

Configuring optical modules for H3C switches



Overview

H3C series switches provide hierarchy protection for the command lines to avoid unauthorized user accessing illegally.

Key Takeaways

Configuring an H3C optical module switch involves setting up the switch ports, binding MAC and IP addresses, and ensuring proper VLAN and interface settings for optical transceivers.

Step 1: Access the Switch

Connect to your H3C switch using the console port, SSH, or Telnet. Enter the system view to start configuration:

```
system-view
```

This allows you to access the CLI for all configuration tasks .

Step 2: Configure Port and MAC Address Binding

To ensure that only authorized devices can access the network through specific ports, bind the MAC address to the port:

```
am user-bind mac-address 00e0-fc22-f8d3 interface Ethernet 0/1 mac-address static 00e0-fc22-f8d3 interface Ethernet 0/1 vlan 1 mac-address max-mac-count 0
```

This configuration restricts access to the specified MAC address and prevents other devices from connecting through the same port .

Step 3: Bind IP Address to MAC (Optional)

For enhanced security and management, you can bind an IP address to the MAC address:

```
am user-bind ip-address 192.168.1.10 mac-address 00e0-fc22-f8d3
```

This ensures that the device always uses the assigned IP when connected to the switch .

Step 4: Configure VLANs

Create and assign VLANs to the ports connected to optical modules:

```
vlan 10[Switch-vlan10] quit interface Ethernet 0/1[Switch-Ethernet0/1] port link-type access[Switch-Ethernet0/1] port default vlan 10
```

This isolates traffic and ensures proper segmentation for optical connections .

Step 5: Verify Interface and Optical Module Status

Check the status of the optical module and port:

```
display interface Ethernet 0/1display transceiver interface Ethernet 0/1
```

These commands show link status, speed, and optical module information to confirm proper operation .

Step 6: Save Configuration

After completing the configuration, save it to prevent loss after a reboot:

```
save
```

This ensures all port, VLAN, and binding settings are retained .

Additional Tips

- Use hierarchy command protection to restrict access to sensitive commands based on user levels (visit, monitor, system, manage) to prevent unauthorized changes .
- For bulk configuration of multiple optical ports, consider using interface range commands to improve efficiency .
- Always verify compatibility between the optical module and the H3C switch model to avoid link issues . By following these steps, your H3C switch will be properly configured to operate with optical modules, ensuring secure and efficient network connectivity.

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H3C S7500X-G SERIES INSTALLATION MANUAL Pdf Download

For information about the power modules available for the switch, see H3C S7500X-G Switch Series Hardware Information and

H3C Router and Switch Configuration Lab

The document describes initial configuration tasks for a router and switch, including:
1) Resetting the devices to factory defaults and

H3C All-Optical Network Technology White Paper-6W100

In contrast, the EPON-based POL solution leverages the EPON OLT's enhanced Ethernet forwarding and switching capabilities.

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Current configuration will be lost in next startup if you continue. Page 51 Command Manual – System Maintaining and Debugging

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