

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 Interfaces

On 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:

```
show 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:

```
show 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., 10.1.1.0/24), 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 IP address and prefix length (CIDR notation) to see:

- Network address
- Subnet mask
- Usable host range
- Broadcast 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 VLAN 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

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

On the core switch, configure a management subnet for aggregation/access switches, enable the DHCP server

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

Reference Manual Command Line Interface

This command is used to display the current setting of different protocol packages supported on the switch. This command displays

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

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

Subnet Calculator — IPv4 & IPv6 with binary view

The calculator computes the network and broadcast addresses, first and last usable host, subnet mask, wildcard mask, host count,

IP Subnet Calculator

This calculator returns a variety of information regarding Internet Protocol version 4 (IPv4) and IPv6 subnets including possible

Viewing Your Switches

This action will allow for you to assign a static IP address to one or more switches by specifying an IP address range and providing

Configure IP Addresses and Unique Subnets for New Users

First, since you use three bits more than the natural Class C mask, you can denote these addresses as a 3-bit subnet

ADDRESS AGGREGATION AND SUBNET MASKS AND PREFIXES

ADDRESS AGGREGATION AND SUBNET MASKS AND PREFIXES Address aggregation is introduced in Chapter 1. It is the

Subnet Mask

Get the COMPUTER NETWORKING audio book here amzn.to/3rxrkfi (Amazon

How to Find and Change the Subnet Mask in Windows 11

Changing the Subnet Mask in Windows 11 The subnet mask helps to identify the network and the host bit of the IP

How to View Subnet Mask in your OS | by Maxx Watson | Medium

Here is how to find a subnet mask in Windows, macOS, and Linux operating system.
How to view subnet mask in

Subnetting Explained for Beginners (2026) — Subnet Mask ...

This video is a perfect starting point for you if you want to learn about subnetting, subnet

Subnetting aggregation

Here you go. First you take the network id (192.168.12.0), and the mask (23) says the first 23 bits are static, and the

FS Community

We would like to show you a description here but the site won't allow us.

Layer 2 vs Layer 3 Switches

Exclusive Deal. Get the VPN that I use (affiliate). nordvpn /powercertSave

IP Address Aggregator

IP aggregation is commonly performed by network engineers working with BGP & routers. This utility will help webmasters to

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

finding network subnets

Yes you can VLAN on HP ProCurve 3500 switches. You can use the CLI and run the Show VLAN command to see if it

IP subnetting: How to calculate subnet masks

Learn how to calculate a subnet mask using these IP subnetting shortcuts and prep for your CCNA exam -- no subnet

How Do I Find Subnet Mask? Guide for All Devices

Learn how to find your subnet mask quickly on Windows, macOS, Linux, iOS, and Android. Follow our easy step-by

How to Find and Change the Subnet Mask in Windows 11

3. View IPv4 Properties: Click on the “Internet Protocol Version 4 (TCP/IPv4)” and click on the “Properties” button. 4. Change Subnet

How to Check Subnet Mask of IP: Windows, Mac, Linux & Mobile

Learn how to check the subnet mask of your IP address on Windows, macOS, Linux, and mobile devices with this

subnetvisualizer

A subnet calculator is an essential network tool that allows network engineers, IT professionals, and students to calculate IP address

Configure Subnet-based VLAN Groups on a CBS Switch via CLI

This article provides instructions on how to configure subnet-based groups on CBS 250 and 350 series switches

How do I find my network IP address, netmask, and gateway info?

I'm trying to make my IP address static as I hear it fixes slow browsing issues. When I click on connection information

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

Packet Tracer Subnetting | Real Life Subnetting With Packet ...

After this real life packet tracer subnetting example, you can also view other real life subnetting example in the next lesson.

ADDRESS AGGREGATION AND SUBNET MASKS AND PREFIXES

ADDRESS AGGREGATION AND SUBNET MASKS AND PREFIXES Address aggregation is introduced in Chapter 1. It is the

Subnet Mask

Get the COMPUTER NETWORKING audio book here amzn.to/3rxrkfi (Amazon

How to Find and Change the Subnet Mask in Windows 11

Changing the Subnet Mask in Windows 11 The subnet mask helps to identify the network and the host bit of the IP

How to View Subnet Mask in your OS | by Maxx Watson | Medium

Here is how to find a subnet mask in Windows, macOS, and Linux operating system. How to view subnet mask in

Subnetting Explained for Beginners (2026) — Subnet Mask ...

This video is a perfect starting point for you if you want to learn about subnetting, subnet

Subnetting aggregation

Here you go. First you take the network id (192.168.12.0), and the mask (23) says the first 23 bits are static, and the

What is a subnet mask? How to find, configure, and calculate it

A subnet mask is a number that separates network and host addresses. Learn how to find, configure, and calculate it

Which Command Displays The IP Address And Subnet Mask Values

Discover how to display the IP address and subnet mask values configured on a workstation using the appropriate

How to Find the Subnet Mask of Your Computer?

Your subnet mask will be listed under the Network Connection Details (as shown below). Method 3: Find the Subnet

networking

In a typical home/small business environment, the main (internet) router is the source if truth. Log into the router and

FS Community

We would like to show you a description here but the site won't allow us.

Layer 2 vs Layer 3 Switches

Exclusive Deal. Get the VPN that I use (affiliate). nordvpn /powercertSave 75% on a 2-year plan + 4

IP Address Aggregator

IP aggregation is commonly performed by network engineers working with BGP & routers. This utility will help webmasters to

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

Aggregation Switch Reference Configuration | Validated Solution Guide

The Aggregation Switch Reference Configuration section provides a reference CLI configuration of the aggregation

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

On the core switch, configure a management subnet for aggregation/access switches, enable the DHCP server

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

Reference Manual Command Line Interface

This command is used to display the current setting of different protocol packages supported on the switch. This command displays

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

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

Subnet Calculator — IPv4 & IPv6 with binary view

The calculator computes the network and broadcast addresses, first and last usable host, subnet mask, wildcard mask, host count,

IP Subnet Calculator

This calculator returns a variety of information regarding Internet Protocol version 4 (IPv4) and IPv6 subnets including possible

Viewing Your Switches

This action will allow for you to assign a static IP address to one or more switches by specifying an IP address range and providing

Configure IP Addresses and Unique Subnets for New Users

First, since you use three bits more than the natural Class C mask, you can denote these addresses as a 3-bit subnet

Aggregation Switch Reference Configuration | Validated Solution Guide

The Aggregation Switch Reference Configuration section provides a reference CLI configuration of the aggregation

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

On the core switch, configure a management subnet for aggregation/access switches, enable the DHCP server

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

Reference Manual Command Line Interface

This command is used to display the current setting of different protocol packages supported on the switch. This command displays

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

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

Subnet Calculator — IPv4 & IPv6 with binary view

The calculator computes the network and broadcast addresses, first and last usable host, subnet mask, wildcard mask, host count,

IP Subnet Calculator

This calculator returns a variety of information regarding Internet Protocol version 4 (IPv4) and IPv6 subnets including possible

Viewing Your Switches

This action will allow for you to assign a static IP address to one or more switches by specifying an IP address range and providing

Configure IP Addresses and Unique Subnets for New Users

First, since you use three bits more than the natural Class C mask, you can denote these addresses as a 3-bit subnet

Related Video Reference

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

Contact Us

Continue your research online:

Website: <https://thegalleryselfcatering.co.za>

Technical inquiry: <https://thegalleryselfcatering.co.za/contact.html>

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

