

Configuring a trunk on a switch s optical port



AI Overview

To configure a Cisco switch optical port as a trunk, set the interface to trunk mode, specify 802.1Q encapsulation, and define allowed VLANs.

Step-by-Step Configuration

Access the Switch CLI Connect via console, SSH, or Telnet. Enter privileged EXEC mode:

```
CodeCopyenable
```

Enter global configuration mode:

```
CodeCopyconfigure terminal
```

Select the Optical Interface Identify the optical port (e.g., GigabitEthernet1/1 or TenGigabitEthernet1/1):

```
CodeCopyinterface GigabitEthernet1/1
```

Specify Trunk Encapsulation Set the encapsulation to IEEE 802.1Q (industry standard):

```
CodeCopyswitchport trunk encapsulation dot1q
```

Note: Some older switches may require enabling dot1q explicitly before trunking.

Set the Port to Trunk Mode Configure the interface as a permanent trunk:

```
CodeCopyswitchport mode trunk
```

Avoid dynamic modes (dynamic auto or dynamic desirable) for security and predictability.

Configure Allowed VLANs Specify which VLANs can traverse the trunk:

```
CodeCopyswitchport trunk allowed vlan 10,20,30
```

This ensures only required VLAN traffic passes through the trunk.

Set the Native VLAN For security, assign a native VLAN that is unused:

```
CodeCopyswitchport trunk native vlan 1001
```

Frames without a VLAN tag will be assigned to this VLAN.

Verify the Configuration Exit interface configuration mode:

```
CodeCopyend
```

Check trunk status:

```
CodeCopyshow interfaces trunk
```

```
CodeCopyshow running-config
```

Save the Configuration

```
CodeCopywrite memory
```

```
CodeCopycopy running-config startup-config
```

Best Practices Disable DTP if connecting to non-Cisco devices to prevent unwanted trunk negotiation. Ensure VLAN consistency on both ends of the trunk to avoid spanning-tree loops. Use 802.1Q instead of ISL for interoperability with modern devices. Verify loop-free topology before enabling trunking on production networks. By following these steps, the opti...

Article Content

Port Aggregation FAQs

In what order should I configure port aggregation on my switches? You should be certain that configuration changes are first done on the most downstream switch,

Understanding VLAN Trunking: Configuration and

This configuration sets the switch to act as a VTP server, with other switches in the network acting as clients that automatically sync their VLAN

3.4.5 Packet Tracer

In this activity, you will learn how to configure and verify trunk ports on Cisco switches using Packet Tracer. Trunking allows multiple VLANs to

Configuring VLAN Trunks

Because trunk ports send and receive VTP advertisements, to use VTP you must ensure that at least one trunk port is configured on the device and that this trunk port is connected to the trunk port of a

Configuring 802.1Q Trunks on Cisco Catalyst Switches

Step-by-step guide to configuring and troubleshooting 802.1Q trunk links on Cisco Catalyst 9000 switches, with real show output from a live CML lab.

How to Configure a Trunk Port on Huawei Switch

In this video, we walk you through the process of configuring a trunk port on a Huawei switch. Trunk ports are essential for allowing multiple VLANs to pass through a single network...

Configuring Access and Trunk Interfaces

Configuring Access and Trunk Interfaces Ethernet interfaces can be configured either as access ports or trunk ports. Trunks carry the traffic of multiple VLANs over a single link and allow you

How to configure Trunk Port on Cisco Switch? | Simple

Learn Cisco, configure trunk ports on switches including native VLAN and configure access port for Voice and Data VLANs.

Cisco Switch basic Configuration | VLAN, Access Port & Trunk Port ...

Hello Friends, In this video I will show you Cisco Switch basic Configuration VLAN, Access & Trunk Port Configuration Step by Step.

How to set up VLAN trunking on your managed switch

VLAN trunking is one of the quickest things to set up on any managed switch. If you've already set up VLANs, you know which admin pages

how to configure trunk port on cisco switch | Trunk Port configuration ...

How to configure switch port as trunk? How to configure Trunk Port in Cisco Switch | Trunk Port configuration I will use 802.1Q trunking protocol in this video and the rest of the video is a ...

Configure Trunk Port on Switch

In this Short, you'll learn how to configure a trunk port on a Cisco switch using the I've already explained how to create VLANs and how to assign ports to VLANs in earlier Shorts.

How to configure trunking between Cisco Catalyst switches that run ...

4)To Manually remove VLANs from a trunk link issue "switchport trunk allowed vlan remove vlanlist" command. 5)After configuring a port for trunking, issue "show interface trunk"

Configuring VLAN Trunks

You configure load sharing on trunk ports by using STP port priorities or STP path costs. For load sharing using STP port priorities, both load-sharing links must be connected to the same switch.

How to trunk a port in Cisco Switch?

On Cisco switches, configuring trunk ports involves a precise understanding of protocols, commands, and best practices. This article provides a comprehensive guide to configuring and

Understanding Trunk Port Configuration in Network Switches: A ...

Understanding Trunk Port Configuration in Network Switches: A Comprehensive Guide
[Link to Table of Contents] This guide will walk you through the process of configuring trunk ports on network

Cisco Nexus 5000 Series NX-OS Software

Ethernet interfaces can be configured either as access ports or trunk ports. Trunks carry the traffic of multiple VLANs over a single link and allow you

What is Trunking? – Definition from WhatIs –

What is trunk and what is trunking in networking? A network trunk is a communications line or link designed to carry multiple signals simultaneously to

Full text of "NEW"

Full text of "NEW" See other formats Word . the, > < br to of and a : " in you that i it
he is was for - with) on (? his as this ; be at but not have had from will are they -- !
all by if him one your or up her there

CloudEngine S5731-H48T4XC

S3700& S5700& S6700 Series CloudEngine S5731-H48T4XC: Access product
manuals, HedEx documents, product images and visio stencils.

Configuring VLAN Trunks

When two ports on the same switch form a loop, the switch uses the STP port priority
to decide which port is enabled and which port is in a blocking state. You can set the
priorities on a parallel trunk port

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://energy-powertools.eu>

Email: info@energy-powertools.eu

Phone: +49 172 6389472

Address: Musterstraße 12, 10115 Berlin, Germany

This document is for informational purposes only. Specifications subject to
change without notice.

