Epic

Title: Switching Infrastructure Refresh Global

Description:

Refresh and replace all EOL/EOS switches across multiple locations (Mexico, Las Vegas, Canada, GCR Core, NJDC Distribution).

Implement a FortiGate firewall refresh, transitioning from FortiGate 1200D to FortiGate 600F for improved security and performance.

Optimize network authentication through a shift from shared secret to Radius server for enhanced security.

User Stories

User Story 1: Mexico WAN Switch Refresh

As a network administrator,

I want to refresh the EOL/EOS WAN switch in Mexico,

So that the network benefits from improved performance, security, and reliability.

Acceptance Criteria:

Mexico WAN switch successfully replaced.

Connectivity and performance tested post-installation.

User Story 2: Las Vegas Access Switch Refresh

As a network engineer,

I want to refresh the access switch in Las Vegas,

So that users in the region can connect securely and efficiently with updated hardware.

Acceptance Criteria:

Las Vegas access switch replaced and configured.

User connectivity validated.

User Story 3: Canada Access Switch Refresh

As a network engineer,

I want to replace the EOL/EOS access switch in Canada,

So that the network can support higher speeds and provide better security features.

Acceptance Criteria:

Access switch in Canada replaced.

Performance benchmarks and security testing completed.

User Story 4: GCR Core Switch Refresh

As a network architect,

I want to refresh the GCR Core switch,

So that the backbone of the network operates at optimal performance and is not vulnerable to security risks associated with older equipment.

Acceptance Criteria:

GCR Core switch replaced and fully operational.

Network performance and security settings verified.

User Story 5: NJDC Distribution Switch Refresh

As a network administrator,

I want to refresh the distribution switch at NJDC,

So that the distribution layer of the network is secure and supports higher throughput.

Acceptance Criteria:

NJDC distribution switch successfully replaced.

Test configurations and data flow through the distribution layer.

User Story 6: GCR Firewall Refresh – FortiGate 1200D to FortiGate 600F

As a network security engineer,

I want to replace the existing FortiGate 1200D firewall with the FortiGate 600F,

So that we ensure the firewall continues to meet modern security standards and is capable of handling increased traffic.

Acceptance Criteria:

FortiGate 1200D decommissioned and replaced with FortiGate 600F.

Firewall rules and configurations validated.

Traffic flow tested post-installation.

User Story 7: GCR Authentication Optimization

As a network security engineer,

I want to move Wi-Fi authentication from shared secrets to a radius server,

So that we can enhance security and simplify management.

Acceptance Criteria:

Authentication system switched to radius server.

Wi-Fi access tested for both security and performance.

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Sprint Plan

Sprint 1: WAN and Access Switch Refresh

Timeline: 2 Weeks

Scope:

Replace Mexico WAN switch.

Replace Las Vegas Access switch.

Perform connectivity and performance testing.

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Sprint 2: Canada Access and Core Switch Refresh

Timeline: 2 Weeks

Scope:

Replace Canada Access switch.

Replace GCR Core switch.

Test network performance and security settings post-installation.

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Sprint 3: NJDC Distribution and Firewall Refresh

Timeline: 2 Weeks

Scope:

Replace NJDC distribution switch.

Replace FortiGate 1200D firewall with FortiGate 600F.

Test configurations and monitor network traffic.

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Sprint 4: Authentication Optimization and Final Testing

Timeline: 2 Weeks

Scope:

Implement Radius authentication for Wi-Fi.

Test all new switches, firewall, and authentication system for performance and security.

Finalize documentation and provide training for operations teams.