Two routers connected to the switch



Overview

Learn how to effectively use a network switch with 2 routers to expand your network and optimize connectivity.

Key Takeaways

Two routers can be connected to a single switch, but proper IP addressing, DHCP configuration, and network planning are essential to avoid conflicts and ensure seamless connectivity.

Basic Setup

When connecting two routers to a switch, the switch acts as a central hub for wired devices, while each router manages traffic between networks or provides internet access. The physical connection involves plugging each router's LAN port into the switch using Ethernet cables. Devices connected to the switch can then communicate with either router depending on the network configuration.

DHCP and IP Addressing

Single Network (LAN-to-LAN): If both routers are intended to be on the same network, configure Router A as the primary router with DHCP enabled and Router B with DHCP disabled. Assign Router B a static IP within the same subnet but outside Router A's DHCP range to prevent IP conflicts. Separate Networks (LAN-to-WAN): If you want isolated networks, Router B can use its WAN port connected to the switch.

Each router will manage its own subnet, and devices on different routers may require routing rules to communicate.

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Access Point Mode

For extending Wi-Fi coverage without creating separate subnets, set the secondary router to Access Point (AP) mode. This disables its DHCP server but allows its LAN ports to function as a switch for wired devices. Both routers can share the same SSID for seamless wireless roaming.

VLA

Ns and Advanced ConfigurationsIn enterprise or advanced setups, VLANs can be used to segment traffic between routers. Assign specific switch ports to different VLANs corresponding to each router to manage traffic and maintain security. Spanning Tree Protocol (STP) can prevent loops if multiple connections exist between routers and switches.

Internet Access Considerations

If using a single ISP connection, only one router should handle NAT and DHCP for internet access. The second router should either be in AP mode or configured with static routes. If using two public IP addresses from an ISP, each router can independently manage its WAN connection, allowing load distribution or redundancy.

Summary

Connecting two routers to a switch is feasible and can be used to extend Wi-Fi, create separate networks, or increase wired connectivity. Key points include: Disable DHCP on the secondary router if sharing a single network. Assign static IPs to avoid conflicts.

Use A

P mode for seamless Wi-Fi coverage.

Consider VLA

Ns for traffic segmentation in complex networks. Ensure proper NAT and routing for internet access. Following these guidelines ensures a stable, scalable, and efficient network when multiple routers are connected to a single switch.

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Article Content

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

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

How to Connect Two Routers (with Pictures)

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

How to Connect Two Routers Together (Wired and Wireless Methods)

Learn how to connect two routers together using LAN-to-LAN, LAN-to-WAN, or wireless bridge methods. Step-by-step guide with IP conflict prevention.

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

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

How can I connect two routers to the same switch

The switch is preventing computer and camera from interacting directly, but the router keeps sending the traffic back to the switch. Please try enabling trunking on the computer''s switch

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

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

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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

Connect two routers to a switch to create one network

Hello, i''ve been reading a lot about this so far inconclusive, perhaps you could finally help me: I need to connect two routers to a switch and have all connected clients to either router see each

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

connecting two routers to the same switch

Hi i have two routers connected to the same switch(layer2 or layer3) and i have run on both routers ospf protocols, but both the routers are unable to form adjacencies. here are my

Possible to connect two switches together and both to a router?

The environment I''m working in has an EdgeRouter and a single switch (EdgeSwitch 48). They are looking to add another EdgeSwitch and connect both switches together for a single broadcast domain.

Two Routers on One Switch

Are you talking about 2 physically separate routers connecting to a 3500XL switch or you mean you need to have 2 vlans each on a different subnet on the same 3500XL switch?

Can I connect two routers to one switch?

I want to connect two routers to a switch which will then be connected to a modem. Now as far as I know a switch does not do network translation and this won''t work with one IP address. So

Which one is the best way to connect two routers to a switch?

I would like to connect two routers to a switch (vlan disabled); each one work with a different LAN range so I want to avoid broadcast storms. (It must exist communication between

Setting up 2 routers and a switch | Tom''s Hardware Forum

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I have an Internet connection through a cable broadband modem. I am wanting to connect it to a Linksys 5-Port switch then go from that switch to two routers. One is a wireless the

Difference between Hub, Switch and Router

Difference between Hub, Switch and Router ... Conclusion Thus, all the networking devices do a similar core task of connecting the devices, done in a vastly different way: the mere

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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