Viewing the subnet mask on the aggregation switch



Overview

Aggregation Switch Reference Configuration | Validated Solution GuideThe Aggregation Switch Reference Configuration section provides a reference CLI config.

Key Takeaways

You can view the subnet mask on an aggregation switch by using interface-specific commands or checking the Layer 3 VLAN interface configuration. Checking Subnet Masks on InterfacesOn most switches, including Cisco and H3C devices, you can view the subnet mask assigned to an interface using the following methods: Show running configuration for a specific interface: This command displays the IP address and subnet mask configured on the interface. For example, on Cisco devices: CodeCopyshow running-config interface This will show the IP address and subnet mask assigned to that interface.

Show protocols: This command provides a quick overview of all interfaces, their IP addresses, and subnet masks: CodeCopyshow ip interface briefshow protocols While show ip interface brief may not always display the subnet mask, show protocols often includes the prefix length or subnet mask for each interface.

Viewing Subnet Masks in VLAN Aggregation

If your aggregation switch uses VLAN aggregation (super-VLAN and sub-VLANs), multiple VLANs may share a single subnet. In this case: The super-VLAN has a Layer 3 interface with a subnet assigned (e.g., 10. 1.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

1. 0/24), which acts as the default gateway for all sub-VLANs. Sub-VLANs do not have independent subnets; they share the subnet of the super-VLAN.

The subnet mask is therefore associated with the super-VLAN interface rather than individual sub-VLANs.

Using IP Subnet Calculators

To understand the subnet mask and host ranges for a given IP address, you can use an IP subnet calculator.

Enter the I

P address and prefix length (CIDR notation) to see: Network addressSubnet maskUsable host rangeBroadcast address This is particularly useful when verifying subnet assignments on aggregated interfaces or planning VLANs.

Summary

Use show running-config interface or show protocols to view subnet masks on aggregation switch interfaces.

For VLA

N aggregation, check the Layer 3 interface of the super-VLAN to determine the subnet mask shared by sub-VLANs. Use an IP subnet calculator to verify subnet details, host ranges, and broadcast addresses. By combining these methods, you can efficiently view and verify subnet masks on aggregation switches and their associated VLANs.

Article Content

Aggregation Switch Reference Configuration | Validated Solution Guide

The Aggregation Switch Reference Configuration section provides a reference CLI configuration of the aggregation switches as configured previously in this guide.

Configuring Aggregation and Access Switches to Be Managed by the ...

Switch the management VLAN of the aggregation/access switches to the new management VLAN and configure a static IP address. The following example describes how to

Configuring Aggregation and Access Switches to Be Managed by the ...

In this example, aggregation/access switches and APs use independent auto-negotiated management VLANs. When configuring the management VLAN, enable the wireless management VLAN auto

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Is there a command that show the configured subnet masks on all

You can use the show running-config interface command to check the mask configured on an interface. For eg. to check the mask configured on the loopback interface:

1. Easy Steps to Retrieve Subnet Mask from Your Switch

This guide will provide you with step-by-step instructions on how to find the subnet mask from your switch using various methods. Whether you''re using Cisco, D-Link, Netgear, or any other

IP Subnet Calculator

This calculator returns a variety of information regarding Internet Protocol version 4 (IPv4) and IPv6 subnets including possible network addresses, usable host ranges, subnet mask, and IP class,

Solved: Show Command to Pull Interfaces IPs and Subnet Mask

I''m trying to pull all interfaces with IPs and subnet masks together, is there anyway we could do that from command line? e.g. show ip int bri | exclude assi gives me list of interfaces and

Opening the Switch Administration window, Configuring IP and subnet ...

This includes the subnet mask, gateway IP address, or IPFC, and subnet mask for your system. When you configure or change the Ethernet IP, subnet mask, gateway IP, or IPFC, and subnet mask from

SubnetVisualizer

SubnetVisualizer takes this a step further by providing an interactive visual representation of how subnets are split. Instead of just numbers, you see the binary tree structure of your network, making

Configuring Transmission

5.2 Configuring the Link Backup With Link Backup function, the router will switch all the new sessions from dropped line automatically to another to keep an always on-line network. Choose the menu

Is there a command that show the configured subnet masks on all

That''s not so convenient when doing troubleshooting. I would like to see the configured subnet masks on all interface on one screen

Network switch NETGEAR GS305

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Instructions for use Network switch GS305 - NETGEAR. Your guide and instructions for using your device.

IP Subnet Calculator — CIDR, Netmask & Host Ranges | Toolsana

Calculate IPv4 subnets from CIDR notation or a dotted-decimal netmask — instantly get the network address, broadcast address, usable host range, wildcard mask, IP class, and RFC 1918 / RFC 6598

Finding All Subnets

I''ve not once been in an environment that has all possible subnets documented. Normally what happens is the Network Admin there inherited the network from some mysterious guy

Subnetting aggregation

Hmm for CIDR, there isn''t such a thing as number of subnets created right ? Number of subnets created only applies for the traditional subnetting based on classes (A/B/C) ?

IP Subnet Calculator

This IP subnet calculator covers both IPv4 and IPv6 protocols, providing information such as IP address, network address, subnet mask, IP range, and more.

Configure Subnet-based VLAN Groups on an SMB Switch via CLI

This article provides instructions on how to configure subnet-based groups on Sx350, SG350X, Sx500, Sx550X series switches through the CLI.

IPv4 Subnet Calculator | The Network Guy

Free IPv4 subnet calculator for network engineers. Convert CIDR to netmask, plan subnet splits, view wildcard masks and export usable host ranges.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Contact Us

Continue your research online:

Website: https://cgweb.co.za
Technical inquiry: https://cgweb.co.za/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved