

Radhika Networkanalyst

Network Specialist - Mayo Clinic

Philadelphia, PA - Email me on Indeed: [indeed.com/r/Radhika-Networkanalyst/55c06f128bdd5861](https://www.indeed.com/r/Radhika-Networkanalyst/55c06f128bdd5861)

- > Cisco Certified Network Engineer around 6+ years of professional experience in Network Planning, Implementing, Configuring, Troubleshooting and Testing of networking system.
- > In-depth Cisco technology experience/knowledge in design, implementation, administration and support.
- > Strong hands on experience in layer-3 Routing and layer-2 Switching. Dealt with Nexus models like 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.
- > Experience in LAN networking technologies- (STP, VLAN, DTP, HSRP, VRRP and GLBP) and Routing Protocols (RIPv2, EIGRP, OSPF and BGP).
- > Widespread work proficiency in advanced TCP/IP Management, IP Addressing & Subnetting VLSM, Route Summarization, Route Redistribution and NAT/PAT.
- > Good knowledge and experience in FTP, DNS, DHCP, TFTP, LAN, LINUX and WAN environments.
- > Having advanced knowledge in Cisco ASA 5000 series and PIX installation, configuration and maintenance.
- > Proficiency in supporting Enterprise Level LAN, MAN and WAN Networks.
- > Good Knowledge in Cisco ISE profiling policies.
- > Configuring rules and Maintaining Palo Alto Firewalls & Analysis of firewall logs using various tools.
- > Strong hands on experience on ACL, Firewall, and Experience in Wan optimization.
- > Experience in skillful deployment of Layer-2 technologies like VLANS, VTP, STP, RSTP, Inter-VLAN routing, VLAN Trunking, Ether Channels, VLAN access-maps and port security.
- > Determined project installation/interconnect requirements, selected standard data and power cabling components, and interconnected subsystems/connected systems to the LAN across the DATA CENTRE. (Examples: mainframe, SAN, blade server, LAN switches, WAN routers, VoIP servers and gateways, DS-1 circuits and T1/PRI circuits).
- > Expertise in configuration & troubleshooting of routing protocols and deployment of OSPF, EIGRP, BGP, MPLS, IP Multicast.
- > Having Good knowledge in additional firewall technologies such as Cisco ASA/Firepower, Checkpoint / Juniper / Fortinet. Proficient in Implementing MPLS over OSPF, BGP and VPN for secured connection.
- > Hands on experience working with DNS Infoblox DNS server, Checkpoint Firewall Administration and Troubleshooting.
- > Implementation and Support of Nexus 7000, Nexus 5000, 6500, virtualization, ACE and Data Center Project implementation.
- > Having advanced knowledge in Cisco ASA 5000 series and PIX installation, configuration and maintenance.
- > Proficiency in supporting Enterprise Level LAN, MAN and WAN Networks.
- > Expert in Cisco IOS and Nexus-OS upgrades, VDC, VPC/VPC+, VRFs and Fabric Path support and configuration.
- > Troubleshoot Data center network issues, Cross connectivity and WAN Backbone issues between Data centers
- > Configured, troubleshoot, and upgraded Checkpoint Firewalls for Manage clients, which included network and/or resource access, software, or hardware problems.
- > Implemented security policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS) and deploying GRE Tunnel.
- > Cisco (HW/SW): Cisco Series switches- 1900, 2950, 2960, 3550, 3560, 3570, 4500, 6500 and Nexus 7k, 5k, 2k Enterprise Data Center switches.
- > Experience in switch security and network security firewalls technologies. And LAN/WAN Network Support for TCP/IP based devices

- Experience in Internetworking with devices such as routers, firewalls and switches.
- Experience in Layer 2 and Layer 3 protocols (i.e. TCP/IP, Ethernet etc.). Good experience in Frame Relay, MAN, MPLS, V-SAT.
- Expert in Implementing and Configuring WAN Technologies: PPP, Frame Relay, Leased Lines and MPLS.
- Widespread acquaintance to Network troubleshooting, maintaining Network devices, implementing and accomplishing Networking Projects under ITIL Standards.
- Experience in Network Management Tools and sniffers like SNMP, Wire shark and Cisco works to support 24 x 7 Network Operation Center.

WORK EXPERIENCE

Network Specialist

Mayo Clinic - Rochester, MN - September 2015 to Present

Responsibilities:

- Provided network operational support for all the campuses of Mayo Clinic in Rochester, MN.
- Deployment of Cisco Identity Services Engine (ISE) for Wired Network Access Devices.
- Pre-Change Window work (Setting up ISE by adding Network Devices, evaluating risk of enabling authentication on a switch) in implementing ISE Monitor Mode.
- Pushing 802.1x and MAB global and Port configuration into Switches using Cisco Prime (Wired).
- Running and reviewing authentication log reports and validation reports following configuration push.
- Identifying Endpoints that are failing authentication and investigating the failure reason using various tools such as IPAM, Statseeker and Asset Data.
- Manually tracking the Patch Panel number from switch and conducting further investigation of the Endpoints (If necessary).
- Creating ISE Profiling Policies based on the Mayo Clinic Naming Standard for the known devices.
- Setup and Troubleshooting of ISE Profiling Probes (SNMP Query, DHCP).
- Verification of Access Layer switch (L2) and Distribution Layer switch (L3) configurations.
- Work with stakeholders/colleagues to identify any configuration changes that need to happen for us to properly identify endpoint types.
- Work involved in IOS code upgrade for the Cisco 4510, 4507, 3850, 3650 switches.
- Using Infoblox IP Address Management (IPAM) tool to investigate endpoint DHCP and DNS settings.
- Using Statseeker to validate the status and performance of switches (switch port status, CPU, Memory utilization etc.) before and after change windows.
- Using the Mayo Clinic Asset Database for investigating the unknown endpoint types (i.e., Medical Devices, Research Devices, etc.)
- Using ISE Deployment Assistant (IDA) to validate and document endpoint authentication status during monitor mode deployments.
- Runs IDA Diagnosis Tool to get the endpoint information (i.e., Switch Name, Connected Interface, MAC Address, ISE Endpoint Information), which is used to estimate the failure, risks before change windows.
- Using Cisco Prime to push the configuration during monitor mode deployments.
- Runs the ISE Endpoint Analysis Tool (ISEEAT) to analyze data and design new ISE Profiling Policies.
- Proposed new names to all the Access Points and changed them to follow the Mayo Clinic Naming Standard in Wireless LAN Controller (WLC) GUI using Cisco Prime (Wireless).
- Assigning Static IP address to the Endpoints (Servers/Printers) by checking the availability using IPAM.
- Changing the IP address of Servers from DHCP to Static (DNS) using IPAM.
- Work involved in resolving hardware and software issues related to LAN/WAN.
- Using Subnet and Supernet Concepts to identify the endpoints.

➤ Creating new hostnames based on our Naming Standard and keeping the old names as an Alias in IPAM.
Environment: Cisco Catalyst switches 6500, 4500, 3500, 2900; Cisco Wireless Controllers, RADIUS Server, Access Points, 802.1X protocol, Wired Network.

Network Engineer

NYDOH Health Care - Albany, NY - September 2014 to August 2015

Responsibilities:

- Comprehensive elementary configurations on the F5 Big-IP LTMs and GTM load balancer on prevailing network to divide traffic on web-servers.
 - Analyze equipment's and perform repair as per requirement in Data Centre
 - Setting VLANs and configuring ISL trunk on Fast-Ethernet channel between switches.
 - Product analysis and support for Access-layer switches such as Cisco 4510, 4948, 4507, distribution layer switches such as 6513, 6509, 6504 and a routed core.
 - Configured site to site VPN for connecting student lab to training and development centers
 - Worked on IP control for management and optimal allocation of IP addresses.
 - Configured and deployed Checkpoint, Cisco ASA and Juniper SRX firewalls for various Missouri Information Service Centers.
 - Installed and configured Foundry Load Balancer and ASA firewall for a customer web site
 - Experience with Juniper Net screen 520M Firewall and Palo Alto network firewall
-
- Responsible for the configuration, installation, upgrading and testing of Cisco Unified Communications products including CUCM 9.x, CUCME, Cisco Unity.
 - Implementation and Support of Nexus 7000, Nexus 5000, 6500, virtualization, ACE and Data Center Project implementation.
 - Configuring F5 Big-IP LTM and GTM. Responsible for troubleshooting of F5 load balancers.
 - Securing network access with Cisco Secure (RADIUS/ TACACS+)
 - Troubleshoot Data center network issues, Cross connectivity and WAN Backbone issues between Data centers
 - Systems monitoring and maintenance, resolution and troubleshooting using Infoblox.
 - Managed Cisco firewalls from both the Command line and ASDM.
 - Worked with HP engineers for issues pertaining to the new environment and the application
 - Test plan development for quality improvement of development phase
 - Configured gateways and gatekeepers. Configured asterisk voice server.
 - Advanced Knowledge in IPSEC VPN design connection and protocols, IPSEC tunnel configuration, encryption and integrity protocols.
 - Successfully installed Palo Alto PA 3060 firewalls to Protects Data Center and provided L3 support for routers/switches/firewalls.
 - Configuring, administering and troubleshooting the Check Point, Palo Alto and ASA Firewall.
 - Troubleshoot ISDN lines, troubleshoot TCP/IP and IPX problems, and troubleshoot connectivity issues in multi-protocol Ethernet, Token Ring, and FDDI networks.
 - Responsible for Configuring Frame Relay, ATM Switches, ISDN, X.25 network.
 - Ensure that Firewall Rules are reviewed in accordance with Risk management Framework.
 - Configured MPLS L3 & L2 VPNS for research departments using Cisco ASR 9004 and 9010
 - Configured ASA 5510 appliance as a Firewall and as a VPN server. Troubleshoot TCP/IP problems; troubleshoot connectivity issues
 - Responsible for Configuring Frame Relay, ATM Switches, ISDN, X.25 network.
 - Configuration, implementation, and problem determination across the major firewall platforms and understanding each customer environment at a detailed level. Responsibilities include rule implementations, VPN setups, upgrades, new builds.

Environment: Cisco Routers 7600, 7200, 3800, 3700, 2800,2500; Cisco Catalyst switches: 6500, 4500, 3500, 3750,3850,2900; JUNIPER routers and switches; Cisco PIX Firewalls 535, 525; Cisco ASA 5550, 5520; VTP, VLAN and 802.1Q trunking; Routing Protocols OSPF, BGP; Load Balancer, Sniffer tools: Ethereal and Sniffer Pro; Wire shark, MS Visio.

Network Support Engineer

Evergent Technologies - September 2012 to August 2014

Responsibilities:

- > Configured, tested, implemented and maintained telecommunication and LAN operational support activities of Radio Access Network.
- > Worked on installation, maintenance, and troubleshooting of LAN/WAN (ISDN, Frame relay, NAT, DHCP, TCP/IP).
- > Configured Access List (Standard, Extended, and Named) to allow users all over the company to access different applications and blocking others.
- > Responsible for design, configuration and maintenance of numerous telecom systems, hardware systems.
- > Capable of providing high levels of technical and telecommunications engineering support.
- > Worked with telecom vendors in regards to network fault isolation.

- > Configuring and installing client and server network software for upgrading and maintaining network and telecommunication systems
- > Experience in Troubleshoot Data center network issues, Cross connectivity and WAN Backbone issues between Data center.
- > Successfully installed Palo Alto PA 3060 firewalls to protects Data Center and provided L3 support for routers/switches/firewalls.
- > Configuring, administering and troubleshooting the Check Point, Palo Alto and ASA Firewall.
- > Maintained company Telecom office which coordinates and develops voice and data drops for customers.
- > Performed scheduled Virus checks and updates on all servers and desktops.
- > Coached less experienced employees on Cisco Unified Communications Manager (CUCM) and Unity Connection (UC)
- > Got Hands-on experience in maintaining and troubleshooting RIP, OSPF and EIGRP routing protocols.
- > Configured RIP and EIGRP on 2600, 2900 and 3600 series Cisco routers.
- > Implemented VTP and Trunking protocols (802.1q and ISL) on 3560, 3750 and 4500 series Cisco Catalyst switches.
- > Performed IOS upgrades on 2900, 3500 series Cisco Catalyst switches and 1800, 2600, 3600 series Cisco routers using TFTP. Provided network connections for new workstations
- > Configured STP for loop prevention and VTP for Inter-VLAN Routing.
- > Done troubleshooting of TCP/IP problems and connectivity issues in multi-protocol Ethernet environment.
- > Worked on network-based IT systems such as Racking, Stacking and Cabling
- > Configured Cisco Routers (2621, 2621XM, 2620, 2800) using EIGRP and Configured Cisco Switches (Catalyst 6500, 4500, 3750).
- > Provided design of both physical and logical network, optimizing performance, and implementation strategies including rebuilding the entire network infrastructure across four remote locations redesigning all Switches and Routers. Redesigned IP and bandwidth management strategy.

Environment: Cisco Routers 2500, 3600; Cisco Switches 3500, 2900 and 1900 series; Routing protocols RIPv2, EIGRP,

OSPF; Switching Protocols STP, VTP, RSTP and VLAN; Firewall Security Protocols: ACL, NAT, PAT.

Network Engineer

Soma technologies - IN - August 2011 to August 2012

Responsibilities:

- Configured routing protocols like EIGRP, OSPF & BGP and troubleshooting layer3 issues.
- Learned and Tested various BGP attributes like local preference, MED, Weight and replicated customer issues in the testing environment lab.
- Involved in the troubleshooting aspects of complex network infrastructure using the routing protocols like EIGRP, OSPF& BGP.
- Experience in Network security, Security Controls (firewalls, IDS/IPS, authentication, etc.), TCP/IP.
- Involved in configuration and implementation of the MPLS with BGP protocol.
- Configured and deploying Cisco catalyst 6506, 4948E, 4510 switches and Cisco 3660, 3845, and 7609 series Routers.
- Migrating firewalls from Juniper Net screen 500 to PA3020.
- Responsible for the configuration, installation, upgrading and testing of Cisco Unified Communications products including CUCM 9.x, CUCME, Cisco Unity.
- Involved in Replacement of FPCs, PICs on Juniper M320 and T640 router.
- Applied ACLs for Internet access to the servers using Cisco 5520 ASA firewall, performed NAT.
- Configuring security services for protecting the perimeter of the network, Cisco IOS Firewall features, PIX Firewall.

- Configured PVSTP+ for loop prevention and VTP for Inter-VLAN Routing.
- Implemented port aggregation & link negotiation using LACP and PAGP.
- Involved in design, implementation and configuration of HSRP for load balancing on L3 switches on different location of office on the switched network.
- Provided support/troubleshooting for Intel, UNIX, and Network environments.
- Supported Intel server technologies, including Windows NT & 2000, 2003, 2008, 2012 & OS/2.
- Had a good hands-on experience with Cisco 6509 Series Cisco Switch with VLAN's for different departments.
- Supporting wide range of products from Cisco Systems, Troubleshooting of Routers, Switches, Leased line. Environment: Cisco Catalyst 3750,3550,4509,6509, 6500, Cisco routers 3650, 4500 and 6500, 7200, Cisco PIX (525, 535), ASA (5505, 5510) firewall, Routing Protocols (EIGRP, OSPF, BGP), Switching protocols (VTP, STP), Site to Site VPN, Remote Access VPN, Cisco VPN 3000 Concentrator.

SKILLS

CATALYST (6 years), CISCO (6 years), IOS (5 years), FIREWALLS (4 years), OSPF (4 years)

ADDITIONAL INFORMATION

Technical Skills:

Networking Equipment

Cisco [...] series routers, Cisco [...] series catalyst switches, ACE load balancer 4700, F5 Load Balancer

Infrastructure services DHCP, DNS, SMTP, FTP, TFTP, POP3

Network Security

IPSec, VPN Configuration, ASA 5505, 5510 Firewalls, NAT/PAT, IDS/IPS, Ethereal, Internet Content Filtering, DHCP SNOOPING, IDS/IPS, URL Filtering -Web-sense, SSL, IPSEC, IKE, Static, Dynamic, Reflexive ACL, and authentication AAA (TACACS+ & RADIUS)

Communication Protocols TCP/IP, IPv6, ARP, VLAN (802.1q, ATM), PPP, HTTP, SSH, Frame Relay, MPLS, 802.11.

Platforms Windows 98/XP/VISTA, Platforms Cisco IOS (11.x, 12.x), UNIX, LINUX, Windows

Routing Protocols RIP v1 & v2, EIGRP, IGRP, OSPF, BGP, IS-IS, HSRP, ipv6 addressing, VRRP and GLBP.

LAN technologies Ethernet/ Fast Ethernet/ Gigabit Ethernet networks, VLANs, VTP, STP, RSTP, 802.1q

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

LOAD BALANCERS BIG IP F5 LOAD BALANCER, INFLOBOX, CISCO ACE

Projects Summary: