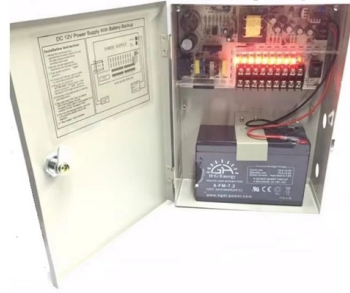


Switch Broadband Aggregation Setup Method



Overview

Understanding Switch Aggregation: A Comprehensive Switch aggregation, also known as link aggregation or trunking, is a method used in How To Set Up Switch.

Key Takeaways

Configuring a broadband aggregation switch involves creating link aggregation groups (LAGs), assigning VLANs, and optionally enabling LACP for dynamic link management to increase bandwidth and reliability.

Step 1: Access the Switch

- Connect to the switch via console, SSH, or Telnet using administrative credentials .

- Enter privileged mode (e.g., enable on Cisco) and then configuration mode (configure terminal) to make changes .

Step 2: Plan Link Aggregation

- Identify the physical ports to be aggregated.

- Decide whether to use static aggregation (manual) or dynamic aggregation with LACP (IEEE 802.3ad) for automatic negotiation .

- Ensure all member ports have the same speed, duplex, and flow control settings .

Step 3: Configure Link Aggregation

For LACP (dynamic aggregation):

- Assign ports to a LAG group and set the mode to Active on both ends .

- Example for TP-Link: Go to Switching → LAG → LACP Config, select ports, assign an Admin Key, enable the group, and apply settings . For static/manual aggregation:

- Create an Eth-Trunk or aggregate interface and add member ports .

- Ensure the remote device mirrors the configuration for proper communication .

Cisco CLI example:

```
interface range GigabitEthernet1/0/21-22 channel-group 1 mode active
```

- Configure the aggregated interface as a VLAN member or trunk depending on your network design .

Step 4: VLAN and Trunk Configuration

- Assign the aggregated interface to the required VLANs for Layer 2 traffic segregation .

- If multiple VLANs are needed, configure the interface as a trunk and allow the necessary VLANs:

```
interface Port-channel1 switchport mode trunk switchport trunk allowed vlan 10,20
```

- Verify VLAN connectivity between switches to ensure proper inter-VLAN communication .

Step 5: Verification and Best Practices

- Check the status of the LAG or Eth-Trunk to confirm all member ports are active.

- Use commands like show etherchannel summary (Cisco) or equivalent on other vendors.

- Avoid connecting multiple physical links without aggregation, as it can cause broadcast storms .

- Ensure consistent configuration on both ends of the aggregated link for stability and load balancing .

Step 6: Save Configuration

- Save the configuration to prevent loss after a reboot:

```
write memory
```

or

```
copy running-config startup-config
```

By following these steps, you can successfully configure a broadband aggregation switch to increase bandwidth, improve redundancy, and support multiple VLANs across your network .

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