**Manoj Mettu** [**manojmettu7@gmail.com**](mailto:manojmettu7@gmail.com) **Ph.no:618-305-9407**

**SUMMARY:**

* 8 years of experience in networking, including hands-on experience in **routing, switching, security and firewall technologies.**
* In-depth expertise in designing, deploying and troubleshooting **LAN, WAN, Ether-channel and Frame relay.**
* Experience with **Cisco IOS, Cat OS, Cisco IOS-XR, Cisco NXOS.**
* Experience with **Cisco ASR 9K, Cisco GSR, Cisco CSR, Cisco 7200vxr, and Cisco 7600, 7200, 6500,4000,3800,3600 and 3200 routers.**
* Expertise in configuring Datacenter switches **Cisco Nexus 7k, 6k, 5k, 3k series** as well as **Catalyst switches3k, 4k, 6k series.**
* Have knowledge on various advanced technologies like **VOIP, H.323, SIP, QOS, IPv6, and Multicasting.**
* Responsible for establishing as well as maintaining **server hardwa**re security compliance within implemented Freddie Mac security standards and controls.
* Worked extensively on **Cisco Firewalls, CiscoPIX (506E/515E/525) & ASA 5500(5510/5540) Series.**
* In depth understanding of **IPv4, IPv6and implementation of IP Subnetting.**
* Enhanced level of experience in configuration &troubleshooting of routing protocols: **RIPv1, RIPv2, EIGRP, OSPF, MP-BGP, IS-IS BGPv4, LDP and MPLS.**
* In-depth knowledge and hands-on experience in Tier II ISP Routing Policies, Network Architecture, **VLSM, TCP/IP, NAT, DHCP, DNS, FT1/T1/FT3/T3 Sonet POS OCX/GigE circuits, ACL’s, Firewalls**.
* Configuration and troubleshooting complex layer 2 technologies such as **VLAN Trunks,VTP,Ether-Channel,STP, RSTP and MST.**
* Strong knowledge in **HSRP, VRPP** Redundancy Protocols.
* Performed V2V and P2V migration of Physical servers to **VMware ESXi** hosts.
* Proficient in load balancers like **A10, Cisco ACE, F5 BIG IP, CITRIXand VIPRION systems.**
* Hands-on experience in Configuring, Monitoring and troubleshooting **Cisco’s ASA 5500/PIX** security appliance,failover DMZ zoning &configuring **VLAN’s/routing/NATing** with the firewalls as per the design.
* Experienced in handling and installing **Palo Alto Firewalls, Checkpoint firewalls.**
* Upgraded the **VMware tools, VM Hardware 9** on all the VM's as a part Upgrade process and also Upgraded.
* Profound experience deploying **BIG-IP F5 LTM** Load balancers for load balancing and traffic managementof business application.
* Experience in configuration and troubleshooting of **Wireless 802.11 b/g/n** / wireless devices.
* Expertise on **Juniper T-Series, J-series, M-Series,MX-Series routers and Juniper: M320, MX80, MX480, MX960 and EX4200, EX8200 switches.**
* Excellent expertise in network management tools and sniffers like **SNMP, HP-Open view, Wireshark and Cisco** works to network Operation Center.
* Sound knowledge of virtual firewalls like**VSX, IDS, IPS** as well as encryption techniques.
* Experience in Installing, Configuring, Tuning and troubleshooting of **WebLogic Server** 9.x /10.x in various environments.
* Maintain technical knowledge by attending educational workshops and reviewing technical publications.

**CERTIFICATIONS**

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

**TECHNICAL SKILLS**

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| --- | --- |
| **Networking Protocols** | RIPv1,RIPv2,IGRP,EIGRP,OSPF,BGPv4,MP-BGP,TCP-IP,UDP,HTTP |
| **Cisco Routers** | 2500,2600,3200,3600,3800,4000,7200,7600,ASR9000 Series |
| **Cisco Switches** | Catalyst 6500,MSFC,MSFC2,7600,3700,3500 |
| **WAN Technologies** | Frame Relay,HDLC,PPP,MLPPP,ISDN,ATM,Bluecoat. |
| **LAN Technologies** | VLAN,Spanning-tree,VTP,VMPS,ISL,Dot1q,DTP,PVST |
| **Circuit Switched WAN** | T1/E1-T3/E3/OCX |
| **Load Balancer** | F5 BIG IP LTM, Ax10 |
| **Firewalls** | VSX,IDS,IPS,Palo Alto PA-500, PA-2k, PA-3k, PA-5k & PA-7050,  Checkpoint R65/R70/R75/R76/R77. |
| **Redundancy Protocols** | HSRP,VRRP,RPR,NSF/NSR |
| **Physical Interface** | Fast Ethernet,Gigabit Ethernet,Serial,HSSI,Sonet(POS),SDM,DWDM,MEF |
| **Network Management**  **Tools** | SNMP, HP-Open view,Wireshark,NetFlow,Syslog. |
| **Security Technologies** | Cisco PIX/ASDM/ASA,Juniper SRX |
| **Infrastructure Services** | DHCP, DNS, SMTP, POP3, FTP, TFTP, NAT/PAT, PIM,IDS, SPAN Ports. |
| **Routed Protocols** | TCP/IP,IPX/SPX |
| **Languages/Tools** | C,C++,VB script, Python,Perl, Shell. |
| **Juniper Routers** | Juniper T-Series ,M-Series, MX-Series ,J-Series Routers |
| **Operating System** | Windows XP, Vista, Windows 7,Unix,Linux,MS Visio, |

**PROFESSIONAL EXPERIENCE**

**Client: T-Mobile, Bellevue, WA July 2014 to Till now**

**Role: Sr. Cisco/Juniper Network Engineer**

**Key Responsibilities:**

* Installing and configuring Datacenter switches- **Cisco Nexus 7k, 6k, 5k, 3k series.**
* Worked extensively on Checkpoint, **Cisco Firewalls, Cisco PIX (506E/515E/525/) & ASA 5500(5510/5540).**
* Deployed **ASR 9K**,**Cisco GSR, Cisco CSR, Cisco 7200vxr, Cisco 7600, 7200, 6500,4000,3800,3600 and 3200** Routers with **Cisco IOS-XR** as the Campus Edge Routers in the network.
* Configured **OSPF, BGP on ASR 9010 Routers Worked extensively on Cisco Firewalls, Cisco PIX (506E/515E/525/) & ASA 5500(5510/5540).**
* Install and configure **VMware ESXI 5.5 on cisco 230 B series server (UCS)**.
* Implementation and documentation of **VMware vSphere 5.5, vCloud Director 5 and 5.1, View 4.6 - 5.1, Cisco.**
* Managed the operation of various **Windows NT** and IBM OS/2 PC servers and communications   
  equipment
* Monitored **server hardware**, applications, systems operations and performance in a dynamic network operations environment consisting of web, file, application and directory servers.
* Administered **WebLogic Application Server** from System Administration Console, Command Line Interface and WLST.
* Provide **hardware** support for the Data Center and the compute infrastructure assets housed within the site.
* Experienced in Installation, Configuration and Administration of **VMware vSphere 5.5, vCenter.**
* Virtual infrastructure utilizing **VMware vSphere suite 5.5 bundled with ESX hosts, vCenter Servers**.
* Deployed **ASR 9K Routers** with **Cisco IOS-XR**&**Cisco NXOS**as the Campus Edge Routers in the network.
* Troubleshooting and fixing of problems on **WebLogic Application Server**.
* Applied patches to **WebLogic**server.
* Configured **OSPF, BGP on ASR 9010 Routers.**
* Hands on experience **F5 LTM, GTM series like 6400, 6800, 8800**.
* Worked on **ASA (5540/5550) Firewalls. Implemented Security Policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS).**
* Configuring routing protocols **RIP, EIGRP, OSPF, MP-BGP,MPLS,IS-IS,LDP and BGPV4**.
* Experience working with **Nexus 7010, 5020, 2148, 2248 switches.**
* Implemented, configured BGP WAN routing, converting OSPF routes to BGP (OSPF in local routing).
* Hands on experience working on **A10 Thunder series and AX-3030, 3400 series, ADC-3430, 4430, 4440, 5330.**
* Experience working with **JUNOS OS on Juniper Routers and Switches**.
* Worked on **Juniper M-Series, MX-Series, and J-Series Routers.**
* Experience in**Juniper EX-Series, M-Series, MX-Series routers and Juniper: M320, MX80, MX480, MX960 and EX4200, EX8200 switches.**
* Tested various networks which works on the protocols like **TCP/IP, UDP, SNMP, DNS, DHCP, HTTP, HTTPS, ICMP, SMTP, FTP, 802.1q, ARP, NAT, and IPSEC.**
* Installed and configured the **Cisco ACE and CSM** for firewall/Server Load balancing for Cisco Catalyst switches.
* Installed and configured four **PIX 525** and two **ASA 5505** in the remote access location away from the central campus.
* Maintain and enhance multiple Dell EqualLogic platforms, consisting of multiple members with 10K SAS, RAID 50, **RAD10**, and iSCSI. Also implementing the respective monitoring and reporting products to maintain visibility of system performance.
* Implement a **Cisco UCS domain** consisting of 4x 5108 chassis, 24x blades (B200 and B22) to supplement rack mount Dell servers
* Configuring **RIP, OSPF and Static routing on Juniper M and MX series Routers.**
* Configured Cisco 1231 Access points with 5959 and 4941 **antennas (802.11/a/g).**
* Performing network monitoring, providing analysis using various tools like **WireShark, Solarwinds etc.**
* **Strong knowledge in Virtualized Network Function (VNF) and Network Function Virtualization (NFV)** layers.
* Experience with migration Hybrid based **Cisco Cat OS** and **Native Cisco IOS** on 6500 switches
* Experience with convert **Checkpoint VPN rules** over to the Cisco ASA solution. Migration with Cisco ASA VPN experience
* Hands on experience in Quality of service (**Qos).**
* Hands on experience in migration of VoIP systems **(CUCM, CUC, UCCX, CUPS)**in v9.x and v10.x.
* Experience in SDN Controllers such as **Contrail,OpenDaylight, Onos.**

**ENVIRONMENT**

* Cisco 3750/3550/3500/2960 switches and Cisco ASR 9K/ 7200/3640//3845/3600/2800 routers, Cisco ASA5510, Juniper Router like EX-2200, EX-4200, EX-4500, MX-480, M Series, Firewall SRX210, SRX240 and Checkpoint, RIP, EIGRP, OSPF, MPBGP, LDP and BGPV4, with Nexus 7010, 5020, 2148, 2248 switches.

**Client: Inter-Continental Hotels Group IHG, October 2012 to July 2014**

**Alpharetta, Georgia**

**Role: Sr. Network Engineer**

**Key Responsibilities:**

* 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 switch at access layer, Cisco 6513/6509E switches at distribution/core.
* Ability to understand and **troubleshoot server**, **network, storage (SAN)** and **mainframe hardware**problems.
* Involved in the configuration & troubleshooting of routing protocols: **MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4**.
* Strong understanding of **VMware Networking** concepts like creation of **vSwitches**, different types of port groups, NIC Teaming and VLAN Problem management on **VMware ESX 3.X** and Virtual Center **and vMotion.**
* Configured **VMware** on clustered environment, Implemented **VMotion,** Virtualized Windows servers using **VMware Converter P2V** and setup Lab Manager.
* Troubleshooting and fixing of problems on **WebLogic Application Server**.
* Configuring rules and Maintaining **Palo Alto Firewalls & Analysis of firewall logs** using various tools.
* Configuring, Monitoring and Troubleshooting **Cisco’s ASA 5500/PIX** security appliance, Failover DMZ zoning and configuring **VLANs/routing/NATing** with the firewalls as per the design.
* Configuring **BGP, MPLS in Cisco IOS XR.**
* Configured web server plug-ins Apache 2.2 for **WebLogic application servers**.
* Migrated **WebLogic server** applications from 9.2/10.0 to 11g/12c
* Installing and configuring new cisco equipment including **Cisco catalyst switches 6500, Nexus 7010, Nexus 5548 and Nexus 2k** as per the requirement of the company.
* Experience with **Juniper SRX 240, SRX 220, SRX 300 Firewalls.**
* Configured **HSRP** and **VLAN trucking 802.1Q,VLAN Routing on Catalyst 6500 switches.**
* Hands-on Experience inconfiguring**RIP, OSPF and Static routing on Juniper M and MX series Routers.**
* Monitoring, troubleshooting and reporting for system back-ups using Legato Networker, **Windows patch**management for Intel servers.
* Configured Security policies including **NAT, PAT, VPN, Route-maps and Access Control Lists**
* Installation and configuration of **DNS, DHCP, IIS WEB and FTP servers.**
* Successfully installed **Palo Alto PA-3060 firewalls** to protect Data Center and provided L3 support for routers/switches/firewalls.
* Excellent troubleshooting knowledge on **T1, T3, OC-3 and OC-12.**
* Working with **Cisco Nexus 2148 Fabric Extender** and **Nexus 5500** series to provide a Flexible Access Solution for datacenter access architecture
* Implemented Positive Enforcement Model with the help of **Palo Alto Networks.**
* Responsible for setting up the infrastructure environment with majority of **Cisco & Palo Alto** appliances apart from various other equipment.
* Researched, designed, and replaced aging **Checkpoint firewall** architecture with new next generation
* Configured and maintained **IPSEC and SSL VPN's on Palo Alto Firewalls.**
* Implemented Zone Based Firewalling and Security Rules on the **Palo Alto Firewall**.
* Experience in **OpenStack platform**.
* Deployed 7613 as PE and CE router and Configured and troubles hooted the Edge Routers.
* Experience with **A10, F5 load balancers – LTM, GTM series like 6400, 6800, and 8800** for corporate applications.
* Working with **BGP, OSPF protocols in MPLS Cloud,VPLS, MPLS QoS, MPLS TE and mVPN.**

**ENVIRONMENT**

* Cisco 6509/ 3750/3550/3500/2950 switches, Cisco 7200/3845/3600/2800 routers, Juniper EX-Series Ethernet Switches, EIGRP, RIP, OSPF, BGP, VPN, MPLS, CSM,SUP720, Ether Channels, Wireshark, F5 load balancers – LTM, GTM and CISCO ACE load balancers.

**Client:Green Bank, Dallas, TX  April 2011 to October 2012**

**Role: Cisco/Juniper Network Engineer**

**Key Responsibilities:**

* Profound knowledge in working and implementing **F5 Load balancers** in various networks.
* Configuring routing protocols **OSPF, EIGRP, RIPv1, RIPv2, BGP, LDP and BGPV4.**
* Configuring various advanced features, 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 experience with **F5 BIGIP LTMs/EM.**
* Worked On **UNIX, LINUX, and Windows Platforms** and also involved in capacity planning of NetworkMaintenance.
* Established **remote server management** and provided remote systems administration.
* Responsible for day-to-day operational maintenance, support, and upgrades for Windows servers and **VMware.**
* Used **VMware Update Manager** to install critical and locally tested updates to the ESX Host.
* Worked **on BEA WebLogic Portal Server** 9.x/10.x in various environments like Development, QA, and Production.
* Experience in developing the applications on multiple **WebLogic Servers** and maintaining Load balancing, High availability and Failover.
* Involved in Load testing the application running on **WebLogic server** using various tools.
* Hands on experience in Configuring **VLAN’s, VTP’s, enabling trunks** between switches.
* Worked on Extensively on **Cisco Firewalls, Cisco PIX (506E/515E/525/) & ASA 5500(5510/5540) Series.**
* Experience in HSRP standby troubleshooting & Experience in configuring & upgrading of Cisco IOS.
* Hands on experience with **Cisco 3500, 3750, 4500, 6500** series equipment and configuring and deploying and fixing them with various modules like **Gig card, VPN SPA card, WIC card.**
* Understanding & Implementation of **IPSEC & GRE tunnels** in VPN technology.
* Experience working with **JUNOS OS on Juniper Routers and Switches**.
* Worked on Juniper **M-Series, MX-Series, J-Series Routers**.
* Also worked on Juniper security firewall devices **SRX3600, SRX5400**.
* Cisco IOS experience on 3600/7200 class hardware in complex WAN environment and experience on Cisco OS and IOS on **CAT6500** in a complex data center environment.

**ENVIRONMENT**

* Cisco Firewalls, Cisco PIX (506E/515E/525/) & ASA 5500(5510/5540) Series, Cisco (3500, 3750, 4500, 6500) routers, F5 BIGIP LTMs/EM, Cisco Nexus 7K/5K,2248/3560/5020/6509,Aruba Controllers 6000, 3600, 3400,650.

**Client: Aircel, Hyderabad, India August 2009 to April 2011Role: Cisco Network Engineer**

**Key Responsibilities:**

* Configuring/Troubleshooting issues with the following types of routers **Cisco (7200, 6500, 4500, 1700, 2600 and 3500 series)**, to include: **bridging, switching, routing, Ethernet, NAT, and DHCP, as well as assisting with customer LAN /WAN, router/firewalls**.
* Hands on experience with **Nexus Switches 2K, 5K and 7K**.
* Configured and worked on routing protocols **EIGRP, RIP, BGP and OSPF.**
* Performs **server maintenance, troubleshooting, systems upgrades** and downgrades as needed or requested.
* Designing, configuring, implementing and troubleshooting **VLAN’s, VTP, Spanning Tree (STP), Trunking (dot1q and ISL) and Ether channel.**
* Implementing and managing traffic engineering on top of an existing **Multiprotocol Label Switching (MPLS)** network using **Frame Relay and Open Shortest Path First (OSPF).**
* Configuring and implementing **F5 BIG-IP load balancers** to maintain global and local traffic.
* Installed and configured **Cisco 3560 2950 2924 switches ,Cisco 6509 6513 5500 series Layer 3 switches, Cisco Pix firewall 500 series and Wireless Access points Cisco 1230**.
* Provided redundancy in a multi homed **Border Gateway Protocol (BGP**) network by tuning AS-path..
* Configuring **HSRP** for network redundancy and High availability.
* Coordinated with team for the migration of **T1, T3** circuits and for new EVPL connection.
* Verification of T1 circuit using Loopback test, and helped in successful T1 cutover
* Configured **Cisco 1231 Access points with 5959 and 4941 antennas (802.11/a/g).**
* Configuring **AAA** using **TACAS+** and **ACS server.**
* Implemented **SNMP** and **RMON** on Cisco routes to allow for network management.

**ENVIRONMENT**

* Cisco (7200, 6500, 4500, 1700, 2600 and 3500 series) routers, EIGRP, RIP, BGP and OSPF protocols, DHCP, DNS, ATM, TACAS+, Cisco( 6509 6513 5500)series Layer 3 switches,F5 BIG-IP, Cisco Pix firewall 500 series, Access points Cisco 1230.

**Client: Integrated Wireless Solutions, India May 2008 to August 2009**

**Role: Network Technician**

**Key Responsibilities:**

* Configured and supported TCP/IP networks.
* Maintained complex **LAN/WAN** networks with several VLANS and provided support for routing protocols.
* Maintains and organizes **server inventory** as well as all spare parts and components.
* Monitored the network with **Cisco Works 2000.**
* Managed IP addressing and implemented IP Access Lists.
* Worked on Routers **Cisco 2620, Cisco 3750, and Cisco 2950 Switches**& Link sys wireless access points.
* Configured and troubleshoot issues of **VLAN, VTP, STP and Trunks.**
* Evaluate and recommend inter-connectivity hardware, software, and services to fulfill various businesses needs as requirements develop.
* Configured all devices for remote sites/plants, vendors and added new equipment to **RADIUS** and worked with **MPLS-VPN** and **TACACS** configurations.

**ENVIRONMENT**

* Cisco (2620, 3750, 2950) series routers, VLAN’s, RADIUS, TACACS+, HSRP.

**EDUCATION**

* Bachelors in Electronics and Communication Engineering - Jawaharlal Nehru Technological University, India.