



**Anusha K**  
**Sr. Network Engineer**  
**Phone: 480-630-9319**

**Email: [anushanetworking384@gmail.com](mailto:anushanetworking384@gmail.com)**



### **Summary:**

- Cisco Certified Network Engineer with 8+ years of professional experience, performing Network analysis, design, implementing, capacity planning with focus on performance tuning and support of large Networks.
- Experience in Cisco Routing and Switching using 3600, 3700, 3800, 5300, 6500, 7200, 7600, Nexus 9K, 7K, 5K, & 2K, ASR 9000, 1000 series routers.
- Experience in configuring and troubleshooting of static and dynamic routing protocols such as RIP v1/v2, EIGRP, OSPF, IS-IS BGP and MPLS.
- Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP, Ether channel, STP, RSTP and MST.
- In-depth knowledge and hands-on experience on OSI model, TCP/IP, Subnetting, VLSM, ARP, reverse & proxy ARP, Ping Concepts.
- Worked on NX-OS, IOS, IOS-XR BXB to N7K-NX-OS (MPLS) system test.
- Configuring and testing Multicast for both IPv4 and IPv6 routing in Data Centre Environment.
- Expertise in Data Centre Core layer, Access layer, Aggregation layer, Services layer.
- Strong work experience with MPLS, VPN, WLAN and Multicast technologies.
- Well Experienced in configuring protocols HSRP, GLBP, VRRP, ICMP, IGMP, PPP, PAP, CHAP, and SNMP.
- Advanced knowledge installation, configuration, maintenance and administration of Palo Alto firewalls, Panorama, Checkpoint, and Fortinet Firewalls.
- Configure 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.
- Network monitoring and testing from Operation Centre (NOC) from a network management perspective.
- Good knowledge on DMZ zone-based security configuration on Cisco routers.
- Implemented traffic filters using Standard and Extended access-lists, Distribute-Lists, and Route Maps.
- Network security including NAT/PAT, ACL, IDS/IPS, and Cisco PIX, ASA/ Firewalls.
- Performed Network Security Assessment and implemented security improvements such as network filtering, SSH, AAA, SNMP access lists, VTY access lists, EIGRP MD5 authentication, and HSRP authentication.
- Proficiency in monitoring and analysing the load balancing of network traffic using Wire shark and Solar Winds and Net flow.
- Automated network implementations and tasks and designed monitoring tools using python scripting.
- Scripting for automation of processes for Windows Servers. Familiarity with main script languages like Power Shell, PHP, Shell, Perl, Python.
- Experience in Physical cabling, IP addressing, configuring and handling network failure issues.
- Excellent communication and interpersonal skills with excellent problem-solving capabilities.



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## **CERTIFICATIONS AND EDUCATION:**

- Cisco Certified Network Associate (CCNA)
- Cisco Certified Network Professional – Routing & Switching (CCNP)

## **PROFESSIONAL EXPERIENCE:**

**Client:** Dell EMC/ United Airlines  
**Sept 2019 - Present**  
**Location:** Chicago, IL  
**Role:** Security Network Engineer

### **Responsibilities:**

- Design, implement and test the security infrastructure to support a new DR solution for an existing network.
- Developing security program roadmaps. Develop detailed project plans ensuring activities and timing is aligned to the overall project schedule.
- Performed discovery activities related to existing firewall and load balancer configurations for applications, servers, and their dependencies.
- Worked on Checkpoint smart Dashboard R77.30 and R80.30 for Firewall rule discovery and mapped to application (or server) IP and TCP/UDP port.
- Worked on Load Balancer VIP and rule discovery mapped to application IP and TCP/UDP port.
- Updated broader application CMDB with appropriate target IP address and firewall port/policy information.
- Submitted Firemon request via existing Firemon Request Portal. Tracked firewall request implementation to final build.
- Having good knowledge and exposure on designing of Cisco ISE.
- Worked on Hurricane IDS devices for port assignment, designing IDS devices connecting to other devices like Fabric Extenders (FEX) and Gigamon devices.
- Worked on firewalls like Cisco ASA, Palo Alto(PA-7050), checkpoint and Cisco Firepower.
- Setup and configuration of Security applications included but not limited to Firewalls, Encryption Solutions, Cisco Firepower (Intrusion Prevention), Gigamon Network Packet Broker
- Reported firewall rule status to broader program.
- Validated implemented firewall rules are functional per the submitted request.
- Validated firewall rules for IP + TCP/UDP port access per submitted request.
- Design and enforce encryption solutions in order to protect the data in transit.
- Design documents that include all key requirements as well as Acceptance Criteria and the test plan.



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- Worked with cross-functional application and server teams to validate discovery information.
- Design and enforce encryption solutions in order to protect the data in transit.
- Designed documents that include all key requirements as well as Acceptance Criteria and the test plan.
- Creating/updating security program documentation. Developing necessary documentation including High-Level Design and Low-Level Design as well as Technical Recovery Plans.
- Documented rack/slot reservations, IP's, storage, clustering configuration, and replication methodology.

**Client:**

**Progressive**

**Insurance**

**Jan 2019 - Aug 2019**

**Location: Mayfield Heights, Ohio**

**Role: Sr Network Engineer**

#### **Responsibilities:**

- Responsible for designing, implementing, and documenting all aspects of a **Cisco-centric data center** environments to include routers, switches, firewalls, LAN's, load balancers, and traditional telecommunication networks.
- Developing high-level design documents outlining strategic and tactical plans to reach a **"To-Be"** state.
- Participating and lead discovery efforts to document the customers data center **"As-Is"** state.
- Involved in Developing, executing and documenting Proof-of-Concept test cases as required by program guidelines.
- Configured, deployed and implemented **nexus 9508 switches** as part of new datacenter built.
- Configured and successfully implemented all **9508 HA pairs** into datacenter.
- Perform **License upgrades** for **Cisco nexus 9348** and **9508** switches.
- Performed **NX-OS codes** upgrade for **9508** via USB for both active and standby SUP.
- Configured **nexus 9508** switches with **Peer-Link, VPC keep-alive link, VPC domain**, different **VRF's**, Virtual Port channel for downstream switches etc.
- Worked on management and console connections for all **acileaffex-Nexus2332TQ**
- Dealt with **acileaf-93180YC-FX** and **acispine-9346C** connectivity to other devices like splunk,IDS,9K,F5 LTM etc.
- Configured **BGP** on core **nexus 9508** switches and provide connectivity with existing datacenters.
- Configured **OSPF** on datacenter **nexus 9508** switches to provide connectivity for intra network and core switches. Also provide **L2 connectivity** to **9348 switches**.
- Successfully installed different **fiber (X97160YC-EX)** and **copper (X9788TC-FX)** line cards for 9508 switches. Planned and successfully completed port assignment (**data/management/console**) for all **9508 switches**.



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- Provide **management, console** and **network connectivity** ports assignments to all datacenter devices like **nexus 9508, Palo alto PA-7050, F5 Load-balancers, Gigamon, Gaurdium, CyberArk, Bluecoat, SSLv, Infoblox, Riverbed, Hurricane IDS, Splunk** etc. Also configured management IPs for these devices on management 9348 switches.
- Dealt with creating **VIP pools**, nodes and created **iRules** for the virtual servers.
- Designed, deployed and configured **BIG IP F5 i10800, i5800** and **i4600** appliances.
- Configured and troubleshoot **F5 LTM & GTM** and provide Level 2 and 3 support for customers.
- Licensing and provisioning F5 modules such as LTM and GTM.
- Worked on code upgrade from **v13.1.0.1** to **13.1.1.4**
- Worked on **Nexus 2332TQ Fabric Extender** connectivity to other security devices.
- Configuring Static, IGRP, EIGRP, and OSPF Routing Protocols on Cisco 1600, 2600, 2800, 3600, 7300 series Routers.
- Configured Easy VPN server and SSL VPN to facilitate various employees' access internal servers and resources with access restrictions.
- Configured VLAN's, Private VLAN's.
- Implemented Zone-Based Firewalling and Security Rules on the **Palo Alto Firewall**.
- Worked as a lead consultant for a consultation project to help clean up legacy FW policies and create migration path from current ASA to next gen Palo Alto firewall.
- Experience working with **Nexus 9k, 7K, 5K and 2K**.
- Implementation of Site-to-Site **VPNs** over the internet using **3DES, AES/AES-256** with **ASA Firewalls**
- Configure various LAN switches such as Cisco catalyst 2900, 3550, 4500, 6509 switches and Access layer switches such as Cisco 4510, 4948, 4507 switches for VLAN, Fast Ether Channel configuration.
- Worked on Datacenter Migration project to migrate the existing 6509, 4509 devices to a Nexus 7010, 5010 and Nexus 2248 FEX based solution.
- Configured **Nexus 2000 Fabric Extender (FEX)** which acts as a remote line card (module) for the Nexus 5000 to connect servers and storage devices.
- Perform ISSU upgrade on Nexus 7010 devices by operating the supervisors in active/standby mode on the devices by determining ISSU compatibility.
- Experience in migration of VLANs & Configured VLANs with 802.1q tagging, Ether channels, and Spanning tree for creating Access/distribution and core layer switching.
- Configured EBGP load balancing and ensured stability of BGP peering interfaces
- Involved in migration of F5 Local traffic managers of LTM 5100 series to LTM 6800 series for higher.
- Worked with engineering team to resolve tickets and troubleshoot L3/L2 problems efficiently.

**Conduent, Tempe, AZ**  
**Sep 2017- Dec 2018 Network Security Engineer**



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### **Responsibilities:**

- Responsible for entire company network infrastructure that includes Cisco Switches, Routers, Firewalls, Access Points, Servers and PBX.
- Configuring Static, IGRP, EIGRP, and OSPF Routing Protocols on Cisco 1600, 2600, 2800, 3600, 7300 series Routers.
- Configured Easy VPN server and SSL VPN to facilitate various employees' access internal servers and resources with access restrictions.
- Configured VLAN's, Private VLAN's.
- Implemented Zone-Based Firewalling and Security Rules on the **Palo Alto Firewall**.
- 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 and provided management support for **Palo Alto** and **Checkpoint Firewalls** (R75, R76 and R77).
- Dealt with implementation of Cisco ASA 5585 devices and Juniper SRX 550 devices to apply security policies on it.
- Configuration and troubleshooting of EIGRP, OSPF, BGP, CSM, integration with ASA devices
- Migrated complex, multi-tier applications on AWS. Defined and deployed monitoring, metrics and logging systems on AWS. Migrated existing on-premises applications to AWS
- Responsible for **Checkpoint firewall** management and operations across our global networks.
- Did upgraded the IOS on the ASA 5550 5585-X, 5520.
- 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.
- Replaced the Legacy 3750 stack wise with Juniper EX 4200 switches in the LAN Environment.
- Worked as a lead consultant for a consultation project to help clean up legacy FW policies and create migration path from current ASA to next gen Palo Alto firewall.
- Review and optimize firewall rules using Tufin SecureTrack and run firewall audit reports. Migrated datacenter firewall rules for Yum! Global based on Tufin Analysis/query and Reports.
- Managed and Supported all of Bluecoat ASG S500-20, S400-40, Reporter and Management Center devices in the Yum! Network.
- Implement SSL VPN solutions including Palo Alto Networks Global Protect with single and multiple gateway solutions including integration of PKI certificates. Integrate multiple vendor IPSEC site to site VPNs, including Palo Alto Networks, Cisco ASA, and Juniper SRX firewalls.
- Experience configuring VPC (Virtual Port Channel), VDC (Virtual Device Context) in Nexus 7010/7018, FCOE using Cisco nexus 5548.
- Experience working with Nexus 9k, 7K, 5K and 2K.
- Removing old unused ISP ACL's from the routers on MX 960'S and ASR 9K.



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- Performed OSPF, BGP, DHCP Profile, HSRP, IPV6, Bundle Ethernet implementation on ASR 9K redundant pair.
- Implemented site to site VPN in Juniper SRX as per customer. Worked on Route-Reflectors to troubleshoot BGP issues related to customer route prefixes also route filtering using Route-maps
- Worked on wild fire advanced malware detection using IPS feature of Palo Alto.
- Worked on Palo Alto design and installation (Application and URL filtering, Threat Prevention, Data Filtering)
- Configured rules and maintained Palo Alto Firewalls & analysis of firewall logs using various tools.
- Design for Guest Network and Mobile Access Network for NAC Solution, comprising of a Wireless LAN Controller solution in DMZs/Internet Gateways with Cisco ISE Appliances for NAC.
- Involved in finalizing the design for Corporate Wireless Network Access for NAC Solution, comprising of Cisco ISE Appliances in all WAN Consolidation Points, and Data Centers.
- Worked on Cisco ISE v2.1, ACS for providing secure network access.
- Configured virtual servers, nodes and load balancing pools on the F5 LTM 6400, 6800 devices for various medical/biomed applications and their availability
- Experience using Identity Authentication technologies, including Active Directory, LDAP, RADIUS TACACS, RSA, 802.1X, NAC, and token-based systems.
- Responsible for Juniper SRX firewall management and operations across our corporate networks.
- Design, and configuring of OSPF, BGP on Juniper Routers and SRX 5400/5600 Firewalls
- Implementation of Site-to-Site VPNs over the internet using 3DES, AES/AES-256 with ASA Firewalls
- Configure various LAN switches such as Cisco catalyst 2900, 3550, 4500, 6509 switches and Access layer switches such as Cisco 4510, 4948, 4507 switches for VLAN, Fast Ether Channel configuration.
- Maintained and created scripts in Python that assisted in pulling in the necessary data into Splunk to meet audit and reporting requirements
- Worked on Datacenter Migration project to migrate the existing 6509, 4509 devices to a Nexus 7010, 5010 and Nexus 2248 FEX based solution.
- Configured Nexus 2000 Fabric Extender (FEX) which acts as a remote line card (module) for the Nexus 5000 to connect servers and storage devices.
- Perform ISSU upgrade on Nexus 7010 devices by operating the supervisors in active/standby mode on the devices by determining ISSU compatibility.
- Experience on working scripting languages Power Shell and Perl for code upgrades and configurations of devices.
- Testing and Verification of Cisco core routers CRS-1 and GSR-12000
- Experience in migration of VLANs & Configured VLANs with 802.1q tagging, Ether channels, and Spanning tree for creating Access/distribution and core layer switching.
- Configured EBGP load balancing and ensured stability of BGP peering interfaces
- Conducted on site QOS testing and prepared reports for the engineering team on ways the networks could be improved





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- Involved in migration of F5 Local traffic managers of LTM 5100 series to LTM 6800 series for higher.
- Worked with engineering team to resolve tickets and troubleshoot L3/L2 problems efficiently.

**Equifax, St. Louis, MO**  
**Jan2015 - July 2017**  
**Sr. Network Security Engineer**

**Responsibilities:**

- Responsible for configuration, maintenance, and troubleshooting of dynamic routing protocols: BGP, OSPF & EIGRP (route redistribution, distribute lists, route-maps, offset-lists, prefix lists, route summarization, route-feedback, BGP attributes) on Cisco Routers 7613, 7201, and 3945E.
- Worked on OSPF, BGP and EIGRP routing protocols, sub-netting, NAT, DNS, LDAP, DHCP, http, HTML, HTTPS, TCP/IP, UDP, SNMP, OSPF, RIP, IPSEC, PPTP, VLAN, STP, RTSP & Multicasting protocols
- Design and implement Catalyst/ASA Firewall Service Module for various LAN's.
- Designed 10 gigabit networks using Cisco Nexus 7000 series switches, Cisco 3800 series routers
- Worked on Cisco ASA 5580, Juniper NS5400, SRX550
- Deploy and support network load balancers, such as F5 LTM/GTM and configuration (Profiles, I Rules) of F5 Big-IP LTM-6400 load balancers
- Configured Virtual servers, pool, pool members, worked on load balancing methods for LTM
- Built B2B VPN connections to 3rd party vendors for access to branch facility and Data Center applications.
- Configuration, troubleshooting of Palo Alto Firewalls - PA200, PA 2K, PA 3K, PA 4K and PA5K series as well as a centralized management system (Panorama) to manage large scale firewall deployments.
- Created VSYS Builds from ASA to Palo Alto Panorama Database Zone, Access Zone.
- Supporting EIGRP and BGP based on the network by resolving level 2 & 3 problems of internal teams & external customers of all locations.
- Monitoring and configuring Cisco 7600 routers and replaced old 6500 and WAN routers from DR testing site at data center.
- Implementing 3750 Stackable switches using Cisco Stack Wise technology. Experience to review and evaluate current and future design issues as required maintaining network integrity, efficient data flow.
- Involved in Firewall Policies implementation to meet access requirements of various teams. Worked on Cisco ASA/Juniper SRX Firewalls primarily with tasks involving policy changes, policy management as per vendor/client requirements add/design policies



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- Used Fluke tool for monitoring WAN (both MPLS & ST) traffic and Wireshark for LAN traffic.
- Working Knowledge on wireless devices (5508,7500 WLC Controllers and 2500,3600,3700 Access points.
- Worked on Solar winds Orion for analysis and monitoring purposes.
- Performing SIP protocol packets flow using Wireshark.
- Worked on Infoblox for creating the DNS entries, A records and CNAMEs.
- Configuring VDC, VPC and FCOE, upgrading NX-OS for Nexus Family Switches.
- Provided proactive threat defence with ASA that stops attacks before they spread through the network.
- Maintaining and troubleshooting SAN backup networks.

**Chevron, CA**  
**Sep 2013-Dec 2014**  
**Network Engineer**

**Responsibilities:**

- Worked on Cisco Routers, Active /Passive Hubs, Switches, Cisco ASA Firewalls, NAT and Juniper SRX firewall
- Deploying Cisco routers and switched such as 7200, 3800, 3600 and 3500, 4500, 5500.
- Implemented TCP/IP,TFTP and related services like DHCP/DNS/WINS
- Check for DNS issues by pinging the server's name. Experience with Wireshark, Test TCP& OPNET
- Escalating customer problems to management and support groups utilizing standard escalation model.
- Provided installation and initial user configuration of Nexus switches at the data centre and providing IP addressing and different user session priorities on the switch.
- Experience with devices Palo Alto Network firewalls such as security NAT, Threat prevention & URL filtering.
- Correlates call issues with WAN performance for advanced troubleshooting.
- Troubleshooting and installing of CRS, ISR, GSR, ASR9000 and Nexus devices.
- Configured and maintained SSL VPN, IPSEC VPN on ASA, Palo Alto and SRX series firewalls, Site-to-Site VPN between ASA Firewall and router
- Responsible for Data Centre Migrations and its operations.
- Secure authentication, redundancy and troubleshooting issues on BIG-IP LTM, ASM, APM and edit policies on F5 network access control.
- Worked on F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability.
- Experienced in configuring Cisco ASA firewalls in various contexts and modes to have the network secure.
- Installed and configured Cisco ASA 5500 series firewall and configured remote access IPSEC VPN.





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- Experience in migration from Cisco infrastructure to Juniper MX routers and switches such as EX and QFX-3500, QFX-5100
- Implement changes to the firewall rule base, network routing tables and ACL to allow only authorized users to access the servers.
- Created security policy according to user's requirement in Cisco ASA-5580, Juniper-SRX-5800 and ISG-1000 Fire-wall using CLI & GUI.
- Experience working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution for a data center access architecture
- Installed Juniper firewalls to replace existing Firewalls which increased network uptime.
- Experience in Layer 3 Routing protocol configurations: EIGRP, OSPF, BGP.
- Worked as senior engineer with Avaya System PHI migration, merging Voicemail system, custom dial planning.
- Designed and deploy various network security & High Availability products like Cisco ASA other security products
- Coordinate and perform VPN Lan2Lan as well as Remote VPN and Firewall security policies as well as NAT Configurations.
- Implemented Security policy by Configuring PIX firewalls.

**Office Depot, Boca Raton, FL**  
**Nov 2012 - Aug 2013**  
**Network Engineer**

**Responsibilities:**

- Develop and implement strategies to support the current and future needs of the company.
- Configured Cisco 2600/3600/7200 series routers using RIP, OSPF, EIGRP and tested authentication.
- Worked extensively on Checkpoint firewalls for analyzing firewall change requests and implementing changes into existing firewall policies, maintaining security standards
- Troubleshooting complex Checkpoint issues, Site-to-Site VPN related. Performed upgrades for all IP series firewalls from R75-R77.
- Migrated the rules from Checkpoint firewalls to ASA firewalls
- Identifying technical problems and debugged hardware and software related to LANs/ WANs.
- Implemented redundancy in Big IP F5 loads balancers to provide uninterrupted services to clients.
- Implementing and configuring F5 LTM for VIP and Virtual servers as per business needs.
- Switching related tasks included implementing VLAN S, VTP and configuring ISL trunk on Fast - Ethernet channel between switches.
- Configured and implemented Nexus 5K and 2K in lab environment



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- Created network diagrams under senior supervision using MS VISIO.
- Resolved all computer related problems, monitored and maintained system functionality and reliability by identifying ways to prevent system failures.

**Polaris, INDIA**  
**May 2010 -Sep 2012**  
**Support Engineer**

**Responsibilities:**

- Perform responsibilities of supporting the daily operations of the network, telecom and troubleshooting network issues.
- Responsible for upgrading the IOS and configuring the new Router and Catalyst Switches.
- Designed and installed small Windows XP based LANs for business clients
- Troubleshot and resolved many user issues Performed network testing and base lining
- Designed ACLs, VLANs, troubleshooting IP addressing issues and backing up of the configurations on switches and routers.
- Implemented Site-to-Site VPNs over the internet utilizing 3DES, AES/AES-256 with PIX Firewalls
- Troubleshoot and Worked with Security issues related to PIX firewalls
- Experience with converting Cisco 6500 IOS to Cisco Nexus NX-OS in the data center environment.
- Provided testing for network connectivity before and after install/upgrade
- Experience in Cisco switches and routers: Physical cabling, IP addressing, Wide Area Network configurations.
- Responsible for creating and maintaining diagrams and documentation of network systems.