

How to check the IP address of an aggregation layer switch



AI Overview

IP addresses on aggregation layer switches can be checked via CLI commands on VLAN interfaces, routed interfaces, or aggregated interfaces, depending on whether the switch operates at Layer 2 or Layer 3.

Understanding Aggregation Layer Switches

Aggregation switches consolidate traffic from multiple access switches and forward it to core switches or routers. They often operate at Layer 2 or Layer 3, supporting link aggregation protocols such as LACP or static LAG to combine multiple physical links into a single logical connection, enhancing bandwidth and redundancy. In multi-chassis setups, switches may use MLAG (Arista) or MC-LAG (Juniper) to provide active-active Layer 2 redundancy and efficient bandwidth utilization.

Methods to Check IP Addresses

Layer 3 Interfaces (Routed Interfaces or SVIs)

On Layer 3 aggregation switches, IP addresses are typically assigned to routed interfaces or Switched Virtual Interfaces (SVIs). CLI commands to check IP addresses include:

- Arista EOS: `show ip interface brief` or `show running-config` to view interface IPs and VLAN assignments.
- Cisco IOS: `show ip interface brief` or `show running-config`.
- Juniper Junos: `show interfaces terse` or `show configuration interfaces`.

Layer 2 Interfaces in MLAG/MC-LAG

For switches configured with MLAG or MC-LAG, IP addresses are usually assigned to the Routed VLAN Interfaces (RVI) rather than the physical aggregated ports. MAC address tables may show learned MACs on aggregated interfaces, but the IP addresses are tied to the VLAN interface. Use commands like:

- `show arp` (to map IPs to MACs on VLAN interfaces)
- `show vlan` (to verify VLANs and associated SVIs)

Checking Aggregated Interfaces

Aggregated ports (LAG/LACP) may not have IPs themselves; the IP is assigned to the VLAN interface that the LAG belongs to. Ensure all member ports are up and configured consistently (speed, duplex, VLAN membership) to avoid IP r...

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How To Find A Switch IP Address?

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How to find IP of switch connected to device?

Let's say I have an IP for a workstation (e.g. 10.0.0.1) and IP for a Cisco router it's connected to (e.g. 10.0.0.254) How can I find out the IP for the switch the workstation is connected to?

zxcvbn-rs/src/frequency_lists.rs at master

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Meanings of fields in the command output are as follows: The IP ADDRESS field displays IP addresses of servers directly connected to the switch. The INTERFACE field displays switch

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Several approaches can be employed to identify the IP address of a Cisco switch, each with its own advantages and limitations. 1. Direct Console Access. The most reliable method is to

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Network switch

A layer 2 network device is a multiport device that uses hardware addresses (MAC addresses) to process and forward data at the data link layer (layer 2). A switch

Configure, Verify and Troubleshoot (Layer 2/Layer 3)

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Description This article describes how to check which physical port will be used within
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Configuring LAG Settings on a Switch through the Command Line

The objective of this article is to show you how to configure LAG settings on a switch
through CLI.

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