

Check the power supply of the PoE switch



Overview

How to Troubleshoot PoE: Common Issues and Testing Steps Learn how to troubleshoot PoE issues on Cisco Catalyst switches. Step-by-step diagnosis for no power.

Key Takeaways

You can check a switch's PoE power supply using CLI commands like `show power inline`, WebUI monitoring, and physical PSU indicators to verify power allocation, consumption, and health. Using CLI Commands

- `show power inline`
 - Displays the PoE status for each port, including power allocated and consumed by connected devices.
 - Shows the total available power and how much is currently in use, helping you monitor the switch's power budget and detect potential overloads .
- `show switch interface inline-status`
 - Provides a detailed view of PoE on all interfaces or a specific interface, showing the exact power delivered to each port .
- `show power inline consumption`
 - Reports the power consumption of each connected PoE device, useful for verifying that devices are receiving sufficient power .
- Additional Commands for Troubleshooting
 - `show power inline faulty` - Lists any ports or devices with PoE issues.

- show power inline police – Displays power policing settings that may limit PoE delivery .
- For modular switches, show power inline module can check PoE status per module .

Using WebUI

- Modern switches, such as Cisco Catalyst 9000 series, include an embedded WebUI that visually displays PSU status, port-by-port PoE allocation, and total power usage.
- This interface allows monitoring without CLI access and provides a quick overview of power distribution and available budget .

Physical PSU Checks

- LED Indicators:
 - "AC OK" indicates stable input voltage.
 - "PS OK" confirms the PSU is delivering proper output .
- Wattage Labels: Check the PSU label for maximum power (e.g., 350W, 715W, 1100W) to ensure it meets your PoE requirements.
- Redundant PSUs: For critical deployments, verify that dual PSUs are installed to maintain uptime during maintenance or failures .

Best Practices

- Estimate total PoE load including access points, IP cameras, and VoIP phones, and ensure the PSU wattage is sufficient with 20–30% headroom .
- Regularly monitor via CLI or WebUI to detect failing PSUs or capacity issues before they impact operations .
- Align PSU health checks with hardware lifecycle planning and consider redundancy for high-density PoE deployments . By combining CLI commands, WebUI monitoring, and physical inspection, you can effectively check the PoE power supply of your switch, ensure devices receive adequate power, and proactively troubleshoot potential issues.

Article Content

How can I check the Power over Ethernet (PoE) status on a Cisco

- If you want to see the utilization percentage of PoE on your switch, you can refer to the "show power inline" output,

How to Test PoE Installations: A Field Guide

Step-by-step guide to testing Power over Ethernet in the field. Covers PoE standards (802.3af/at/bt), what

PoE Tester Guide: How to Test Power over Ethernet

Learn how to use a PoE tester to detect Power over Ethernet, identify PoE standards, measure voltage and wattage, and

PoE Testing: How to Verify Power over Ethernet

Measure voltage at the switch port and at the device end. Standard PoE operates at 44-57V DC. Voltage

How To Test Poe With Multimeter? Safely And Easily

This could be due to a faulty PSE, a problem with the power supply, or a disconnected cable. Further investigation is

How to check the power status of PoE devices?

To check the power status of Power over ethernet poe devices, you can use several methods depending on your

How Do I Measure the PoE Power Supply Voltage?

Use the stripped Ethernet cable to connect a switch to a PD. Set the multimeter to the DC voltage position, and use the probes to

How to Measure (PoE) Power Over Ethernet

Learn to overcome the challenge of troubleshooting Power Over Ethernet and how to measure the actual wattage

Power over Ethernet (PoE) Installation Best Practices

Power over Ethernet (PoE) Installation Best Practices Written by Don Schultz, trueCABLE Technical Manager, Fluke

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