

Article Overview

Core switch ports should be configured based on their role, typically as access or routed ports, with proper VLAN assignment, speed, duplex, and security settings.

Port Modes

1. Access Ports:

- o Used to connect end devices like servers or workstations.
 - o Assign the port to a specific VLAN using `switchport access vlan` .
 - o Ensure the port is in access mode: `switchport mode access`.
- ### 2. Routed Ports (Layer 3 Ports):
- o Used for inter-VLAN routing or connecting to other routers/switches.
 - o Disable switching on the port: `no switchport`.
 - o Assign an IP address directly to the port: `ip address` .
- ### 3. SVI (Switched Virtual Interface):
- o Provides a virtual Layer 3 interface for a VLAN.
 - o Can aggregate bandwidth from multiple access ports in the same VLAN.
 - o Useful for connecting servers or multiple hosts without dedicating a physical routed port .

Speed and Duplex Settings

- o Configure port speed and duplex explicitly to avoid negotiation issues: `speed 1000` and `duplex full` for 1Gbps connections .
- o For 10Gbps or higher, ensure the correct SFP or module is installed and supported by the switch .

Security and Best Practices

- o Enable port security to limit MAC addresses if connecting critical devices.
- o Disable unused ports and place them in a separate VLAN or shutdown mode.
- o Use HSRP or VRRP for redundancy and high availability in core networks .

Management Access

- o Configure a management VLAN and assign an IP to the SVI for remote access.
- o Console or Telnet/SSH access can be used for initial configuration .
- o Ensure strong admin passwords and restrict access to trusted hosts.

Summary

Core Switch Control Port Settings

When configuring core switch ports:

- o Determine the port role (access, routed, or SVI).
- o Assign VLANs or IP addresses appropriately.
- o Set speed and duplex to match connected devices.
- o Implement security and redundancy measures.
- o Use management interfaces for monitoring and configuration. Following these guidelines ensures optimal performance, security, and reliability for your core network infrastructure.

Part Number: AA-RS2WC-TE This installation guide provides procedures for setting up, configuring, and managing the Core Switch

In this article, we will examine how to make basic settings on HP brand switches and backbone switches. Switch-PC

Learn exactly how to connecting and configuring Cisco switches using console ports. Include wires, terminal settings,

In the realm of system networking, three key types of switches are frequently mentioned: access switches, aggregation

If you're looking to configure a switch for the first time, this post is for you. Learn step-by-step configuration commands

ECS4100-12T Gigabit Ethernet Switch L2+/L3 Lite Gigabit Ethernet Switch with 8 10/100/1000BASE-T ports, 2 Combos and 2 SFP

These include adjusting the capabilities that are advertised on each port, the port speed, the duplex mode, and flow control. In

Star Citizen Alpha 4.8 controls and key bindings. Alpha 4.8 introduces lots of in game menu additions. Read bindings and key

Google's service, offered free of charge, instantly translates words, phrases, and web pages between English and over 100 other

CLI Reference Guide ECS5520-18X L2+/L3 Lite 10G Top of Rack switch with 16 10GBASE-X SFP+ ports and 2

Core Switch Control Port Settings

By default the switch chip ensures that this special CPU port is not congested and sends out Pause Frames when link

For example on Nintendo emulators, I like switching the A / B button to make it more consistent with US control

Connecting to the Switch 47 Configuration Options 47 Connecting to the Console Port 48 Logging Onto the Command Line Interface

A switch that functions as part of a router and operates at the third layer of the OSI network standard model, the network layer. The

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