Configuration Steps for Aggregation Switch



Overview

Wired Aggregation | Validated Solution GuideThe HPE Aruba Networking Access and Services Aggregation Configuration chapter of the Validated Solutions Guide.

Key Takeaways

Configuring an aggregation switch involves stacking (if applicable), setting up routing and multicast, and configuring link aggregation for redundancy and load balancing. 1.

Pre-

Configuration Checklist

Before starting, ensure the following: Switches are factory default and running supported firmware (e.g., AOS-CX 10. 7 or above for Aruba). Reserved auto-stacking ports are used if stacking is required.

Physical connectivity is consistent across the deployment to minimize configuration variations. Console access is available for initial setup. 2.

Switch Stacking (if applicable)Press the mode button on the switch to designate the conductor; wait for it to reboot. Press the mode button on additional members until the LED displays STK.

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Verify LE

D states: Flashing green indicates conductor, flashing orange indicates joining or error, solid green indicates operational. Only connect uplinks to the network after stacking is complete to avoid offline stacking issues. 3.

Global Routing and Multicast Configuration

Configure OSP

F globally with area 0, enable passive-interface default, and enable graceful-restart. Assign a unique router-id for each switch using a pre-allocated loopback IP. Configure multicast routing globally and enable active-active mode.

Create loopback interfaces matching the OSPF router-id, enable OSPF in area 0, and enable PIM sparse mode on the interface. Configure point-to-point routed-only ports (ROPs) for connections to the core and set up routed-transit VLANs between aggregation VSX pairs. 4.

Link Aggregation Configuration

Decide between static LAG or LACP: Static LAG requires manual configuration on both ends and does not provide automatic failover.

LAC

P dynamically manages aggregation, provides automatic failover, and ensures both ends agree on settings. Configure ports consistently across the aggregation group: STP settings (enable/disable, priority, cost)VLANs (permitted VLANs, PVID)Port attributes (speed, duplex, link type).

LAC

P modes: Active: sends LACP packets to initiate negotiation. Passive: responds only to LACP packets from the partner. Ensure the number of ports in the aggregation group does not exceed device limits (e.g., 8 ports for static, 12 for dynamic LAG).

5.

Configuration Deployment

Use a centralized configuration tool (e.g., HPE Aruba Central MultiEdit) to apply configuration chunks to multiple switches simultaneously. Modify device-specific parameters such as router-ids and loopback IPs individually. Verify configuration consistency and operational status after deployment.

6.

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Verification

Check OSP

F adjacency and routing tables.

Verify PI

M and multicast routing functionality. Confirm LAG/LACP status and ensure traffic is balanced across aggregated links. Monitor switch logs and LED indicators for errors or misconfigurations.

Following these steps ensures that aggregation switches are properly stacked, routed, and aggregated for high availability, redundancy, and efficient traffic distribution across the network.

Article Content

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

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.

Port Aggregation Configurations

Port aggregation is useful for implementing load balancing and provides a redundant link backup. To allow port aggregation, the basic configuration on all the ports must be consistent. The following list

Configuring Link Aggregation Group and Link Aggregation Control

This chapter describes Link Aggregation Group, Link Aggregation Control Protocol, and manual load balancing. This chapter also describes the configuration procedures.

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 ...

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On the core switch, configure a management subnet for aggregation/access switches, enable the DHCP server function on the gateway interface of the subnet, and enable the function of

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

Link aggregation groups | FortiSwitch 7.6.4 | Fortinet Document Library

This section provides information on how to configure a link aggregation group (LAG). For LAG control, the FortiSwitch unit supports the industry-standard Link Aggregation Control Protocol (LACP).

Tutorial of Switch Link Aggregation (V4.80) — Zyxel Community

Zyxel switches support two methods of link aggregation: Static Binding (Trunking) and LACP (Dynamic Bonding). Note: To prevent the formation of network loops, configuring link aggregation is a

Demo Kit

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Shadow Mode High Availability on UniFi Cloud Gateways

Install a new gateway and repeat step 1-10 above. Multi-Chassis Link Aggregation (MC-LAG) MC-LAG enhances high availability for your core ECS Aggregation switches, improving reliability and

VLAN Configuration Commands Step by Step Explained

This tutorial explains VLAN configuration commands. Learn how to configure, test, and verify VLANs on Cisco switches.

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Tutorial

Learn how to configure a Cisco Switch Link Aggregation using the command-line, by following this simple step-by-step tutorial, you will be able to create a new Link aggregation and

How To Set Up Switch Link Aggregation

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Managed switches provide many advantages for a growing network, including support for VLANs, QoS, and Trunking. I touched on simple VLAN configuration a while back. In this article, I''m going to

Link_Aggregation_Config_Guide

1 Link Aggregation Configuration Guide This document describes the Link Aggregation feature supported in Supermicro Layer 2 / Layer 3 switch products. This document covers the Link

Switching

It provides a step-by-step guide on configuring LAG, including checking port status, ensuring loop guard is inactive, and setting up the link aggregation through the switch''s settings menu. What is Link

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

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