

Huawei Industrial Switch Debugging and Configuration



Overview

Huawei Switch Discovery Tool: This tool can be used to discover Huawei network switches on a network.

Key Takeaways

Huawei industrial switches can be configured and debugged via CLI using SSH or console access, with commands for interface management, VLAN setup, user access, and real-time debugging. Accessing the Switch

- Connect via Console or SSH: Use a terminal emulator for console access or SSH/Telnet for remote management .
- Login: Enter your username and password. For new users, create accounts with AAA commands and assign access levels (1-15) to control privileges .
- Enter System View: Type system-view to access configuration mode.

Basic Configuration

- VLAN Setup: Create VLANs using vlan and assign ports with interface GigabitEthernet 0/0/x followed by port link-type access and port default vlan .
- Interface Verification: Use display interface or display interface to check status and configuration .

- IP Configuration: Assign IP addresses to interfaces with ip address and verify with display ip interface brief .

User Access and Security

- Enable Telnet/SSH: Activate Telnet or SSH services for remote access using stelnet server enable or ssh server enable .

- User Authorization: Create users and grant access with local-user password irreversible-cipher and local-user privilege level .

- Save Configuration: Use save to make changes permanent.

Debugging and Monitoring

- Enable Debugging: Use terminal debugging to display debugging messages on the console or SSH session .

- Monitor Logs: Activate terminal monitor to view logs, traps, and debugging messages in real-time .

- Display Debugging Status: Use display debugging to see active debugging commands and undo debugging all to stop all debugging .

- Log Management: Configure log levels and buffer size with display logbuffer and specify log types (alarms, traffic, security) for detailed monitoring .

Best Practices

- Limit Debugging Scope: Avoid enabling broad debugging commands like debug ip packet without filters, as excessive debugging can overload the switch .

- Verify Configurations: Regularly use display running-config and display vlan to ensure correct setup .

- Exit Safely: Log out after configuration changes to prevent unauthorized access. By following these steps, administrators can effectively configure Huawei industrial switches, monitor system behavior, and troubleshoot network issues efficiently.

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Example for Outputting Debugging Messages to the Console

As shown in Figure 10-11, the PC connects to Switch A through a console interface. It is required that debugging messages of the

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Basic CLI Commands on Huawei Switch

This text is a guide detailing Basic Command Line Interface (CLI) Commands on Huawei brand switches. It

Huawei CLI debugging

This article describes how to use the debugging commands on the CLI. This can be helpful for troubleshooting.

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Configuring Debugging Message Output

Before enabling debugging message output, start the switch. Debugging occupies CPU resources on the switch, affecting system

Configuring the Device to Output Debugging Messages to the Console ...

A channel used by the device to output debugging messages to the console is specified. By default, the device uses channel 0 to

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Mastering Huawei's command-line interface (CLI) transforms reactive troubleshooting into proactive network stewardship. These

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How to use the Debugging tools

Debugging command is an important tool to system maintenance engineer maintenance equipment, locate fault. In

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Restoring the Switch to Factory Default

Restoring the Switch to Factory Default in One-Click Mode If you want to clear all service configurations and data files, run the

How to do Starting Configuration of Huawei Ethernet Switch S5735

In this video, we configure huawei network switch s5735 and S5700 series. first, go

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Configuring Debugging Message Output

Configuring Debugging Message Output Pre-configuration Tasks Before enabling debugging message output, start the switch.

Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

S600-E Series Switches Typical Configuration Examples

The IT maintenance department of a company purchases S series switches, which are configured by network

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The port color change from orange to yellow when you create a VLAN configuration on a Cisco edge switch after

Stack Configuration

Stack Configuration This chapter describes how to set up a stack of multiple switches to improve forwarding performance and reliability.

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Discover the 10 key Huawei commands for debugging network devices. From "?" for command help to "display ip

Basic Configuration for Interfaces

Basic Configuration for Interfaces This chapter describes interface types, interface numbering rules, and configuration parameters

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