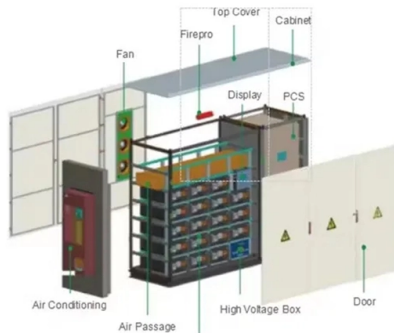


How to detect access loops on a switch



AI Overview

To determine if there is a loop in an access switch, monitor CPU usage, check for broadcast storms, inspect MAC address table flapping, and use loopback detection or STP status commands.

Signs of a Loop

- High CPU Utilization:** A switch experiencing a loop often shows abnormally high CPU usage due to continuous frame processing and flooding of broadcast/multicast traffic.
- Network Performance Degradation:** Slow traffic, intermittent connectivity, or complete network outages can indicate a loop.
- MAC Address Table Instability:** Frequent changes or flapping of MAC addresses across multiple ports suggest a Layer 2 loop.
- Broadcast Storms:** Excessive broadcast or multicast traffic circulating endlessly is a hallmark of a loop.

Detection Methods

- Check CPU and Network Utilization:** Use commands like `show cpu process` or monitor switch performance metrics to detect spikes caused by loops.
- Inspect STP Status:** Run `show spanning-tree summary` or `show spanning-tree interface` to verify that STP is active and correctly blocking redundant paths.
- Loopback Detection Commands:** Many switches support dedicated loopback detection. For example, `show loopback-detection` can confirm if loopback detection is enabled and if any loops are detected.
- Packet Analysis:** Tools like Wireshark can identify repeated broadcast or multicast frames. Observing identical IP header checksums or identification fields across multiple packets indicates a loop.
- Ping and Trace Tests:** Continuous ping tests can reveal increasing latency or packet loss. Disconnecting uplinks one at a time while monitoring ping responses helps isolate the loop source.

Troubleshooting Steps

- Physically Inspect Cables:** Ensure no ports are inadvertently connected to each other or to unmanaged switches that could create loops.
- Disconnect Suspected Links:** Temporarily unplug inter-switch connections or uplinks to see if network performance normalizes.
- Verify STP Configuration:** Ensure STP is enabled, correctly configured, and that PortFast is not applied on inter-switch links.
- Enable Loopback Detection:** Activa...

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Compatible with 802.3af/at standards, this switch provides up to 30W per port and up to 120W as a whole. It also supports detection of loops and limit unknown access, and 24/7 watchdog, making it an

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Solved: Loop detection on access switch before core switch.

Shams described the types of loop detection correctly. Loose mode can be a bit tricky since it will disable ports if a control packet is looped back anywhere on the same vlan.

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Both type of loops are capable of causing major network outages, waste of valuable bandwidth and can disrupt network communications. We will show you how to detect routing loop

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Zacks Investment Research

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Solved: Method for detecting loops.....

Physically you can look at the switch LED's. They'll typically be flashing at the same time. On the CLI you'll likely see higher than normal CPU util. The same mac addresses showing up on

What is Loopback Detection in Switches and How It Works

Learn what loopback detection is, how it works in switches, and how it differs from Spanning Tree Protocol. Discover industrial solutions to prevent

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