

Deepa Raj

Network Security Engineer - Biogen

Palo Alto, CA - Email me on Indeed: [indeed.com/r/Deepa-Raj/1c035bfe4dc01143](https://www.indeed.com/r/Deepa-Raj/1c035bfe4dc01143)

- Around 7+ years of IT experience in implementation, troubleshooting and maintenance of complex Network & Security devices
- Maintain and administer firewalls: Palo Alto, Fortinet, Juniper, Cisco, and Check Point.
- Configure and maintain security policies on Palo Alto Firewalls.
- Experience with Cisco and JUNOS platform and worked with IOS upgrade on both devices
- Experience and Strong knowledge on Juniper SRX5400, SRX300, SRX550 series firewalls and Juniper Net Screen Firewalls like NS50, SSG 550M, ISG 1000, ISG 200.
- Design and configuring of OSPF, BGP on Juniper Routers and SRX Firewalls.
- Experience with converting Checkpoint ASA rules over to the Juniper solution. Migration with both Juniper and Cisco ASA VPN experience.
- Installation, configuration and maintenance of Cisco ASA 5500 and Cisco PIX Firewall 500 series.
- Experience with converting PIX rules over to the Cisco ASA solution.
- Configuring Voice VLANS with respect to Cisco VOIP phones 7940, 7960.
- Established IPsec-VPN tunnels with ASA firewalls between branch offices and headquarters.
- Worked on Load Balancer F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability.
- Hands on Experience configuring and testing F5 iRules using Browser (IE), HTTP watch.
- Hands on experience with QKVIEW in F5 networking tools for analyzing the real-time traffic flow of the packets, TCPDUMP, SOLARWINDS, SPLUNK for network monitoring and troubleshooting tools.
- Knowledge of design, installation, configuration, maintenance and administration of Palo Alto Firewalls.
- Configure all Palo Alto Networks Firewall models (PA-2k, PA-3k, PA-5k) as well as a centralized management system (Panorama) to manage large scale firewall deployments.
- Extensive hands-on experience with complex routed LAN and WAN networks, routers and switches. Hands-on configuration and experience in setting up Cisco routers to perform functions at the Access, Distribution, and Core layers.
- Advanced knowledge of OSI model, TCP/IP, Internet technologies, system security, firewall infrastructure, network architecture and Cisco Network Routing / Switching (Layer 2 and 3), including LAN and WAN, design.
- Strong hands on experience in installing, configuring, and troubleshooting of Cisco 7600, 7200, 3800, 3600, 2800, 2600, 2500 and 1800 series Routers, Cisco Catalyst 6500, 4500, 3750, 2950 and 3500XL series switches.
- Good knowledge of CISCO NEXUS data center infrastructure with 5000 and 7000 series Nexus switches including CISCO NEXUS Fabric Extender (223, 2248).
- Working knowledge of frame relay, MPLS, OSPF, BGP and EIGRP routing protocols, NATing, sub-netting, DNS, WINS, LDAP, DHCP, HTTP, HTML, HTTPS, TCP/IP, UDP, SNMP, OSPF, RIP, IPSEC, PPTP, VLAN, STP (Spanning tree Protocol), RSTP & Multicasting protocols.
- Implementing and Troubleshooting Cisco Routers [...] using Static, RIP, IGRP, OSPF, BGP, EIGRP & experience on Checkpoint, Cisco PIX & ASA devices.
- Well Experienced in configuring protocols HSRP, GLBP, VRRP, ICMP, IGMP, PPP, HDLC, PAP, CHAP, and SNMP. Experience in implementing TCP/IP addressing scheme, LAN/WAN Protocols, MPLS and I/ Troubleshooting tools for example protocol analyzers, load generators & network traces.
- Experience with design and implementation of Virtual Switching System (VSS).
- Experience in physical cabling, IP addressing and subnetting with VLSM, configuring and supporting TCP/IP, DNS, installing and configuring proxies.
- Network security including NAT/PAT, ACL, VPN Concentrator.

- Network Security - Anomaly Detection in Attack Prevention System, Network and Host IPS/IDS, Cisco PIX firewall, Vulnerability scanning, Penetration testing, Buffer Overflows, Cross Site Scripting
- Expertise in document creation with technical configurations, billing, security standards design and network documentation using MS Visio and MS office.

WORK EXPERIENCE

Network Security Engineer

Biogen - Durham, NC - August 2016 to Present

Responsibilities:

- Experienced with JUNOS and Cisco device configuration like Routers and switches.
- Hands on experience with JUNOS platform and worked with IOS upgrade on Juniper devices.
- Configured OSPF, BGP on Juniper Routers and SRX Firewalls.
- Worked with the Call manager installation for deploying Cisco VOIP.
- Installed and maintained various LAN/WAN technologies and applications connecting remote sites to corporate headquarters.
- Involved in Configuring, implementing, and troubleshooting routers and switches with various permissions, account settings, and parameters including security firewalls.
- 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.
- Configuration of routing protocols EIGRP and BGP for small to medium sized branches based on company branch standards, including redistribution and route maps.
- Provided redundancy in a multi homed Border Gateway Protocol (BGP) network by tunings AS-path.
- Worked with TCP/IP, DNS, WINS, DHCP, VPN, Terminal Services, Routing and Remote Access, Network Design, wiring and cabling.
- Cisco IOS upgrading on 3600/7200 class hardware in complex WAN environment and experience on installing IOS on CAT6500 in a complex datacenter environment.
- Hands on Juniper SRX5400, SRX300, SRX550 series firewalls and Juniper Net Screen Firewalls like NS50, SSG 550M, ISG 1000, ISG 200.
- Configuring rules and Maintaining Cisco Firewalls & Analysis of firewall logs using various tools.
- Configured and maintained IPSEC VPN tunnels on ASA Firewalls.
- Experience in upgrading IOS on ASA 5500 devices.
- Experience in configuring IPSEC and SSL VPN on Juniper SRX series and ASA 5500 series firewalls.
- Implemented Zone Based Firewalling and Security Rules on the ASA Firewall.
- Implementing ACLs on ASA and SRX firewalls to allow access to remote servers.
- Performed Firewall rule search for the refreshing servers using AlgoSec firewall analyzing tool.
- Experience in creating change and incident requests using SNOW tool.
- Implementation & trouble shooting of complex WAN, LAN, VLANs, private VLANs, high availability solutions like site to site VPN, access control lists, NAT, PAT, routing solutions.

Network Engineer

Wolters Kluwer, NY - Palo Alto, PA - April 2015 to July 2016

500 series firewalls using Panorama.

- Configure 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.
- Hands On experience in push Policy from Panorama to Firewall in Palo Alto.

- Worked with Palo Alto Firewalls PA250, PA4050, PA3020 using Panorama servers, performing changes to monitor/block/allow the traffic on the Firewall.
- Integrating Panorama with Palo Alto Firewalls, managing multiple Palo Alto Firewall using Panorama.
- Provides updates and upgrades to the Palo Alto Firewall and Panorama devices.
- Configuring, administering and troubleshooting the Check Point, Palo Alto and ASA Firewall.
- Researched, designed, and replaced aging Checkpoint firewall architecture with new next generation Palo Alto appliances serving as firewalls and URL and application inspection.
- Implemented zone based firewalling and security rules on the Palo Alto Firewall.
- Experience with convert Palo Alto VPN rules over to the Cisco ASA solution. Migration with both Palo Alto and Cisco ASA VPN experience

Network Engineer

Credit Suisse - Morrisville, NC - August 2014 to March 2015

Responsibilities:

- Configuration and Administration of Cisco and Juniper Routers and Switches.
- Administration and diagnostics of LAN and WAN with in-depth knowledge of TCP/IP, NAT, PPP, ISDN and associates network protocols and services.
- Involved in design and implementation of Data Center Migration, worked on implementation strategies for the expansion of the MPLS VPN networks
- Router/ Microsoft VPN Server in order, to access certain limited network resources from customer locations
- Installed and configured four PIX 525 and two ASA 5505 in customer locations. In addition to that, configured two PIX firewall for the Guest access
- Experience in migration of Frame-relay based branches to MPLS based technology using multilayer stackable switch like 6500 series and 2800 series router
- Worked on F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability
- Configuring VLANs and implementing inter VLAN routing.
- Upgrading and troubleshooting Cisco IOS to the Cisco Switches and routers.
- Configure and troubleshoot Juniper EX series switches and routers.
- Configuring Site to Site to VPN connectivity.
- Implementation of HSRP, IPSec, Static Route, IPSEC over GRE, Dynamic routing, DHCP, DNS, FTP, TFTP.
- Involved in configuring Cisco Net flow for network performance and monitoring.
- Involved in designing and implementation of wireless IPT devices.
- Involved in Disaster recovery, like diverting from one data center to different data center when disaster occurs.
- Involved in configuration of Cisco 6500 ACE switches
- Configuring IPSLA monitor to track the different IP route when disaster occurs.
- Involved in Implementing, planning and preparing disaster recovery.
- Having meetings with the application group and gathering requirements for disaster recovery.
- Involved in configuring Juniper SSG-140, Cisco pix firewall, and checkpoint firewall.
- Involved in smart view tracker to check the firewall traffic.
- Troubleshooting hardware and network related problems.

Network Engineer

Phillips 66 - Bartlesville, OK - January 2013 to June 2014

Responsibilities:

- Key responsibility of LAN and WAN maintenance and troubleshooting any network related problems.
- Tuned according to the requirements of the organization for deploying and maintaining the routers and switches.
- Performed IOS upgrade on Cisco 7200, 3600 Router and making sure that there is high data availability.
- Provided high level of security to the network by installing ASA 5520 along with ACLs.

- Extensively worked on layer 2 features like STP, VLAN, and VTP and implemented them on new switches and used to troubleshoot any issues.
- Configured L3 protocols (IP, BGP, OSPF, EIGRP, IGRP, RIP, ISIS), redistribution, summarization, Filtration (using distribute list, route map, prefix list, access list).
- Tasks included in performing network administration issues like configuring RPVST+, Port security etc.
- Maintained complex LAN/WAN networks with several VLANs and provided support for routing protocols.
- Dealt with troubleshooting the EIGRP and OSPF protocols during the process of migration and establishing new client setups.
- Installing and configuring protocols like TCP/IP and Internet protocols including Local Area Networking, routing and HTTP.
- Worked on OSPF using features like TSA, SA, NSSA and route summarization. Configured EBGP/IBGP policies also tested BGP attributes such as Local preference, MED, AS-PATH, Community and Weight.
- Responsible for resolving service request tickets from the help desk which involved in providing complete technical support.

Network Engineer

Axis Bank - Hyderabad, ANDHRA PRADESH, IN - September 2011 to November 2012

Responsibilities:

- Configured RIP and EIGRP on 2600, 2900 and 3600series Cisco routers.
- Involved in troubleshooting of DHCP and other IP conflict problems
- Implemented VTP and Trunking protocols (802.1q and ISL) on 3560, 3750 and 4500series Cisco Catalyst switches
- Provided on-call support for installation and troubleshooting of the configuration issues
- Configured Standard, Extended, and Named Access Lists to allow users all over the company to access different applications and blocking others
- Planned and implemented Sub-netting, VLSM to conserve IP addresses.
- Configured S.TP for loop prevention and VTP for Inter-VLAN Routing.
- Performed troubleshooting of connectivity problems using PING, and Trace route.
- Provided Technical support for improvement, upgrading, and expansion of the existing network architecture
- Done troubleshooting of TCP/IP problems and connectivity issues in multi-protocol Ethernet environment.
- IOS upgrade 1900, 2900, 3500 series Cisco Catalyst switches and 2500, 2600, 3600 series Cisco routers using TFTP.

Network Engineer

Blooms solutions Inc - Hyderabad, ANDHRA PRADESH, IN - July 2010 to August 2011

Responsibilities:

- Configuration, maintenance and troubleshooting of LAN, WAN, modems.
- Deployment and Trouble Shooting Citrix Server, Proxy Server, Application server.
- Installation and maintenance of security software on the mail servers, desktops and application servers. Implementing security policies.
- Configuration and maintenance of Cisco router, HP layer3 switch, I2 switches.
- Installing, configuring and troubleshoot the lotus notes client with the respective id files and locals.
- Maintaining and configuring Active Directory.
- Installing Windows and Linux operating system on Wipro desktop, laptops
- Adding machines into the domain and installing the required software's
- Creating users and giving the permissions to the required DL's for the users.
- Installing and configuring hub (IBM - PCOMM).
- Implemented DHCP, DNS, IPAM configuration on the servers to allocate resolute the IP addresses from Subnet.

- Taking a Partitions or Disks Images by using the Image reader software like Ghost.
- Taking care of HSBC software's like whirl, HCC.
- Configuring network printers to the desktops and laptops.
- Installing Microsoft products like MS-office, Visio, MS-project.

SKILLS

BGP (3 years), Cisco (6 years), EIGRP (4 years), LAN (5 years), Security (4 years)

CERTIFICATIONS/LICENSES

CCNA

CCNP

ADDITIONAL INFORMATION

Skills:

Cisco Platforms

Nexus 7K, 5K, 2K & 1K, Cisco routers [...] 3900, 3600, 2800, 2600, 2500, 1800 series) & Cisco Catalyst switches (6500, 4900, 3750, 3500, 4500, 2900 series)

Juniper Platforms SRX, MX, EX Series Routers and Switches

Networking Concepts Access-lists, Routing, Switching, Subnetting, Designing, CSU/DSU, IPsec, VLAN, VPN, WEP, WAP, MPLS, VoIP, Bluetooth, Wi-Fi

Firewall

NAT/PAT, Ingress & Egress Firewall Design, VPN Configuration, IDS/IPS, URL Filtering, SSL, IPSEC, IKE, Static, Checkpoint, Cisco ASA Firewalls [] IPSEC & SSL VPNs, IPS/IDS, Juniper, Palo Alto.

Network Tools Solar Winds, SNMP, Cisco Works, Wireshark

Load Balancers A10 Networks (AX2500), Cisco CSM, F5 Networks (Big-IP)

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

LAN technologies Ethernet, Fast Ethernet, Gigabit Ethernet, & 10 Gigabit Ethernet, Port- channel, VLANs, VTP, STP, RSTP, 802.1Q

Security Protocols IKE, IPSEC, SSL-VPN

Networking Protocols RIP, OSPF, EIGRP, BGP, STP, RSTP, VLANs, VTP, PAGP, LACP, MPLS, HSRP, VRRP, GLBP, TACACS+, Radius, AAA

Languages C, Perl, Python, Linux

Operating System Windows 7/XP, MAC OS X, Windows Server [...] Linux, Unix