

# Configuring the gateway on the aggregation switch



## AI Overview

To configure the gateway on an aggregation switch, you need to set up Layer 3 interfaces with IP addresses, configure VLANs, routing, and optionally implement link aggregation for redundancy and performance.

**Layer 3 Interface and IP Configuration** Start by assigning IP addresses to the Layer 3 interfaces on the aggregation switch. These interfaces will act as the default gateway for downstream devices, including access switches, APs, and wired clients. Ensure that each VLAN has a corresponding SVI (Switched Virtual Interface) with a unique IP address to maintain proper routing and network segmentation. Avoid using VLAN 1 as a management or service VLAN to prevent service interruptions.

**VLAN and Routing Setup** Configure VLANs for management and service traffic separately. The management VLAN connects the aggregation switch to upstream devices and controllers, while service VLANs handle user traffic. Add static routes or dynamic routing protocols as needed to ensure connectivity between VLANs and upstream gateways. For DHCP, the aggregation switch can act as a DHCP server to assign IP addresses to downstream devices and APs.

**Link Aggregation and Redundancy** For high availability and increased throughput, configure port aggregation using LACP or static LAG. LACP dynamically manages aggregated links and provides automatic failover, while static LAG requires manual configuration on both ends. For multi-chassis setups, MC-LAG can be used to connect two aggregation switches as a single logical unit, providing load balancing and redundancy. Ensure that all aggregated ports use the same speed and compatible SFP modules or DAC cables.

**Stacking and Physical Connectivity** If the aggregation switches are stacked, configure the stack before connecting to the upstream gateway to avoid offline stacking issues. Use the designated conductor s...

## Article Content

Connecting a TP-Link Router to a Gateway with Bridge Mode

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Configuring MC-LAG in UniFi Network – Ubiquiti Help Center

Configuring MC-LAG in UniFi Network Multi-Chassis Link Aggregation Group (MC-LAG) enables redundancy and load balancing by connecting two ECS-Aggregation switches as an MC-LAG pair.

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HPE Aruba Networking CX 6400 Switch Series High-availability modular chassis and line card switches for versatile edge aggregation, core, and data center

Standalone AC Solution: Aggregation Switches Function as Gateways

In this example, aggregation switches set up stacks that function as gateways for wired and wireless users on the entire network and are responsible for routing and forwarding of user services.

Medium Branch Switch Configuration | Validated Solution Guide

this section of the guide will demonstrate how to configure a Aggregation switch with dual purposes, providing power and layer 2 access to wired devices and access points, while also

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

Configure the core switch as the management subnet gateway of the aggregation/access switches. For details, see Configuring Aggregation and Access Switches to Be Managed by the

## Aggregation Switch: Increasing the Priority of Special Traffic

Deployment Procedure Configure devices at core, aggregation, and access layers to ensure connectivity of the basic network. For details, see Native AC Solution: Aggregation Switches Function as

## Port Aggregation FAQs

To learn how to configure an MC-LAG setup, see this guide. Find help and support for Ubiquiti products, view online documentation and get the latest downloads.

## VLAN and LAGG Setup — OPNsense documentation

The OPNsense and the Switch are either connected with a single network cable, or with multiple network cables via Link Aggregation. The Port Mode describes the configuration of the Managed

## MS Layer 3 Switching and Routing

Layer 3 routing capabilities are available on most Cisco Meraki switches. This allows the switches to route traffic between VLANs in a campus

## The Ultimate Guide to Installing and Configuring the Ubiquiti UniFi ...

The Ubiquiti UniFi Switch Aggregation (USW-Aggregation) is a powerful, high-capacity switch, perfect for streamlining and enhancing network performance. This guide will walk you through

## Configure Aruba Aggregation Switch :: Cray System Management (CSM)

This will require a unique IP address on both switches. The IP address is in its own VRF so this address will not be reachable from anywhere besides the aggregation pair.

## Network Configuration

By doing link aggregation, two NICs can appear as one logical interface, resulting in double speed. This is a native Linux kernel feature that is

## How to Configure the Netgear M4300 Switch — Complete Step-by

How to Configure the Netgear M4300 Switch — Complete Step-by-Step Guide A comprehensive configuration guide covering initial setup, VLANs, trunking, routing, QoS, SNMP, spanning tree, and

## Wired Aggregation | Validated Solution Guide

The HPE Aruba Networking Access and Services Aggregation Configuration chapter of the Validated Solutions Guide describes the procedures used to configure aggregation switch pairs

## Port Aggregation Configurations

**Port Aggregation** Port aggregation allows you to group multiple physical ports into one unit. Port aggregation is useful for implementing load balancing and provides a redundant link backup. To

Router Configuration With Cisco Packet Tracer

Step-2 (Configuring PCs): Assign IP Addresses to every PC in the network. Select the PC, Go to the desktop and select IP Configuration and

Secure VLAN configuration: a practical guide and best

Learn how to configure secure VLANs, segment your network, and avoid common failures. A practical guide with best practices for security and

What Is an Aggregation Switch and How to Choose?

What Is an Aggregation Switch? An aggregation switch is a network device that consolidates traffic from multiple access switches, wireless access points, or other edge devices and

UniFi Switch Settings – Ubiquiti Help Center

UniFi Switch Settings let you configure how your network switches handle traffic, VLANs, port behavior, and Layer 3 isolation. These settings are critical for

## Contact Us

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