

Prevent aggregation switches from accessing each other

Article Overview

To prevent aggregation switches from accessing each other, use management VLAN isolation, ACLs, and proper Layer 2/Layer 3 segmentation.

Management VLAN Isolation

Configure a dedicated management VLAN for each aggregation switch or group of switches. By assigning each switch to its own management subnet and enabling VLAN auto-negotiation only with the core switch, you can ensure that aggregation switches do not communicate directly with each other over the management network. Use static IP addressing or DHCP with restricted ranges to further control access.

Access Control Lists (ACLs)

Apply ACLs on the interfaces connecting aggregation switches to the network. ACLs can block traffic between aggregation switches while allowing necessary traffic to and from access switches or the core layer. For example, you can create rules that deny all traffic between the IP addresses of aggregation switches but permit traffic to monitoring or core devices.

Layer 2/Layer 3 Segmentation

- o EAPS Domains: If using Layer 2 aggregation, configure EAPS (Ethernet Automatic Protection Switching) domains to isolate traffic and prevent loops between aggregation switches. Each aggregation switch can act as a master or transit node in separate domains, ensuring fault isolation.
- o Protected VLANs: Assign protected VLANs to prevent broadcast or unicast traffic from traversing between aggregation switches unnecessarily.
- o Routing Segmentation: At Layer 3, ensure that aggregation switches are in separate subnets and use routing policies to prevent inter-switch routing unless explicitly required.

Additional Best Practices

- o Disable unnecessary trunking between aggregation switches to avoid accidental Layer 2 bridging.
- o Use private VLANs or port isolation features on access ports if aggregation switches are connected to the same physical infrastructure.
- o Monitor traffic using SPAN or TAP aggregation switches to verify that no unauthorized inter-switch communication occurs. By combining management VLAN isolation, ACL enforcement, and proper Layer 2/Layer 3 segmentation, you can effectively prevent aggregation switches from accessing each other while maintaining connectivity to access and core layers. This approach also enhances network security and reduces

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the risk of broadcast storms or misconfigurations.

What are Link Aggregation Groups (LAGs) and how do they work with my managed switch? Link aggregation lets a

Link aggregation interfaces have names like "po1" and "sa1" depending on the aggregation method in use. Ethernet bonding is used to

Aggregation switches set up stacks to implement device-level backup and increase the interface density and forwarding bandwidth. A

Ascentoptics: Everything You Need to Know About Aggregation Switch: This

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Efficient Load Balancing: By spreading network traffic across all the aggregated links, switch aggregation effectively

Configuring link aggregation between MS and Cisco Switches You may want to set up and configure a bonded link

TAP aggregation is an alternative solution to help with monitoring and troubleshooting tasks in the data center. It

An aggregation switch is a network device that consolidates traffic from multiple access switches, wireless access

When an aggregation switch receives data from access switches, it performs local routing, filtering, load balancing,

To prevent traffic interruption, enable link-aggregation traffic redirection at both ends of the aggregate link. To prevent packet loss

Discover the crucial differences between core, aggregation, and access switches. Find out

The aggregation switch is located in the middle of the network architecture, which is equivalent to a middle-level

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Article ID:2860 Configuring Link Aggregation Group (LAG) on a Switch Objective Link Aggregation Group (LAG)

IEEE link aggregation Standardization process By the mid-1990s, most network switch manufacturers had included aggregation

It is recommended that STP be disabled on the links between the core layer and aggregation layer. Each aggregation switch and its

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