

Dual-link configuration of access switch



Article Overview

Dual-link access switch configuration enables redundancy, load balancing, and high availability for uplinks and access points.

Overview

Dual-link configurations are used to increase bandwidth, provide failover, and ensure uninterrupted network service. This setup typically involves connecting an access point (AP) or access switch to two uplink interfaces on a switch or controller, which can operate in active/active (load sharing) or active/standby (backup) modes .

Key Configuration Steps

1. VLAN and Interface Setup

- Create VLANs for management and client traffic (e.g., VLAN 100 for AC management, VLAN 200 for clients) and assign IP addresses to VLAN interfaces .
- Configure trunk ports on the switch to carry multiple VLANs, ensuring VLAN 1 traffic is restricted to prevent unnecessary broadcast accumulation .
- 2. Link Aggregation
 - Use Layer 2 static link aggregation or EtherChannel/LACP to combine two uplink interfaces for load balancing and redundancy .
 - Ensure both interfaces have the same port speed; mismatched speeds may disable load balancing and allow only one interface to forward traffic at a time .
 - Configure load balancing based on source/destination MAC addresses or other criteria as needed .
- 3. AP Dual-Link Configuration

- For APs with dual Ethernet ports, assign both ports as uplinks in active/active or active/standby mode .

Article Content

Uplink Interface Connectivity

Uplink Interface Connectivity This workflow describes how to configure the Ethernet interfaces that connect a switch or switch stack

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

VLAN Configuration Commands Step by Step Explained

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

Best practice for redundant access switch connections?

In our server rooms I have a stacked switch pair acting as a distribution switch for every other access switch in the

Uplink Interface Connectivity

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

HA-mode FortiGate units with dual-homed FortiSwitch

Looking at the Fortinet documentation for FortiOS 6.0, it doesn't say a lot about how to set

Configuring Layer 2 Switching

You can configure Layer 2 switching ports as access or trunk ports. Trunks carry the traffic of multiple VLANs over a single link and

Core Switch vs. Distribution Switch vs. Access Switch

There are different types of enterprise switches that perform various roles in these layer-based or hierarchical ethernet networks.

Azure Local three-node storage switchless, dual TOR, dual link ...

ARM template Storage intent networks configuration example You can use the ARM template for three-node storage

8 Steps to configure your network switch

All that's left is to test your access, reload the switch, and ready the cables. Once that's done, label your switch, rack it up, and go

Example for Configuring Wireless Configuration Synchronization in Dual ...

Wireless configuration synchronization can be deployed in dual-link HSB to meet this requirement. This solution frees

Switch Port Configuration: Access, Hybrid, and Trunk Explained

Discover how to optimize network performance and security with Switch Port Configuration, covering Access, Hybrid,

Azure Local four-node storage switchless, dual TOR, dual link ...

This article describes how you can use a four-node storage switchless network reference pattern with two TOR L3

Understanding Dual-Link Cold Backup

Definition Dual-link cold backup allows an AP to set up active and standby CAPWAP links with two ACs. The two CAPWAP links

Example for Configuring Dual-Link Hot Standby (HSB) for ACs

Wireless Access Controller (AC and Fit AP) V200R019C00 Web-based Configuration Guide This document describes

Understanding Access Switches: Key Components of Your Network Switch ...

Explore the role of access switches in your LAN setup. Understand their key components, functions in the access layer,

Dual-Link HSB Configuration

To implement wireless configuration synchronization in dual-link HSB scenarios, you need to manually configure the master AC and

Configuring Flex Links

Configuring Flex Links and the MAC Address-Table Move Update Feature This chapter describes how to configure

Switch redundancy with MCLAG | FortiSwitch 7.6.4 | Fortinet

In this specific example, the FortiLink stack for the LAN networks consists of a two-tier MCLAG topology with dual-homed access

Contact Us

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