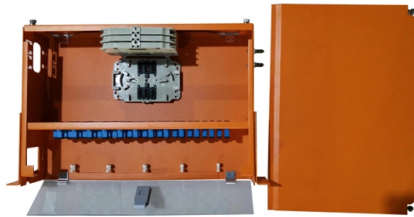


How to secure a large aggregation switch



Article Overview

Securing a large aggregation switch involves a combination of physical protection, access control, configuration hardening, traffic management, and monitoring to ensure network reliability and prevent unauthorized access.

Physical Security

Ensure the switch is installed in a locked, access-controlled data center or IDF with environmental monitoring for temperature, humidity, and power. Use redundant power supplies and fans to maintain uptime in case of hardware failure, as recommended for aggregation-layer switches deployed in pairs (MCLAG) .

Access Control

- Limit administrative access to trusted personnel using strong authentication methods such as RADIUS, TACACS+, or multi-factor authentication.
- Disable unused ports and restrict access to only authorized devices.
- Implement role-based access control (RBAC) to separate administrative privileges from operational users .

Configuration Hardening

- Enable ACLs (Access Control Lists) to filter traffic and permit only authorized IP addresses or VLANs, especially for VIP or sensitive traffic .
- Segment traffic using VLANs to isolate different departments, services, or user groups....

Article Content

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Securing the Network

Secure the switch devices by securing switch access and switch protocols, and mitigating compromises launched through a switch.

Contact Us

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