

How to configure uplink on the core switch



Article Overview

Configure uplinks using trunk ports or EtherChannel/LACP for redundancy and VLAN support, ensuring high availability and proper traffic flow.

Understanding Uplink Ports

Uplink ports on a core switch are designed to connect to higher-level network devices such as routers, distribution switches, or other core switches, unlike normal access ports that connect to end devices like PCs or IP phones . Uplink ports handle aggregated traffic and often carry multiple VLANs, making them critical for network performance and scalability.

Basic Uplink Configuration Steps

- Select the Uplink Interfaces Identify the physical ports on the core switch that will serve as uplinks. For redundancy, consider using multiple uplinks across different switch members if stacking is used .
- Configure Trunking Set the uplink ports as trunk ports to carry multiple VLANs between switches. This allows tagged VLAN traffic to pass through while maintaining network segmentation . Example Cisco CLI commands:
interface GigabitEthernet1/0/1 switchport mode trunk switchport trunk allowed vlan 10,20,30
- Enable Link Aggregation (Optional for Redundancy) Use LACP (Link Aggregation Control Protocol) to combine multiple physical uplinks into a single logical port-channel. This provides load balancing and failover if one link fails . Example:...

Article Content

Nov 03, 2025

Switching 101: Best Practice for Uplinks and Backbone?

Hi Everybody, I just started working for a company that has a number of Cisco SG200 series small business gigabit

Oct 30, 2025

Best Practice To Use Uplink Connection on Stacked Switches

" When these switches are deployed in stack configuration mode, we recommend maintaining the same uplink

Jul 04, 2026

2 Fiber uplink connection between Core switches & Distribution Switches ...

I have 2 core switches (Catalyst 4506 models) in the data center with HSRP Configuration it is both connected with a

Oct 22, 2025

Switches and Uplink

I'd like some clarification about connecting switches and I seem to be getting conflicting information from different

Sep 24, 2025

switching

After configuring VLANs on the Core, IP routing is enabled, and everything going as plan, he told me to configure the

Feb 20, 2026

MikroTik Bonding + VLAN199 Access Setup | Uplink to Core Switch

In this video, I'll show you step-by-step how to configure MikroTik bonding and set up

Apr 03, 2026

Switch Stack

You could also create a LAG group and assign all the uplink ports to it. This way no loops are created from the dual

May 02, 2026

Cisco Catalyst 3850 Series and Cisco Catalyst 3650 Series Switches

This workflow describes how to configure the Ethernet interfaces that connect a switch or switch stack to distribution

Aug 18, 2025

Understanding the Purpose and Function of a Uplink Port on a Network Switch

The configuration process of switch uplink ports determines the performance of a network.: Most uplink ports are

May 21, 2026

how to connect access switches uplink to core?

A good design connect all access switches (2960S) to the Core/Distribution switch (6500) if the distance between

Nov 30, 2025

Troubleshoot Switch Port and Interface Problems

Cisco 10-Gigabit Ethernet Transceiver Modules Compatibility Matrix For general configuration information and

Nov 06, 2025

PA-Aggregate-Group-Configuration-Dual-Uplink-Core-Switch

Dear Abdul, Thanks for the update. Both switches are in stack. For my case can you please guide me through step by

Oct 16, 2025

Redundant Uplink STP

If you looking to 2 uplink to Core. My suggestion below : 1. Configure the second uplink on standby switch (not

Jan 10, 2026

Solved: Understand uplinks

Solved: I need some help in understanding the usage of an switch uplink. Lets take the C1000-24T-4X-L as an

Mar 14, 2026

Solved: uplink port

Between host-switch: straight between router-router: cross No matter if it's an uplink port or another port on the switch.

Mar 07, 2026

Understanding and Configuring the Cisco UplinkFast Feature

The access switch is dually attached to two core, or distribution, switches. As the redundant uplink introduces a loop

Jun 05, 2026

Layer 3 Switch Example

The uplink port on the access switch should be configured identically, otherwise VLAN mismatches will result. The access switch will

Sep 27, 2025

Setting an Uplink Port on an EX Series or QFX Series Switch as a ...

Use the procedures described in this topic to set up Virtual Chassis ports (VCPs) to connect two switches together in

Dec 06, 2025

Core Switch Room Uplink Connectivity

The document outlines the uplink connectivity configurations between core switches and hub rooms, detailing connections between

Jun 09, 2026

How to Configure a Cisco Switch (step by step)

If you're looking to configure a switch for the first time, this post is for you. Learn step-by-step configuration commands

Jan 28, 2026

Best practices when configuring an Access switch stack to Core

All the other switches in the stack get their connectivity from the the two switches that have the uplink ports to your core. They're the

May 09, 2026

Uplink Port vs Normal Port on Network Switch

This article explores the differences between uplink and normal ports in network switches, emphasizing their roles, data

Mar 11, 2026

Assigning Uplink Ports

Assigning Uplink Ports To assign uplink port (s): In the WebUI, set the filter to one of the options under Groups, Labels, or Sites. For

Apr 25, 2026

Uplinking Cisco Devices

I have been asked to uplink 3850 to the cores and configure phones lines to 3k after removing them from core to free

Apr 04, 2026

Switch stack uplink connectivity best practices

Hi Don't recall any best practices about how to connect stack switches to upstream. But I'll explain what I'll do: -

Contact Us

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