

Can IPs from different network segments be connected to a switch



Overview

In addition to configuring an IP address for a VLANIF interface, you need to configure a static route or a dynamic routing protocol when PCs on different network segments across several switches need to communicate. Additional support information - please understand points 1 and 2 explained. Let me start this off by saying that I am very new to how IP Address / Subnet Addresses work, and networking in general. I have a network device that is hard coded with the IP Address 192. As one of the core equipments in the network, if the switch can realize the interconnection between different network segments, it will certainly provide more convenient and efficient support for network. I know that different IP-based networks can be connected to the same layer-2 switch. My understanding is that a layer-2 switch depends on the physical. Edit the question to answer: Are the 2 IP networks sharing the same physical network (same switch/hub)?

@hardillb, yes they are. Your options depend on just how capable your "router" is.



Article Content

What is network segmentation?

What are the different types of segmentation? Macro-segmentation: The most common form of network segmentation, macro-segmentation is the practice of

2 ip ranges 1 Switch

since you want 2 separate networks, you SHOULD use VLANs to create the logical separation. without them, you would have to create a network that contained both subnets (BAD

How Does A Layer 2 Switch Differentiate Between Different Networks?

8 I know that different IP-based networks can be connected to the same layer-2 switch. and I know each network's nodes can communicate just fine, however, no normal traffic can occur

Can Switches Interconnect Different Network

In network communication, the interconnection between different network segments is crucial. As one of the core equipments in the network, if the

How Does A Layer 2 Switch Differentiate Between Different Networks?

If you connect two layer 3 networks to the same VLAN (or a switch without VLANs), then they still can't communicate (under normal circumstances) because layer 3 addressing requires a

Two hosts of different subnets connected to switch

Two host of different subnets, let it be A - 10.1.2.1/24 and B - 10.1.3.1/24 be connect to the same switch S. Can they communicate? So as far I understand: A sends a packets with IP of B S

Different network classes in the same physical network

I would add 5. Because the router is the only device which knows how to route traffic between the two IP networks the packets are transmitted twice

Intercommunication between routers on different

Hello everyone, recently many people have asked how two routers on different network segments can communicate with each other. At this time we

What is a Network Switch and How Does it Work?

Layer 3 switches can route packets between diverse subnets or VLANs (virtual LANs) with the application of IP addresses, similar to the manner

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networking

You have your wifi router connected via the WAN port to the switches. This configuration puts all wifi (and other traffic plugged into the wifi device's LAN ports) to be behind the IP address translation and

How do devices connected to a switch get their IPs?

So the question is: How do the devices connected to a particular switch get their IP? Who hands it out to them? Do you have to assign it manually

Can Switches Interconnect Different Network

Layer 2 switches work at the data link layer and forward data frames based on MAC addresses, and they must use routers to realize the

Communicating with devices on a different subnet

A full IP address actually given to a machine will not have 0's in that spot - but routing table entries work with network addresses. A routing table entry

Can switches interconnect different network segments?

When different departments or devices with different functions are in different network segments, the switch can connect these segments to realize the

networking

Can anyone tell me what some of the implications of having two different subnets on the same switch would be if VLANs are not being used?

Network Segmentation

Network segmentation divides a computer network into smaller, isolated segments to control and restrict communication. It enhances security by

Fundamentals of communication between two different

This concept will be useful in switching, NAT, access control lists and routing, among others "Scenario 2" is an offshoot of the discussion resulting from "Scenario 1" 1.

Fundamentals of communication between two different

Where two or more Cisco switches are connected to a single common switch, each has a VLAN interface configured with a different ip network and with no further

Communication between different subnet MASKS with

This may be a dumb question. Actually I'm sure of it, but i'd like a thorough explanation for it so i can wrap my head around it consider a switch with

Example for Configuring Communication Between Different Network ...

In addition to configuring an IP address for a VLANIF interface, you need to configure a static route or a dynamic routing protocol when PCs on different network segments across several switches need to

Understanding Ethernet LAN Segmentation

You can use a network switching technology to provide LAN segmentation features. LAN switches can assist in increasing bandwidth availability for workstations because LAN switches support

How to link two networks with different IP ranges

Pick one of the Linux machines on the network, assign it's interface addresses out of both ranges e.g. 192.168.0.15 and 192.168.1.1 then add a static

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