

Accessing the Internet via a Layer 3 Switch with a Static IP Address



Overview

In this article, I'm going to walk you through setting up a network with three VLANs, each using different subnets, and configuring a Layer 3 switch to route between those subnets. I was just wondering how to setup hosts for internet access in a layer 3 intervlan routing environment. How would I get the sales and accounts PC's on the internet. A point to note is that to provide an IP Address to a switch interface, the switch first must be a Multilayer Switch and all ports of an MLS is layer 2 by default. A Layer 3 switch can perform IP routing tasks as well as Layer 2 tasks such as VLANs. Moreover, a Layer 3 switch can typically route faster than a router, improving network performance.

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A Layer 3 switch configuration enables inter-VLAN routing by combining traditional Layer 2 switching with Layer 3 routing capabilities. This eliminates the need for separate routers for each ...



Introduction
Step 1
Step 2
Step 3
Step 4
Step 5
Step 6
Step 7
Step 8
Step 9
Before you configure the Layer 3 switch, create static routes in the gateway router to each of the new subnets. In this example, my gateway router uses a LAN subnet of 192.168.199.0, so I need to create static routes on the router to the 192.168.7.0 and 192.168.8.0 subnets. Note, some Layer 3 switches may support using routing protocols such as RIP ...
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Configure the switch as the DHCP server to assign IP addresses to users. Configure the NAT function on the router to enable intranet users to access the Internet. Configure the switch. # Configure the ...



The following example shows how to create an IPv4 static route with the destination IP address as 192.168.2.0, the subnet mask as 255.255.255.0 and the next-hop address as 192.168.0.2:



Learn how routers and Layer 3 switches connect networks, route IP packets, and enable fast inter-VLAN communication in modern network designs.



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Traffic from the management IP address to the Cisco Meraki Cloud Controller will not use the layer 3 routing settings; instead, it will be using its configured default gateway.



To configure an IP Address on a switch interface, first, we must change the interface from a layer 2 interface to a layer 3 interface. A point to note is that to provide an IP Address to a switch ...



Assuming you are using broadband, or a bearer that is NOT Ethernet anyway. Otherwise, you need provision data (IP address, sub net mask) which you get from the ISP. It will need an IP ...



- Connect the PC to the router's LAN port with cables and configure a static IP address 192.168.0.X/23 on the PC. Then, open a browser and enter the router's management IP address <https://192.168.0.1> ...



They are using the gateway address of the 3560 switch vlans. I have everything working on the intervlan routing side but just not sure what else I need to do to be able to get the PCs on the internet.

Contact Us

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