

The network disconnects as soon as the switch is connected



Overview

Devices lose connectivity every few minutes for a few seconds. We have a 3750g switch stack at the core, and a couple of remote closet switches that connect.

Key Takeaways

The network disconnects when a switch is connected often due to a faulty switch, cabling issues, or network loops. Common Causes

1. Faulty Switch Hardware: Switches can fail internally, causing all connected devices to lose connectivity.

Users have reported that simply unplugging and reconnecting the switch temporarily restores network access, indicating a potential hardware fault in the switch itself.

2. Network Loops: If multiple switches are connected without proper loop prevention (like Spanning Tree Protocol), a loop can flood the network with broadcast traffic, causing disconnections.

This is more common in unmanaged switches or when port configurations are incorrect.

3. Cabling Issues: Damaged or low-quality Ethernet cables can cause intermittent connectivity.

Using Cat5e or Cat6 cables and testing with known-good cables can help isolate the problem.

- 4.



IP or DHC

IP Conflicts: If the switch or connected devices are causing duplicate IP addresses or DHCP conflicts, devices may lose network access. This can happen when a new device or switch is added to the network. 5.

Power or Firmware Problems: Some switches may have firmware bugs or power supply issues that trigger network drops when devices are connected.

Troubleshooting Steps

Test the Switch Independently: Connect the switch to a single device and the router to see if the connection remains stable. If it works, the issue may be with multiple devices or cabling. **Check Cables:** Replace Ethernet cables between the router, switch, and devices with known-good cables.

Power Cycle Devices: Turn off the switch, router, and connected devices, then power them on in sequence: router → switch → devices. **Update Firmware:** If the switch is managed, ensure it has the latest firmware installed. **Check for Loops:** Ensure no redundant connections exist between switches unless Spanning Tree Protocol is enabled.

Try a Different Switch: If possible, replace the switch with another unit to see if the problem persists, which can confirm a hardware fault. **Monitor Network Traffic:** For managed switches, check logs for unusual traffic spikes or errors that could indicate loops or misconfigured devices.

Additional Recommendations

Using a managed switch can help identify and prevent loops, monitor traffic, and isolate problematic ports. Ensure that all devices have updated network drivers and that power management settings do not disable network adapters. By systematically testing cables, devices, and switch hardware, you can pinpoint whether the issue is caused by a faulty switch, network loop, or configuration problem.

Article Content

Devices lose connectivity every few minutes for a few seconds

We have a 3750g switch stack at the core, and a couple of remote closet switches that connect to the core. All endpoints and servers/printers are on a single VLAN. Every few minutes, we

Network Switch Troubleshooting Guide: Common Problems and

A comprehensive switch troubleshooting from the physical layer to the data link layer to the network layer to find out why your network switch is not working.

Connectivity Goes off from One switch

I have a network issue where internet connection disconnects sometimes for set of users who are all connected to an unmanaged switch 2 (Netgear). If we remove the uplink cable and replug

Recently, I have been experiencing an occasional problem where all devices connected to my switches by ethernet are becoming disconnected from my network. I haven't been able to

Network Disconnects as soon as a switch is connected

I'm experiencing short disconnects as soon as there's a switch connected to my Router. It seems like the Internet connection is up all the time but some applications seem to have a short

Troubleshoot LAN Switching Environments

If you have workstations connected to switches which are unable to login to your network domain (NT or Novell), or are unable to get a DHCP address, then you can try the suggestions listed in this

Strange network switch related (?) problem that knocks all connected ...

Sometimes, when I come in in the morning and connect devices, I lose all network connectivity on all devices connected to the office switch. I can't even ping anything on the network.

Strange Networking woes for two years: constant disconnects ...

The problem is this: as soon as I add a switch to my networking equation, connections start dropping regularly for seconds on my whole network. I've tried this with 1G switches, a QNAP 2.5G switch and

Question

The problem is, whenever any device is powered ON, every device connected to the switch disconnects. The lights on all five channels, including the one that goes to the router, flash

How to fix Ethernet randomly disconnecting

It sounds like you're experiencing a frustrating issue with your Ethernet connection. Here are some potential solutions based on common causes of Ethernet disconnections:

Network disconnects when using a switch

Problem is that while using a switch I get constant disconnects only on my PC after 1 or 2 days. These disconnects don't stop until I fully reset my Switch. I also tried several different Switch

Ethernet frequently disconnects and reconnects

My PC is connected to the internet via Cat 9 ethernet cables. Sporadically, the internet will disconnect and reconnect repeatedly, being offline for only a few seconds. I've tried upgrading

Network still disconnects when using a switch

Does not matter if I play a game, watch or whatever, after some days my connection symbol changes to the no connection thingy every few seconds and after some short time

WIFI keeps disconnecting on my windows 11 PC

every time I log onto my pc, My internet connection is always off. and when I use the network trouble-shooter, it says There is something wrong with the Wi-Fi access point and my

PC always loses network connection after being turned on or waking from sleep mode ? SamJones9 Jul 31, 2021 disconnect ethernet gaming help pc troubleshoot windows

Internet gets disconnected when VPN connects

If your VPN blocks & disconnects Internet or WiFi connection or if your VPN is connected but there is no Internet access on Windows 11/10, then this post will help you.

LAN Computers Always Disconnect Every 10 Minutes!

Hi Experts, i'm newbie in a cisco switch and i need help or advice how to fix this problem. i'm using 2960 cisco switch and every department has a

Switch Randomly Disconnected

Although i plugged an Ethernet cable from the switch to my laptop came up as "Unidentified Network - No Internet", soon as i rebooted my switch it seems to be fine again.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://ensaa.es>

Technical inquiry: <https://ensaa.es/contact.html>

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

