

Switch connected to multiple routers



AI Overview

Yes, a network switch can connect multiple routers, but proper configuration is required to manage IP addressing, DHCP, and routing. **How It Works** A network switch operates at Layer 2, connecting devices within the same local area network (LAN) and forwarding data between them. Routers, on the other hand, operate at Layer 3, connecting different networks and managing traffic between them, including providing NAT, DHCP, and firewall functions. Connecting multiple routers to a single switch is possible, but the setup depends on your goals:

- Single Network (Same Subnet)** Set one router as the main router with DHCP enabled. Configure additional routers in Access Point (AP) mode with DHCP disabled. Use the same Wi-Fi SSID and password for seamless roaming. LAN ports on AP-mode routers still function as a switch for wired devices.
- Multiple Subnets** Each router can manage a separate subnet. Devices must have proper default gateway and routing information to communicate across subnets. Static routes may be required on clients or routers to direct traffic to the correct subnet.
- Dual WAN or Public IPs** If using two routers with separate public IPs from your ISP, each router's WAN port must be configured with its assigned IP, subnet mask, and gateway. The switch simply connects the routers to the modem or upstream network.

Practical Considerations

- DHCP Conflicts:** Only one router should provide DHCP per subnet to avoid IP conflicts.
- VLANs:** For enterprise setups, VLANs can isolate traffic between routers while sharing the same switch.
- Device Connectivity:** Devices connected to AP-mode routers or different subnets may need manual routing or gateway configuration to access other networks.
- Performance:** Using multiple routers can extend coverage or segregate traffic, but careful planning is needed to avoid bottlenecks or misconfigured IP ranges.

Summary A switch can physically connect multiple routers, but the network design and router configuration determine whether devices can communicate properly and...

Article Content

Is it possible to have 2 routers connected to a switch by their LAN ...

My goal is to be able to have a client connected using a wired Ethernet connection to a switch and have the choice between two networks using the one cable. The basic setup I have goes

How to share a switch with multiple routers connected and make them ...

Introduction: I wanted to convert this L2+ switch into multiple dumb unmanaged (ie L2) switches, as this use case is basically the equivalent of buying 3x TL-SG116, but being done with a

Can I connect two routers to one switch?

You can connect two routers to a switch provided you are leasing 2 public static IP addresses from your ISP. I presume your two routers are enterprise routers or Cisco routers, where the WAN port of each

Connecting multiple switches to a router: utilize all router ...

connect a 48-port switch to the router and connect all the devices, APs, and smaller switches to the 48-port switch (more of a daisy-chaining approach) For context: I am planning to redo my home network

Using two routers with a switch | SNBForums

Simple question. How would I connect two routers to a switch? I'm not sure if one switch connection goes to the WAN or LAN side of the router, or if I use the WAN of the router and turn off

Can I setup a second router through a switch that is connected

Putting a second router in bridge mode when it's already connected to Ethernet is useless. The only functionality at that point would be like acting like a switch and it provides extra ports.

How to Connect Logitech Wireless Mouse and Keyboard

Customize or switch devices Use the software to remap keys, adjust pointer speed, or switch between paired computers. Easy-Switch buttons make

Inter VLAN Routing by Layer 3 Switch

Cost-effective: Using a Layer 3 switch for inter-VLAN routing can be more cost-effective than using a separate router, as it eliminates the need for an external router and its associated costs.

How to Set Up a VPN on Any Device (Full Guide 2026)

Setting it up correctly matters: a rushed configuration can leak data, break apps, or slow your connection. This guide explains how to set up a VPN on Windows, macOS, iOS, Android, and

Using two routers with a switch | SNBForums

One router WAN must be connected directly to the ISP router. Then LAN on that router goes to switch. For second router, if you don't want double nat, as has been suggested, just put it in

Expanding Router Ports and Connecting Switches Together

You can connect multiple switches to the router and also switches to switches. When connecting multiple switch aim for a star topology and try to avoid cascading switches.

Best practice for connecting router to switch? (re: VLANs and multiple ...

When using multiple VLANs, what is the best practice for connecting a router to a switch? For example, I can use one single port (and one cable) between the switch and router and set it up

2 Routers connected to a switch in a single network

At home I have the following setup - a tp-link switch modem connected to the internet and 2 routers (both AX53 3000), connected to that switch. I want to set them up in such a way that both

2 Routers connected to a switch in a single network

Re:2 Routers connected to a switch in a single network I read somewhere that AP mode will disable their ethernet ports. Is that correct?

Solved: Two routers to one switch

I have 2x cisco 878 routers and a 2950 switch. And an audiocodecs mp 114 voip gateway. I configured both routers. One has routing to my wan internet, and when i connect a laptop

Inter VLAN Routing by Layer 3 Switch

Disadvantages: Complexity: Inter-VLAN routing by Layer 3 switch can be complex to configure and manage, particularly in large networks with many VLANs. Limited functionality: Layer 3

I added extra Gigabit Ethernet ports to my Google Nest

Getting to use wired backhaul is a key benefit of adding an unmanaged switch to the Google Nest Wi-Fi Pro system. For my use case, I

HDMI Matrix Switchers | Video Routers | HDMI Routers | B& H

Buy Professional Video Routers & Switchers from top brands like Sierra Video, Matrix Switch, FSR and Smart-AVI. Explore our unbeatable selection.

How To Use A Network Switch With 2 Routers

Learn how to effectively use a network switch with 2 routers to expand your network and optimize connectivity. Discover the best practices for seamless integration and improved performance.

can i have two broadband routers plugged in to a switch?

I would like both broadband routers connected to the switch and the computers connect via the switch to the internet. If one broadband goes down, the other can continue to work for

How to share a switch with multiple routers connected and make them ...

The 3 routers connected need to work independently, and the port 1 is only used for switch administration. Hardware: I used TP-Link TL-SG3452 in this case, and you can use any

Why would you connect multiple routers to one switch?

Why would you connect multiple routers to one switch? I a reading the chapter on OSPF in my Cisco book and they threw a completely new concept at me without any explanation. They refer to an

Solved: Two routers to one switch

One has routing to my wan internet, and when i connect a laptop i have active internet connection. The problem is, that when i connect a laptop to the second router it doesn't have internet

Multiple connections between router and switched network

If this router is one of those then the solution is simple - connect each of the switches to a switch port (configured in the same vlan). This would allow each switch to communicate with the

Router to Router Connection: Expand Your Home Network

You need an Ethernet cable to connect two routers in your home network. If your routers are wireless, use different Wi-Fi channels to prevent signal interference. A second router can be set

Multi Protocol Label Switching (MPLS)

Multi-Protocol Label Switching (MPLS) is an advanced packet-forwarding technique used in modern networks. Instead of making routers look into complex Layer 3 routing tables for every IP

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://estlascleaning.co.za>

Email: info@estlascleaning.co.za

Phone: +27 63 214 8579

Address: 22 Oxford Road, Parktown, Johannesburg, 2193, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

