

Mohammed Khan
Sr. Network Engineer
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SUMMARY

- Over 7+ years of Experience in designing, deploying and troubleshooting Network & Security infrastructure on routers, switches (L2/L3) & firewalls of various vendor equipment.
- Working on Cisco IOS, Junos & NX-OS (7K, 5K&2K).
- Certified Amazon Web Services engineer with 2 years of experience in Cloud computing, Infrastructure Solutions and services, Data center virtualization and Database Services. Deep technical experience with architecture, design and hands-on diverse technology platforms including different Cloud Platforms (AWS/Azure), Virtualization, Database Technology.
- Involved in technology transformation from Physical distributed computing to Virtual & Cloud based solutions including OPNFV, NFV and SDN
- 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 design. Develops strategies and corresponding MOPS's for Data Center migrations from legacy environments to new software-defined and automated networking infrastructure
- Troubleshooting & upgrading Avaya IP 500, UC modules, Combo cards, PBX's and Digital station 8
- Technology and Infrastructure consultant for Cisco and Juniper design and implementation projects. Specific tasks include installations, configurations, support and maintenance of routers and switches.
- Experience with design and deployment of MPLS Layer 3 VPN, MPLS Traffic Engineering, MPLS QOS
- Diverse industry exposure – Finance, Telecom, and IT consulting Markets.
- IPAM management and varied record keeping for the above, in InfoBlox, SolarWinds, & Remedy solutions
- Extensive experience in configuring Layer3 routing and layer2/3 switching of Juniper & Cisco based J2320, MX, EX, 2950, 2960, 3600, 3750, 4500, 6500, 1700, 1800, 2600 and 3700 series routers & Switches.
- Troubleshooting & implementation of Vlan, STP, MSTP, RSTP, PVST, 802.1Q, DTP, HSRP, VRRP, GLBP, LACP, PAGP, AAA, TACACS, RADIUS, MD5, VTP & SVI.
- Prepared technical documentation HLD and LLD for file attachment feature. Implemented file attachment feature for timeline post
- Acquitted with **Cisco Meraki** for Cisco Wireless Devices Monitoring, managing and troubleshooting Cisco Wireless devices using Cisco Meraki. Configured Aruba Switch S3500 & 1200 Complex Stacking topologies. Prior experience in developing Data Center application migration strategies
- Hands-on experience with TCP/IP, LANs, WANs, and WLANs (Wi-Fi) Cisco VPN Concentrators, F5 Fire pass SSL VPN, 6509 Core Datacenter designs.

- Acquitted with Cisco Meraki for Cisco Wireless Devices Monitoring, managing and troubleshooting Cisco Wireless devices using Cisco Meraki. Configured Aruba Switch S3500 & 1200 Complex Stacking topologies.
- Prior experience in developing Data Center application migration strategies.
- Experience in Implementing, Managing and troubleshooting WAN Networks ISDN, ADSL, VDSL, Frame Relay, L2 AToM, EoMPLS, and VRF.
- Experience in troubleshooting NAT configurations, Access-Lists (ACL), and DNS/DHCP related issues within the LAN network
- Monitor network with Solarwinds NPM, Cisco ASDM, Aruba Airwave, Aruba ClearPass, and Symantec Web Gateway.
- Worked with Cisco Unity IVR, SIP IAD, SCCP, RTP, RTCP, H.323, QoS, G711, G724, and CALL MANAGER.
- Extensive knowledge in AAA protocols such as RADIUS, TACACS+ and Cisco ACS.
- Expertise in Configuration of Virtual Local Area Networks (VLANs) using Cisco routers and multi-layer Switches and supporting STP, RSTP, PVST, RPVST along with trouble shooting of inter-VLAN routing and VLAN Trunking using 802.1Q by using Sniffers
- Strong hands on experience on ASA (5505/5510/5540/5585) Firewalls, Juniper (SRX 110/210/220/550).
- Implemented security policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA(TACACS+ & RADIUS).
- Worked aggressively on complex Palo Alto firewalls Environment.
- Experience in working with Juniper routers, switches and SRX firewall.
- Basic knowledge of F5 load balancer and HAProxy load balancer.
- Strong hands on experience in layer-3 Routing and layer-2 Switching. Dealt with Nexus models like 7K, 5K, 2K series, Cisco router models like ASR 9K, ASR 1K, 7200, 3900, 2900, 2800, 2600, 2500, 1800 series and Cisco catalyst 6500, 4500, 3850, 3750, 3500, 2900 series switches.
- Experience implementing monitoring infrastructure including solarwind NPM and NTA, PRTG, Wireshark, Spiceworks, OpManager, Nettools, Kiwi Syslog server and Symantec EPM solutions.
- Hands-on experience with Juniper SRX - Juniper SSL VPN, IOS/JUNOS upgrades for Cisco & Juniper routers/switches. Configuring & troubleshooting routing protocols like RIP, OSPF, BGP, EIGRP.
- Experience in testing Cisco & Juniper routers/switches in laboratory scenarios and deploy on site for production. Managed DHCP, DNS and IP address thru Infoblox, and Admin for Internet sites access thru Zscaler and working with Cisco IOS-XR on the ASR9000 devices for MPLS deployments

TECHNICAL SKILLS

Routing Protocols: RIP, BGP, OSPF, EIGRP, Static Routing, IP Addressing, Subnetting, VLSM

Communication Protocols: TCP/IP, UDP, DHCP, DNS, ICMP, SNMP, ARP, PPP

Redundancy Protocols: GLBP, HSRP, VRRP

Topologies: MPLS, Ethernet, Cable Modem, and Wireless

Switch Technologies: VLANs, VTP, STP, DTP, ISL and dot1q

Network Hardware: Cisco switches (2960, 3550, 3560, 4500, 6509, and 6513), Cisco Nexus Switches (2248, 2232, 5548, 5596, 7010, 7718), Arista 7500, 7050, 7300 series,

Cisco routers (1900, 2900, 3900, 7200, ASR-1k/9k), Cisco ASA 5500 series, CSU/DSU's, network cards, Modems and F5 Network Load Balancer

Network Management Tools: MRTG, HP Open view, Cisco WAN manager, Cisco works 2000, Solarwinds Orion, and Zenoss

Security: NAT/PAT, Ingress & Egress Firewall Design, VPN Configuration, Internet Content Filtering, URL Filtering -Web-sense, SSL, IPSEC, IKE, Static, Dynamic, Reflexive ACL, and authentication AAA (TACACS+ & RADIUS).

Firewall: Cisco ASA, Juniper SRX, Palo Alto

Network Simulators: GNS3, Packet Tracer, Wire shark

OS: Windows, UNIX, LINUX

Education: Bachelor of Commerce from Anwar – Al-uloom College, India

PROFESSIONAL EXPERIENCE

CSpire,

Jackson,

MS

Sep 2019 -Present

Sr. Network Security Engineer

Responsibilities:

- Primary responsibility is to design, test and deploy various Network Infrastructure & Network Security Products in High Availability Configuration from Vendors such as Cisco, Juniper, HP Procurve and Palo Alto.
- Worked on Cisco FWSM/PIX/ASDM, Nokia Checkpoint NG and Juniper SRX platforms.
- Troubleshooted VoIP and Network issues using tools like Wireshark, and Putty
- Reviewed and optimized firewall rules using Netscout firewall monitoring tool by creating customized firewall audit reports. Migrated datacenter firewall rules based on Zenoss Analysis/query and Reports.
- Worked with VM segmentation (VMware NSX, Illumio, vArmour, GuardiCore), Firewall management and auditing (FireMon, Tufin, AlgoSec, RedSeal, Skybox, etc.) Sandboxing and Analytics (FireEye, Damballa, Check Point, Fortinet, Palo Alto) Network packet brokers (Gigamon, IXIA, NetScout)
- Reviewed and optimized firewall rules using Netscout firewall monitoring tool by creating customized firewall audit reports. Migrated datacenter firewall rules based on Zenoss Analysis/query and Reports.
- Primary roles include SIEM monitoring and investigation of any alerts using tools such as Arcsight ESM, Arcsight Logger, HBSS, NetScout, Site Protector IDS, and Wireshark Protocol Analyzer.
- Experience in Network Management Tools and sniffers like SNMP, HP-Open view, Wireshark and Cisco works to support 24 x 7 Network Operation Center
- Configured and managed Nexus 2k fabric extender, 5K and 7K switch network at the client's location.
- Troubleshooting and installing New Cisco Catalyst 3850 and 2960x switches.
- Worked on Traditional Campus Migration and successfully migrated the devices to new IP address range.
- Responsible for Internal and external accounts and, managing LAN/WAN and checking for Security Settings of the networking devices (Cisco Router, switches) co-coordinating with the system/Network administrator during any major changes and implementation
- Worked on Fortinet, FortiGate firewall, Forti-Manager, Forti-Analyzer.

- 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.
- Determine client requirements from the SOW and provide designs for complex Network Solutions including Internet, MPLS- IP VPN, SD-WAN, Broadband, and Ethernet.
- Troubleshoots routing issues that may arise in BGP routing protocols, HP switch fabric, Cisco routers and switches (IOS, IOS- XR, NX-OS), Juniper routers and switches (JunOS), and F5 Load Balancers
- Worked with complex routed IP networks, routers, layer 2/3 switches, firewalls, LAN/ WAN networking hardware and protocols.
- Designed and implemented MPLS core running VPLS for virtualized server infrastructure and eventually integrated into a VXLAN combination. Well-versed in Networks routers and switches using, BGP, MPLS, OSPF, VxLAN.
- Configure/troubleshoot Cisco Nexus 7000 series switches for BGP, OSPF, HSRP, MPLS, VLAN, VRF, VXLAN, Trunks, STP, xconnect & static routes.
- Verification of Vxlan and Datacenter interconnect use cases for Vxlan, MPLS, RSVP-TE, LDP, BGP, OSPF, DHCP, Radius authentication, TCP/IP, Dot1x, Vlan, Lag, access protocols, STP for Juniper devices running Junos.
- Experienced in configuring and maintaining Security Policies, NAT policies, IPSEC tunnels on various firewalls like Palo Alto, Cisco ASA/ Firepower, Checkpoint firewalls and SIEM solutions like LogRhythm and McAfee
- Implementing VLAN, STP, VTP, 802.1Q, SVI, OSPF, Multicast, , MPLS, VRF, BGP technologies
- Adding and removing checkpoint firewall policies based on the requirements of various project requirements.
- Deployed Site to Site and Client to Site VPNs utilizing Checkpoint Firewall-1/VPN-1.
- Migrated previous corporate Checkpoint 4.0 Firewall-1/VPN-1 on Windows NT.
- 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.
- Upgrading Cisco ISE Appliances Company wide. Recently rolled out OpenDNS including onsite VM appliances.
- Experienced on Cisco ISE and advanced technologies like QOS, Multicasting, MPLS and MPLS-VPN and Bluecoat proxy server SG

Syngenta,
June 2018 -Aug 2019
Sr. Network Security Engineer
Responsibilities:

Charlotte,

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- Primary responsibility is to design, test and deploy various Network Infrastructure & Network Security Products in High Availability Configuration from Vendors such Cisco, Juniper, HP Procurve and Palo Alto.
- Migration of Cisco Catalyst, IOS Platforms to Cisco Nexus, and Juniper Platform Conversion on Core, distribution & Access layer switches.
- Function as part of a Firewall and Security team in support of Checkpoint Firewalls, Zscaler Proxy, Juniper Portals, SecAuth, Open LDAP, and Active Directory

- In depth knowledge and understanding of the Internet and its design (DNS, Security, IP Routing, HTTP/HTTPS, IPSEC, VPN, Email Routing, Virus Protection etc
- Worked on Datacenter Fleet Migration project to migrate the existing 6509, 4509 devices to a Nexus 7010, 5010 and Nexus 2248 FEX based solution.
- Knowledge on NFV and SDN products, technologies, architectures, and vendors
- Configure VDC on Nexus 7k. Virtual Port Channel (VPC) between 5K and 2K. Configured VRF, VRF-Lite.
- Configuring Nexus 2K (FEX) which acts as a remote line card (module) for the Nexus 5k for the Nexus 5000 to connect servers and storage devices.
- Managed inventory of all network hardware, Management and Monitoring by use of SSH, Syslog, SNMP, NTP. Expertise in VoIP/UC: Cisco Collaboration(CUCM, CUC, IM&P, CUACA, UCCE/UCCX, Expressway, Cisco IOS Gateways, Telepresence
- Prepared technical documentation HLD and LLD for flowchart based workflow.
- Prepared technical documentation HLD and LLD for file attachment feature. Implemented file attachment feature for timeline post.
- Prepared technical documentations HLD and LLD for document repository and configurable workflow engine module. Created LAB setup with 7k and 5K NEXUS switches and Arista 7K for application testing
- Manage and maintain over 40,000 end users with Cisco video conferencing. Provide support for Cisco Call Manager 10.5.2, Cisco Unity, Cisco TMS services, WebEx, Cisco Jabber, Microsoft Skype for Business and Cisco desktop phones with video. Created and tested Cisco router and switching operations using OSPF routing protocol, ASA firewalls and MPLS switching for stable VPNs.
- Worked with Cisco Meraki cloud managed architecture to handle wireless, switching, security, EMM, all security cameras managed from the web. Implemented VPN & troubleshoot into IP-SEC tunnels, GRE Tunnels, SSL-VPN on Cisco, Aruba, Juniper. Configured Aruba Switch s3500 & 1200 Complex Stacking topologies. Design and setup of Aruba Controllers 531, redundant 7211, 3200, 3400 and 6000 series
- Worked on incorporate Cisco Nexus 9000 NXOS to ACI fabric to work in concert with the existing Nexus 7000s and ASRs for MPLS implementation.
- Function as part of a Firewall and Security team in support of Checkpoint Firewalls, Zscaler Proxy, Juniper Portals, SecAuth, Open LDAP, and Active Directory.
- Designed F5 solutions/support and configured virtual servers and associate them with pools for internal web servers and Troubleshooting Cisco APs and Meraki appliances
- Migrated, created, and managed pools and clusters in F5 BigIP GTM 3DNS load balancers across multiple Datacenters.
- Working with Cisco Nexus 2248 Fabric Extender and Nexus 5500 series to provide a Flexible Access Solution for datacenter access architecture
- Installed and configured Cisco Meraki (MR66, MR18) wireless Access points in the warehouses
- Responsible for Troubleshooting & upgrading Avaya IP 500, UC modules, Combo cards, PBX's and Digital station 8. Performed site refreshes on Cisco switching and Aruba wireless infrastructure
- Designed the ACI fabric to ensure each tenant/host is secured and has separated from other tenants/hosts. Used of L3/L2 outs via common tenants to reduce TCAM and RAM utilization.
- Created ACI migration plan (brownfield) create L2/L3 transitions. Map traffic flows for EPGs and BDs. Handled drivers for ML2 and GBO OpenStack integrations.

- Lead redactor for the writing of the LLD : production network, non-production network, administration and backup network, OOB network, LAN campus
- Worked on Configuration of VLAN, VRF, VX-LAN, VPC, on Nexus devices.
- Configuring OSPF and Static routing on Juniper M and MX series Routers in data center environment. Configuring Layer 2 switching protocols and deployment of Juniper EX and QFX series switches in data center environment.
- DNS: Added and modified new Static or DHCP IP addresses in IPAM for devices.
- Configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, BGP v4 by using troubleshooting tools like packet analyzers
- Public internet connectivity using BGP. Redesigned the BGP configuration in the ASR 9010 platforms to make it more efficient and redundant. Instituted non-stop routing, non-stop forwarding, and dual supervisor engine redundancy.
- Experience with manipulating various BGP attributes such as Local Preference, MED, Extended Communities, Route-Reflector clusters, Route-maps and route policy implementation.
- Load Balancing solutions by employing Citrix NetScaler Load Balancers.
- Experienced on configuring Server nodes, Server-pools, VIP's, SSL termination, Persistence, SNAT across Citrix NetScaler Load Balancers
- Experience with configuring Cisco 6500 VSS in Distribution layer of the Data center network
- Involved in moving data center from one location to another location, from 6500 based data center to Nexus based data center.
- Experience with Resolving Incident tickets and Day to Day Activities like Certificates, New VIP's, Etc across NetScaler. Testing, upgrade BIOS OS of Fortinet Firewall system. dataDesign, implementation and operational support of routing/switching protocols in complex environments including BGP, OSPF, EIGRP, Spanning Tree, 802.1q, etc.
- Performing troubleshooting on slow network connectivity issues, routing issues that involves OSPF, BGP and identifying the Root Cause Analysis of the issues.
- Deploying and decommissioning of Cisco Routers, Cisco switches and their respective software upgrades. Manage SolarWinds NPM, WPM and IPMon monitoring services and nodes.
- Performed OSPF, BGP, DHCP Profile, HSRP, IPV6, Bundle Ethernet implementation on ASR 9K redundant pair. Managed DHCP, DNS and IP address thru Infoblox, and Admin for Internet sites access thru Zscaler.
- Hands on Experience working on NextGen Firewalls such as Cisco ASA with Firepower (5585) and Palo Alto (5050). Experience with SDN/NFV technologies including Open Stack Neutron, VM ware NSX, Open flow, Open daylight, Open v Switch, Open Contrail, or Cisco ACI.
- Configured Cisco ISE tunnels with Fortinet to enable secure transport and cloud based/site-site VPN to AWS. New Fortinet firewall implementation, Traffic Migration and Upgrade Software of existing Firewalls per LLD, Testing, upgrade BIOS OS of Fortinet Firewall system
- Cisco Firesight management tool to manage Cisco ASA with firepower, Firepower appliances.
- Refining IPS Policy and Creating Rules as per the Security Standard on Cisco Sourcefire IPS.
- Perform firewall administration adding, updating and troubleshooting as per requirement rules/policies on Palo Alto 5050 & Cisco ASA 5555, 5585.

- Configure Security Profiles on Palo Alto / ASA for URL filtering, Anti-Virus, Anti-Spyware, Vulnerability Protection, Threat Prevention, File Blocking.
- Configure Clientless/AnyConnect SSL VPN on Cisco ASA for Work from Home Users.
- Configuration and Troubleshooting of IPSEC VPN tunnel On Palo Alto/ Cisco ASA and Cisco ASA as peer.
- Handle Incident tickets & Service Requests related to Cisco ASA & Palo Alto firewall, & VPN along with the connectivity issues and provide prompt support when any issue pops up.
- Implement DMZ for multiple clients of the state on the Palo Alto/ ASA firewall.
- Analyze of firewall logs, Provide administrative and Monitoring Support, Dynamic Updates for Palo Alto 5050 Firewall & Cisco ASA 5555, 5585.
- Responsible for Migration from Legacy Cisco ASA firewall to Palo Alto firewall.
- Experience with Splunk Security Infrastructure and Event Management. (SIEM). correlate, review, rank, and coordinate work efforts for sites to follow up on high-priority events.
- Work with Level 2 / Level 3 Engineering on software bugs and solutions involving software upgrades and feature enhancements.

I Heart Media, San Antonio, TX

Feb 2016 -May 2018

SR Network Engineer

Responsibilities:

- Experience in developing cloud strategies, roadmaps, architecting (hands-on) new cloud solutions end to end or enterprise level AWS/Azure migrations.
- Designing and deploying dynamically scalable, highly available, fault tolerant and reliable applications on AWS. Cisco Meraki Appliance MX (400, 80, 60) and Meraki wireless Access points (MR66,MR18)
- Migrated complex, multi-tier applications on AWS.
- Defined and deployed monitoring, metrics and logging systems on AWS. Migrated existing on-premises applications to AWS.
- Work to meet deadlines for new site configuration, upgrades, daily adds, moves and changes for Cisco Call Manager, Unity, UCCX, Cisco Jabber, Synn Apps paging software and Infortel Select call accounting system. Troubleshooting the Network Routing protocols (BGP, EIGRP and RIP) during the Migrations and new client connections
- 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
- Prepared technical documentation HLD and LLD for file attachment feature. Implemented file attachment feature for timeline post
- Administration of Broad soft and Avaya telephony services. Delivering high quality technical collateral for the Aruba WLAN product line for customer, partner and SEs. Product testing and support for a wide range of products like routers, Layer2/Layer3 switches, 802.11 wireless access points (Aruba - 105, 125).
- Worked on Avaya Communication Manager 6.3, Avaya Modular Messaging 5.2, Avaya One-X softphone, EC500 features, Avaya Session & System MGR, Avaya ASA tool, Avaya Call Center, Avaya trucking and Avaya routing Involved in Configuration

of Access lists (ACL) on Juniper and Palo Alto firewall for the proper network routing for the B2B network connectivity

- Monitored infrastructure with Nagios like Firewalls, Servers, Services, Network devices, applications, web portals etc. Resolution of tickets fresh & pending.
- Selecting appropriate AWS service to design and deploy an application based on given requirements.
- Automated network implementations and tasks and designed monitoring tools using python scripting.
- Dealt with creating VIP(virtual servers), pools, nodes and applying I Rules for the virtual servers like Cookie persistency, redirection of the URL.
- Provided Load Balancing towards access layer from core layer using F5 Network Load Balancers.
- Configured Cisco 3502 wireless access points.
- Hands-on experience with WAN (ATM/Frame Relay), Routers, Switches, TCP/IP, Routing Protocols (BGP/OSPF), and IP addressing.
- Involved in the configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4. Configured IP access filter policies.
- Supplied documentation, escalation, training and standard operating procedures as needed to allow for a smooth transition within the NOC.
- Modified internal infrastructure by adding switches to support server farms and added servers to existing. Installed and configured Cisco Meraki (MR66, MR18) wireless Access points in the warehouses.
- DMZ environments to support new and existing application platforms.
- Designed and installed new Branch network systems. Resolved network issues, ran test scripts and prepared network documentation.
- Experience with setting up IPSEC VPN on Cisco 5585 Firewalls towards the multiple vendors.
- Experience working with Nexus 7010/Nexus 7018, 5020, 2148, 2248 devices.
- Experience configuring VPC, VDC and ISSU software upgrade in Nexus 7010.
- Experience with configuring Nexus 2000 Fabric Extender (FEX) which acts as a remote line card(module) for the Nexus 5000. Creating or Modifying Firewall rules on Cisco 5555, 5520, Fortinet and Palo Alto VM-300 devices
- Experience working with Juniper devices like EX-2200, EX-4200, EX-4500, MX480, M Series, SRX650, SRX240. Worked on NexGen store network upgrade project by verifying the DNS and DHCP of the IP addresses assigned in BlueCat to all the new stores in production in sync with the store numbers.
- Experience working with data center deployment where we converted from Cisco 6500 to Nexus.
- Experience with configuring FCOE using Cisco nexus 5548.
- Troubleshoot WAN related problems including OSPF, EIGRP, BGP routing and design.
- Experience Supporting EIGRP, OSPF and BGP based network by resolving level 2 & 3 problems of internal teams & external customers of all locations.
- Helped team to deploy 100 APs with 15 Switches, Cisco Nexus, Cisco Meraki and 2 Wireless controllers.
- Experience working with F5 LTM 3600/6400 and GTM 2200/4200 in data center.
- Configured Virtual Servers, Configure Nodes, and configuring the load balancing Pools and also used to work with configuring load balancing algorithms.
- Performed switching technology administration including VLANs, interVLAN routing, Trunking, STP, RSTP, port aggregation & link negotiation.

- Experience with configuring BGP, OSPF in Juniper M and MX series routers for branch/Back office locations. Worked with Cisco Meraki centralized cloud managed architecture enables plug and play branch deployment and control across any number of distributed system
- 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.
- Support Panorama Centralized Management for Palo alto firewall PA-500, PA-200 and PA3060, to central manage the console, configure, maintain, monitor, and update firewall core, as well as back up configuration.
- Design multi-server environments including IP address schemes, BlueCat DNS& Infoblox DNS, Port - Channel (Bonding), etc
- Involved in configuring IP Quality of service (QOS) , Worked on FTP, HTTP, DNS, DHCP servers in windows server-client environment with resource allocation to desired Virtual LANs of network.
- Worked on Layer 2 protocols such as STP, VTP, STP, RSTP, PVSTP+, MST and other V LAN troubleshooting issues and configuring switches from scratch and deployment.
- Primary responsibility is to design and deploy various network security & High Availability products like Cisco ASA other security products.
- Plan Design and assist in deploying enterprise wide Network Security and High Availability Solutions for ASA and SRX Firewalls.
- Work as a part of the DMZ migration and consolidation for external vendors into a new environment on ASA 5585 devices.
- Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500/Juniper security appliance, Failover DMZ zoning & configuring VLANs/routing/NATing with the firewalls as per the design.
- Multipoint VPN: IPSec, IKEv2, DES, 3DES, AES (-128, -192, -256), Pre-Shared Key, X.509v3 Certificate, MD5, SHA-1, NAT-T, firewall rules for each VPN connection, configuration assistance via web interface, remote-controlled activate/ deactivate connection.
- Data center migration was involved in Access, Distribution and Core layers.
- Performed Configuration on ASR 9K Pairs includes HSRP, Bundle Ethernet Config, Assigning DHCP profiles.

Comerica Bank, Auburn hills, MI
2013- Dec 2015

Oct

Sr. Network Engineer

Responsibilities:

- Well Experienced in configuring protocols HSRP, GLBP, ICMP, IGMP, PPP, PAP, CHAP, and SNMP.
- Responsible for layer 2 securities which was implemented using a dedicated VLAN ID for all trunk ports, setting the user ports to non-trunking, deployed port security when possible for user ports.
- Involved in configuring Juniper SSG-140 and Cisco ASA firewall.
- Enabled STP attack mitigation (BPDU Guard, Root Guard), using MD5 authentication for VTP, disabling all unused ports and putting them in unused VLAN and ensuring DHCP attack prevention where needed.
- Experience with setting up MPLS Layer 3 VPN cloud in data center and also working with BGP WAN towards customer.

- Configure and troubleshoot Juniper EX series switches and routers.
- Migrated to Juniper EX series switches from Cisco 3500 series and 6500 series switches.
- Experience with moving data center from one location to another location, from 6500 based data center to Nexus based data center.
- Network Redesign for Small Office/Campus Locations. This includes changes to both the voice and data environment.
- Deployed a large-scale HSRP solution to improve the uptime of collocation customers, in the event a core router became unreachable. Administration of Broad soft and Avaya telephony services.
- Experience with communicating with different with different customers, IT teams in gathering the details for the project.
- Serve as a single point of contact for troubles on the South Carolina state government phone system on the Avaya platform
- Experience with configuring Cisco 6500 VSS in Distribution layer of the Data center network.
- Configuration and Administration of Cisco and Juniper Routers and Switches.
- Experience working with Nexus 7010, 5548, 5596, 2148, 2248 devices.
- Experience configuring VPC (Virtual Port Channel), VDC(Virtual Device Context) in Nexus 7010/7018.
- Experience with configuring FCOE using Cisco nexus 5548.
- Network security including NAT/PAT, ACL, and ASA/SRX Firewalls.
- Good knowledge with the technologies VPN, WLAN and Multicast.
- Switching tasks include VTP, ISL/ 802.1q, IP Sec and GRE Tunneling, VLANs, Ether Channel, Trunking, Port Security, STP and RSTP.
- Experience in installing and configuring DNS, DHCP servers.
- Replace branch hardware with new 3900 routers and 2960 switches.
- 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.
- Convert Branch WAN links from TDM circuits to MPLS and to convert encryption from IPSec/GRE to Get VPN.

- Switching related tasks included implementing VLANS and configuring ISL trunk on Fast-Ethernet and Gigabit Ethernet channel between switches.
- Experience in Cisco switches and routers: Physical cabling, IP addressing, Wide Area Network configurations (Frame-relay and ATM).
- Performed troubleshooting, while maintaining trouble ticket tracking, following internal/external
- Escalation procedures and customer notifications.
- Configured Cisco Routers for OSPF, IGRP, RIPv2, EIGRP, Static and default route.
- Configuration, Management, Troubleshooting of Network devices (Routers, Switches). Maintained the Telecommunication Connectivity using DSL and T1 Lines.
- Maintained complex LAN/WAN networks with several VLANS and provided support for routing protocols.

- Managed IP addressing and implemented IP Access Lists.
- Worked on HSRP and GLBP for first hop redundancy and load balancing.
- Configured the Cisco router as IP Firewall and for NATting.
- Prepare, update, and maintain technical and logistical network documentation
- Configured and troubleshoot VLAN, VTP, STP and Trunks.
- Installing and configuring protocols like TCP/IP and Internet protocols including Local Area Networking, routing and HTTP.