**Ahmed Ali Mohammed**

**Summary:**

* 8 years of experience in Routing, Switching and Firewall Security, including hands-on experience in providing network support, installation and analysis for a broad range of **LAN / WAN/MAN** communication systems .
* As a Network Engineer I was involved in the configuration & troubleshooting of routing protocols: **MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4**. Configured IP access filter policies
* Design, implementation and operational support of routing/switching protocols in complex environments including **Spanning Tree, 802.1q**, etc .
* Experience with **JUNOS** platform and worked with **IOS** upgrade of Juniper devices
* Created **VLAN** and **Inter-Vlan** routing with Multilayer Switching .
* Substantial lab testing & validation prior to implementation of **Nexus 9k, 7K, 5K & 2K** connecting to blade servers
* Configuration and troubleshooting on **Juniper EX4500** and **EX8200** switches
* Strong hands on experience on **PIX (506, 515, 525, 535), Palo Alto, ASA (5505/5510) Firewalls**. Implemented security policies using **ACL, Firewall,IPSEC, SSL, VPN, IPS/IDS**.
* Proficient in Cisco IOS for configuration & troubleshooting of routing protocols: **MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4, MPLS**
* Routing Protocols - (**RIPV2, OSPF, EIGRP & BGP), ACL's, NAT, VLAN, STP,VRRP, VTP, HSRP & GLBP**
* In-depth knowledge of deploying and troubleshooting **LAN, WAN, Frame-Relay, Ether-channel**
* Strong hands on experience in **layer-3** Routing and **layer-2** Switching. Dealt with Nexus models like **9k**,**7K, 5K, 2K** series, Cisco router models like **7200, 3800, 3600, 2800, 2600, 2500, 1800** series and Cisco catalyst **6500, 4500, 3750, 3500, 2900** series switches
* Worked on ACE load balancers . Experience with **F5 load balancers** - **LTM, GTM** series like **6400, 6800, 8800** for the corporate applications and their availability
* Configuring, Troubleshooting and Testing of networking system
* Expertise in network protocols, Firewalls and Communication Network design.
* Has Cisco technology experience/knowledge in design, implementation, administration and support
* Provided 24x7x365 availability and on-call support as required
* Excellent working knowledge of **TCP/IP** protocol suite and **OSI** layers
* Sound knowledge of Routing and Switching concepts and **MPLS** design .
* Experience with cisco application centric infrastructure (**ACI**)
* Good knowledge in network hardware and technologies including routers, switches, bridges, hubs, Ethernet, frame relay, wireless, etc .
* Have good knowledge in intrusion detection and prevention systems (**IDPS**)
* Familiar with Cisco firewalls **PIX 515, ASA 5500,** series, knowledge of **Juniper**, **Palo Alto** and **Check Point Firewalls**.
* Working knowledge of the Payment Card Industry Data Security Standards (**PCI DSS**) and assessment processes.
* Dealt with Cisco IP phones, ACD and VOIP devices and configured Voice VLAN’s for Prioritizing voice on the network and did the documentation accordingly with changes.
* working knowledge of Sarbanes Oxley Section(**SOX**) 404 internal controls and audit processes.
* Experience in configuring and troubleshooting various WAN technologies like **MPLS, T1, T3, DS3 and ISDN**
* Experience in **Python.**

**Education:** Bachelors in Electronics and Communication, JNTU, Hyderabad, India

**Certifications:**

* Cisco Certified Network Associate (CCNA)
* Cisco Certified Network Professional: (CCNP)

**Technical Skills:-**

**CISCO & OTHER VENDOR EQUIPMENT** Nexus 9k, 7K, 5K, 2K & 1K, Cisco routers Cisco GSR 12416 (7200, 3800, 3600, 2800, 2600, 2500, 1800 series) Cisco Catalyst switches (6500, 4900, 3750, 3500, 2900 series), PIX Firewall (506/515/525/535), ASA Firewall (5505/5510), Cisco ACE Load Balancers

**ROUTING PROTOCOLS** RIP, IGRP, EIGRP, OSPF, IS-IS, BGP, HSRP, and VRRP& GLBP. Infrastructure services: DHCP, DNS, SMTP, FTP, TFTP

**LAN TECHNOLOGIES** Ethernet, Fast Ethernet, Gigabit Ethernet, & 10 Gigabit Ethernet, Port- Channel, VLANS, VTP, STP, RSTP, 802.1Q

**WAN TECHNOLOGIES** Frame Relay, ISDN, ATM, MPLS, leased lines & exposure to PPP, DS1, DS3, OC3, T1 /T3 & SONET

Packet Switched WAN – ATM, FRAME RELAY, MPLS VPNs

**OS PRODUCTS/SERVICES** DNS, DHCP, UNIX, LINUX, MAC OS X, Microsoft SQL Server 2008, Windows Server 2003, 2008, Windows 7/NT/Vista/XP, VMware, Active Directory, IIS.

**NETWORK SECURITY** NAT/PAT, Ingress & Egress Firewall Design, VPN Configuration,Internet Content Filtering, Load Balancing, IDS/IPS, NAC, Dynamic, Reflexive ACL, and authentication AAA (TACACS+ & RADIUS)

**SECURITY TECHNOLOGIES** Cisco FWSM/PIX/ASDM, Cisco ISE, AMP, SourceFire, open DNS Nokia Checkpoint NG, Juniper SRX, Palo Alto, ACE Module and F5 Load Balancers

**Professional experience:**

**Liberty Mutual, Dover, NH Sept 2014 - Present**

**Sr. Network Engineer**

**Responsibilities:**

* Hands on experience with the configuration and implementation of various Cisco Routers and **L2 Switches .**
* Extensive experience in configuring and implementing **EIGRP, OSPF and BGP** .
* Supported core network consisting of **Cisco 7200 series** routers running multi area **OSPF** .
* Worked **on 2600, 3500, 7613** Cisco Routers and **4500 and 6500** series Cisco Switches.
* Configured and deployed **BIG-IP LTM 6900** for providing application redundancy and load balancing
* Configuration of **EIGRP** and **OSPF** as interior gateway protocol with route filtering and route redistribution .
* Responsible for service request tickets generated by the helpdesk such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support
* Supporting **EIGRP** and **BGP** for problems of **L2/L3** in internal teams & external customers .
* Providing daily network support for national wide area network consisting of **MPLS, VPN** and point to point site.
* Upgrading used **DHCP**to automatically assign reusable IP addresses to **DHCP** clients.
* Support customer with the configuration and maintenance of **PIX, Palo Alto**and **ASA firewall** systems
* Built site-to-site **IPSec VPNsover Frame-relay & MPLS** circuits on various models of Cisco routers to facilitate adding new business partners to new and existing infrastructures .
* Installation and administration of Checkpoint **R 75.40 Firewall**.
* Worked on documentation to create Visio diagrams using MS Visio .
* Worked on **F5 BIG-IP LTM 8900**, configured profiles, provided and ensured high availability.
* Worked on **F5 load balancers** deploying many load balancing techniques with multiple components for efficient performance.
* Experience on **Cisco ISE** for users accessing the network on an authorized, policy-compliant device .
* Experience with **Network Admission Control (NAC)** in designing .
* Established user identity, location, and access history, which can be used for compliance and reporting using **Cisco ISE**
* Installation, Maintenance, Troubleshooting Local and Wide Areas Network (**ISDN, Frame relay, NAT, DHCP, TCP/IP) .**
* Configuration of Access List **ACL** (Std., Ext, Named) to allow users all over the company to access different applications and blocking others .
* Configured **STP** for loop prevention and **VTP** for Inter-**VLAN** Routing .
* Hands on experience with Nexus Switches **2K, 5K, 7K and 9k** .
* Experience with **juniper** routers with routing protocols as **OSPF, BGP**
* Design, implementation and support personnel to configure and operate the **Juniper Networks** products
* Support ongoing efforts in defining best practice policies for **Juniper** product applications used by Customer
* Created standard access lists to allow **SNMP, NTP** and logging servers.
* Documented new **VPN** enrollments in a database and create standard procedures for further improvement.
* Troubleshoot traffic passing managed firewalls via logs and packet captures.
* Configured multiple domain name services (**DNS)**, email services (**Exchange Server**), web, and file transfer protocol services (**FTP)** for various platforms including line leasing through **DHCP** servers.
* Configuring various advanced features (Profiles, monitors, iRules, Redundancy, SSL Termination, Persistence, **SNATs, HA on F5 BIGIP** appliances **SSL** termination and initiation, Persistence, Digital Certificates, Executed various migration/upgrade projects across F5 and hands on with **F5 BIGIP LTMs/EM**.
* Juniper experience on routing products (**MX5 through MX960**) and security products (**SRX**)
* Networking protocols worked with included but not limited to **TCP/IP, DNS, WINS, DHCP, VPN,** Terminal Services, Routing and Remote Access, Network Design, wiring and cabling.
* Key contributor in the execution of all regulatory and compliance (**SOX, PCI, etc**.) readiness assessments and information sessions.
* Experience in **Python**, with knowledge of Python web framework **Django .**

**OnDeck, NYC, NY Jan 2013 – Sept 2014**

**Network Engineer**

**Responsibilities:**

* Network Architect for datacenter consolidation project. Consolidated 16 global datacenters consisting of **Cisco 6500, 4500, 2800, ASA 5540, F5 BIG-IP 3600**. Consolidation was in preparation to upgrade datacenters to **Nexus 9000, 7000, 5000, 2000, and ASR 1000** backbone infrastructure.
* Provided Cloud Network Infrastructure support for global clients . Included setting up new **VPNs**, **NAT**, and **URL** configuration
* Implemented **802.1X** port authentication solution using Cisco ISE and Microsoft Active Directory
* Primary responsibility is to design and deploy various network security & High Availability products like Cisco ASA other security products
* Install, Manage & Troubleshoot Large Networks & Systems Administration on Windows & Linux platforms in Development, Lab & Production Environments
* Worked extensively in Configuring, Monitoring and Troubleshooting **Cisco's ASA 5500/PIX** security appliance, Failover DMZ zoning & configuring VLANs/routing/NATing with the firewalls per design
* Worked **on F5 Load Balancers** – Configuring rules, Profiles, **Nats/Snats**, Load Balancing
* Responsible for Cisco ASA, Palo Alto firewall administration across our global networks
* Set up site-to-site and remote access **VPN**, and created security policies on firewalls
* Implement and configured **GLBP** (on core switching and also for VPN redundancy), **HSRP** on different location of office on the switched network and managing the entire multilayer switched network
* Troubleshooting and installing of **CRS, ISR, GSR, ASR9000** and Nexus devices.
* Engineering the configurations for the different branches, campus locations
* Worked on the redistribution of connected routes on all OSPF devices so that all connected subnets are advertised via **OSPF**
* Configuration and extension of **VLAN** from one network segment to other segment between Different vendor switches (Cisco, Juniper)
* Dealt with creating **VIP**(virtual servers), pools, nodes and applying iRules for the virtual servers like cookie persistency, redirection of the URL
* Design, and configuring of **OSPF, BGP on Juniper Routers and SRX Firewalls**
* Configuring **IPSEC VPN** on **SRX** series firewalls
* Configuration and troubleshooting on **HSRP, VRRP, GLBP, RSTP, MST** related issues coming in network environment
* Experience with multi-domain security management (provider 1)
* Configuration and extension of VLAN from one network segment to their segment between Different vendor switches (Cisco, Juniper)
* 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.
* Migration of existing **IPSEC VPN** tunnels from Pre-Shared key to Certificate Authority for purpose of scaling
* Experience with event-driven programming in **Python**
* Experience with Automated Call Distribution (ACD), dealing with inbound and outbound calls
* Responsible for Cisco ASA firewall administration across our global network

**QVC Studio, West Chester, PA Oct 2011 – Dec 2012**

**Network Engineer**

**Responsibilities:**

* Configured **IP RIP, PPP, BGP, IS-IS and OSPF** routing protocols
* Involved in the configuration & troubleshooting of routing protocols: **MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4.** Configured IP access filter policies .
* Experience with Checkpoint Firewall policy provisioning
* Identifying technical problems and debugged hardware and software related to **LANs/ WANs**, different kind of workstation (**PC/ MAC/ LINUX**), laptops, printers, and copier.
* Identify, design and implement flexible, responsive, and secure technology services
* Experience with Firewall Administration, Rule Analysis, Rule Modification
* Configured and implemented **Nexus 5K and 2K** in lab environment
* Experience with configuring **Nexus 2000 Fabric Extender (FEX)** which acts as a remote line card (module) for the **Nexus 7000**.
* Test Equipment Network Instruments **OPNET, Ethereal/Wireshark**.
* Troubleshoot traffic passing managed firewalls via logs and packet captures
* Configured and resolved various OSPF issues in an OSPF multi area environment.
* Managed fast Layer 3 switched/routed LAN/WAN infrastructure as a part of Network team . The LAN consisted of Cisco campus model of **Cisco 3550** at access layer, **Cisco 6513** at distribution/core
* Check for DNS issues by pinging the server’s name. Experience with Wireshark, Test **TCP& OPNET**
* Understanding the JUNOS platform and worked with IOS upgrade of Juniper devices
* Configuration and troubleshooting on Juniper **EX4500 and EX8200** switches
* Implementing VoIP solutions using **SIP & H.323**, also have sound knowledge of **Avaya VoIP** products
* Managed inbound calls with **ACD**
* Convert Branch WAN links from **TDM and SIP** circuits to **MPLS** and to convert encryption from **IPSec/GRE to Get VPN** .
* Configuring and troubleshooting **CISCO catalyst 6509, 7609, 7613** with Supervisor cards, Cisco **3640, Cisco GSR 12416,21418**(with PRP and RPR processors)
* Configuring **RIP, OSPF and Static routing** on Juniper Routers
* Designed and implemented Cisco VoIP infrastructure for a large enterprise and multi-unit office environment. Met aggressive schedule to ensure a Multi-office reconfiguration project which was successfully delivered
* Experience with AMP to strengthen defenses and protect against known and emerging threats
* Experience using AMP  Continuously track activity and communication on devices and on the system level to quickly understand root causes and the history of events leading up to and after a compromise
* Experience with implementing Application centric infra-structure **ACI**
* Maintained an advanced level of knowledge in the technical areas relevant to **SOX, PCI DSS** and other regulatory requirements .
* Configuration and troubleshooting of **Cisco catalyst 6509,7613** with supervisor cards
* Design, implementation and operational support of routing/switching protocols in complex environments including **BGP, OSPF, EIGRP, Spanning Tree, 802.1q,** etc.
* Estimated Project costs and created documentation for project funding approvals.
* Managed various teams involved in site surveys, cabling specifications, Network equipment installation and configuration.
* Implemented redundant Load balancing technique with Internet applications for switches and routers .
* Planned resources and presented project status to higher management.
* Excellent troubleshooting knowledge on **T1, T3, OC-3 and OC-12 .**

**Apollo Health, India Aug 2010 – Sep 2011**

**Network Engineer**

**Responsibilities:**

* Migration of **RIP V2 to OSPF, BGP routing protocols .**
* Configured **EIGRP** for Lab Environment .
* Implemented **ISL** and **802.1Q** for communicating through **VTP .**
* Working with Client teams to find out requirements for their Network Requirements.
* Designing0 solutions for frozen requirements using Cisco Routers and Switches .
* Deploying the network infrastructure to meet the requirements
* Experience working with **F5 Load Balancer LTM and GTM module**
* Experience configuring Virtual Device Context in **Nexus 7010 .**
* Experience with Juniper JUNOS operating system and working on **M and MX series routers**
* Created VLAN and Inter-V
* lan routing with Multilayer Switching.
* Substantial lab testing & validation prior to implementation of **Nexus 7K, 5K & 2K** connecting to blade servers
* Understanding the JUNOS platform and worked with IOS upgrade of Juniper devices
* Completed service requests (i.e. – IP readdressing, bandwidth upgrades, IOS/platform upgrades, and etc)
* Providing technical consultancy for better application response using **QoS**
* Monitor performance of network and servers to identify potential problems using **SourceFire**
* Performed **RIP, OSPF, BGP EIGRP** routing protocol administration .
* Installed wireless access points (WAP) at various locations in the company.
* Maintained redundancy on **Cisco 2600, 2800 and 3600** router with **HSRP** .
* Real time monitoring and network management using Cisco Works LMS.
* Provided technical support on hardware and software related issues to remote production sites.
* Other responsibilities included documentation and support other teams

**Blooms Software solutions, India May 2008 – July 2010**

**Network Engineer**

**Responsibilities:**

* Managed network connectivity and network security, between Head offices and Branch office
* 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
* Responsible for the installation, configuration, maintenance and troubleshooting of the company network . Duties included monitoring network performance using various network tools to ensure the availability, integrity and confidentiality of application and equipment
* Installation & configuration of **Cisco VPN** concentrator **3060** for VPN tunnel with Cisco VPN hardware & software client and **PIX firewall**
* Configured application load balancing using **F5 LTM**.
* Configuration and troubleshooting on Juniper **EX4500 and EX8200** switches
* Dealt with Cisco IP phones and VOIP devices and configured Voice VLAN’s for Prioritizing voice on the network and did the documentation accordingly with changes.
* Configured, Managed and troubleshooting **802.1X** authentication for windows server-client based environment.
* Configured Firewall logging, **DMZs**& related security policies & monitoring
* Creating Private VLANs & preventing VLAN hopping attacks & mitigating spoofing with snooping & IP source guard
* Involved in troubleshooting of **DNS, DHCP** and other IP conflict problems
* Implementation of name resolution using **WINS & DNS in TCP/IP** environment
* Configured **FTP** server for inside/outside users & vendors
* Implemented the security architecture for highly complex transport and application architectures addressing well known vulnerabilities and using access control lists that would serve as their primary security on their core & failover firewalls