

One port of the core switch goes down



AI Overview

A core switch port can go down due to physical issues, configuration errors, errdisable states, or hardware/optical problems, and systematic troubleshooting can restore connectivity.

Immediate Checks

Physical Layer Inspection: Verify that the cable is properly seated, undamaged, and of the correct type (Cat5e/Cat6 for copper, SMF/MMF for fiber) and that the transmit and receive leads are correctly connected for fiber links. Check LEDs on both ends; a link light may indicate partial connectivity but does not guarantee full functionality.

Swap and Test: Replace the suspect cable with a known good one, test the port with a different device, and bypass patch panels or media converters if possible.

Configuration and Software

Errdisable or Shutdown State: Use commands like `show interface` to check if the port is administratively down, errdisabled, or shut down. Ports may automatically disable due to link flaps, PoE overdraw, or abnormal behavior.

Firmware and Software Bugs: Ensure the switch firmware is up to date, as some versions have known bugs causing ports to fail to auto-negotiate after a reboot.

VLAN and STP Settings: Misconfigured VLANs or spanning tree settings can block traffic and make a port appear down. Verify that the port is assigned to the correct VLAN and that STP is not blocking it.

Optical and Core-Specific Issues

Transceiver and Fiber Checks: For optical ports, check SFP/QSFP modules using `show interface transceiver` for temperature, voltage, and optical power. Replace or clean optics if receive power is below thresholds (e.g., -16dBm for 10G SR).

Switch Fabric and MAC Table: High utilization or exceeding MAC address table capacity can cause intermittent drops. Check fabric utilization and MAC table counts to ensure the switch is not oversubscribed.

Hardware Considerations

Port or Module Faults: Use `show module` or equivalent commands to detect hardware issues. If a port consistently fails, it may indicate a faulty module or switch hardware.

Redundant Power and Stacking: For stacked switches, ensure stack links are health...

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Network Switch Troubleshooting Guide

The device can no longer process or forward data frames, causing all ports to display abnormal status. First, try rebooting the switch to restore software operation. If the issue persists, it most likely

Devices lose connectivity every few minutes for a few seconds

I decided to perform a process of elimination by disabling ALL (except most critical) ports on the core switches and then re-enabling them in groups. Also worked with the server team and we

switches go down completely, then come up

So that if one switch goes down, STP will account for the lost switch and the other switches will be ok. But, when this issue happens, the computers on that floor can NOT access

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Why Switch Ports Go Down After Reboot?

Learn why switch ports go down after reboot, including Errdisable, PoE, configuration issues, firmware glitches, and hardware failures. Step-by-step expert troubleshooting and recovery guide for IT

Port on switch down/down (notconnect)

When disconnected from the CN side, the switch port light goes off (or red, bit of a language barrier here). I will have to perform the two last steps you mentioned when I next have local

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Switch Port Configuration and Troubleshooting

Ports that can forward traffic "down" through the network with the least cost are identified as designated ports. A port that would create a loop is identified as a blocking or non-designated port.

Troubleshooting Tip: High availability intermittence issues

The network switch should pass all of the traffic to the first FortiGate unit's side. When intermittence occurs, the network is most likely sending the traffic to the secondary FortiGate, which

Redundancy for Core Switch Stack : r/networking

So when one of the "new core" switches goes down, anything connected to it will still be offline. You can design around this by having redundant connections to the different "cores" and letting STP handle

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Network goes down when switch restarts

I am doing some testing. I have physical server (DC). i set up NIC teaming. 2 NICs, split into 2 different switches. When i restart one of the switches, the network goes down. Shouldn't it still

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.

I totally fucked up our network core switch and everything is down ...

We have a pair of Dell N3224P-ON switches and today's morning my colleague gave me a task and instructions to remove some unused VLANs. I'm sure I removed the correct VLANs. When I saved

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Fix Network Switch Failure: Step-by-Step Guide

Whether using a managed or unmanaged switch, diagnosing and fixing switch failures requires a structured approach. This guide will help you troubleshoot and resolve network switch failures,

Bad connection on one port took down entire switched network

It took a while to figure out what was going on, but it came down to if that port was connected, the network went down and if the cable was moved to any other port, the network came

Solved: New Core Switch

Sounds like you have port security biting you, disable all port security on the ports going to the 2 FW's. As soon as any VS is moving from 1 box to the other this is seen as illegal by some

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Postal Redux wirst du im Shop finden, oder? Ich nicht! Da du mich jetzt superlieb und sympatisch findest (lol) denkst du dir hey, ich schenk dem guten guten Dexter das! In forum " Identity General

Whole Network goes Down

This is a trunk port linking to switch B. I suppose my question is how a trunk port can create loop? There are only two printers currently connected to switch C. Could it be a faulty network

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