

IPs from different network segments are connected to the same switch

To make things even more complex, they could have a third set of IP addresses, say 10.255.255.0/24, that is shared among them. Within that subnet, L2 is possible.

We need a router which will route packets from one network to the other. Let's have a look at the different ways we can solve this problem: Our first option is to use one of the Servers, or a new ...

Since by adding a "virtual switch" it will achieve the same effect of connecting 2 network together; sharing a same subnet and furthermore there is no physical constraint here.

Figure out which other layer-3 nodes are connected to the same segment so it can send the packets to them directly without going through an intermediate device.

The switch automatically creates direct routes to these subnets and uses these routes to forward traffic between VLANs. The interface on the switch detects both MAC addresses and IP addresses, then ...

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 ...

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 ...

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 interconnection between different network ...

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 that is so and how to solve it.

Typically this would be the subnet (or subnets, if multiple addresses are assigned to interfaces) in which the interfaces' IP address (or addresses) are located. You can add routing table ...

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 ...



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