switches

1) They suggested they would just shut down their vlan 2, 3, and 4 interface with int vlan and shut commands for each

How to Configure a Switch to Support Multiple VLANs?

They allow you to logically segment a physical network into multiple, separate broadcast domains. This means devices

Allowing Two vlans to communicate with each other?

@hakeem123 greetings, To allow different vlans to communicate to each other, you will need to enable routing in your

Switching Architectures: VLANs

VLANs are also useful in servers especially with virtualization Virtual Machines (VMs) for different networks (public vs private or

Solved: Can Two switches pass different Vlan traffic between each other ...

06-17-2014 08:42 AM Hi, You can configure a trunk link between the two switches and pass multiple vlans via that link, if you want

How can I get 2 VLAN's to communicate with each other

Hi, I'm just setting up a lab, I have 2 VLAN's on a Cisco 2950, one for servers and one for users. Both VLANS are on

Configure Inter-VLAN Routing with Catalyst Switches

This method allows devices in different VLANs to communicate with each other. For example, a computer in the IT

Solved: Communication of two different VLANs (Layer 2 switch)

I have created two VLANs(as shown in images)respectively to two switches, Switch1 has VLAN 10 and Switch2 has

lsw_rtng_vlan_ovw.fm

VLAN can be thought of as a broadcast domain that exists within a defined set of switches. A VLAN consists of a number of end

How to set up VLAN trunking on your managed switch

The question then is how to get tagged VLAN traffic to the other endpoint devices in your network. You could set up

Configuring Routing Between VLANs

The bridging domain is supported on various pieces of network equipment; for example, LAN switches that operate bridging

how to communicate between two vlans in same switch

You'll need to set up the mikrotik <sp?> router with two different ip ranges and vlans. I don't know how that router

Best Practices for Inter-VLAN Routing in CISCO

Suitable for small networks with few VLANs. Assign different subnets to each VLAN for easy management. Use firewall rules to

How we can communicate with two VLANs that are created in two different ...

If you create the other SVI on one of the two switches then you can leverage the inter-VLAN routing without any need for any

Communication between different VLAN

Solved: In my previous understanding, there is no way to communicate between two VLANs using only layer 2 . After

Inter-VLAN Routing: RoAS, SVIs & What Breaks First

Once ip routing is enabled and SVIs are up, the switch builds a routing table with connected routes for each VLAN

How to set which VLANs can talk to each other and other VLAN

Hi! This is my first time trying to set up VLANs. This is purely for testing, as I'm currently an apprentice as an ICT

Contact Us

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

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

Email: sales@madibabayelectrical.co.za

Phone: +27 63 947 2185

Address: 15 Fredman Drive, Sandton, Johannesburg, 2196, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

