

Does the core switch need to be segmented



Overview

Network segmentation with switches involves dividing a network into smaller, isolated segments to enhance security, improve performance, and simplify management. Learn how to configure a switch for network segmentation effectively by using VLANs, subnetting, and access control. The network has a core switch on which there are SVIs for each of the vlans. The core switch links to the router which give internet access. I have been given the task of "segmenting" the vlans and controlling what can talk to what between the vlans. You may. The only other option I can think of, is using ACL's on the core switches - but they don't offer the same level of flexibility and granularity that I'd want to see for segmentation. Each of the subnets then works independently and in. Overview: Implementing Virtual Local Area Networks (VLANs) is crucial for network segmentation in modern IT infrastructures.



Article Content

May 19, 2026

Routing on Firewall vs L3 Core Switch? : r/fortinet

You will only need a transit VLAN/subnet between the firewall and the core. If you can do that with a 10 Gbps interconnect between your firewall and your core it's better to improve your backup/restore

Jun 18, 2026

How To Configure A Switch For Network Segmentation?

By following this comprehensive guide, you can effectively learn how to configure a switch for network segmentation, enhancing your network's security, performance, and manageability.

May 03, 2026

Core Switches: The Pillar of Network Infrastructure

Get a closer look at core switches: the nerve centers of network infrastructure that enhance performance and facilitate growth.

Jul 10, 2025

Understanding Ethernet LAN Segmentation

You can use a network switching technology to provide LAN segmentation features. LAN switches can assist in increasing bandwidth availability for workstations because LAN switches support

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Understanding VLAN: The Backbone of Network

Devices on different VLANs cannot communicate directly; they need a Layer 3 (L3) device, such as a router or an L3 switch, to route traffic between

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What Is Network Segmentation? Everything You Need

Network segmentation is a security measure that divides a network into smaller, isolated parts. Learn more about its benefits and how to get started.

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Core Switch vs. Distribution Switch vs. Access Switch

Generally, multiple data switches are used at the core layer of a network so that a large amount of data can be routed to the layers in the hierarchy. Another reason

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What Is Core Switch?

A core switch is the high-capacity networking switch that forms the backbone of a network, directing data traffic between different network segments and ensuring efficient

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Implementing VLANs for Network Segmentation

Access the management interface of the core switches within the network. Navigate to the VLAN configuration section. Create VLANs based on the planned structure, using the assigned VLAN IDs

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Top 8 Network Segmentation Best Practices in 2026

Learn more about network segmentation best practices and how you can limit the spread of a potential cyber attack.

Jan 26, 2026

Section III: VLANs and Segmentation

The switch uses the VLAN ID in the tag to forward the frame only to ports belonging to that VLAN.

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Network segmentation vs. VLAN explained

In this article, we will explain the core difference between network segmentation and VLAN and when you should opt for a particular one over the other.

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How to Choose the Right Core Switch for Enterprise

Learn how core switches for enterprise networks and LAN campus networks function in the hierarchical internetworking model and how to choose

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Core Switch Explained: Key Functions and Benefits

Core switches are crucial in effective network design. They stand at the network's heart, speeding up data transfer across different segments. Unlike edge switches, core switches are the

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Small Enterprise Design Profile (SEDP)—Network Foundation Design

Core Layer—The core-layer provides high-speed, scalable, reliable and low-latency connectivity. The core layer aggregates several distribution switches that may be in different buildings. Backbone core

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Solved: VLAN Segmentation

Creating VLANs on the switches provides L2 segregation between the broadcast domains, you can still route between the VLANs by enabling routing on the core or by using a

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What Is Network Segmentation and Why It Matters

This makes it harder for attackers to reach critical systems as they need to bypass multiple segmented layers. Improved Breach Containment.

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Basic Segmented Network Architecture?

I've been reading a lot of the Ignition system architecture articles, and I'm trying to achieve a basic, organized, segmented network where devices in a

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FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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What Is a Core Switch? Network Backbone Architecture Guide

Discover what a core switch does in a 3-tier network model. Learn about ASIC routing, collapsed core vs dedicated core topologies, and SMB sizing guides.

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Network Segmentation

Also note that just because a segmented network architecture supports communication flows between segments, it does not mean that this traffic should be allowed between segments. In the previous

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Mastering Network Segmentation with VLANs: A Comprehensive Guide

Network segmentation using VLANs (Virtual Local Area Networks) is a critical skill for optimizing security, performance, and management in modern IT infrastructure. Below, we dive deep

Dec 10, 2025

How To Configure A Network For Segmentation And Isolation?

The best approach depends on your specific needs and risk profile. How do VLANs help with network segmentation? VLANs (Virtual LANs) allow you to logically separate network segments

Nov 06, 2025

Network Segmentation - CompTIA Network+ N10-007 - 1.3

Learn about network segmentation in CompTIA Network+ N10-007 1.3. Join Professor Messer to explore subnetting and isolating traffic for performance.

Apr 04, 2026

AshwinD24's gists · GitHub

GitHub Gist: star and fork AshwinD24's gists by creating an account on GitHub.

Jun 07, 2026

Why does a core switch need to be behind a router? : r/ccna

I noticed in most topologies there is a L3 switch at the distribution layer and the core layer. why would it need to run to a router after if the switch has routing capabilities? Also why would it even need

Nov 27, 2025

Network Segmentation

Types of Network Segmentation 1. Physical Segmentation Physical Segmentation (or perimeter-based segmentation) separates device groups using

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Options for Vlan segmentation

My core switches are Cisco 3850-24XS. I have tried using VACLs on the core switch to do this, but the performance was horrible and pretty much made the network unusable. I will be

Contact Us

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