

Meraki Data Center

Overview

Robust, scalable, and highly available infrastructure

Meraki's customers build their networking infrastructure on top of Meraki, so availability, disaster recovery, and security are crucial. We built the entire Meraki solution with these requirements in mind, so that a Meraki based network is more reliable than any alternative on the market.



Features

Highly Available

Meraki's hosted services run out of three co-location facilities. Two are in the U.S., one on the West Coast and one in the Southwest, while the third is in the United Kingdom. All customer data is securely mirrored among the data centers.

Each top-tier co-location facility is equipped to minimize the possibility of failures. Each data center features diesel generators for backup power, redundant high speed carrier connections, and seismic reinforcement. Multiple layers of physical security, including biometric readers, are also present.

Disaster Tolerant

The Meraki system treats component failures such as disk, server, or switch failures as routine. These types of failures will not affect service to your clients.

In the event of a catastrophic data center failure, such as a major earthquake, your Meraki networks will fail over to one of our mirrored sites. This failure will happen automatically, without intervention on your part and with minimal disruption to clients on your network.

Connectivity failures can be caused by Internet routing problems, e.g., a carrier disruption between your network and Meraki. Meraki networks are designed to tolerate internet connectivity failures gracefully. Your network will continue to provide service to associated clients. However, some features such as network channel optimization, configuration, and real time statistics will not be available until connectivity is restored.

High Performance

Meraki's data centers are strategically located throughout the world. Networks are run off of the data center that is geographically closest to them, minimizing latency and maximizing performance of your network.

Incredibly Secure

Traffic from client devices associated to a Meraki network is routed directly to its end point, and does not pass through the Meraki data centers.

Sensitive information about your networks, such as user passwords, pass keys, and credit card numbers, is secured both in flight and at rest. All sensitive communication between the data center and each Meraki access point takes place over a secure SSL tunnel. Sensitive data is only stored in an encrypted format.

Summary Data Center Features

➤ On-Site Monitoring and Security

- Security guards monitor all traffic into and out of the data center 24/7, ensuring that entry processes are followed
- A high security card key system is utilized to control facility access
- Digital video surveillance of all entries, exits, and cabinets is conducted

➤ Fire Detection and Suppression

- Sophisticated sprinkler system with interlocks to prevent accidental water discharge is provided

➤ Redundant Power and Networks

- Diesel generators provide backup power in the event of power loss
- UPS systems condition power and ensure orderly shutdown in the event all power is lost
- Each data center has service from at least two top-tier carriers

➤ Temperature Control

- Over-provisioned HVAC systems provide cooling and humidity control
- Flooring systems are dedicated for air distribution

➤ Seismic Safeguards and Bracing

- Seismic bracing is provided for the raised floor, cabinets, and support systems
 - Data center failover is provided in the event of catastrophic failure
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