

Core switch VLANs do not communicate with each other



Overview

Normally, VLANs are separate and cannot talk to each other. In a LAN, VLANs divide devices into distinct collision domains and Layer 3 (L3) subnets. Inter-VLAN routing makes communication possible between them, which is important in networks that use VLANs to. However, a common confusion arises when devices are on different VLANs but share the same IP subnet: they can't communicate with each other. The link between users is faulty. Layer 2 port isolation is configured on the switch. RoAS uses one physical interface with multiple logical subinterfaces. Here's what I type every time I set up RoAS: Step 1: Router subinterfaces (complete config): ip helper-address 192. 10 ! DHCP. Unless you assign a VLAN IP to the other VLANs on each switch, you won't be able to ping them from the same VLAN on another switch unless something is routing inter vlan traffic.



Article Content

Why Devices on Different VLANs but on the Same

A common confusion arises when devices are on different VLANs but share the same IP subnet: they can't communicate with each other. Learn why

Communication between different VLAN

In my previous understanding, there is no way to communicate between two VLANs using only layer 2. After all, this is the purpose of having VLAN. But today, I heard sth really interesting

WAN LAN and WiFi Management Expertise for Large Networks

For example, in the 5.8 GHz band, channels 36, 40, 44, 48 are commonly recommended because they do not overlap with each other.

Troubleshooting VLAN and Switch Problems

Learn how to troubleshoot VLAN and switch problems in the first of this two-part series by Joe Rinehart. Video Tutorial.

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

Learn inter-VLAN routing with step-by-step Cisco configs for router-on-a-stick and Layer 3 SVIs. Includes HSRP redundancy, DHCP relay, ACLs, and troubleshooting commands.

Cisco VLAN Troubleshooting Commands And VLAN

This article offers practical tips and solutions for VLAN troubleshooting, including how to verify VLAN tagging, and check trunk ports.

VLAN Configuration and Connectivity Issue on Core Switch (MS 425-32)

Yes, the end server must support VLAN tagging if it is connected to a trunk port on the switch. Refer to the server's NIC documentation for specific configuration steps and troubleshooting tips.

DS-3E1309P-EI

Port Isolation Ports 1 to 8: port isolation mode to improve network security Ports in an isolation group cannot communicate with each other, but they can communicate with ports outside the isolation

Router vs Firewall vs Switch: Who Controls Traffic, Access, and ...

Layer 2 Switch vs Layer 3 Switch Not all switches do the same job. A Layer 2 switch forwards traffic based on MAC addresses. It's used at the access layer and for VLAN separation. A

Windows administrator | This question is based on [Network-Link ...](#)

(Switch B includes VLAN 21). When the mapping differs by even one VLAN, the switches see each other as being in different regions. This triggers the MST Boundary logic, and they will interact using

Solved: Layer 3 Switch

From the switch CLI i cannot ping the device on VLAN 3 either (192.168.1.3) despite it being able to ping the interface and VLAN 2 device as well as picking up DHCP details.

Allowing Two vlans to communicate with each other?

01-26-2019 03:31 AM @hakeem123 greetings, To allow different vlans to communicate to each other, you will need to enable routing in your multilayer switch using the following command: #ip routing But

What to do if devices in the same VLAN fail to communicate with each ...

As is shown, two PCs with static IP addresses in the VLAN 10 cannot communicate with each other. The data packets need to pass three switches to be transmitted between the two PCs.

Troubleshooting Common VLAN and SVI Configuration

One common issue is VLANs not propagating through the network as expected, often due to misconfiguration of VLAN Trunk Protocol (VTP) settings.

Inter-VLAN Routing: Connect VLAN-to-VLAN Communication

This article provides a step-by-step walkthrough, including configuring VLANs on a Cisco switch, setting up trunk ports, creating router sub-interfaces, and assigning IP addresses.

VLAN communications not working

Unless you assign a VLAN IP to the other VLANs on each switch, you won't be able to ping them from the same VLAN on another switch unless something is routing inter vlan traffic.

How to Troubleshoot Common VLAN Interface Issues

To prevent VLAN hopping—a security exploit where an attacker gains access to traffic on other VLANs: Disable Unused Ports: Disable all switch

Users in a VLAN Cannot Communicate with Each Other

CloudEngine 16800, 12800, 9800, 8800, 7800, 6800, and 5800 Series Switches Troubleshooting Guide (V100 and V200) Users in a VLAN Cannot Communicate with Each Other After commands are

1 VLAN can not communicate with 1 other VLAN on my layer 3 switch ...

I have one VLAN with devices on it that can't communicate to 1 of my other vlans. I have a layer 3 switch with several interface VLANs following the scheme 10.x.a.x, 10.x.b.x, 10.x.c.x etc. I

Routing Between VLANs & Layer 3 Switches

We wrote an article which covers Virtual Local Area Networks (VLANs) as a concept, and another article on configuring VLANs on Cisco switches. The

Inter-VLAN Routing Configuration

The ultimate guide to Traditional Inter-VLAN Routing, Router-on-a-Stick Inter-VLAN Routing, and Multilayer Switch Inter-VLAN Routing Inter-VLAN

Users in a VLAN Cannot Communicate with Each Other

Users in a VLAN cannot communicate with each other. Possible Causes This fault is commonly caused by one of the following: The link between users is faulty. The interfaces connected to the users are

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