

The IP addresses of the switch and the access network are different



Overview

As you point out, switches operate at layer 2 (MAC level) so IP addresses and subnets mean nothing to them. If your switches are connected to different interfaces on your router, then they are usually on different subnets, but that configuration is done on the. Not every switch or AP comes equipped with an IP address: Unmanaged Switches: These basic switches operate without configuration interfaces and do not possess IP addresses. They work transparently, forwarding data without any need for IP identification. This white paper introduces the following three types of network switches and further discusses the selection criteria for each switch. If there comes a situation where I need to know the IP addresses of the devices connected to either Switch A or B, what would be the right way to find it?

I know that if I run the command Show Arp, it would display the. The Switch is a network device that is used to segment the networks into different subnetworks called subnets or LAN segments. A switch operates within a single VLAN and broadcast domain, which matches one IP subnet.



Article Content

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What is a Network Protocol? Definition and Types | TechTarget

What is a network protocol? A network protocol is a set of established rules that specify how to format, send and receive data so that computer network endpoints, including computers,

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Core Switch vs. Distribution Switch vs. Access Switch

Comprehensive guide to Core, Distribution, and Access Switches. Roles in the network and important parameters explained.

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What is a network switch? | Switch vs. router

A network switch forwards data between devices, unlike routers, which forward data between networks. Learn about Ethernet switches, managed switches, and more.

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This will provide internet access to every computer that is connected to your LAN. You can skip this if you're setting up a LAN without internet access.

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To set a static IP address in Windows 10 or 11, open Settings -> Network & Internet and click Properties for your active network. Choose the "Edit"

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Does a Network Switch Have an IP Address?

While switches primarily work with MAC addresses, IP addresses become relevant when a switch needs to be managed or participate in more complex network functions.

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Did you know that hackers can hack default-named Wi-Fis easier than customized ones? The default name is usually something generic like

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As you point out, switches operate at layer 2 (MAC level) so IP

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Enable NIC Teaming (LBFO) and Switch Embedded

In Windows Server 2025, LBFO NIC Teaming is blocked for Hyper-V virtual switches, and Switch Embedded Teaming (SET) is the only supported

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192.168.1.1 Default Router IP Address and Routers Using It

192.168.1.1 is the default IP address of most Linksys routers. In this article, you can learn more about the IP address, other routers using this address, and how to

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This article will delve into the unique characteristics of routers, switches, and access points, helping you make informed decisions about your networking setup.

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Finally, remember that every time you use a laptop computer on a different Wi-Fi (wireless) network, you're switching IP addresses. You'll be using the public IP

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Do Network Switches and Wi-Fi Access Points Have IP

A frequently asked question is whether these devices have IP addresses. The answer varies based on the type and role of each device. This

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Layers of OSI Model

Logical Addressing: Assigns unique IP addresses (sender and receiver) to the packet header to identify devices globally. Routing: Determines

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Routers vs. Switches vs. Access Points

Depending on the size of a network, multiple switches may be required to connect different groups of computer networks. To provide Internet

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What is the internet? | Definition from TechTarget

How the internet works The process of transferring information over the internet from one device to another relies on packet switching. The internet is

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Why do switches and access points have ip addresses?

While working on the network i have seen that switches and wifi access points do contain the ip addresses. One reason for them to have the ip address is that we can manage them from the

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How to Find My IP Address

Knowing your IP address can be helpful for troubleshooting many network problems and well and Internet connection issues. However, there are

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Routers and L3 Switches | NetworkAcademy.IO

A router connects multiple switches and their networks to create a larger, interconnected IP network. In short, a router enables communication between IP networks, while a switch handles the

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How to Configure Static IP Address on Ubuntu 26.04, 24.04 and 22.04

To configure a static IP address on Ubuntu, start with the least risky option for your network: a router DHCP reservation when you control the router, Netplan on Ubuntu Server, and

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Understanding Routers, Switches, and Network Hardware

A modem connects your home network to the Internet, and a router ensures the traffic from the Internet reaches the correct device on your network

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ERR_NETWORK_CHANGED Error: What It Is & How to

Your device connected to a different network. If you switched to Wi-Fi from cellular or vice versa, changed wireless networks, or switched between Wi

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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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How to find the IPs connected to an Access Switch

In this figure, you can find a Core Switch and two Access switches connected to it. There are two end devices PC0 and PC1 connected to Switch A and B respectively.

Contact Us

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