

Leonardo Morales

Network Engineer | CCNA Certified | Las Cruces, NM | selarom02@gmail.com | (253) 545-8916

Work Experience

Network Administrator

Navajo Tribal Utility Authority (Remote Contract through Sentinel Technologies Inc)

July 2023 – May 2025

President of Navajo Nation Office Network Refresh:

- Led the design and coordinated with multiple departments such as outside plant, ISP, NOC, and internal IT to execute the refresh from outdated RUKUS/HP networking equipment to a full Cisco shop with redundancy as a main concern.
- Design included a 10GB circuit with a 1GB backup, two Cisco 9200L, two Cisco 3105 NGFWs, and six Cisco Catalyst 9300 48 port switches distributed throughout the office space.
- Implemented Cisco Meraki for wireless due to the size of the office not needing a dedicated WLC.
- Performed site surveys and created heat maps to illustrate coverage for the office space.

Implementation of Cisco Catalyst Center:

- Spearheaded the migration from Prime to Catalyst Center using both the Prime migration tool and manually adding over 100s of networking devices. As well as integrated Cisco ISE, NGFWs, and WLCs.
- Utilized Catalyst Center to drive automation of software upgrades and outage resolution via SWIM, improving operational efficiency and system reliability.
- Implemented standardized configuration templates in Catalyst Center for distribution and access switches, leveraging Zero-Touch Provisioning and Plug and Play to automate and accelerate network deployment.
- Developed and deployed SNMPv3 configurations across all network devices via Catalyst Center Day-N templates.

Documentation of network topologies and wifi heat maps:

- Lead architect for designing the hierarchy within Catalyst center for over 100 sites spread across Arizona, New Mexico, and Utah.
- Created heat maps in catalyst center for over 100 sites to illustrate coverage and find areas that lack coverage.
- Drew up VISIO drawings for the entire enterprise and its physical/logical connections. High-level drawing that included the entire enterprise and how the Datacenters connect to the environment, a Low-level drawings including site connectivity and AP placements.
- Leveraged Catalyst Center for network discovery due to no documentation prior.

Multi-Million-Dollar Network Refresh:

- Managed a large-scale switch refresh initiative valued at over \$2 Million dollars.
- Utilized Catalyst Center to perform in-depth network discovery, identifying end-of-life switches and outdated SFP modules requiring upgrades.
- Orchestrated the upgrade prioritization framework, determining optimal switch replacement order based on criticality, lifecycle status, and network impact.

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Work Experience

Network Administrator

Santa Fe Public Schools (Contract through ITConnect)

September 2022 – July 2023

Creation of DMZ network

- Deployed out-of-band management for all 32 sites to improve remote support capabilities for all switches and servers.
- Standardized configurations across both distribution and access layer switches.

Migration from Extreme network switches to HP Aruba switches

- Configured Aruba switches to replace all extreme switches across the network and data centers.
- Deployed aruba airwave APs to sites that required more coverage.

Day to day trouble tickets:

- Worked with faculty and staff with every day networking issues such as but not limited to: Printing issues, wifi, directly connected internet, sites that were blocked, and reconfiguring ports to the correct VLAN.

Network & Telecommunications Technician

New Mexico State University

October 2018 – December 2021

Migration from Polre connections to POE

- Assisted in deploying POE switches throughout campus and upgraded phones to be on POE. This drastically improved VOIP reliability.
- Coordinated with departments heads on appropriate outage times to ensure a smooth transition.

Education

Bachelors of Science in Engineering Technology, NMSU 2021

Certifications

Cisco Certified Network Associate (CCNA)

Currently Studying for the Cisco Certified Network Professional Enterprise (CCNP)