Switch cannot ping aggregation



Overview

Figure 15-11 Networking diagram for the failure of an access switch to ping the gateway when the uplink and downlink interfaces of the aggregation switch are bundled into Eth-Trunks respectively.

Key Takeaways

A switch unable to ping an aggregation interface is often caused by misconfigured LAG/LACP settings, inconsistent VLAN or IP assignments, or physical link issues.

Common Causes

Physical Connection Issues Ensure all member ports of the aggregation are properly connected and operational. Check for loose cables, damaged ports, or incorrect port assignments to the aggregate interface. Port Status and Configuration Consistency Verify that all ports in the aggregation are up and share consistent settings, including speed, duplex, and VLAN membership.

LAC

P requires identical configurations on all participating ports.

LAC

P Mode Mismatch If using LACP, confirm that at least one end is in active mode. Passive mode on both ends will prevent negotiation and bring the aggregate interface down.

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IP Addressing and VLA

N Assignment For Layer 3 aggregation, ensure the IP address is assigned to the VLAN interface, not the aggregated physical interface, unless the switch supports routed LAG.

Misconfigured I

Ps or missing VLAN tagging can prevent ping responses. Device Compatibility and Topology Aggregation may fail if the connected devices do not support LACP or if multiple switches are involved without proper stacking or MC-LAG configuration. For multi-switch setups, consider using IRF or MC-LAG to allow a single logical interface across devices.

MA

C Address Conflicts Ensure the aggregated interface has a unique MAC address. Conflicts can prevent proper traffic forwarding. Administrative Shutdown Check if the aggregate interface is manually shut down.

Use commands like show interfaces or display interface to confirm the interface is Administratively UP.

Recommended Troubleshooting Steps

Check Physical Links: Inspect cables and port LEDs; replace faulty cables. Verify Port Status: Use show interfaces status or display interface to ensure all member ports are up.

Check LAC

P Negotiation: Use show lacp or display link-aggregation verbose to confirm ports are selected and LACP packets are exchanged.

Validate VLAN and I

P Configuration: Ensure the VLAN interface has the correct IP and is associated with the aggregated ports. Restart Interfaces: Sometimes, shutting down and re-enabling the aggregate interface resolves temporary issues. Review Logs: Check switch logs for LACP errors or link flaps.

Test Connectivity: Ping the VLAN interface from the switch itself and from connected devices to isolate the problem. By systematically checking physical connections, port configurations, LACP settings, VLAN/IP assignments, and device compatibility, most aggregation ping issues can be resolved.

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Article Content

Troubleshooting Cases for Ping Failures

Case Study: An Access Switch Cannot Ping the Gateway When the Uplink and Downlink Interfaces of the Aggregation Switch Are Bundled into Eth-Trunks Respectively Translation

Case Study: An Access Switch Cannot Ping the Gateway When the

Figure 15-11 Networking diagram for the failure of an access switch to ping the gateway when the uplink and downlink interfaces of the aggregation switch are bundled into Eth-Trunks respectively. SwitchB

Troubleshooting Link Aggregation LAG/LACP Not Working

Troubleshooting: When LACP (Link Aggregation Control Protocol) or static LAG (Link Aggregation Group) is not functioning properly, common troubleshooting steps and checkpoints

Etherchannel is operational but cannot ping the server

The server has two network ports, so it seemed a good idea to aggregate the two network ports into an aggregated link. I was able to setup an etherchannel and all seems fine except

Link Aggregation and LAG/LACP not working

I have a DS920+ and a Netgear GS308T managed switch connected to a Synology RT6600ax router configured with several VLANs. I want the DS920+ to communicate with three

HPE 5940 SWITCH: Cannot ping after configure bond LACP Layer3/4

There is a configuration mistake on the switch side. The problem is that SVI Vlan120 does not have anything to do with RAGG39.120 L3 interface.

Noob question: I setup port aggregation and it says LACP ...

The aggregate isn''t working - lacp is blocking because the other side of the link isn''t communicating correctly. Try deleting the aggregate then choose the ports you want to make up both sides of the

Solved: LIVEcommunity

I set IP addresses on both switches, however, there is not connection between two switches even though they have default route towards palo alto. I can not even ping from switch to

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Basic Link Aggregation scenario with high ping latency

Resume: I''m have a really basic network cenario with some new switches that I just bought. After configuring a LAG (without LACP) between them, I started to have ping losses and high

Noob question: I setup port aggregation and it says LACP ...

Noob question: I setup port aggregation and it says LACP disabled this port, but the Aggregate speed is 2Gbps. Is it disabled or not??

Unable to ping switch

Hi, I''ve got this one Catalyst switch on my network that I am not able to ping, except in rare situations (like earlier today) where it would let me. It means that I sometimes (not always) have

Two computers cannot ping one another

I''ve got two physical computers which are connected to the same unmanaged switch. Said switch is connected to a server handing out IP addresses and acting as a gateway. This works

Stacked 6248 pair

I have two 6248 switches stacked with a very simple config: Two VLANs 2 and 3. Each VLAN has same ports across both switches. VLAN 2 is for VM Network, Network Management, and

New Switch can''t be pinged

I installed a new cisco cbs-250 that cannot be pinged or accessed remotely or when on the wireless network. When hardwired I can ping and access it just fine. I confirmed that trunk ports

Cannot ping interface, IP or defaul gateway from PA

Hi all, I set up PA 500 to connect to Cisco layer 3 switch. I cannot ping any website or the IP from PA 500 except the Ip address assigned - 525743

VLAN q: can ping switches, but not attached devices on new VLAN

I can ping every switch, on every VLAN, in any combination-- the swtiches all see each other fine, and devices attached to ParkingLotSwitch or ServerSwitch get DHCP addresses in correct

Cannot ping over LAN until a ping is received

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Issue Client A can''t ping Server A. But once I do ping from Server A to Client A, Client A can ping Server A gain for a shorter time. Scenario is very similar to below forum link. networking - Cannot ping over

I Cannot Ping Switch to Device, but can ping Device to Device

Switching happens at layer-2, and unmanaged switches cannot ping or be pinged. A managed switch with a configured management interface (and gateway to be able to reach networks

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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Technical inquiry: https://kenhardtprimary.co.za/project-desk.html
African project coordination: Century City, Cape Town, Western Cape, South Africa

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