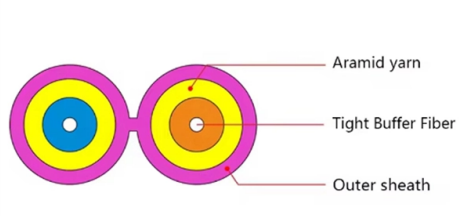


Cisco core switch CPU high



Overview

Troubleshooting High CPU Utilization While the switch might appear to operate fine at this CPU utilization level, when the switch CPU sustains a 50 percent.

Key Takeaways

High CPU utilization on a Cisco core switch can be caused by network storms, misconfigured protocols, excessive logging, or specific processes like SISF, and can be mitigated through monitoring, process identification, and configuration adjustments.

Understanding High CPU Utilization

High CP

U usage occurs when the switch's processor is heavily engaged in tasks such as packet processing, routing protocol management (OSPF, BGP, EIGRP), ARP processing, ACL evaluation, and management traffic handling (SNMP, SSH, Telnet). While occasional spikes are normal—such as during topology changes or administrative commands—sustained CPU usage above 60–70% can indicate a problem and may lead to packet loss, increased latency, or network instability.

Common Causes

Network Storms: Broadcast, multicast, or unknown unicast storms can overload the CPU. Misconfigured Protocols: Spanning-tree loops, route flapping, or misconfigured routing protocols can generate excessive CPU load. Excessive Logging: Debugging or high logging levels can consume CPU resources.

Specific Processes: On Catalyst 9000 series, the Switch Integrated Security Features (SISF) process can spike CPU due to device tracking on trunk interfaces.

Software-

Switched Packets: Packets punted to the CPU instead of hardware forwarding can increase load.

Monitoring CPU Usage

Use the following commands to assess CPU utilization: `show processes cpu history` - Displays CPU usage over the last 60 seconds, 60 minutes, and 72 hours, helping identify spikes and trends. `show platform health` - Provides health metrics and can indicate if software-switched packets are contributing to high CPU. `show processes cpu sorted` - Lists processes by CPU consumption to pinpoint the culprit.

Mitigation Strategies

Identify and Limit High-CPU Processes: Determine which processes are consuming CPU and consider disabling or limiting them. For SISF-related spikes, disable device tracking on trunk interfaces or configure trusted ports and device roles to reduce unnecessary entries. Optimize Protocol Configurations: Ensure spanning-tree, routing protocols, and EtherChannel configurations are correct to prevent loops or flapping.

Reduce Logging Overhead: Avoid excessive debug or high-level logging in production environments. Offload Traffic to Hardware: Ensure that traffic is hardware-switched whenever possible to reduce CPU load.

Apply IO

S Commands: In some cases, commands like `no ip redirects` on uplink interfaces can significantly reduce CPU usage.

Key Takeaways

Occasional CP

U spikes are normal; sustained high usage requires investigation. Monitoring tools and commands help identify the root cause. Adjusting configurations, limiting high-CPU processes, and optimizing traffic handling can restore normal CPU levels and maintain network stability.

Article Content

Troubleshooting High CPU Utilization

While the switch might appear to operate fine at this CPU utilization level, when the switch CPU sustains a 50 percent utilization, its ability to react to dynamic network events is

Troubleshooting High CPU Utilization On Cisco Switches

In this article, we will delve into the common causes of high CPU utilization on Cisco switches, troubleshooting methodologies, diagnostic commands, and best practices for mitigating

Solved: High CPU usage

CPU 1 is functioning at 85% workload. I've researched different ways to lower this, like CEF and MLS all which are being used currently on this layer 3 switch. Also looked into changing my

Troubleshooting High CPU Utilization On Cisco Switches

In this article, we will explore what causes high CPU utilization on Cisco switches, how to diagnose the issue, and various solutions for mitigating the problem.

Command To Check CPU Utilization In Cisco Switch

In this article, we will dive into what CPU utilization is, why it matters in network performance, how to check CPU utilization in Cisco switches, and tips for managing high CPU

Check CPU Usage Cisco Switch? Why Is Your Network Crawling?

Checking CPU usage on Cisco switches isn't just another admin chore; it's your early-warning radar for operational breakdowns. When utilization spikes, it's not "just buffering."

Troubleshooting Cisco Catalyst 9000 Series Switches

To enable high water mark counter monitoring. Exception drops are counted per Asic, not per port. Packet processing happens on port asics. CPU only involved in programming the asic for forwarding.

How to solve the problem of high CPU utilization on the switch?

By following these steps, you can resolve or mitigate high CPU utilization on your switch, ensuring it operates efficiently and without performance degradation.

Troubleshooting High CPU Utilization on Cisco Routers

Troubleshooting high CPU utilization on Cisco routers requires understanding of Cisco IOS® software switching paths. For information on Cisco IOS software switching paths, see Performance Tuning

Command To Check CPU Utilization In Cisco Switch

This comprehensive guide provides a detailed overview of how to check CPU utilization on Cisco switches, exploring the various commands, their usage, interpretation of output, and best practices

Cisco C9610 Series Smart Switches Data Sheet

High availability and resiliency High availability and resiliency are core to the Cisco C9610 Series Switches, featuring redundant components and

Cisco Announces Silicon One G300, Advanced Systems and Optics

Cisco continues to transform the network into an AI innovation platform, unveiling the Silicon One G300 102.4 Tbps switching silicon.

Home | HPE Support

Hewlett Packard Enterprise support portal for business, enterprise, and IT users. Search the knowledge base, download software, manage cases, and learn in forums.

Solved: Core Switch CPU usage is very high

Solved: Dear support, Our network core switch CPU usage is very high. Please find the below log and help me what we can do for normal network operation.
SW-0001#sh processes cpu

Troubleshooting High CPU Utilization

Troubleshooting High CPU Utilization CPU Utilization Overview When the switch has completed the boot process, the CPU has two distinct functions. The first function is run the different

CPU Utilization Problem on Cisco Switches

First, understand, switches often shouldn't have high CPU utilization, even when passing much traffic, because normally transit traffic is handled by dedicated hardware.

Core switch High CPU utilization

Hi Experts, I have a 4500switch in my office. Recently i found that its cou utilization is very high. Around 95%. Using sh process cpu i got the followings 55
22736117003146998125 722 47.88%

Very High CPU utilization core switch 4503

Hi Experts, We had a core switch (30 vlans) in our environment and it's noticed that CPU utilization of the core switch is showing high during recent days. I have checked logs and processes,

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:

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Technical inquiry: <https://artduferoger.fr/contact.html>

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

