How to configure and bind optical ports on a switch



Overview

Add the port connected to OLT as a tagged port (Here is port 9), and add the port connected to the IPTV as an untagged port (Here is port 4).

Key Takeaways

Switch ports, whether optical or Ethernet, can be configured by enabling the port, setting VLANs, adjusting speed/duplex, and applying traffic or service profiles for proper network segmentation.

Accessing the Switch

Connect your computer to the switch using an Ethernet cable and ensure your IP address is in the same subnet as the switch. Log in via a terminal client (e.g., PuTTY) using the switch's IP address. Enter privileged EXEC mode and then global configuration mode to begin port configuration.

Enabling and Describing Ports

By default, most switch ports are enabled, but some may be administratively down for security reasons. Use the shutdown command to disable a port and no shutdown to enable it. Assign a description to each port to simplify management and troubleshooting, e.g., description Uplink-to-Router.

Configuring VLANsAccess ports: Assign a single VLAN for end devices. Trunk ports: Carry multiple VLANs between switches or to routers. On Omada switches, create VLANs under L2 FEATURES > VLAN > 802.

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1Q VLAN and tag the appropriate ports. For Cisco switches, use switchport mode access or switchport mode trunk and assign VLAN IDs accordingly.

Optical Port Configuration

Ensure the port is fiber-optic capable (SFP/SFP+ module installed) and configure the correct speed and duplex mode. Create a dedicated VLAN for optical traffic if needed, especially for GPON or OLT connections. Map user VLANs to service VLANs (SVLAN) for traffic separation, using transparent tag action to avoid double tagging issues.

Speed, Duplex, and PoE SettingsConfigure port speed using speed auto or specify a fixed rate (e.g., 1000 Mbps) depending on the connected device. Set duplex mode to full or auto to match the peer device.

Enable Po

E if the port powers devices like IP phones or access points.

Saving Configuration

After configuration, save the running configuration to startup configuration to retain settings after a reboot: copy running-config startup-config.

Best Practices

Standardize port naming and descriptions for easier troubleshooting. Verify physical port numbering and module layout to avoid misconfiguration.

Ensure VLA

N and trunk settings are consistent across connected devices to prevent traffic drops. Apply traffic profiles or QoS settings for services like Internet, VoIP, and IPTV to optimize bandwidth usage. By following these steps, both optical and Ethernet ports on a switch can be properly configured for secure, efficient, and reliable network operation.

Article Content

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Contribute to annontopicmodel/unsupervised_topic_modeling development by creating an account on GitHub.

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Cisco switches offer a feature called "DHCP Server Port-Based Address Allocation", which implements DHCP option 82 (aka "DHCP Relay Agent Information"); in the general case, you should just need a

Configuring Ports on a Cisco Switch

I want to configure the ports in such a way that the first few slots for normal internet and the rest for my other network. For example if its a Cisco 2950 48 port switch, the first 1-16 port for my

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Configure Service Ports for Service Flow Configure VLAN Configure the IGMP Snooping For IPTV For demonstration purposes, we''ll take one ONU (XM60A), which is connected to the

Configuring Attributes for an Optical Interface

After configuring interface split or merge on an interface, you need to save the configuration and restart the switch to make the configuration take effect. The original configuration

Configure Port Settings to Optimize Traffic Flow on a Switch

Introduction Port configuration starts with the basics of duplex and speed. Sometimes switch ports must manually have their duplex mode and speed manually configured. Configuring Port settings allows

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