**PROFESSIONAL SUMMARY:**

* **10+ Years** of experience with **Cisco certified Network Engineer** in IP network design, Network integration, Routing, Switching, Data center, Firewall technologies, Deployment and troubleshooting of complex network systems.
* Strong in **SD-WAN and DMVPN** experience.
* Have worked on **ASR** 1002 **series Routers**, **Cisco Catalyst** **series** **6500, 4500, 3750, 2950 and 3500** **switches**.
* Experience in Configuring all **Palo Alto** Networks **Firewall models (PA-2k, PA-3k, PA-5k etc.)** as well as a **centralized management system** (Panorama) to manage large scale **firewall** deployments.
* Experience in Configuring and maintain security policies on multi-vendor **firewall**s and manage through **AlgoSec fire emblem** flow.
* Configured **ACLs** on multi-vendor firewalls for Internet Access requests for **servers, Protocol Handling, Object Grouping and NAT** Control using Object **NAT**.
* Good Understanding of Multiple Contexts in **ASA firewalls** and implemented different failover mechanisms among **ASA firewalls.**
* Experience on key requirements of **PCI DSS Compliance**.
* Experienced on working with **cisco switches 3850, CISCO 6880, Nexus 9k, 4500 access switches** for deploying as well as configuring it, and installation of malware detection **FireEye.**
* Worked with multiple models of **cisco ASA** including **5520, 5515-X, 5580** in single context and multiple context mode and configured them in **Routed** and **Transparent mode**.
* Worked on **Cisco 7200, 3800, 3600, 2900, 2800, 2600, 1800 series Router and Cisco 2900, 3500, 4500, 5500, 6500 series switches.**
* Worked with **Juniper** high performance edge **routers M320, T640, MX960** and **Switches EX2200 and EX4300.**
* Extensive hands-on experience with complex routed **LAN and WAN** networks, **routers and switches.**
* Good knowledgeof CISCO **NEXUS** data center infrastructure with **5000 and 7000 series switches (5548, 7010), including CISCO NEXUS Fabric Extender (223, 2248).**
* Worked on multi-vendor **load balancers** including **F5 Big IP LTM, Cisco ACE and VMware NSX between multiple centers.**
* Troubleshoot and Worked with Security issues related to **Cisco ASR 9K**, **Checkpoint, IDS/IPS and Juniper ASA firewalls.**
* Hands on experience on how to create different application policies in the **ACI including Tenants**, Application Network Profile (ANP), End Point Group (EPG), Contracts, Subjects and Filters
* Worked extensively on Cisco Firewalls, **Cisco PIX & ASA 5500 (5525/5585), Palo Alto 200 Series.**
* Worked on **Checkpoint Firewalls**, create the **policies** and **push the policies** on checkpoint and as well as other firewalls like **Cisco** **ASA** and Fortinet **firewalls**.
* Configuring **ACL** on **ISE** for making **policies**.
* Managed Core network upgrades and unified communications and **Identity Services Engine (ISE) deployment.**
* Monitoring and capturing the traffic with multiple network management tools like **Sniffer, Wire** **shark, Net flow Analyzer, Solar winds, source fire, HP Open View, Cisco Works, Cisco ISE**.
* Monitor the network traffic through Orion **Solar Winds** and Spectrum **syslog server**.
* Implemented multiple **VDC's** and **VPC's** along the **9k, 7K and 5K, utilizing VRF's** to segregate **routing** and configuring the **FEX** **modules with the parent switch**.
* Enhanced level of experience with **OSPF, BGP, and TCP/IP.**
* Configuring and implementing **Remote Access VPN** Solution**: IPsec VPN, any connect VPN, SSL VPN**.
* Experience with the implementation of **multicast/MPLS/l2vpn.**
* Experience in Network Management Tools and sniffers like **SNMP**, **HP-Open view**, **Wireshark** and **Cisco works** to support **24 x 7 Network Operation Center**.
* Experience in physical **cabling**, **IP addressing** and **Sub-netting** with **VLSM**, **configuring** and supporting **TCP/IP, DNS, installing and configuring proxies**.
* Plan, build, deploy, and maintain **ACI data center lab** utilized by internal parties.
* Currently working on migration to **Cisco ACI** and Nexus **9K ,7K, 6K, 5K switching** in a fully fault-tolerant design model.
* Hands on experience on stacking the **Meraki** switches, configuring **MX, MS, MR, Z3** devices in the network as well as configure them regarding the network plan, adding them in the **Meraki dashboard**.
* Worked on **Meraki dashboard** and add **new switches** in the existing network and remove old switches from the dashboard, create the **continuous monitoring path** in between the network.
* Support third party technologies within the **ACI ecosystem such as VMware ESX, Open Stack**.
* Create and deliver **ACI** training to **HTTPS** engineers globally.
* Experience with **CISCO ACE Load Balancer** and **CISCO ACE** to **F5 LTM** migration.
* Access control server configuration for **RADIUS** & **TACAS+**.
* Expertise with **802.11x wireless technology.**
* IP addressing and IP address scalability by configuring **NAT/PAT.**
* Integration of Cisco Identity Services Engine (**ISE**) within Greenfield environments, or with limited production and PowerShell
* Ability to Install, Manage & Troubleshoot Large Networks & Systems Administration on **Windows & Linux platforms in Development, Lab & Production Environments.**
* Hands on experience on Fabric Discovery Activity including Out of Band Configuration, Verifying the APIC Health, Verifying the LEAF Health and Verifying remote access to all the out of band management devices. Knowledge on **ACI Stretch** Fabric or **ACI Multi-Pod**
* Good knowledge of **CISCO NEXUS** **data center infrastructure** with **5000** and **7000 series switches includes** **(5548, 7010)** including **CISCO NEXUS Fabric Extender (2232, 2248**).
* Sound knowledge of **virtual firewalls** like **checkpoint VSX, IDS, IPS** as well as **encryption techniques**.
* Worked on **webserver** in **DMZ** network configuring the **firewalls units**, added **virtual IPs**, **creating security policy.**
* Monitoring and capturing the traffic with network management tools **Wireshark, SolarWinds, Cisco Works and Cisco ISE.**
* Software Design Data Center (SDDC) solution such as **Cisco ACI**, VMware NSX.
* Advanced **knowledge, design, installation, configuration, maintenance, migration and administration of Checkpoint Firewall R55 up to R77, all ASA models and Palo-alto firewalls including PA-5060 and PA-5050.**
* Experience with **Blue Coat URL filtering** with **whitelisting and blacklisting URL**, **creating rules** for content filtering.
* Expertise on cisco **IOS**, **Cisco IOS-XR**, **Cisco Cartos**, **Cisco NX-OS, JUNOS**.

**CERTIFICATION:**

Cisco Certified Network Associate (CCNA)

Cisco certified Network Professional (CCNP)

**EDUCATION:**

Master’s in Electrical Engineering from University of Bridgeport **(UB) in 2014**

Bachelor’s Degree from American international University of Bangladesh **(AIUB) in 2010**

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Cisco Routers** | Cisco ASR9k, GSR 12000, 7600, 7500, 7200 VXR, 3800, 3700, 2800, 2600 |
| **Cisco Catalyst Switches** | Catalyst 6500, 4000, 3550, 2900 |
| **Nexus Switches** | Nexus5548, 5596, 6000, 7009, 7018; Cisco Catalyst: 6506, 6509, 4928, 4948, 4507,4510, 3750,3560, and 2960 |
| **IP Routing Protocols** | BGP, OSPF, EIGRP, IGRP, RIP v1 & v2, IS-IS |
| **MPLS** | LDP, MPLS L3 and L2 VPN |
| **Load Balancing** | Cisco ACE 4700 series, F5 LTM, F5 GTM |
| **Firewalls** | Palo-Alto, Juniper, Cisco ASA 5500, Cisco PIX 500, Check Point r60, checkpoint r65, Bluecoat |
| **LAN technology** | Ethernet, Fast Ethernet, Gigabit Ethernet, 10Gigabit, Ethernet, Port Channel, VLANS, VTP, STP, RSTP, 802.1.Q |
| **WAN/core technology** | ATM, Frame-Relay, ISDN, PPP, HDLC, Channelized links T1/T3 Leased lines 128k - 155Mb (PPP / HDLC), Fiber Optic Circuits, ISDN, IWAN, SD-WAN |
| **VoIP Devices** | Cisco IP Phones, Cisco 5500, 6500 series Controller, Avaya 3000, 6000, 7200 series Controllers |
| **Wireless Technology** | Cisco AP, LWAP, Access Points, WLC |
| **Ticketing software** | Connect Wise, Remedy system, service-now, Jira, Cherwell |
| **Networking monitoring tools** | Solar winds, HPNA, Entuity, SNMP, Wireshark |
| **IPSEC/VPN Configuration** | PIX to Router, Router to Router, PIX to VPN wildcard client, Router to VPN wildcard client, PIX to PIX, fully meshed configurations |
| **Operating Systems** | Windows Server/8/7/Vista/XP, Nexus OS, Cisco IOS-XR, Linux, Unix (Mac OS) |
| **Microsoft Office** | Visio, Excel, PowerPoint, Word |
| **Languages** | Unix, Python, Basic in Perl and shell scripting |

**PROFESSIONAL EXPERIENCE:**

**Verizon, Basking Ridge, NJ( Remote ) January 2023 – Present**

**Sr Network Engineer**

**Responsibilities:**

* Involved in Designing and deploying **EIGRP, OSPF, BGP, MPLS- VPN** protocols and routing technologies for connecting data center to remote locations.
* Involved in complete **LAN, WAN** development (including IP address planning, designing, installation, configuration, testing, maintenance etc.).
* Provisioning **SD-WAN** service as automated failover solution **for MPLS VPN** by **Cisco** Firewall.
* Installed and configured **Cisco** Catalyst Switch, creating **VLANs** and assigning ports to the VLAN, configuration of routing protocols such as **OSPF, EIGRP and RIP.**
* **LAN** Refresh activity of **3850, 6504 E, 6506 E, 6509 E switches**.
* Deployed **Cisco Catalyst 6500, 4500, 4000, 3750, 3850, 3560 (Layer 2 through 7) and Cisco ASR 1000, 7000, 9000 series routers.**
* Working on with **LAN/WAN**, routing protocols, **QoS**, **troubleshooting**, and **scripting.**
* Designed, implemented, and managed **SD-WAN** solutions for enterprise clients using **Viptela** technology.
* Conducted network assessments to identify customer requirements and design optimal **SD-WAN** architectures.
* Implemented micro-segmentation strategies to enhance network security and reduce attack surfaces
* Configured and deployed **Viptela vEdge routers**, **vSmart controllers**, and **vManage orchestrator**.
* Implemented traffic engineering policies to optimize network performance and application delivery.
* Monitored and maintained the health and performance of **SD-WAN** networks, performing **troubleshooting** and resolving issues.
* Provided technical support and training to customers, assisting with the onboarding and adoption of **SD-WAN** solutions.
* Hands on experience working on testing and troubleshooting various circuit types – **Ethernet, T1/E1, T3/E3, BB, LTE.**
* Worked on Access **MPLS backbone routers (Cisco, Juniper)** and troubleshoot at various layers.
* Experience with design and implementation of **Data center** migration and **ACI**.
* Created **ACI EPGs** (End Point Groups) contract policies, **VRFs** and bridge domains for tenants
* Experience working on the Cisco **ACI/APIC** environment, configuring new **leaf** and **spine** switches to support the storage environment
* Worked Network Design and Implementation using Micro-Segmentation Techniques (e.g., VMware NSX, Cisco ACI)
* Working with **ACI** (**Spine and leaf**), **ACI Policies**, Tenants, Bridge Domain, Private Networks, Contracts and Filters.
* Deploying Cisco **ACI (Spine and leaf),** Configured **ACI Policies**, Tenants, Bridge Domain, Private Networks, Contracts and Filters.
* Involved in configuring **Cisco ASA Firewalls 5540/ 5550/ 5585** using CLI, Cisco CSM, ASDM for day-to-day maintenance.
* Worked on Migration of **Juniper SRX firewalls** for isolation of network segments and **VPN’s, ARS(9k,901,903).**
* Worked on **Panorama** to provides a centralized management interface for configuring, monitoring, and managing multiple Palo Alto Networks firewalls across distributed network environments.
* Configuration and integration of **Cisco Wireless LAN Controllers WLC** with **ISE** for performing **Dot1x authentication** to Wireless users.
* Actively participated in upgrading **fast Ethernet**, Layer 3 **switched/routed** LAN infrastructure from **Cisco catalyst to Cisco ISR** routers and switches at access level.
* Implemented and configured **Fortinet Firewall FortiGate 600, 800 series.**
* Implemented **WAN** network technologies like **MPLS** and **Frame Relay**, switching technologies like **STP**, switch and **VLAN** security on **L2** and **L3** layer **switches**.
* Experience on the implement and deployment of the following technologies: **Cisco Aironet network adopters, Light-weight access point, Cisco wireless LAN controller (WLC)**.
* Performed version upgradation of different equipment such as layer 2 bridges, Cisco ASR & ISR Routers, Fortinet Firewalls, Checkpoint and Silver Peak **SD-WAN Devices.**
* Working with support teams and vendors to support **data center** operations and projects.
* Assisted in the planning and execution of **Cisco IOS upgrades**, including version compatibility checks and backup procedures.
* Planned and executed Cisco **IOS upgrades** for multiple routers and switches, ensuring minimal downtime and maximum efficiency.
* Provided post-upgrade support and troubleshooting to address any issues and ensure smooth transition to the upgraded **IOS versions.**
* Coordinating with bridge calls, communication to engage resources and **vendors** to resolve issues.
* Assisting in network **troubleshooting** and provides input for **root cause analysis** for network related outages.

**ENVIRONMENT: Cisco 3560/4500/3750,6500 switches and Cisco ISR4221, ISR4331, ISR4431, ISR4451,** **ASR1002-X, ASR1001-X routers, Cisco Nexus 7K/5K/9k,** **Cisco Catalyst**, **Cisco ASA 500, Cisco ISE, F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, SD-WAN, VPN, HSRP, Cisco Viptela, Palo Alto, Bluecoat Proxy, FireEye, FortiGate, Fortinet.**

**JOHNSON & JOHNSON, Raritan, NJ January 2021 – January 2023**

**Sr Network Engineer**

**Responsibilities:**

* Experienced in Integration, configuration and maintenance of **Cisco Router, Catalyst Switches and Firewalls**.
* Datacenter upgrades from **C6500s** to Nexus **7k/5k/2k**, double-**VPC** between distribution and access, single-**VPC to servers**.
* Designing and deploying **EIGRP**, **OSPF**, **BGP**, **MPLS-VPN** protocols and routing technologies for connecting data center to remote locations.
* Designed and implemented a redundant **Cisco 802.11ag** **AP wireless** network using **IP phones**, **3750 switches and 2960 routers**.
* Configured **AWS** Identity Access Management **(IAM)** Group and users for improved login authentication.
* Configured, troubleshoot, and upgraded **Checkpoint** firewalls for clients, which included network and/or resource access, m software, or hardware problems.
* Establishing and maintaining of setup to Build and deploy the application to the **Cloud AWS.**
* Responsible for managing and setting priorities for the monitoring and maintenance of network systems, including **LANs, WANs,** Internet, intranet, wireless.
* Experience working on the **Cisco ACI/APIC** environment, configuring **new leaf and spine** switches to support the storage environment.
* Provisions remote authentication services **Cisco ISE and Cisco ACS for ACI integration**
* Well versed in overcoming the challenges faced when deploying **CISCO ISE** and experienced with the different authentication and authorization models within **ISE1.2, 1.3 and 1.4.**
* Collaborated with cross-functional teams to design and deploy secure network architectures.
* Provisions remote authentication services **Cisco ISE and Cisco ACS for ACI integration.**
* Used **Cisco ACI** (Application Centric Infrastructure) SDN architecture to reduce operating costs, automate IT tasks, for greater scalability and visibility in a data center environment.
* Configured **NAT** and **PAT** on the Cisco PIX Firewalls for the Internal Systems
* Worked on Cisco Routing and Switching using **3600, 3700, 3800, 5300, 6500, 7200, 7600Nexus 7k, Nexus 5k, Nexus 2k& ASR 9000, 1000** series routers, Meraki products.
* Network troubleshooting and fault analysis; hardware troubleshooting and repair.
* Trouble ticket generation and response; carrier interface and escalations.
* Configured Cisco **2821, 2921 and 3845** CE routers to change them from **EIGRP** to a complex MPLS environment that includes **VRF, IPSEC VPNs**, Broadband Tunnels, **HSRP** and **VLANs.**
* Configured **2960, 3560, 3750** and **4507** switches to add **VLANs** for wireless project, and QoS protocols for MPLS.
* Supported end user network **cisco ACI** infrastructure and trouble shot several implementations of **LTM and APM** configuration.
* Architected plan for migrating ACLs from **Cisco ASA** to **Palo Alto** Network firewalls.
* Worked on **AlgoSec** to optimize their security policies by analyzing and identifying redundant, unused, or overly permissive rules.
* Complete **Cisco ACS to CISCO ISE 2.2** migrations using automated and manual processes.
* Accessed Cisco Prime **NCS/WCS** and 5508 series Wireless Controller to manage wireless networks.
* Troubleshoot with **Cisco, Juniper, Riverbed, F5, Citrix.**
* Migrating Virtual Firewalls to Physical Firewall and **Cisco ASA** to **Palo Alto** Firewalls.

**ENVIRONMENT:** **Cisco Nexus 2K/5K/9k, OSPF, BGP, EIGRP, LAN, WAN, SD-WAN, VPN, HSRP, Cisco Meraki, F5, Checkpoint, Meraki, Palo Alto, Cisco ACI.**

**PRINCIPAL FINANCIAL GROUP, Des Moines, IA Sept 2018- Dec 2020**

**Network Engineer**

**Responsibilities:**

* Daily duties include operational issues, projects and on-call rotation.
* Working with **Cisco Nexus 2248** Fabric Extender, **Cisco Nexus 2232** and **Nexus 5500** series to provide a Flexible Access Solution for datacenter access architecture.
* Working experience with **Cisco catalyst (4500/6500/9000**) and **Nexus (9K/5K/2K)** platforms across the campus, datacenter and wan sites.
* Configuring, Maintaining the Routers and Switches and Implementation of **RIP, EIGRP, OSPF, BGP routing protocols and troubleshooting and configuring Spanning Tree protocol (STP), per VLAN spanning Tree (PVST), Rapid STP(RSTP) and Rapid per VLAN Spanning Tree (PVST+)**
* As part of Data Center fabric remediation/refresh project, deployed Cisco Nexus switches and implemented features like **FEX Links, VPC and VDC**
* Modified internal infrastructure by adding **switches** to **support server farms and added servers** to existing **DMZ** environments to support new and existing application platforms.
* Configure various **LAN switches such as CISCO 2900, 4500, 6500 switches and Access layer switches** for **VLAN, Fast Ether Channel configuration**.
* Involved in the activity of Data Center migration of regular Cisco catalyst switches with the new **Nexus 10GE & 40GE** interfaces and Supervisor.
* Data centers consolidation, design, management and supporting network activities.
* **Data Center** and End User switch configuration using both **L2/L3** connectivity.
* Configured, troubleshot and optimized routing protocol**: EIGRP and OSPF** for **lowest latency**.
* Expertise in maintenance of layer 2 switching tasks which advocate **VLAN**, **VTP,** **STP**, **RSTP**, **PVST**, **RPVST**, configuring of ether channel with **LACP and PAGP** along with troubleshooting of **inter-VLAN routing.**
* Involved in Switching Technology Administration including creating and managing **VLANs**, **Port security**, **Trunk-Ing Protocol, STP, Inter-VLAN routing and LAN security**.
* Configured, troubleshot and implement layer2 switching, **trunking, RSTP+, Ethernet channel**, **inter VLAN**.
* Configured **VLANs with 802.1q** tagging. Configured **Trunk groups**, **ether channels**, and **Spanning tree** for creating **Access/distribution and core** **layer switching** architecture.
* Assisted in network engineering efforts consistent with the infrastructure of an **Internet Service Provider** and support of such network services. Helped in designing and implementation of **VLAN** for the new users.
* Performed the **ACL** request changes for various clients by collecting source and destination information from them.
* Recently refreshed data center access layer with **Nexus 9k** to prepare the infrastructure for future SDA.
* Configure, install and support of Cisco's ASR **1001-X, 1002, ISR 4311, 4351, 2911, 3900** routers
* Built **VPN tunnels** to both 3rd party vendors like **AWS, Azure** and trusted remote sites using both **IPSec** and **GRE.**
* Experience on Site-to-Site and Remote Site **VPN**s using Cisco routers to Cisco routers, **Cisco Router to Check Point Firewall** and troubleshoot and modify existing VPN.
* Provisioning **SD-WAN** service as automated failover solution for **MPLS VPN by Cisco Meraki Firewall.**
* Migrating **VPN and MPLS remote sites to SD-WAN (Meraki)**
* Worked on Cisco **Meraki MX, MS, MR, Z3 series** devices. Hands on configuration and troubleshooting experience on **MX 67, MX 84, MS 250, MS 390, MR 52, MR 46 series and Meraki z3 teleworker.**
* Worked on setting up **full HA SD-WAN for critical sites**
* Use of **IPAM for managing the DNS entries** such as **A-Records, C-Names, TXT and SPF records.**
* Design, installation and documentation of the Cisco Wireless Access Point models **both3700/3800 series**
* Setting up of the needful **WLANs, SSIDs, AP groups** and actively troubleshooting the issues using both **Cisco prime** and **ISE**
* Working experience on the **Checkpoint Firewall** version **R80.30 and R80.40**
* Use of Smart Console to make the changes on the **secure gateways via SMS** and **Smart Log analysis**
* Experience using Cherwell **ticketing system**, **writing of change documents**
* Working under **Agile environment**
* Use of **HPNA** tool for device backups and configuration pushes.
* Performed troubleshooting, while maintaining trouble ticket tracking, following internal/external escalation procedures and customer notifications.
* In-depth expertise in the implementation of analysis, optimization, troubleshooting and documentation of **LAN/WAN** networking systems.
* Troubleshot and resolved **LAN/WAN** connectivity issues.
* Worked on **Wireshark** tool usage for necessary traffic analysis and troubleshooting
* Working experience with corresponding vendors, service providers and across teams

**ENVIRONMENT: Cisco 2960/4500/6500 switches and Cisco 800/2911/3900 ASR1001, ISR4000 routers, Cisco Nexus 2K/5K/9k, OSPF, BGP, EIGRP, LAN, WAN, SD-WAN, VPN, HSRP, Cisco Meraki, IPAM, Entuity, Jira, HPNA, Check Point**

**ADVANCD MICRO DEVICES, Santa Clara, CA Sep 2017- Aug 2018**

**Network Security Engineer**

**Responsibilities:**

* Hands on experience in Aruba S2500 switches, Aruba 7200, 3600 series wireless controllers, Aruba IAP 105, Airwave Products and clear pass Servers. Configuring & managing around 500+ Network & Security Devices that includes Cisco Nexus and Juniper MX Series Routers.
* Install, upgrade and configure **Next-Gen Palo Alto** Firewall series **PA-500, 3000, 5000, 7000.** Installed Palo Alto **PA-3060** Firewalls to protect Data Center.
* Configuration and troubleshooting of Cisco **7500, 7200vxr, 3800, 3600, 2900, 2800, 2600,1800,1700 routers**. Worked with Cisco Nexus, Catalyst and **Aruba wireless devices**.
* Working on routing protocols, **DMVPN, SD-WAN**, segmentation, WAN acceleration, and security.
* Worked on **Bluecoat proxy** to provide both client and server with web service encryption and decryption and digital signature authentication.
* Used **FireEye** to detect attacks through common attack vectors such as emails and webs.
* Implemented and administered Websense Web Security Gateway for web content filtering and DLP and improved network and system security through setup and ongoing maintenance of **Riverbed IPS** and **FireEye**.
* **Palo Alto** design and installation (Application and URL filtering, Threat Prevention, Data Filtering.
* Managed, installed and configured different type of equipment such as Alcatel Service routers 7750, layer 2 bridges such as ADVA and Overture, Silver Peak **SD-WAN** and Fortinet Firewalls.
* Creating object, groups, updating access-lists on **Palo Alto,** apply static, hide **NAT** using smart dashboard.
* Setting up **IPsec VPNs** in an enterprise setting on **FortiGate** Firewalls. Configured VPN's are managed through **Forti Manager,** A management system for **Fortinet Firewalls**. Firewalls towards the multiple Customer sites as backup path to the **Datacenter.**
* Involved in integration with SNMP, RADIUS and LogRhythm SIEM syslog server with **Palo Alto** and **checkpoint** firewall.
* Configuring, upgrading and verifying NX-OS operation system with OSPF, BGP.
* Designed and implemented NAT overload/PAT on **Cisco ASA 5585** and 5520 Firewall to provide address translation between private addresses of the network and public address over the internet.
* Configuring rules and Maintaining **Palo Alto Firewalls** & Analysis of firewall logs using various tools.
* Regular meetings with project Manager and security team to discuss **Palo Alto** Weekly Status and updates on changes made on the **firewalls**.
* Deploy **Cisco ISE on Nexus 5000/7000 routers, Cisco switches, and Cisco ASA and Firepower firewalls.**
* Testing new design and new Firewall policies and working with **Cisco ISE.**
* Configured **DIA policy** for applications like O365, Salesforce In **SD-WAN**.
* Deployed and managed company Firewall on **Cisco ASA 5585** to filter the incoming traffic. Used ASDM as well as CLI to configure and troubleshoot the firewalls.
* Experience with convert Checkpoint VPN rules over to the **Cisco ASA** solution. Migration with both Checkpoint and **Cisco ASA** VPN experience.
* Successfully installed **Palo Alto PA-3060 and -PA-5020 firewalls** to protect Data Center and provided L3 support for routers/switches/firewalls.
* Worked on setup **Cisco ASA** 5555-X firewall on IPsec VPN, **Palo Alto** IPsec **VPN** and Global Protect **VPN**, and AWS VPN solution.
* **Palo Alto** integration with VMware Virtual Desktop infrastructure.
* Fortinet Firewall administration configuration of **FortiGate 3000, 3815** series as per network diagram
* Led in-house and consultant team in **large-scale Linux server** upgrade for multinational consulting firm, which significantly **enhanced system performance**.
* Installed and configure the **Meraki wireless** in corporate office environment and monitor the performance of the Aps in the network consciously.
* Configure Virtual Servers, **Nodes, and load balancing Pools** in **F5 BigIP LTM**.
* Configured and deployed **BIG-IP LTM** 6900 for providing application **redundancy and load balancing**.

**ENVIRONMENT: Cisco 2948/3560/4500/3560/3750/3550/3500/2960, 6500 switches and Cisco 3640/12000/7200/ 3845/3600/2800 routers, Cisco Nexus 7K/5K, Cisco ASA 500, Cisco ISE, windows server 2003/2008: F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, SD-WAN, VPN, HSRP, Cisco Meraki, Palo Alto, Bluecoat Proxy, Checkpoint, FireEye, FortiGate, Fortinet.**

**CARNIVAL CRUISE CORPORATION, Miami, FL July 2016- Aug 2017**

**Sr. Network Engineer**

**Responsibilities**:

* Installing, configuring **Cisco Catalyst switches 6500,3750&3550** series and **configured routing protocol OSPF, EIGRP, BGP with Access Control** lists implemented as per Network Design.
* Performed configuration of **RADIUS, and TACACS** along with other standard global configurations on existing production routers and switches.
* Configuration of stateful firewalls, validating, stress testing, and working with **Next-Gen firewall** and packet inspection technology.
* Worked with team Managing and configuring **Aruba Wireless controller devices (7210, 7240**) and **Cisco Access Points.**
* Deployment and configuration of Cisco Wireless controller models such as **5520/2504.**
* Code upgrade and licensing of the **controllers** as required.
* Deploy and manage **FortiGate Firewalls**
* Provide remote support for partners on installation and configuration problems and issues related to **SDA or SD-WAN, DNAC.**
* Configuration, maintenance and administration of **Palo Alto Networks Firewalls**.
* Experience in Policy based filtering using **Palo Alto Firewalls**.
* Creating **firewall policy rules** based on both AD and IP as per the business need and resolving issues as they occur
* Design, and configuring of OSPF, BGP on **Juniper Routers and SRX Firewalls.**
* Configuring RIP, OSPF and Static routing on **Juniper M** and **MX series Routers**
* Configuring and managing Aruba Instant Access Points 215, 225 and troubleshoot network connectivity issues
* Deployment, configuration, and management of 802.1x solutions to include Cisco Identity Services Engine (ISE)
* Designed & Deployed **Cisco ISE 1.2/1.3** for **Enterprise RADIUS** Authentication with Active Directory, RSA Secure ID, and Proxy Radius Services to Cisco ACS.
* Participated in support (down to individual tickets assigned to users) for all ISE related applications (Any Connect, AMP) and services
* Configuring rules and Maintaining **Palo Alto Firewalls** & Analysis of firewall logs using various tools.
* Implemented security from outside and web access using Dynamic and Static **NAT, PAT**.
* Implemented antivirus and web filtering on Juniper SRX 240 at the web server as well as configuration of E **F5 load balancers** and **Cisco** load balancers (CSM, **ACE and GSS**).
* Enabled user authentication using **TACACS** server by implementing **AAA** security using **TACACS+ and Radius**.
* Experience on deployment, troubleshot and find out the RCA for **riverbed.**
* Managed **ASA and FWSM 3.X** using both **Cisco Adaptive Security Device Manager (ASDM), Cisco Security Manager (CSM)** and CLI.
* Configured, monitored and troubleshoot **Cisco's ASA 5500** security appliances, failover **DMZ Zoning.**
* Monitor, troubleshoot, test and resolve **Frame Relay, ATM, MLPPP, PPP, and Dial-up.**
* Configured **Panorama web-based management** for multiple firewalls.
* Validate **HTTP/TCP/UDP** protocol compliance, **Allow/Deny** method and configuring security **policy blocking.**
* Configured and troubleshoot **F5 LTM, GTM** series like **6400, 6800, 8800** for the corporate applications and their availability.
* Experience working with **F5 LTM/GTM** network load balancers for various applications depending on the requirements.
* Configuring iRules on **F5 LTM's** as requested to divert URL, URI traffic to respective pools.
* Strong understanding of **F5 iRules (F5’s TCL scripting language)** enabling   
  customization of application load balancing solutions through the control and   
  direct manipulation of the application traffic.
* Experienced with F5 configuration CLI including   
  both **BigPipe and Traffic Management Shell (TMSH).**
* Maintained high availability of resources with **F5 BIG-IP load balancer** based on different load balancing.
* Deployed **LTMs and GTMs** in **DMZ** environments with FIPS solutions.
* **Cisco ACI** experience for Multi-Site deployment, operational and implementation level
* Enterprise Network Design experience for **ACI Network**
* Strong in **ACI design**, operational and implementation procedures.
* Creating Wide **IPs** with various **load balancing** methods like, **Global Availability**, **Topology** and **round Robin.**
* Support **Blue Coat Proxy** in explicit mode for users trying to access Internet from **Corp Network**.
* Troubleshooting connectivity issues through **Blue coat** as well writing and editing **web policies**.
* Configured Network virtualization **VMWare ESX server**, connection and licensing, create template to deploy **VMs** **in vSphere**. Setting up access groups, grant administrative roles.
* Experienced with Network Monitoring tools such as Service now and **SolarWinds**
* Being part of **L3 escalation team**, receive the call from **L2 team** during the on-call time.

**ENVIRONMENT**: **Cisco 3750X, 3850, 6509E, 6506E, 6504E switches, Cisco ASA5510, Riverbed, WLC, cisco prime Checkpoint, Palo Alto, Cisco 3660/3845/7609 Routers, Cisco ISE, Cisco ASA Firewalls 5540/ 5550/ 5585, Cisco call manager (CUCM), Cisco IP phones, FortiGate, Fortinet, VMware, VLAN, OSPF, BGP, SD-WAN, MPLS, HSRP, VRRP, GLBP, ASA 5580, Cisco, Meraki, Nexus 5K, F5 LTM, F5 GTM**

**BARCLAYS, Wilmington, DE January 2014– July 2016**

**Sr. Network Engineer**

**Responsibilities**:

* Configuring RIP, OSPF, EIGRP and Static routing on **Juniper M and MX series Routers**.
* Responsible to evaluate, test, configure, propose and implement network, firewall and security solution with **Palo Alto** networks.
* Configuring **Palo Alto’s** for **inline** use and Adding **signature attacks on prevention lists**.
* Used Cisco **ACI (Application Centric Infrastructure)** SDN architecture to reduce operating costs, automate IT tasks, for greater scalability and visibility in a **data center** environment.
* Providing support for decommission of the **3750** **switches** with **3850 switches**.
* Worked in the deployment of Cisco 6500 to Nexus in a **data center** environment.
* Hands on experience on **F5 load balancers**, its methods, implementation and troubleshooting on **LTMs** and **GTMs**.
* Configured **F5 GTM** solutions, which includes Wide IP, Pool Load Balancing Methods, probers and monitors.
* Supported a Large **F5** application delivery **(LTM, GTM, ASM, APM)** infrastructure of about one hundred nodes.
* Assists in **CISCO ACE** to **F5 LTM** migration with implementing **F5 BIG-IP LTM** and **GTM** in enterprise solution and update the **patch** with proactively monitors for any security vulnerability that may impact the **F5 Appliance or the application**.
* Understanding of Cisco ACI (Application Centric Infrastructure) and other SDN technologies.
* Used Cisco **ACI (Application Centric Infrastructure) SDN architecture** to reduce operating costs, automate IT tasks, for greater scalability and visibility in a data center environment.
* Creating, Customizing **iRules, Virtual servers**, and **nodes in F5 load balancer**.
* Implementation of Access Lists for **allowing/blocking** desired **traffic.**
* Administer **Palo Alto** **Firewalls** to allow and deny **specific traffic** and to **monitor** user usage for **malicious activity** and future **QoS.**
* Network redesign and configuration **WAN and LAN** infrastructure utilizing redundant **Cisco ASA firewalls**, **Cisco switches and routers** over **MPLS and VPN** connectivity.
* Designing, implementing LAN/WAN configurations on **Cisco 5K**, **catalyst 6500 switches**.
* Involved in complete **LAN, WAN development (including IP address planning, designing, installation, configuration, testing, maintenance etc.).**
* Worked on **ASA (5540/5550) Firewalls**. Implemented Security Policies using **ACL,** **Firewall,** **IPSEC**, S**SL**, **VPN**, **IPS/IDS, AAA (TACACS+ & RADIUS)**.
* Hands on experience on **IPsec VPN**, **Remote access VPN**, create a secure tunnel over public network and worked on various VPN protocol like **PPTP, L2TP, L2F**.
* Possess good experience in configuring and troubleshooting **WAN technologies like MPLS, T1, T3, DS3 and ISDN.**
* Worked on **Application centric infrastructure (ACI) and** built on a network fabric that combined timetested protocol with innovation.
* Integrate **Data Center** technologies such as **ASR**, **Catalyst**, **Nexus**, **UCS** and Storage as well as Layer 4-7 devices including but not limited to Firewalls and Load balancers with **ACI**.
* Provide technical support for **ACI (Application Centric Infrastructure), APIC** technologies.
* Back up a Cisco **IOS** to a **TFTP server** and Upgraded and restored **a Cisco IOS** from **TFTP server**.
* Configuring **VLANs/routing/NATING** with the **firewalls** as per the network design.
* Performing network **monitoring, providing** analysis using various tools like **Wire-Shark**, **Solar-winds** etc.

**ENVIRONMENT**: **Cisco 3750X, 3850, 6509E, 6506E, 6504E switches, Cisco ASA5510, Checkpoint, Palo Alto, Cisco 3660/3845/7609 Routers, VLAN, OSPF, BGP, MPLS, HSRP, VRRP, GLBP, ASA 5580, Nexus 5K, F5 LTM, F5 GTM.**