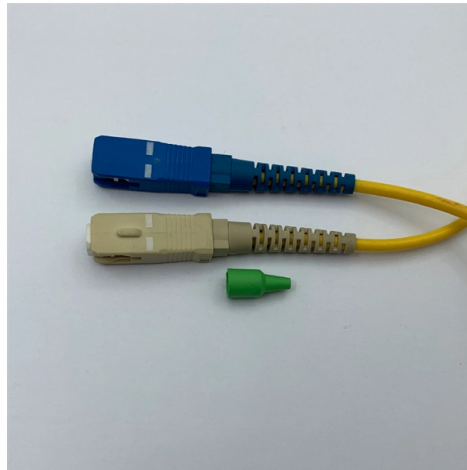


Connecting the router's LAN port to the core switch



AI Overview

Connect the router's LAN port to a core switch using an Ethernet cable, and configure the switch port as a routed (Layer 3) interface or assign it to a VLAN with the router's IP as the gateway.

Physical Connection

Identify Ports: Locate an available LAN port on the router and an available port on the core switch, typically labeled "LAN" or "Ethernet".

Use Ethernet Cable: Connect one end of a Cat5e/Cat6 Ethernet cable to the router's LAN port and the other end to the switch port.

Power On Devices: Ensure both the router and switch are powered on and fully booted before testing connectivity.

Verify Link: Check the LED indicators on both devices to confirm a successful physical connection.

Configuration Options

Option 1: Routed Port (Preferred for Core Switch)

Configure the switch port as a Layer 3 interface by disabling switchport mode:

```
CodeCopy
interface gi0/1
no switchport
ip address 192.168.0.2 255.255.255.0
no shutdown
```

This eliminates Layer 2 protocols like STP on the link, reducing potential network loops and improving performance.

Option 2: VLAN Assignment

Assign the switch port to a VLAN where the router's interface IP serves as the gateway:

```
CodeCopy
interface vlan 10
ip address 192.168.1.1 255.255.255.0
exit
interface gi1/0/1
switchport mode access
switchport access vlan 10
```

This method works but introduces Layer 2 overhead and STP considerations.

Testing and Verification

Ping Test: Connect a device to the switch and ping the router's IP to ensure connectivity.

Routing Check: If using a routed port, verify that the switch has a default route pointing to the router.

VLAN Check: If using VLANs, ensure the VLAN is active and the switch port is correctly assigned.

Best Practices

Prefer routed ports on core switches for router uplinks to reduce Layer 2 complexity. Use static IPs for router interfaces connected to the core switch for predictable routing. Document the config...

Article Content

How to Connect Two Routers (with Pictures)

Connect your computer to the main router with an ethernet cable. It's best to use an ethernet cable during setup, even if your primary router has Wi-Fi.

I added extra Gigabit Ethernet ports to my Google Nest

So, what do you do if you want a quality mesh router and access to a bunch of Ethernet ports? That's the question I asked myself after switching to the

Networking Solutions: Discover Cloud Services

We provide networking solutions to power your business. Our flexible and scalable cloud networking services help optimize your network infrastructure.

Configuring the Core Switch

When configuring interfaces and routes, you need to specify a VPN instance to isolate public network routes from the return routes from the firewalls destined for the egress routers through

Step-by-Step Guide: How To Setup A Network Switch And Router

When setting up a network switch, simply connect an Ethernet cable from a LAN port on your router to any available port on the switch. Then, plug another Ethernet cable from another port on the switch

Tutorials/Setting up a LAN world - Minecraft Wiki

A local area network (LAN) game is a type of multiplayer game that allows other people in your local network (i.e. just the people connected to your router/switch) to join a Minecraft world. Players over

How To Connect Router To Switch For A Better Network Setup

To connect a router to a switch, simply plug an Ethernet cable into one of the router's LAN ports and connect the other end to any port on the switch. This creates a seamless network where

Router in Computer Networks

Switching Fabric: The core of the router connecting input ports to output ports. Can be implemented via: Memory switching: CPU copies packets to output ports. Bus switching: Single bus

VXDIAG VCX FD for Ford and Mazda

Supports 3-channel CAN-FD multi-channel communication, with speeds up to 5M BPS. Supports ISO-13400 standard dual-route DOIP

Backbone network

The theory, design principles, and first instantiation of the backbone network came from the telephone core network when traffic was purely voice. The core network was the central part of a

How to Connect a Network Switch to a Router | Set Up Guide

STEP 4 Connect Your Network Switch to the Router. Get another ethernet cable and connect one side to your router's LAN port. Plug the other side into a network switch port....

How To Connect Cisco Router And Switch? (With Configuration Tutorial)

Configuring Cisco switches and routers is part of a network engineer's daily routine. With proper configuration, you can ensure the efficient operation and reliability of your network.

Straight-through, Crossover & Rollover Cable Pinouts Explained ...

Examples would be connecting a computer directly to another computer, connecting a switch directly to another switch, or connecting a router to a router. Note: While in the past, when connecting two host

Android Debug Bridge (adb) | Android Studio | Android Developers

Where the server finds an adb daemon (adbd), it sets up a connection to that port. Each emulator uses a pair of sequential ports — an even-numbered port for console connections and an

2026 Network Hardware Guide: Hub vs. Switch vs. Router

While the switch builds the road (LAN), the Router acts as the traffic control center connecting different road systems. It operates at OSI Layer 3 (Network Layer) and relies on logic

Connecting a router to core switch

What is the best method to use when connecting a router to your core switch? Should I put the switch port in a vlan where the IP of the router interface is or should the port not be a

How to Connect a Switch to a Router and Configure Settings

Connect one end of an Ethernet cable to a LAN port on the router. Plug the other end into any port in the switch. Power on the router and allow it to boot. Then, power on the switch. Verify

Ethernet Cable Color Coding Diagram

Another way of remembering the color coding is to simply switch the Green set of wires in place with the Orange set of wires. Specifically, switch the solid Green (G) with the solid Orange, and switch the

The Network DNA: Networking, Cloud, and Security

Master networking, cloud, and security with in-depth analysis, tutorials, and research. Stay ahead of the curve with our expert tech blog.

Asus RT-BE92U Tri-band Wi-Fi 7 router review: Speed racer

Sacrificing a few high-end features, the mid-range Asus RT-BE92U router brings you into the Wi-Fi 7 age without breaking the bank.

ONU vs Router vs Switch: Key Differences in Fiber Network Devices

As fiber networks become the backbone of modern connectivity, understanding the differences between core networking devices—ONU, router, and switch—is essential. While they

Shadow Mode High Availability on UniFi Cloud Gateways

Mirror the Primary Gateway's LAN connections by connecting the shadow Gateway's LAN ports to the same devices. * Port 7 on the UDM-Pro-Max / UDM-Pro / UDM-SE and port 2 on the EFG and UDM

Switch Installation and Upgrade: A Step-by-Step Guide for Home and ...

Use an Ethernet cable to connect the switch's uplink port to one of the LAN ports on your router. This bridges the switch with the internet connection from your modem.

Step-By-Step Guide: How to Connect Switch to Router and Configure ...

Before embarking on the connection process, ensure you have an Ethernet cable, as well as the switch and router ready for setup. These components form the backbone of your network

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.

