

Basic Configuration of Huawei Fiber Optic Switches



Overview

Quick Configuration Guide You can configure required features after deploying a campus network. This document provides campus networks typical Basic Interf.

Key Takeaways

Huawei fiber optic switches can be configured through CLI to set up interfaces, VLANs, port security, and unidirectional fiber communication for a secure and efficient network. Accessing the Switch

To begin configuration, connect to the switch via console port, SSH, or Telnet. Enter the system view using the command:

```
system-view
```

This allows you to access global configuration settings and interface management .

Interface Configuration

- Enter interface view for the specific port:

```
interface GigabitEthernet 0/0/1
```

- Set interface description (optional but recommended for documentation):

```
description Uplink to Core Switch
```

- Configure interface type and speed if needed:

speed 1000duplex full

- Enable the interface:

undo shutdown

- Configure unidirectional single-fiber communication if using a single fiber for TX/RX:

interface GigabitEthernet 0/0/1unidirectional enable

This allows communication over a single fiber while maintaining security .

VLAN Configuration

- Create a VLAN:

vlan 10

- Assign ports to VLAN:

interface GigabitEthernet 0/0/1port link-type accessport default vlan 10

- Configure VLAN tagging for trunk ports:

interface GigabitEthernet 0/0/2port link-type trunkport trunk allow-pass vlan 10 20

VLANs help segregate traffic, prioritize bandwidth, and enhance security .

Port Security and Access Control

- Enable MAC address learning limits:

mac-address max-mac-count 5

- Configure ACLs to restrict unauthorized access:

acl number 3000rule permit ip source 192.168.1.0 0.0.0.255

- Apply ACL to interface:

interface GigabitEthernet 0/0/1packet-filter 3000 inbound

These steps prevent unauthorized devices from accessing the network and protect critical resources .

Saving Configuration

After completing the setup, save the configuration to ensure it persists after a reboot:

save

- Check interface status:

display interface GigabitEthernet 0/0/1

- Verify VLAN assignment:

display vlan

- Monitor traffic statistics:

display interface counters

These commands help ensure the switch is operating correctly and traffic is flowing as intended . By following these steps, you can establish a secure, efficient, and scalable network using Huawei fiber optic switches, with proper interface management, VLAN segmentation, port security, and optional unidirectional fiber communication.

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Multiple Huijue Fiber Optic Switches Configuration

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Installing Stack Cables and Powering On the Switch

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This configuration ensures that the combo interface's working mode does not change when the transmission medium

Configuring Unidirectional Single-Fiber Communication

Learn how to configure unidirectional single-fiber communication with Huawei's technical support guide.

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