

# Interconnecting multiple VLANs via aggregation switches



## Overview

In this article, I'll walk you through the setup, configuration, and successful implementation of VLANs and trunking across multiple switches. VLAN aggregation, also called super-VLAN, partitions a broadcast domain on a physical network into multiple VLANs (sub-VLANs) and aggregates them into a single logical VLAN (super-VLAN). The sub-VLANs are addressed from the same IP subnet and share a default gateway address, thereby reducing the. In modern networking, Virtual LANs (VLANs) play a crucial role in segmenting networks for improved security, efficiency, and manageability. Recently, I built a multi-switch VLAN network in Cisco Packet Tracer, connecting different departments while ensuring seamless communication within VLANs. In. This document describes the configuration of Ethernet services, including configuring link aggregation, VLANs, Voice VLAN, VLAN mapping, QinQ, GVRP, MAC table, STP/RSTP/MSTP, SEP, and so on. Overview If you don't have access to a Cisco Modeling Labs server, you can reserve and use a DevNet Cisco Modeling.

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Switch aggregation, also known as link aggregation or trunking, is a method used in computer networking to combine (aggregate) multiple network connections in parallel.



This chapter covers the design recommendations for a data center design deployment consisting of a Cisco Nexus® 7000 Series Switch at the aggregation layer and a Cisco Nexus 5000 Series Switch at ...



Configuring a switch to support multiple VLANs isolates network traffic, improving security and performance. This guide provides a step-by-step process for implementing Virtual Local Area ...



To enable communication between endpoints assigned to the same VLAN but attached to different network switches, we have to interconnect the switches in a manner that allows all VLAN endpoints ...



This example provides a recommended configuration of FortiLink where multi-tier FortiSwitches are managed by a standalone FortiGate as switch controller via aggregate interface, where the FortiGate ...



As devices are added to a small network, more switch ports are needed to connect those devices to the network. At some point, additional switches may be added to accommodate that growth. Ideally, ...



This chapter describes how to configure VLAN aggregation. VLAN aggregation allows for communication between hosts on the same network segment that are in different VLANs.



Configure link aggregation on Device A and Device B to meet the following requirements: · VLAN 10 on Device A can communicate with VLAN 10 on Device B. · VLAN 20 on Device A can communicate ...

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