

How to remotely control the core switch



AI Overview

You can remotely manage a core switch using secure protocols like SSH or NETCONF, or via web-based interfaces, after enabling remote access and configuring proper authentication.

Remote Access Methods

- 1. SSH (Secure Shell)** SSH is the most secure method for remotely managing a switch. It provides encrypted access to the switch's command-line interface (CLI), allowing configuration, monitoring, and troubleshooting. To use SSH: Ensure the switch has an IP address assigned and SSH service enabled. On your computer, use an SSH client such as PuTTY (Windows) or Terminal (Mac) to connect to the switch's IP on port 22. Authenticate with a username and password or public key. For Huawei core switches, the SSH username is often preconfigured as huawei for NETCONF communication.
- 2. Telnet (Less Secure)** Telnet allows CLI access over the network but transmits credentials in plain text, making it unsuitable for production networks. It can be used in isolated lab environments. Enable Telnet on the switch and connect using a Telnet client on port 23.
- 3. Web-Based Management** Many modern switches provide a web interface for configuration and monitoring. Steps include: Connect the switch management port to your PC or network. Open a web browser and enter the switch's IP address. Log in with administrative credentials to access configuration menus, monitor status, and modify parameters.
- 4. Controller-Based Management (e.g., NETCONF over SSH)** For enterprise networks, core switches can be managed by a network management system (NMS) or controller, such as iMaster NCE-Campus for Huawei switches. Steps include: Configure the switch to communicate with the controller using NETCONF over SSH. Set up the SSH server user, public key algorithm, and authorization type. Enable NETCONF and verify the connection status using system commands. This allows centralized management, monitoring, and policy enforcement.

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Comprehensive guide to Core, Distribution, and Access Switches. Roles in the network and important parameters explained.

How to Configure a Cisco Switch in 10 Steps

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Access a Cisco Business Switch CLI using SSH or Telnet

In order to remotely access the CLI of your switch, you must use an SSH or Telnet client. You must also enable the Telnet and SSH service on your switch first before you can access it remotely.

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ECS4120 Series CLI Reference Guide

This section provides an overview of the switch, and introduces some basic concepts about network switches. It also describes the basic settings required to access the management

Connecting Azure Sphere to Azure IoT Edge | Microsoft Community Hub

Step-by-step (with video!) to connect Azure Sphere to Azure IoT Edge and authenticate a device.

Contact Us

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