

Dual-route access on the switch



Article Overview

A dual-route access switch is an access layer switch connected via two uplinks to distribution switches, providing redundancy, load balancing, and high availability in enterprise networks.

Concept and Purpose

A dual-route access switch, also known as a dual-homed access switch, is designed to connect end-user devices to the network while maintaining continuous connectivity even if one uplink fails. Each access switch has two uplinks to separate distribution switches or upstream routers, ensuring that traffic can be rerouted automatically in case of a link or device failure. This setup enhances network reliability, bandwidth utilization, and fault tolerance.

Benefits

- **Redundancy:** If one uplink or distribution switch fails, the access switch continues to forward traffic through the alternate path.
- **Load Balancing:** Traffic can be distributed across both uplinks, improving throughput and reducing congestion.
- **High Availability:** Critical applications like voice, video, and mission-critical data remain operational during failures.
- **Scalability:** Dual-route access switches allow for incremental network growth without compromising performance.

Design Considerations



Article Content

How can I configure multiple default gateways on a CISCO Router?

If you have a router/firewall and you are doing "router on a stick" or have each subnet connected from the router via its

Dual internet connections | FortiGate / FortiOS 7.6.4 | Fortinet ...

Dual internet connections, also referred to as dual WAN or redundant internet connections, refers to using two FortiGate interfaces to

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Server with Dual Networks

I currently have a layer 3 switch with inter-vlan routing turned on and multiple trunks are setup with different VLANs going out to layer

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Setting up multiple nic Network and routing on Proxmox

I think it's more versatile as it allows you to connect a VM to multiple networks by adding more virtual NICs, you know,

Single/Dual Homed and Multi-homed Designs

This lesson explains the difference between single homed, dual homed, single multi-homed and dual multi-homed BGP connections

Quelle est la différence entre switch et routeur

Quelle est la différence entre un switch et un routeur ? Le switch connecte des appareils au sein d'un réseau local,

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Can I connect two routers to one switch?

You can connect two routers to a switch provided you are leasing 2 public static IP addresses from your ISP. I presume your two

Core Switch vs. Distribution Switch vs. Access Switch

The access layer consists of layer 3 switches, which take routed and switched data packets from the distribution switches and then

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We'll be back soon. We apologize for the inconvenience. Our site is currently under maintenance and will be back shortly. Thank you

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