

Rojin Raja
Senior Network Engineer
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SUMMARY:

- 8+ years of experience in Network design, Security, Tier support of Networks in various environments.
- Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support.
- Extensive experience working on **Cisco** routers/switches in complex environments with multiple **ISPs**.
- Experience working on **Cisco Catalyst** Series 3750, 4500, 4900, 6500; **Nexus** 2000, 5000, 6000 and 7000 series switches.
- Worked on **Cisco** 7200, 3800, 3600, 2800, 2600, 1800 **series Routers** and **Cisco** 2900, 3500, 4500, 5500, 6500 and **Nexus** 5K **series switches** and Sound knowledge of Routing and Switching concepts and **MPLS design**.
- Expert in dealing with Networking Protocols and Standards such as **TCP/IP, OSI, UDP, Layer 2 (VLANs, STP, VTP), Routing Protocols (RIP, EIGRP, OSPF, BGP), WAN technologies (Frame relay, IPSec, VPNs, MPLS), GoS**.
- Conversions to **BGP WAN** routing. Which will be to convert **WAN** routing from **OSPF to BGP** (OSPF is used for local routing only) which involves new wan links.
- Experience in troubleshooting NAT configurations, Access-Lists (ACL), and DNS/DHCP related issues within the LAN network.
- In-depth expertise in the analysis, implementation, troubleshooting & documentation of LAN/WAN architecture and good experience on IP servers.
- Mature background in network design, installation, configuration, maintenance, support, administration and monitoring of all aspects of IT devices and networks with emphasis on Cisco and Viptela SD WAN
- Monitor network with Solarwinds NPM, Cisco ASDM, Aruba Airwave, Aruba ClearPass, and Symantec Web Gateway
- Experience in installing and configuring DNS, DHCP server.
- Configure VRRP & GLBP and VLAN Trunking 802.1Q & ISL, STP, Port Security on Catalyst 6500 switches.
- Experience working on Cloud Computing Virtualization using **VM ware ESXi 4.0** and **Windows Hyper-V**.
- Installed and implemented & troubleshoot the Network Virtualization through **VM Ware** and **NSX**.
- Experience on Network Monitoring & Testing tools such as **Wireshark/Ethereal, Cisco Works**, and **IXIA**.

- Troubleshoot end-to-end call flow issues in enterprise market involving various **VoIP** elements.
- Intensive applications of Network automation tools and testing for network automation and configuration management using Ansible, **Python scripting**.
- Extensive working experience in **AAA** protocols such as **RADIUS, TACACS+** and **Cisco ACS**.
- Implemented **VSS** on **Cisco catalyst** 6509 and 6513 switches.
- Experience on **Monitoring and Management tools** such as HP Open view, Splunk, TCP dump, Solar Winds and Wireshark, Cisco Prime, NetFlow, Riverbed.
- Extensively used **TCP/IP** tool like TELNET for remote login to the routers and SSH for secure login.
- Working experience performing Incident, change management using ticketing tools such as **ServiceNow, Remedy**.
- Utilize **Remedy** ticket system to update network status. Exposure to **Cisco WAAS, WCS**.
- Installed and configured Cisco Unified Communications Manage (UC).
- Experience in working with **Cisco Nexus** Switches and Virtual Port Channel configuration.
- Responsible for Configuration and administration of firewalls, which includes **Checkpoint, Juniper, Fortigate and Cisco ASA firewalls**.
- Experience in risk analysis, security policy, rules creation and modification of Cisco ASA networks.
- Daily network operation & support (BGP, MPLS, EIGRP, QoS, WLC, F5, ASA, ISE, wireless, SolarWinds and VoIP).
- Created documents for various platform VOIPs including Nexus 7k, ASR9k, and ASR1k enabling successful deployment of new devices on the network.
- Monitored, Troubleshooted and maintained various networking equipments such as **Riverbeds, DigiBox, MT2011 Guest Wi-Fi, AWS Snowball**, etc.
- **Checkpoint** Firewall troubleshooting and policy change requests for new IP segments that either come on line or that may have been altered during various planned network changes on the network.
- Replaced aging **Checkpoint** firewall architecture with new next generation **Palo Alto** appliances serving as firewalls and URL and application inspection.
- Extensive experience in monitoring and designing security policies on **Palo Alto** network firewall for controlling what traffic needs to be allowed or blocked based on customer requirements.
- Experience in configuration of **Juniper security appliances** SRX 220, SRX 240, SRX 550, NS 50, SSG 550M, SSG 520M.
- Established **VPN** tunnels between **Cisco routers and Cisco Firewalls** and **Palo Alto** Firewalls.
- Familiar with products such as **Cisco ISE, Cisco ASA 5500 series firewalls and Cisco ACE 4710 Load balancers**.
- Performed IOS Software upgrades on **switches** 6509, 4510, 3750 and **Cisco ASR** for compatibility with **Cisco ISE**.
- Implemented **Cisco Application Centric Infrastructure** (ACI) as a solution for data centers using a Spine and Leaf architecture.

- Used **Cisco ACI** Fabric which is based on Cisco Nexus 9000 series switches and Cisco Application Virtual Switch (AVS).
- **Cisco ASA and FWSM, Fortinet FortiGate; F5 AFM, A10 WAF, IDS/IPS** systems, and general knowledge of security features and protocols.
- Experience in **F5 Load balancers** such a **BIG-IP LTM and GTM** modules.
- Mapped, Network Diagrams and physical identification in **MS Visio**.
- Provide hands on management of Data Center services, including **rack** and **cable management** Experienced in the evaluation, testing, configuration and implementation of Palo Alto firewall security solutions across enterprise networks. Experience also includes working with other vendor firewalls like Cisco's ASA Firewall, Checkpoint Firewall and the Fortinet Firewall.
- Experience in adding Rules and Monitoring Checkpoint Firewall traffic through Smart Dashboard and Smart View Tracker applications.
- Experience with the Infoblox IP Address Management tool.
- Good knowledge in Network function virtualization.
- Knowledge & experience in network protocols & packet analysis.
- Extensive understanding of networking concepts, (IE. Configuration of networks, router configuration and wireless security, TCP/IP, VPN, Content Filtering, VLANs, and routing in LAN/WAN, Ethernet Port, Patch Panel and wireless networks.
- Excellent troubleshooting skills; tenaciously committed to the thorough resolution of technical issues.
- Experience in working with Cisco Nexus Switches and Virtual Port Channel configuration.
- Administration of production Windows Servers infrastructure that includes Domain Controllers, IIS Web Servers, SharePoint, File and Print and FTP/SFTP servers.

TECHNICAL SKILLS:

Technical Skills:

Protocols & Standards	TCP/IP Protocol Suite, OSI Model, Ethernet, Token Ring, FDDI, OSPF, EIGRP, RIP, BGP, HSRP, L2/L3/L4/L7 Switching, VLAN's, VMPS, VTP, IPv4, IPv6, ATM, VoIP, LAN, SSL, SNMP V1, V2, T1, DS3.
AWS	(EC2, VPC, ELB, S3, EBS, RDS, Route53, ELB, Cloud Watch, CloudFormation, AWS Auto Scaling, Lambda, Elastic BeanStalk)
Switches	Nexus 2K/5K/7K, Cisco Catalyst 2900, 3500 ,3700,6500, 4500, 3850,3560, 3750, 2960
Switching	LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Ether channels, Transparent Bridging
Routers	Cisco 7600, 7200, 3800, 3600, 2900, 2800, 2600,1800,1700
Routing	OSPF, EIGRP, BGP, RIP v1/v2, PBR, Route Filtering, Redistribution, Summarization, and Static Routing
WAN	Metro Ethernet, MPLS/VPN, Frame Relay, ADSL, TDM (T1/T3), and OTV configuration.
LAN	Trunking Protocols, Link Aggregation, vPC/vPC+, VTP/STP, FCoE, Gigabit Ethernet.

Firewall Platforms	Checkpoint (NGX R65, 3100, 5100, 5900), Cisco Firewalls (ASA 5505, 5506-X, 5585), Palo Alto Networks (PA series 2K, 3K and 5K) with panorama 8.0, WAF
Network Monitoring Tools	CSMA/CA, Wire shark, Nmap, Nessus, HP OpenView, OpManager, PRTG Packet Sniffer Servers, Cramer Network inventory and Activation Engine.
Security	Anomaly Detection in attack prevention system, IPS/IDS, Penetration Testing and Web application testing, Buffer Overflows, Cross Site Scripting, Session Management, Cisco PIX, and Security attacks like DoS, DDoS, Spoofing, Nessus & Cisco IOS, Cisco Works

Education: Bachelor of Technology in Electronics & Communication Engineering Karunya University, Coimbatore, Tamil Nadu, India.

CERTIFICATIONS:

- Cisco Certified Network Associate (CCNA)
- Cisco Certified Network Professional (CCNP)

PROFESSIONAL EXPERIENCE:

Hudson's Bay Company, Jackson, MS
Sr. Network Engineer

May 2019 – Present

Responsibilities:

- Worked on the network design, installation, configuration, maintenance, support, administration and monitoring of all aspects of IT devices and networks with emphasis on Cisco and Viptela **SD WAN**.
- Extensively worked using **AWS services** along with wide and in depth understanding of each one of them.
- Highly skilled in deployment, data security and troubleshooting of the applications using AWSservices.
- Proficient in AWS services like **VPC, EC2, S3, ELB, AutoScalingGroups(ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail**.
- Experienced in creating multiple **VPC's** and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
- Created **NAT gateways and instances** to allow communication from the private instances to the internet through bastion hosts.
- Involved in Configuration of **Access lists (ACL)** on **checkpoint** firewall for the proper network routing for the B2B network connectivity.
- Good understanding of VoIP implementation and protocols such as H.323, RTP, and SIP.
- Used security groups, **network ACL's, internet gateways and route tables** to ensure a secure zone for organization in AWS public cloud.

- Written cloud formation templates in **json** to create custom VPC, subnets, NAT to ensure successful deployment of web applications.
- Worked, Configured and Troubleshooted **Cisco Catalyst** Series 3750, 4500, 4900, 6500; **Nexus** 2000, 5000, 6000 and 7000 series switches.
- Worked, Configured and Troubleshooted **Cisco** 7200, 3800, 3600, 2800, 2600, 1800 **series Routers** and **Cisco** 2900, 3500, 4500, 5500, 6500 and **Nexus** 5K **series switches** and Sound knowledge of Routing and Switching concepts and **MPLS design**.
- Deploying **layer 2 security** in server farms by configuring the switch for 802.1x port-based authentication.
- Setting up **VLANs** and configuring **ISL trunk** on the fast-ethernet channel between switches.
- Responsible for the maintenance and troubleshooting of connectivity problems using **Ping, traceroute**.
- Performing network monitoring, providing analysis using various tools like **Wireshark, Solar Winds, Orion** etc.
- Documented all work progress, including any errors or outstanding issues from nightly conversions, and provided status updates to management and team members.
- Configured **BGP** routing, troubleshoot **T1** and Ethernet connections, verified all nodes were online and functional after conversion, and decommissioned Cisco routers and switches as needed per project.
- Provided tier 2 and 3 supports to resolve complex technical problems.
- Configured **site to site VPN** connections for remote and temporary offices.
- Established **VPN** tunnels between **Cisco routers and Cisco Firewalls** and **Palo Alto** Firewalls.
- Experience in Palo Alto design and installation (Application and URL filtering, Threat Prevention, Data Filtering). I was involved in supporting, CUCM 8.x and Unity connection 8.x, VG224. Troubleshoot all the issues related to CUCM and unity.
- Experience on Network Monitoring, NPM, Testing tools such as Wireshark/Ethereal, Cisco Works & IXIA. Experienced in Cisco Unified Communication Manager (CUCM), Cisco Unity Connection (CUC), Unified Contact Center Express (UCCX), Cisco Unified Serviceability, Cisco Unified Intelligence Center, Engage, Cisco Jabber, CUBE, Voice Gateways and provisioning SIP Trunking
- Experience with deployment of Palo Alto firewalls for different NAT, video conferencing traffic.
- Integrating **Panorama** with **Palo Alto** Firewalls, managing multiple **Palo Alto** Firewall using **Panorama**.
- Excellent written & verbal communication skills to effectively convey technical concepts to the Business
- Experience working in a customer facing capacity and excellent communication skills
- Proven ability to work with and train fellow team members; strong mentoring skills

Telnet Inc., Rochester, NY
Sr. Network Engineer

May 2018–May 2019

Responsibilities:

- Installing and configuring new Cisco equipment including **Cisco catalyst switches** 3850, 3750, **Nexus** 5548 and **Nexus** 2k as per the requirement of the Organization.
- Designing and Implementation of (LAN) **VLANs**, **VTP**, **Spanning Tree** (STP), Trunking (dot1q and ISL) and Ether channel on **CISCO Catalyst Switches** 3500, 3650, 3850 6500, 7600.
- Configuring, Monitoring and Troubleshooting **Cisco's ASA 5500** security appliance, Failover **DMZ** zoning and configuring **VLANs/routing/NAT** with the firewalls as per the design.
- Established **IPSEC**-VPN tunnels with ASA 5500 series Firewall between some branch offices & headquarters.
- Leading daylight **SD** WAN conversion project portion of a 8 person crew on 2800 branch Viptela over VMware and Cisco network, each site served by Private MPLS / Broadband / LTE.
- Member of Windstream's Data Network Operations Center - IP Division (DNOC IP) where I managed and troubleshoot the IP network for data, enterprise, and cloud/hosted and business customers.
- Responded to trouble tickets involving layer 3 connectivity and reachability, hardware configuration issues for devices on **Windstream's** data network
- Successfully Design and installed Palo Alto PA-3060 firewalls to protect Data Center and provided L3 support for routers/ switches/ firewalls.
- Configuring rules and Maintaining Palo Alto Firewalls & Analysis of firewall logs using various tools.
- Troubleshoot, Identify and Resolve all VoIP & IPT related incidents over different technologies/Vendors: CUCM, CUC, IM&P, CUACA, UCCE/UCCX, Expressway, Cisco IOS Gateways, Telepresence, Microsoft Right Fax, Inform cast Paging Sever. Support after hours cut-over/migration issues, opening trouble ticket with NOC for special support.
- Responsible for Troubleshooting & upgrading **Avaya** IP 500, UC modules, Combo cards, PBX's and Digital station 8
- Experience with working on Palo Alto Next-Generation Firewalls Security profiles
- Worked with the installation of Palo Alto firewall, migrated with a team from predominantly checkpoint environment to Palo Alto global solution.
- Modified and reconfigured Two factor authentication BIG-IP APM authentication.
- Created Access policies on APM module using AD and LDAP authentication for external clients.
- Determine client requirements from the SOW and provide designs for complex Network Solutions including Internet, MPLS- IP VPN, SD-WAN, Broadband, and Ethernet.
- Study and make key recommendations to customer current design to account for the migration to the SD-WAN technology.
- Built over 100 specific Boot Configuration for SD-WAN Devices to call back to a specific Director to establish secures Overlay Tunnels over different Transports.
- Worked on F5 Enterprise Manager 3.1 version to manage multiple F5 LTM devices from single-pane view.
- Create additional site-to-site IPsec VPN to connect SD-WAN to Zscaler for cloud based Security.
- Hands on Experience configuring and testing F5 I Rules using Browser(IE), HTTP watch.
- Worked on F5 LTM series like 1600, 6400 and Viprions for the corporate applications and their availability.

- Automated network implementations and tasks and designed monitoring tools using python scripting
- Installing and configuring F5 Load balancers and firewalls with LAN/WAN configuration.
- Worked on F5 LTMs & GTMs to improve web application delivery speed and replication through and between distributed global data centers.
- Involved in iRule management like loading rules, writing iRule syntax using **TCL language**.
- Worked with **Blue coat** and handled the Trouble Tickets on **F5** Load Balancers.
- Configuring Virtual servers (standard and performance layer 4), pools and nodes on **Viprions**.
- Configured Local & Central Bypass list for **blue coat proxy** server.
- Experience working with Juniper devices like EX-2200, EX-4200, EX-4500, MX-480, M Series, SRX650, SRX240 and Juniper **J series** j230, **M** 320 and MX960 routers. Worked on **Juniper EX4200 & EX4550 switches**.
- Responsible for installing and configuring **Juniper QFX3500** switch. Rebuilt old HQ with core and distribution with new **Juniper QFX** core switches and **EX4300** distribution switches.
- **Worked on Juniper SRX 5800 firewalls** to create policies using J-Web User Interface.
- Dealt with implementation of **Cisco ASA 5585** devices and **Juniper SRX 550** devices to apply security policies on it.
- Worked with the installation of **Palo Alto** firewall, migrated with a team from predominantly **checkpoint** environment to **Palo Alto** global solution.
- Experience with convert Checkpoint VPN rules over to the Cisco ASA solution. Migration with both Checkpoint and Cisco ASA VPN experience.
- Deep understanding of cloud technologies, such as IaaS, PaaS, Software-defined networks (SDN), Network Functions Virtualization (NFV), Openstack, and other emerging technologies
- Migration from Cisco firewalls to Palo **Alto** firewalls platforms **PA 4000** and **PA 500** and **PA-200** firewalls network technologies including Optical **VoIP VPN SAN** switching and routing.
- Manage Cisco **VOIP** Networks using Cisco Unified Call Manager (Version 11.x,10.x,9.x,8.x), Cisco Telepresence, Voice Gateways, **UCCX**.
- I Upgraded **ASA 5505S** to **5525X** with **Firepower**.
- Setup high availability **ASA** pair with **Firepower**.
- Assisting with the design and deployment of a **Cisco Firepower** cluster in the core.
- Implemented **Cisco Application Centric Infrastructure** (Cisco ACI) as a solution for data centers using a Spine and Leaf architecture
- Troubleshoot complex routing and switching issues in a **HSRP** and **GLBP** environment.
- Performed Troubleshooting and monitored routing protocols such **RIP, OSPF, EIGRP & BGP**.
- Configuration and Monitoring of **Citrix NetScaler** (Both MPX and VPX).
- Worked on **VM Ware** migration from physical servers to virtual servers.
- Coordinate with multiple vendors (Cisco, Juniper, etc.) to troubleshoot network outages and issues
- Configuration and troubleshooting of **CSM**, integration with **ASA** devices.
- Working on security levels with **RADIUS, TACACS+**.
- Create a Virtual Network on **Windows Azure** to connect all the servers.
- Configured inside **ACL**, outside **ACL**, inside, outside interfaces.
- Configuring Static, **BGP** and **OSPF** Routing Protocols on Cisco Routers

- **Environment:** Cisco 3850/3750/3500/3650/6500/7600 switches, SA 5500 firewall, Palo Alto PA-3060 firewall, ASR router 1002/1006, juniper EX-2200, EX-4200, M-320 router, juniper SRX 5800 Fire wall, F5 LTM 1600/6400, OSPF, BGP, EIGRP, VLANs, LAN, WAN.

Dell, Cleveland, OH
Sr. Network Engineer

Nov 2016– Apr 2018

Responsibilities:

- Maintain, upgrade and commission of branch and campus sites connectivity into data centers and create a seamless network hardware standard across all North American branches.
- Installing, Configuring and troubleshooting **Cisco Routers** (ASR1002X, 3945, 3845, 2800, 3600) and Switches to perform functions at the Access, Distribution, and Core layers.
- Installing, Maintaining and Troubleshooting of **Cisco ASR** 1K, 7200, 3925E and 2951E Routers and **Cisco** 6500, 4510, 4500-X, 4948, 3560X, 3750X and 2960S Switches for deployment on production.
- Responded to trouble tickets involving layer 3 connectivity and reachability, hardware configuration issues for devices on Windstream's data network
- Identify and mitigate DDos attacks on the **Windstream** data network
- Responsibilities include software upgrade, license activation, configuring/installing new ASR router 1002, 1006, Nexus **switch** 9000, 5000, 3000, 9504, 9300, 3200, 2308, F5-5050 and maintaining network documentation.
- Experience working with High performance data center switch like **nexus** 9000, 7000 **series**.
- Experience in configuring **VPC** (Virtual Port Channel), **VDC** (Virtual Device Context) in **Nexus** 7010/7018.
- Worked extensively in Configuring, Monitoring and Troubleshooting **Cisco's ASA** 5500.
- Designed and implemented **DMZ** for Web, Mail & **FTP** Servers using **Cisco ASA5500 Firewalls**.
- Configured **Nexus** 2000 Fabric Extender (FEX), which acts as a remote line card (module) for the **Nexus 5000** to connect servers and storage devices.
- Configuration of Fabric path and connectivity between **Nexus** 5K and **Nexus** 7k.
- Worked as a part of data center deployment where we converted from **Cisco** 6500 to **Nexus**.
- Worked extensively on **Cisco ASA** 5500(5510/5540) and experience with deploying rules to the **Cisco ASA** solution.
- Experience with configuring **FCOE** using **Cisco nexus** 5548.
- Hands-on Experience with **CISCO Nexus** 7000, **Nexus** 5000, and **Nexus** 2000 platforms.
- Experience configuring **VPC** (Virtual Port Channel), **VDC** (Virtual Device Context) in **Nexus** 7010/7018.
- Automated network implementations and tasks and designed monitoring tools using **python scripting**

- Worked on **F5 BIG IP LTM** 3600 load balancers to configure Nodes, Pools and **VIP**'s on a need basis.
- Involved in troubleshooting of **DNS, DHCP** and other IP conflict problems
- Configured **DNS** and **DHCP** for servers using **Infoblox**.
- Used **F5 GTM** for external **DNS** resolutions configured all listeners and created all zone files, A record and Names.
- Completed basic configurations on the **F5 Big-IP LTMs** and **GTM** load balancer on existing network to split traffic on web-servers.
- Server load-balancing utilizing **F5 LTM-Big IP**, including **APM, ASM** and viprion device modules.
- Configured one-time password for **BIG-IP APM** to add more security at the time of initialization of the application
- Experience with Using **GTM, APM & LTM F5** component to provide 24"7 access to applications.
- Experience with SDN/NFV technologies including **Open Stack Neutron, VM ware NSX, Open flow, Open** daylight, Open v Switch, Open Contrail, or **Cisco ACI**.
- Configure **EPG**, update **APIC**, implement access and fabric policies in **Cisco ACI** environment.
- Provisioning ports in **Cisco ACI** to support SAN, **VoIP**, and hypervisors.
- Configured Voice ports and dial peers on the call manager for the **VoIP** call to reach remote destination.
- Experience with **UCCX** scripting, Cisco collaboration and Unified Communication portfolio.
- Provided proactive threat defense with **ASA** that stops attacks before they spread through the network.
- Successfully Design and installed **Palo Alto PA-3060** firewalls to protect Data Center and provided L3 support for routers/ switches/ firewalls.
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- Configured and created wireless sites using the **Cisco Meraki** System dashboard.
- Implemented site to site **VPN** on **Cisco** Meraki MX64, MX65, MC84, and MX400.
- Implementing **Cisco Meraki** Wireless network.
- Experience with LAN protocols like **VSS, STP, RSTP, MST, VTP, VLAN**.
- Administrated LAN and WAN with of TCP/IP, NAT, PPP, ISDN and associates network protocols and services.
- **SDN/NFV** performance testing with Spirent vSTC and Ixia IxVM
- **NFV** as a Service solutions studies (Radware vDirect and F5 BIG IQ)
- Configured Cisco ISE for Domain Integration and Active Directory Integration.
- Configured **Cisco ISE** for Wireless and Wired 802.1x Authentication on **Cisco Wireless LAN** Controllers, Catalyst Switches, and **Cisco ASA** Firewalls.
- Responsible in troubleshooting on **Cisco ISE** added new devices on network based on policies on **ISE**.
- Configured and troubleshooting **Aruba** Wireless products like Access Points and Mobility Access Switches.
- Performed site refreshes on **Cisco switching** and **Aruba** wireless infrastructure.

- Hands on experience in **Aruba** S2500 switches, **Aruba** 7200, 3600 series wireless controllers.
- Migrated from **Cisco** 3650 switches to **Aruba** 3810 series switches.
- Experience with Virtualization technologies like installing, configuring, **VMWare vSphere**. Creation, management, administration and maintenance of virtual servers and clients
- Experience with deployment of **Palo Alto** firewalls for different **NAT**, video conferencing traffic.
- Integrating **Panorama** with **Palo Alto** Firewalls, managing multiple **Palo Alto** Firewall using **Panorama**.
- Extensive Packet level debugging and troubleshooting on **Palo Alto Firewalls** to resolve numerous network issues.
- Implementation of **L3 MPLS-VPN** and Migration of branches to the new **MPLS** cloud4.
- Building the **VPN** tunnel and **VPN** encryption.
- Configured Site to Site IPsec **VPN** tunnels to peer with different clients and each of client having different specifications of Phase 1 and Phase 2 policies using **Cisco ASA** 5500 series firewalls.
- Configured Easy **VPN** server and **SSL VPN** to facilitate various employees' access internal servers and resources with access restrictions
- Coordinating with Vendors for creating and modifying firewall and **NAT** rules and Maintaining Site to Site and **SSL VPN**.
- Configured **EBGP** load balancing and Ensured stability of **BGP** peering interfaces
- Worked on Route-Reflectors to troubleshoot **BGP** issues related to customer route prefixes also route filtering using Route-maps.
- Implemented site to site **VPN** in **Juniper SRX** as per customer.
- 1. Configured Policies on **Juniper Net screen** and **SRX** firewalls and **Palo alto** as well.
- Design and configuring of **OSPF**, **BGP** on **Juniper Routers** and **SRX Firewalls**.
- Worked on **Fortinet**, FortiGate firewall, Forti-Manager, Forti-Analyzer.
- Managed deployment and integration with Microsoft Lync of **skype for business** (sfb).
- Maintain and configure **L2** and **L3** services in **MPLS**.
- configured **RT**, **RD** and **VRF** for **L3 MPLS** services.
- Administration, Configuration and support for Microsoft windows **Azure IAAS** for us clients for migration.
- Worked with engineering team to resolve tickets and troubleshoot **L3/L2** problems efficiently.
- Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support.
- **Environment:** Cisco 6500/4510/4500X/4948/3560X switches, Nexus 9000, 5000,3000, 9504, 9300, 3200, 2308,Cisco ASR 1k/7200/3925E/2951E Routers, Cisco ISE, Aruba 7200/3600 wireless controller, Nexus 2k/5k/9k, Cisco Nexus 7000, ASA 5500/5510/5540 fire walls, Windows 2000/2003/2008/R2/2012, Juniper SRX firewall, juniper SRX, MX routers, Juniper gate way,SSLVPN, F5 load balancer LTM >M, BGP, EGBP, VPC, VDC, OSPF

Responsibilities:

- Working with **Cisco Nexus** 2248 Fabric Extender and **Nexus** 5500 series to provide a Flexible Access Solution for datacenter access architecture
- Configuring, upgrading and deployment of **Nexus** 7010, 5596 and 2248.
- Worked on upgrading **Cisco ISE** 3300 Appliances and 1.0.4 **Cisco ISE** software on VM ware's.
- Worked with **Cisco ISE** to identify threats in the network for rapid containment and remediation.
- Worked on Extensively on **Cisco Firewalls**, **Cisco PIX** (506E/515E/525) & **ASA** 5500(5510/5540) Series.
- Experience with converting **PIX** rules over to the **Cisco ASA** solution.
- Configuring **VPN**, clustering and **ISP** redundancy in **Checkpoint firewall**.
- Worked on **Checkpoint** Platform including Provider Smart Domain Manager.
- Worked on configuring, managing and supporting **Checkpoint** Gateways
- Experienced with **Checkpoint VPN** rules over **Cisco ASA VPN**. This filters traffic by inspecting the application layer.
- Implementation configuration and troubleshooting of **Checkpoint Firewall R 77**.
- Involved in Configuration of **Access lists** (ACL) on **checkpoint** firewall for the proper network routing for the B2B network connectivity.
- Worked with Host Master for shared web hosting and managed Web Application firewall (WAF), DNS and DHCP management using **Infoblox** and Analyzed networks using **Wireshark**.
- Provided level 2 phone and email support and troubleshooting of networking and **VoIP** issue.
- Configured the automatic policy builder using the deployment wizard tool in **ASM**.
- Dealt with creating **VIP** pools, nodes and created custom iRules for the virtual servers like cookie persistency and redirection of URL on **F5 ASM** cookies issues and configures **ASM** policies.
- Experience in Deploying and decommissioning **Cisco switches**, **Cisco Meraki** Products and their respective software upgrades.
- Implemented site to site **VPN** on **Cisco Meraki** MX64, MX65, MC84, and MX400.
- Deployed and managed **Cisco Meraki** products SD-WAN including **Cisco Meraki** Security Appliances (MX25, MX450, MX400, MX600 and MX100), **Cisco Meraki switches** and Cisco Meraki Wireless Aps (MR84, MR74, MR52).
- Working with **BGP**, **OSPF** protocols in **MPLS** Cloud.
- Establishing **VPN** Tunnels using IPSec encryption standards and configuring and implementing site-to-site **VPN**, Remote **VPN**.
- Experience in white listing webpages and blocking webpages with **Blue Coat Proxy** SG and Blue Coat reporter.

- Configured and resolved various **OSPF** issues in an **OSPF** multi area environment between multiple branch routers.
- Providing daily network support for national wide area network consisting of **MPLS**, **VPN** and **point-to-point** site.
- Configuring **BGP**, **MPLS** in **Cisco IOS XR**.
- Working on **HP open view** map for Network Management System and Ticketing.
- Involved in **L2/L3** Switching technology administration including creating and maintaining **VLANs**, **Port security**, **Trunking**, **STP**, **Inter VLANS Routing**, **LAN security**

Environment: Cisco ASR 1002X/3945/3845/2800/3600 Routers, Cisco ISE, Nexus 7010/5596/2248, ASA 5500/5510/5540, checkpoint fire wall R77, Juniper JUNOS M & MX routers, VLAN, LAN, STP, BGP, MPLS, OSPF.

Smith & Nephew, Memphis, TN
Network Engineer

Nov 2012 – Dec 2015

Responsibilities:

- Performed network engineering, design, planning (**WAN & LAN**) & implementation. Studied single point failures & designed **WAN** structure in such a way that there are no failures in network in case of any device or link failure.
- Configured and designed **LAN** networks with Access layer switches such as **Cisco** 4510, 4948, 4507 switches.
- Configured **VLANs** on a switch for inter-VLAN communication. Configured **VLAN Trunking Protocol** (VTP) on Core Switches. Configured various **LAN** switches such as **CISCO CAT** 2900, 3550, 4500, 6509 switches for **STP**, **VTP** Domain, **VLAN**, **Trunking**, Fast Ether Channel configuration.
- Worked on Extensively on **Cisco Firewalls**, **Cisco** (506E/515E/525/) & **ASA** 5500(5510/5540) Series
- Responsible for **Checkpoint** firewall management and operations across our global networks.
- Configuring Virtual Chassis for **Juniper switches EX-4200**, Firewalls **SRX-210**.
- Understand the **JUNOS** platform and worked with IOS upgrade of **Juniper** devices.
- Setting up **VLANs** and configuring **ISL** trunk on Fast-Ethernet channel between Switches.
- Deployed a large-scale **HSRP** solution to improve the uptime of collocation customers, in the event a core router became unreachable.
- Implementing, Monitoring, Troubleshooting and Convergence in Frame-Mode **MPLS** inside the core.
- Designed and implemented security policies using **ACL**, firewall.
- Configured routing policy for **BGP**. Switching related tasks included implementing **VLANs** and configuring ISL trunk and 802.1Q on Fast-Ethernet channel between switches.
- Done troubleshooting of **TCP/IP** problems and connectivity issues in multi-protocol Ethernet environment.
- Troubleshooting on network problems with **Wire shark**, identify problem and fix.
- Worked on **FTP**, **HTTP**, **DNS**, **DHCP** servers in windows server-client environment with resource allocation to desired Virtual LANs of network

- Performed the maintenance of Active Directory and replication scheme, **DNS/DHCP** services and time services; wrote step-by-step procedures for implementing upgrades.
- Worked with the server team to get the **DHCP** scope created for Voice, Data and wireless networks for the new Site setup.

Environment: Cisco 4510/4948/4507 switches, Juniper switches EX-4200 switches, Cisco CAT 2900,3550,4500,6509 switches, DNS/DHCP server, Firewalls SRX-210, BGP, VLAN, WAN& LAN, ACL.

Virtusa, Hyderabad, India
Jr. Network Engineer

Sep 2010 - Sep 2011

Responsibilities:

- Models consist of **Cisco** 3750, 2620 and, 1900 series routers and **Cisco** 2950, 3500 Series switches. Involved in implementation of Trunking using **Dot1Q**, and **ISL** on **Cisco Catalyst** Switches.
- Involved in **Local Area Network** (LAN) design, troubleshooting, and maintenance as per company's requirements.
- Configuring, managing and troubleshooting networks using routing protocols like **RIP, EIGRP and OSPF** (Single Area and Multi Area).
- Administration of Broad soft and **Avaya** telephony services
- Serve as a single point of contact for troubles on the South Carolina state government phone system on the **Avaya** platform
- Configured TCP/IP addressing scheme to assigned IP blocks.
- Worked with sniffing tools like Ethereal to analyze the network problems.
- Configured **VLANs** to isolate different departments.
- Troubleshoot issues related to **VLAN, VLAN Trunking, HSRP** failovers, related issues.
- Configured **IPSEC VPN** on **SRX** series firewalls.
- Used **TFTP** server to backup **Cisco** configuration files.
- Network layer tasks included configuration of IP Addressing using **FLSM, VLSM** for all applications and servers throughout the company.
- Configured **STP** for loop prevention on **Cisco Catalyst** Switches.
- Configured **VTP** to manage **VLAN** database throughout the network for **Inter-VLAN Routing**.
- Monitor, troubleshoot, test and resolve Frame Relay, ATM, MLPPP, PPP, and Dial-up.
- Implemented Cisco Wireless Access Points and WLC's at various corporate sites for 11n Infrastructure and its legacy technologies.