# Dheeraj R

**Sr. Network Engineer - Avion Systems**

• Over all 8 years of experience in routing, switching, system design, implementation and troubleshooting of complex network systems as well as understanding on firewall technologies.

• Switching tasks include VTP, ISL/ 802.1q, IPsec VPN Tunneling, VLANs, Ether Channel, Trunking, Port Security, STP and RSTP.

• Experience working with Nexus 7010, 5020, 2148, 2248 devices.

• Good knowledge with the technologies VPN, WLAN and Multicast.

• Well Experienced in configuring protocols HSRP, GLBP, ICMP, IGMP, PPP, PAP, CHAP, and SNMP, NHRP.

• Implementation of MPLS VPN Networks.

• Experience in configuring Site-to-site and remote access VPN solutions.

• Has very strong experience on Cisco routers (800, 1700, 1800, […] 2800, […] 3700, 3800, 7200), switches (2950, 2960, 3550, 3570, 4510R, 6500, MDS 9000 [SAN], 5000 NX-OS), VPN concentrators 3000 series, ACS 4.1, Cisco PIX (501, 506E, […] 525, 535) firewalls, ASA (5505, 5510, 5520), IDS and IPS (4235, 4250).

• Maintenance and support of all network infrastructure using Cisco switches, routers, ASA,F5 load balancers, and other typical network vendors.

• Extensive experience in configuring and troubleshooting of routing protocols RIP v1/v2, EIGRP, OSPF and BGP and in-depth knowledge of OSI model, Frame relay and ATM switching.

• Worked on network topologies and configurations, TCP/IP, UDP, Frame Relay, Token ring, ATM, bridges, routers, hubs and Switches.

• Implemented routing protocols (RIPv1/2, IGRP, EIGRP, OSPF, BGP), switching (VLANS, VTP Domains, STP, and trunking), security on devices hardening (authentication, authorization, and accounting).

• Advanced Knowledge in technologies such as DHCP, DNS, NAT, SNMP.

• Experience with Cisco Identify Services Engine (ISE).

• Knowledge in Software Defined Networking as well as Virtual Network Function.

• Involved in design and deploying various network security & High availability products like Cisco ASA and other security products.

• Advanced knowledge, design, installation, configuration, maintenance and administration of Palo Alto Firewalls, Checkpoint Firewall R55 up to R77 version, VPN.

• Advanced knowledge in Design, Installation & configuration of Palo Alto & Checkpoint Provider Environment.

• Thorough knowledge of Windows Vista, XP, Windows Server […] Windows NT; TCP/IP, Active directory.

• Experience with the integration of Authentication and Authorization of Linux based systems to Active Directory.

• Understanding the JUNOS platform and worked with OS upgrade of Juniper devices

• Understanding of systems such as Microsoft networking, Citrix

• Experience in virtualization technology.

• Knowledge on Cisco Firewalls, Cisco PIX […] & ASA […] Series.

• In depth understanding of IPV4, IPV6 and implementation of Sub netting.

• Configured Security policies including NAT, VPN, Ipsec, SSL, Route-maps, prefix lists and Access Control Lists.

• Hands on experience with Arbor peak flow 5.7, monitoring tool for Dos attacks.

• Experience in routing protocols including BGP and OSPF routing, HSRP, load balancing/failover configurations, GRE Tunnel Configurations, VRF configuration and support on the routers.

• Knowledge of Cisco UCS.

• Extensive Experience in WAN Technologies, Switching Technologies along with Failover Mechanisms & Inter VLAN Routing types.

• Extensive knowledge and troubleshooting in data communication protocols and standards including TCP/IP, Multilayer Switching and IP Routing Protocols OSPF, EIGRP & BGP.

• Experience in implementation, support and troubleshooting of VLAN's including operational knowledge of Spanning tree protocol (STP), VLAN trunking, inter VLAN routing and ISL/802.1q.

• In-depth understanding of IPV4, implementation of Subnetting, VLSM and ARP, reverse & proxy ARP, Ping Concepts.

• IXC's, NMS/OSS, DDoS monitoring and mitigation.

• Worked on wireless planning tool such as Air Magnet.

• Excellent understanding of networking fundamentals and network security. Installation, Configuration and managing Firewalls like Fortinet, ZyWall, SonicWALL, ISA with content filtering, Anti-Spam, Web filtering, NAT, Application Publishing to public IP, Port Forwarding, log analyzing with Syslog Server. Experienced in installation, configuration, design and ongoing maintenance of Cisco router and switches.

• Strong hands on experience on PIX Firewalls, ASA […] Firewalls. Implemented Security Policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS).

• Expertise in implementing redundancy with HSRP, VRRP, GLBP, Ether channel technology (LACP, PAgP) etc.

• Experience in Aruba wireless networking.

• Responsible for the analysis/troubleshooting of large scale enterprise VoIP networks.

• Excellent Knowledge of IOS commands.

• Experience fielding trouble tickets/user reports for system repair

• Managed inventory of all network hardware, Management and Monitoring by use of SSH, Syslog, SNMP, NTP.

• Great team player and able to work under pressure 24x7 duty rotation.


WORK EXPERIENCE

## Sr. Network Engineer

Avion Systems   -   Atlanta, GA   -   December 2014 to Present

Responsibilities:

• Working on Cisco Catalyst 2960 Switches, ASA (5505/5510) Firewalls.

• Experience with Cisco ASA and Sourcefire.

• Implementing security policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS).

• Dealing with monitoring tools like Orion Solar Winds and network packet capture tools like Wire-shark, etc.

• Worked on JUNOS platform and worked with OS upgrade of Juniper devices.

• Installation, Configuration and Administration of Windows Servers 2007 ,2008, Active Directory, FTP, DNS, DHCP, TFTP, Linux OS under various LAN and WAN environments.

• Migration of existing IPSEC VPN tunnels from Pre-Shared key to Certificate.

• Worked on Cisco ISE: mac authentication, Endpoint profiling, Internal endpoints, Guest and Device authentication.

• Configuring and installation of Cisco 2960 Switches and ASA 5505 Firewalls.

• Updating the SNMP string for various Routers and Switches in Solar Winds for monitoring purpose.

• Responsible for the analysis/troubleshooting of large scale enterprise VoIP networks.

• Troubleshooting of complex LAN/WAN infrastructure including routing protocols EIGRP, OSPF & BGP in cloud environment.

• Lab testing & validation prior to implementation of Nexus 7K, 5K & 2K connecting to blade servers.

• Accomplished migration of old F5 Big 1000 Platform to F5 LTM edge gateway 3900 and 1600 platforms.

• Settings of the networking devices (Cisco Router, switches) co-coordinating with the system/Network administrator during implementation.

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• Hands on experience with DNS and DHCP.
• Experience on Network design and Virtualization
• Worked on troubleshooting of complex LAN/WAN infrastructure.
• Administration of Cisco 11.x and 12.1 versions.
• Monitoring all Cisco equipment's using Cisco Works.
• Involved in SNMP Network management.
• Upgrading and backups of Cisco router configuration files'
• Implementing and maintaining backup schedules.
• Managed fast Layer 3 switched/routed LAN/WAN infrastructure as a part of Network team.
• Hands-on experience with WAN, Routers, Switches, TCP/IP, Routing Protocols (BGP/OSPF), and IP addressing.
• End to end quality assurance and testing in wireless related tools such as Air Magnet.
• Implemented configuration changes and hardware additions/replacements to LAN/WLAN/WLAN.
• Worked on Cisco ASA firewalls- 5585, 5580, 5540 and Palo Alto Firewalls - PA 500, PA 5050
• Installation, Configuration and managing Firewalls like Fortinet, ZyWall, SonicWALL, ISA with content filtering, Anti-Spam, Web filtering, NAT.
• Worked on VM ware cloud environment.
• Understanding of defining firewall policies and installing them without causing any impact.
• Worked on Cisco ISE to establish user identity and access history.

Environment: Cisco ASA, Nexus 7K, STP, RSTP, VTP, HSRP, BGP, OSPF, EIGRP, SNMP, DNS, DHCP, Check point and Palo Alto Firewalls , Orion Solar winds.

## Network Engineer
Vaco, NY  -  September 2012 to December 2014

Responsibilities:
• Responsible for entire LAN and WAN maintenance and troubleshooting of the company network. Involved in the Team of Data Center Operations to perform duties like administration and deployment of Cisco Routers and Switches according to the organization requirements.
• Performed network administration tasks such as creation and management of VLANS, Port security, Trunking, RPVST+, Inter-VLAN routing, and LAN security
• Worked with ASA Firewall configuration and Participated in Migration of PIX to ASA for hardware devices.
• Worked in configuring, Monitoring and Troubleshooting Cisco's ASA 5500/PIX security appliance, Failover DMZ zoning & configuring VLANs/routing/NATing with the firewalls as per the design.
• Design and implementation of Networks using TCP/IP
• Configuring RIP, OSPF and Static routing on Juniper M and MX series Routers
• Experience configuring Virtual Device Context in Nexus 7010
• Worked on commissioning and decommissioning of the MPLS circuits for various field offices.
• Worked on HP open view map for Network Management System and Ticketing.
• Worked on a broad range of topics such as routing and switching, dedicated voice access, planning and implementation, large-scale high-visibility outages, change management coordination, proactive monitoring and maintenance, disaster recovery exercises, and core network repairs.
• Setting customer expectations and ensuring the highest level of technical account management
• Developing high-level design, configuration and implementation strategy
• Using technical resources to create and present customer proposals
• Involved in L2/L3 Switching Technology Administration including creating and managing VLANs, Port security, Trunking, STP, InterVlan routing, LAN security.

• Supporting EIGRP and BGP based company network by resolving level 2 &3 problems of internal teams & external customers of all locations.
• Responsible for Cisco ASA firewall administration across our global networks.
• Establishing VPN tunnels using IPsec encryption standards and also configured and implemented site-to-site VPN, Remote VPN.
• Implementation of MPLS VPN Networks.
• Experience working on Network design and support, implementation related internal projects for establishing connectivity in various field offices and Datacenters
• Ensure Network, system and data availability and integrity through preventive maintenance and upgrade.
• Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support
• Worked on the security levels with RADIUS, TACACS+.
• Configuring VLAN, Spanning tree, VSTP, SNMP on EX series switches
• Providing daily network support for national wide area network consisting of MPLS, VPN and point-to point site.
• Upgrading WAN link using PPP Multilink and by implementing Cisco WAAS
• Configuring HSRP between the 3845 router pairs for Gateway redundancy for the client desktops.
• Configure GLBP, VLAN Trunking 802.1Q, STP, Port Security on Catalyst 6500 switches.
• Experience working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution for datacenter access architecture.

Environment: Cisco ASA 5540, BIG-IP LTM 8900, QOS, Nexus, Vlans, STP, RSTP, PVSTP, VTP, HSRP, EtherChannel, BGP, OSPF, EIGRP, MPLS, ATM, PPP,HDLC. SNMP, TACACS+, DNS, DHCP.

## Network Engineer
Sears  -  May 2011 to September 2012

Responsibilities:
• Assisted in troubleshooting LAN & WAN connectivity and hardware issues in the network of 10000 hosts.
• Studied and analyzed client requirements to provide solutions for network design, configuration, administration, and security.
• Troubleshoot problems on a day to day basis & provide solutions that would fix the problems within their Network.
• Support customer with the configuration and maintenance of PIX and ASA firewall systems.
• Assisted with various duties that will arise including: implementation, configuration, management, rules definition, problem solving, design advice, troubleshooting, updating, maintenance, etc.
• Experience in survey tool such as Air Magnet.
• Maintenance and Troubleshooting of LAN connectivity problems using Ping, Trace route.
• Worked on F5 BIG-IP LTM 8900, configured profiles, provided and ensured high availability.
• F5 & CSM load balancers deploying many load balancing techniques with multiple components for efficient performance.
• Managed the IP address space using subnets and variable length subnet masks (VLSM).
• Involved in troubleshooting IP addressing issues and Updating IOS images using TFTP.
• Experience with configuring BGP, OSPF on 7609 routers.
• Maintained redundancy on Cisco 2600, 2800 and 3600 routers with HSRP.
• Monitor performance of network and servers to identify potential problems and bottleneck.
• Performed RIP & OSPF routing protocol administration.
• Interacted with support services to reduce the downtime on leased lines.

• Daily responsibilities included monitoring remote site using network management tools, assisted in design guidance for infrastructure upgrade & help LAN administrator with backbone connection and connectivity issues.

Environment: Switching, Routing, Nexus, Access-lists, Sub netting, STP, RSTP, VTP, HSRP, Port-Channel, EIGRP, RIP, PPP, HDLC. SNMP, DNS, DHCP

## Network Engineer
STG Airwire Technologies  -  IN  -  June 2008 to March 2011

Responsibilities:
• Configuring ADS, DNS and DHCP in windows server 2003.
• Configuring Managing Active directory services.
• Troubleshooting Software and Local area Network (LAN) issues.
• Configuration of Access List ACL (Std., Ext, Named) to allow users all over the company to access different applications and blocking others.
• Configuring of IP Allocation and sub netting for all applications and servers and other needs throughout company using FLSM, VLSM addressing.
• Troubleshot the issues related to routing protocols.
• Perform routine network maintenance checks as well as configure and manage printers, copiers, and other miscellaneous network equipment.
• Installing operating systems, software and hardware on computers.
• Responsible for Data Backup, System Update, Recovery and Restore, and Spyware removal.
• Assisting Junior and Senior Engineers, on-site management of cable-wiring technicians
• Troubleshot problems on a day to day basis and documented every issue to share it with design teams.

Environment: TCP/IP, Racking, Stacking, VLSM, IP addressing, Sub netting, Routing Protocols.


SKILLS

BGP (6 years), Cisco (6 years), DHCP (8 years), DNS (8 years), LAN (8 years)


ADDITIONAL INFORMATION

Technical Skills:

Cisco Routers
Cisco L2 & L3 Switches

(1700, 1800, 2500, 2600, 3600, 3800, […] and ASR1004)
(2900, 3560, 3750, 4500, 4900, 6500, Nexus 5K/7K)

LAN Technologies Ethernet, Fast Ethernet, and Gigabit Ethernet, SMTP, VLAN, Inter-VLAN Routing, VTP, STP, RSTP, Light weight access point, WLC
WAN Technologies Frame Relay, PPP, HDLC, T1/T3, DS3, OC192
Firewalls Palo Alto, Check point, Cisco ASA, Cisco PIX
OS products/Services DNS, DHCP, Windows […] XP), UNIX, LINUX.
Protocols/Services Gateway Load Balancing Routing Protocols (RIP v1 & v2, OSPF, EIGRP, BGP), HSRP, GLBP,

Network Management Tools Wireshark, Solarwinds , Net Scout, Cisco Works, Ethereal. OPNET Modeler, SPLUNK.

Security Server Protocols TACACS+, RADIUS

Facilities DS0, DS1, DS3, OCX, T1/T3

Load Balancers Cisco CSS, F5 Networks (Big-IP)