

Access Switch Debugging Steps Illustrated



AI Overview

Debugging a Cisco access switch involves enabling protocol-specific debug commands, monitoring output carefully, and using filters to isolate relevant traffic without overloading the device.

Step 1: Prepare the Switch for Debugging Before starting, ensure the switch is in a low-traffic period to minimize CPU impact, as debug commands consume significant resources and can affect performance or even crash the device. Connect via console or SSH and enter privileged EXEC mode: `CodeCopyenable` Check the current debug status: `CodeCopyshow debug`

Step 2: Enable Debugging for Specific Protocols or Events Instead of using `debug all`, which can overwhelm the switch, target specific protocols or events. Examples include: ICMP (ping) debugging: `CodeCopydebug ip icmp` BGP updates: `CodeCopydebug ip bgp` EtherChannel LACP events: `CodeCopydebug lacp events` Access-list filtered traffic: `CodeCopydebug ip packet detail` `debug condition ip 192.168.0.4` The debug condition command filters output to a specific host or VLAN, reducing excessive logs.

Step 3: Monitor Debug Output Use the following commands to view real-time logs: `CodeCopyterminal monitor` `show logging` This allows you to see packet drops, ACL hits, or authentication issues. For example, if a UDP port is blocked by an ACL, the debug output will show the source, destination, and reason for the drop.

Step 4: Analyze and Interpret Logs Look for denied packets, authentication failures, or protocol errors. Identify patterns such as repeated drops or misconfigured VLANs. Use the debug output to pinpoint missing ports, protocols, or ACL rules.

Step 5: Disable Debugging Once the necessary information is collected, immediately disable debugging to prevent CPU overload: `CodeCopyno debug ip icmp` `undebug all` or the shortcut: `CodeCopyu all` Verify that debugging is off: `CodeCopyshow debug`

Step 6: O...

Article Content

Cisco Debug Command * | How to Use Cisco Debug

Here, we have learned how to use Cisco Debug Command on Cisco routers and switches. Debugging is very important for network troubleshooting but you

How to Learn Debugging Code Effectively: A

Each debugging session is an opportunity to learn more about how your code works, the tools you use, and the subtle interactions between different components. By

Access a Cisco Business Switch CLI using SSH or Telnet

This article provides instructions on how to access the CLI of your switch through SSH or Telnet using PuTTY and Terminal clients

Navigate code with the debugger

Learn how to use the Visual Studio debugger to troubleshoot your code. Topics include entering break mode, stepping through code, and running

MS Access 2010: VBA Debugging (Tutorial Complete)

MS Access 2010: VBA Debugging (Tutorial Complete) Congratulations, you have completed the Access 2010 tutorial that explains how to debug in the VBA environment in Microsoft Access 2010.

Tutorial: Debug your first Java application | IntelliJ IDEA

Step through the program Monitor debugger overhead Analyze objects in the JVM heap Analyze Java Stream operations Debug asynchronous

How to Enable USB Debugging Mode on Android

How to Disable USB Debugging on Android To turn off USB debugging, return to the Developer options menu and tap the USB debugging

14-Debugging and Diagnosis

Switch provides various debug commands including ping, telnet, show and debug, etc. to help the users to check system configuration, operating status and locate problem causes.

Advanced Device Troubleshooting

Troubleshoot the issues for AP, switch, or controller device using the CLIs to identify, diagnose, and debug a problem. The data in the output helps in analysis of the issue.

Catalyst 2960 Switch Debug Commands

This appendix describes the debug privileged EXEC commands that have been created or changed for use with the Catalyst 2960 switch. These commands are helpful in diagnosing and resolving

Access Switch Debugging Steps Illustrated | SFS Enclosure Systems

Access Switch Debugging Steps Illustrated SFS Enclosure Systems (SFS) supplies premium optical distribution frames, ODF racks, wall-mount boxes, cross-connect cabinets, splice enclosures, splitter

SAP Help Portal | SAP Online Help

SAP Help Portal provides online help and support for SAP software users.

How to Enable Developer Options and USB Debugging

USB debugging is a commonly used developer option that allows a computer to communicate with an Android device, and can be enabled by

How to Configure a Cisco Switch in 10 Steps

In this step-by-step guide, we walk you through configuring Cisco switches and look at some FAQs. Configuring a Cisco switch is a fundamental

Debugging

In this blog post we will discuss debugging and provide you with some simple tips for debugging your code.

Interface and Hardware Components Command Reference, Cisco

When you enable debugging on a switch stack, it is enabled only on the stack master. To enable debugging on a stack member, you can start a session from the stack master by using the

SAP Help Portal

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

Overview of the debugger

Get started debugging your applications by using the Visual Studio debugger and see what your code is doing while it runs.

Debugging ABAP code

The ABAP runtime interprets this ByteCode. Therefore, while debugging a macro, you can see only the ByteCode rather than the original

Debugging a Switch Router

Follow these steps to minimize the negative impact of using debug commands: Step 1 Use the no logging console global configuration command on your switch router. This command disables all

Step through the program | IntelliJ IDEA Documentation

Stepping is the process of controlling step-by-step execution of the program. After you have started the debugging session and suspended your

Compiler Explorer

Compiler Explorer is an interactive online compiler which shows the assembly output of compiled C++, Rust, Go (and many more) code.

Debugging code for absolute beginners

If you're debugging for the first time, learn a few principles to help you run your app in debugging mode with Visual Studio.

Understand Important Information on Debug Commands

This access-list does not need to be applied on any interface, but rather is applied to the debug operation. Before running the debugging ip packet, note that the router is using fast-switching

Making my own Programmer/Debugger using ARM

Although some performance impact is still observed due to the control flow switching to DebugMon Exception Handler. Non-Invasive

cheat-sheets-fprti/cheat-sheets/Aruba-HP-switches-debug-and

Show switch time and date, for log correlation. Show what firmware images are stored in the flash, and which one is the primary/secondary for the next boot. Show log of previous boots with their reason

MS Access 2010: Moving through VBA code

MS Access 2010: Moving through VBA code This MSAccess tutorial explains the options of how to move through the code in the VBA debugging environment in Access 2010 (with screenshots and step-by

Cisco Debug Command Explained

This article describes how to use a debug command and its variations on a Cisco device. It also shows how to disable the debug command.

ABAP Debugger

Debugger at Breakpoint In a typical debugging session we would now switch to execting single lines of code and checking for the variable values

Contact Us

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