**Name: AJAY A**

**Certified Network Engineer**

[**Email:**](mailto:Email:)[**ajayn4997@gmail.com**](mailto:ajayn4997@gmail.com)

**Mobile: +1 (984)-232-7953**

**Professional Summary:**

* **8 years** of experience in Networking, including hands-on experience in providing network support, installation and analysis for a broad range of **LAN /WAN/MAN** communication systems.
* Proficient in Cisco IOS for configuration & troubleshooting of routing protocols: **MP-BGP, OSPF, EIGRP, RIP, BGP v4, MPLS.**
* Strong knowledge on Wireless Standards and Technologies, i.e., Ethernet, WAN, LAN, **IEEE 802.11a, b, g, n** (Wi-Fi). **Cisco Wireless Management system, Cisco Meraki Products, PCI standards.** Very good knowledge on **IEEE 802.15.1** (Bluetooth), Mesh networks, etc.
* Moderate knowledge in configuring and troubleshooting Cisco Wireless networks; **LWAPP, WLC, WCS**, stand-alone apps, roaming, wireless security basis, **IEEE 802.11a/b/g**, RF spectrum characteristics.
* Experience working on Cisco **ASR 9001**&**ASR 1006**.
* F5 BIG-IP application load balancing subject matter expert with concentration on layer 7 load balancing using I-Rule scripting in TCL.
* Configure, Manage, Analyze, and Optimize Network Performance, Traffic**, SD-WAN**, **VPNs**, Security, **Firewalls**, & Policies.
* working with Silver peak **SD-WAN** circuit
* Hands on experience on **windows server 2007, 2008, 2012**.
* Experience in Designing and assisting in deploying enterprise-wide Network Security and High Availability Solutions for ASA.
* Network System Engineer with experience in Cisco Identity Services Engine (ISE) and **DNAC**.
* Recognized for performance excellence and contributions to success in network design projects. Strength in Cisco ISE and **DNAC** backed by extensive training in routing/switching.
* Used XML scripts in the deployment of the **ACI** environments and well as day to day operations via postman.
* Experience on dealing with **VoIP information deployment** including troubleshooting protocols like Session Initiation Protocol (SIP), Real-Time Transport Protocol (RTP), Media Gateway Routing Protocol (MGRP) and Session Description Protocol (SDP)
* Installation of **IP Voice System PBX** and **Voice gateway Cisco SPA 8000**
* Involved in troubleshooting of DNS, DHCP and other IP conflict problems.
* Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP, Ether channel, STP, RSTP and MST. Implementation of HSRP, VRRP for Default Gateway Redundancy.
* Experience on dealing with **Aruba Wireless products** including Access Points, Mobility Access Switches and Outdoor mesh routers
* Hands on experience on dealing with **Microsoft Azure cloud computing** including implementing **access lists in the Network Security Group.**
* Responsible for Check Point and **CISCO ASA** firewall administration across global networks.
* Experience in working with Cisco Nexus Switches and Virtual Port Channel configuration.
* Worked on **F5 LTM, GTM series like 6400, 6800, 8800** for the corporate applications and their availability.
* Experience working with **Nexus 7010, 7018, 5020, 2148, 2248** devices.
* Experience in testing Cisco routers and switches in laboratory and deploy them on site production.
* Good experience working on **Citrix NetScaler 1000v**. Implemented it along with **F5 load balancers**, Configured and troubleshooter for issues
* In-depth knowledge and hands-on experience in Tier II ISP Routing Policies, Network Architecture, IP Subnetting, **VLSM, TCP/IP, NAT, DHCP, DNS, FT1 / T1 / FT3 / T3 SONET POS OCX / GigE circuits, Firewalls.**
* Strong knowledge of **TACACS+, RADIUS** implementation in Access Control Network.
* Worked extensively in Configuring, Monitoring and Troubleshooting **Cisco's ASA 5500/PIX security appliance**, Failover **DMZ zoning & configuring VLANs/routing/NAT** with the firewalls as per the design.
* Hands on experience in configuring and supporting site-to-site and remote access Cisco, IPsec, VPN solutions using ASA/PIX firewalls, **Cisco and VPN client.**
* Excellent customer management/resolution, problem solving, debugging skills and capable of quickly learning, effectively analyzes results and implement and delivering solutions as an individual and as part of a team.
* Experience in designing **MPLS VPN and QoS** for architecture using Cisco multi-layer switches.
* Hands on experience in configuring Cisco Catalyst 2**960, 3750, 4500, 6500 and Nexus 3000, 5000, 6000, 7000** series switches and Cisco **2600, 2800, 3600, 3800, 7200, 7600** series routers, **Load Balancers**& Cisco Firewalls.
* Configuring BGP/OSPF routing policies and designs, worked on implementation strategies for the expansion of the MPLS VPN networks.
* Experience on dealing with **Silver Peak** WAN optimization
* Expertise in **creating groups and pruning traffic flow using VLAN, VTP, ISL, 802.1Q.**
* Excellent in documentation and updating client’s network documentation using **VISIO.**
* Performed switching technology administration including Vlans, inter-Vlan routing, trucking, port aggregation and link negotiation.

**Certifications:**

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

**Core Competencies:**

**Network Configuration**: Advanced switch/router configuration (Cisco IOS access list, Route redistribution/propagation).

**Routing Protocols**: IGRP, EIGRP, OSPF, BGPv4, MP-BGP, IS-IS, RIP, SD-WAN

**WAN Protocols**: HDLC, PPP, MLPPP

**Cisco Routers:** 7200, 7600, 3800, 3600, 3400, 2800, 2600, 2500, 1800, ASR 1K, 7K, 9K, GSR 12K

**Cisco Switches:** 7200, 6500, 5000, 4900, 4500, 3750, 3700, 2950, 1720, Nexus 7K, 5K,2K.

**Circuit switched WAN**: T1/E1 – T3/E3/OCX (Channelized, Fractional & full).

**Packet Switched WAN**: ATM, FRAME RELAY, MPLS VPNs

**Infrastructure Services:** DHCP, DNS, SMTP, POP3, FTP, TFTP VLAN, Trunks, Ethernet channel, MPLS.

**Security Technologies:** Cisco FWSM/PIX/ASDM, Juniper SRX, Palo Alto,

Checkpoint, F5 Load Balancer, ASA firewall.

**Cisco Routers:** Cisco GSR 12416, 12418, Cisco 7200vxr, Cisco 3640, Cisco 3600

**Security Firewalls** Checkpoint, Palo Alto, Citrix NetScaler App, Fortinet 6TD, FortiGate 3000, 5000,

3815, 900, 800, 600 series, Imperva, Bluecoat

**Redundancy and management**: HSRP, VRRP, GLBP, RPR, NSF/NSR, Wireshark, SolarWinds, SNMP

**Physical interfaces**: Fast Ethernet, Gigabit Ethernet, Serial, HSSI, Sonet (POS)

**Layer 2 technology**: VLAN, HSRP, VRRP, GLBP, STP, RSTP, PVST+, MST, PVLAN, Optimizing STP (Port Fast, Uplink Fast, Backbone Fast, Root Guard, BPDU Guard),

**Layer 3 Switching**: CEF, MLS, Ether channel (PAGP & LACP, Load Balancing)

**Switches**: Cisco Catalyst 6500, MSFC, MSFC2, 7600, 3700, 3500, Cisco2948/3560/4500/3560/3750/3550/3500/2960

**Operating Systems**: Microsoft XP/Vista/7, UNIX, Linux (Red hat, Opens use, Fedora), Windows Servers 2003/2008Windows MS-Office. VMware ESX 5.1, VMware vSphere client, Microsoft Azure, office 365, Python.

**Professional Experience:**

**Client: Humana, Dallas, TX May 2023 to Present**

**Sr. Network Engineer**

**Responsibilities:**

* **Diagnose, troubleshoot** and resolve a range of software, hardware and connectivity issues. Excel in asking probing questions and researching, analyzing and rectifying problems.
* Lead in **Planning, design, documentation and implementation** phases of project systems to including Servers, Network equipment, and PC & Software applications.
* Configuration of Cisco WAP’s which includes AIR-AP1131/1141/1242.36xx-A-K9, Cisco WLC 4400,5000,6500 series and Cisco Switches 2k,3k and 5k series, Cisco Catalyst 6509 core switch, Cisco ASR 1001,1002, Cisco Routers 1941,2800(2811,2851),2800,4xxx series, HP Procurved/Aruba L2/L3switches 26xx,29xx,3500yl,6k series
* Worked with **Cisco Layer 3 switches 3750, 4500, 6500**; **Cisco Nexus 5596 and 7010** in multi VLAN environment with the use of inter-VLAN routing, 802.1Q trunk, ether channel.
* Great exposure to **SDN** and **Network Function Virtualization (NFV)** technologies like **Cisco ACI.**
* Migrating existing Routing configuration to **SD-WAN**.
* Worked with Cisco **Meraki** wireless managed network infrastructure.
* Incorporate **Cisco Nexus 9000 NXOS to CISCO ACI** fabric to work in concert with existing **Nexus 7000s and ASRs** for Multi-Protocol Label Switching (MPLS).
* Design, install, upgrade, configure and repair local and wide area network hardware and resolve infrastructure issues Involved in configuration of **UPS (Schnieder Electric), firewall migration** from checkpoint to palo alto and assigning **static IP’s & Multicast IP’s.**
* Deployed a highly available Cisco infrastructure based on Cisco **DNAC**, Cisco **ISE**, switches, routers, and access points.
* Created design and implementation of Cisco **DNAC** managed networks utilizing industry best practices and Cisco hardware, overseeing new and existing equipment as well as hardware and software upgrades.
* Performed Setup, Configuration, Deployment and Implementation of the **FortiSIEM**, **FortiAnalyzer** and **Fortinet** Security fabric and Telemetry functions. This platform provided me the tools to perform forensics, vulnerability audit & risk assessment, forensics, traffic analytics and inspect network infrastructure to implement network/systems security mitigations, lockdown and encryptions, vulnerability & risk mitigations, monitoring, defense, compliance audits, reporting, and remediation requirements for URAC and HIPAA.
* Migration of existing **IPSEC VPN tunnels from one Data Center to another Data Center**, due to decom of existing Data Center, which involved working with Partner Companies.
* Installed high availability **Big IP F5 LTM and GTM** load balancers to provide uninterrupted service to customers.
* Configured and deployed **BIG-IP LTM 8900** for providing application redundancy and load balancing.
* Used **IPsec VPN tunneling** to provide access to user machines and partners in another network. Provided application-level redundancy and availability by deploying **F5 load balancers LTM.**
* Configuring & managing around 500+ Network & Security Devices that includes Juniper (Net Screen) Firewalls, F5 **BigIP** Load balancers, **Citrix Net scalar and 3DNS, Blue Coat Proxies and Plug Proxies**.
* Implementation and configuration of F5 Big-IP LTM-6900 ad 8950 load balancers
* Configured and deployed **BIG-IP LTM-6900** for providing application redundancy and load balancing.
* Experience with **CSM, F5 (LTM) Load balancers** to provide efficient switching and routing for local and global traffic.
* Configured **SNATS on F5 load balancer** to solve several routing problems.
* Implemented **TACACS+ and RADIUS** authentication
* Implemented **DHCP, DNS, IPAM** configuration on the servers to allocate, resolute the ip addresses from Subnet.
* Reconfigured and updated **ACL’s** and static routes
* Updated IPAM DHCP scope in Infoblox software
* Monitoring IP address blocks, Address inventory, DHCP scopes for the inside network infrastructure through **IPAM Infoblox.**
* Provided required data to remote site contacts which includes Bandwidth utilization of site using **PRTG/TrueView,** Authentication status of various clients using Steel Belted Radius (SBR) server
* Configuring HSRP between VLANs, Configuring Ether-Channels, Port Channel on 6500 catalyst
* Build Logical design and Implementation of Wireless Solution.
* Configured CIDR IP RIP, PPP, BGP, MPLS and OSPF routing.
* Managed the **F5 BigIP GTM/LTM** appliances to include writing **iRules** and everyday tasks of creating **WIP and VIPs**.
* Experience on cisco wireless management systems which includes cisco 8540 Wireless controller, cisco 5520 Wireless LAN controller, and virtual wireless controllers.
* Worked on **FTP, HTTP, DNS, DHCP servers** in windows server-client environment with resource allocation to desired Virtual LANs of network.
* Work involved configuring **Net scalar ADC** for load balancing purposes using gateways.
* Working on checking the ssl certifications, HTTP requests and other processes involving successful implementation of **Net scalar.**
* Configured and troubleshooting **Aruba Wireless products** like Access Points and Mobility Access Switches.
* Used multiple network monitoring tool **Solar Winds, Cisco Prime** Infrastructure for supporting the existing core network environment and Network edge devices
* Configured and troubleshooting Cisco unified UC560 manager VoIP systems.

**Environment:**  Cisco WLC 4400,5000,6500 series and Cisco Switches 2k,3k and 5k series, Cisco Catalyst 6509 core switch, Cisco ASR 1001,1002, Cisco Routers 1941,2800(2811,2851), HP Procurved/Aruba L2/L3switches, DHCP, DNS, IPAM, Multi-Protocol Label Switching (MPLS), **Cisco Aci** SD-WAN**,** Meraki, Big IP F5 LTM and GTM, Citrix Net scalar, Blue Coat Proxies, TACACS+,Solar Winds, Cisco Prime

**Client: Delta Airlines, GA Jul 2022 to May 2023**

**Sr. Network Engineer**

**Key Responsibilities:**

* Working with **Network Design and implementation** teams on various projects across North America and South America.
* Experience with manipulating various BGP attributes such as Local Preference, MED, Extended Communities, Route-Reflector clusters, Route-maps and route policy implementation.
* Experience with design and implementation of Data center migration.
* Experienced and configured firewall administration including **Bluecoat, F5, Checkpoint, Citrix NetScaler App and Fortinet**
* Deploying and decommission of VLANs on core **ASR 9K, Nexus 7K, 5K** and its downstream devices.
* Responsible for designing and engineering of a virtual network infrastructure which included **Cisco ACI** support technologies.
* Worked on **SD-WAN** technologies (**Viptela**, **Meraki**, **Velo cloud** and **Silver Peak**).
* Master in Wireless LAN Controller's, **Cisco** **Meraki**, **Cisco AP's**, **Standalone AP's** and **Mesh AP's**.
* Performed **OSPF, BGP, DHCP Profile, HSRP, IPV6,** Bundle Ethernet implementation on ASR 9K redundant pair.
* Extensively used Infoblox for IP address management. Created and added IPv4 Network, Reserved IP addresses for various devices, Defined **DHCP** Scope as per the requirements, Created **DHCP** scopeoptions for setting up Voice **VLANs and PXE Clients** etc.
* Assisted in MPLS migrations, implemented a backup for the existing WAN connection using site-to-site IP sec VPN tunnels.
* Convert Branch **WAN links** from **TDM** circuits to **MPLS** and to convert encryption from IPSec/GRE to GetVPN.
* Experience in troubleshooting NAT configurations, Access-Lists (ACL), and DNS/DHCP related issues within LAN Network.
* Worked on **F5 LTM, GTM series like 6400, 6800, 8800** for the corporate applications and their availability
* Configured and involved in **Citrix NetScaler** responder policy configuration and Citrix NetScaler Access gateway configurations.
* Secure configurations of load balancing in **F5, SSL/VPN connections, Troubleshooting CISCO ASA firewalls,** and related network security measures.
* Troubleshoot and assist customers with **DNS hosting.**
* Involved in troubleshooting of DNS, DHCP and other IP conflict problems.
* Having experience in network monitor tools **Cacti, Nagios, Infoblox IP address management** and PAPI console
* Experience on dealing with **CISCO Application Centric Infrastructure (ACI)** by integration hardware and software products as per network layout
* Configured and troubleshooting **River bed WAN optimization** software to improve the network acceleration at the user end.
* Assisted solutions test team for virtualization, **SDN/NFV, WAN, VPN, MPLS, BGP and WAN optimization**
* Involved in migration of network from **cisco catalyst switches/ASA firewalls to palo alto.**
* Install, upgrade and configure Next-Gen Palo Alto Firewall series PA-200, PA-500
* Configuration of **Silver Peak WAN optimization** software
* Design and build the core converged datacenter infrastructure using VBlock and VMWare services to support the environment
* Installed Riverbed WAN optimizer software to run applications via WANs to multiple branches across east coast.
* Experience in troubleshooting SAN related issues and firmware upgradations of **SANs in VMware and different environments**
* Implementation of Juniper Firewall, SSG Series, Net Screen Series ISG 1000, SRX Series.
* Experience on **cisco wireless management systems** which includes **cisco 8540 Wireless controller, cisco 5520 Wireless LAN controller, and virtual wireless controllers.**
* Configured and troubleshooting Aruba Wireless products like Access Points and Mobility Access Switches.
* Hands on experience on **Cisco ISE** and various network security concepts like SSH, IPsec, firewall polices and 802.1x
* Configured **Cisco ISE** secure Network Server 3595 which supports 20,000 endpoints in an **ISE deployment.**
* Created design and implementation of Cisco **DNAC** managed networks utilizing industry best practices and Cisco hardware, overseeing new and existing equipment as well as hardware and software upgrades.
* Worked on dealing with Cisco Collaboration system 10.x Solution Reference Network Design (SRND) considering the network layout.
* Configuring and Troubleshooting the Juniper SRX100 and 110 series, Juniper Net Screen routers.
* Deploying and decommissioning **Cisco switches, Cisco Meraki** Products and their respective software upgrades.
* Worked extensively on **Cisco ASA 5500(5510/5540) Series, Nexus 7000 Series experience in converting PIX rules over to the Cisco ASA solution.**
* Supporting EIGRP and BGP based on the network by resolving level 2 & 3 problems of internal teams & external customers of all locations
* Involved in Configuration of **Access lists (ACL) on ASA firewall** for the proper network routing for the B2Bnetwork connectivity.
* Provided proactive threat defense with ASA that stops attacks before they spread through the network.
* Designed and implemented **DMZ for Web servers, Mail servers & FTP Servers using Cisco ASA5500 Firewalls.**
* Created Visio Dean / Visio Documentation to give complete picture of network design for each building.
* Experience in Configuring, upgrading and verifying the NX-OS operation system.
* Worked on python scripting language.

**Environment:** Cisco2948/3560/4500/3560/3750/3550/3500/2960 6500, Cisco 3640/12000 7200/3845/3600/2800 routers, Fortinet Firewall, **Nexus** 7K/5K, Cisco ASA 500, Checkpoint, windows server 2003/2008: F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, VPN, SD-WAN, HSRP, F5 Load Balancers, Checkpoint.

**Client: VMK Software Solutions, Hyderabad, India Mar 2018 to Nov 2021**

**Network Engineer**

**Key Responsibilities:**

* 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.
* Upgrade Cisco Routers, Switches and Firewall (PIX) IOS using TFTP
* Updated the HP open view map to reflect and changes made to any existing node/object.
* Handled SRST and implemented and configured the Gateways, Voice Gateways.
* Configuring HSRP between the 3845 router pairs for Gateway redundancy for the client desktops.
* Configuring STP for switching loop prevention and VLANs for data and voice along with Configuring port security for users connecting to the switches.
* Ensure Network, system and data availability and integrity through preventive maintenance and upgrade.
* Involved in L2/L3 Switching Technology Administration including creating and managing VLANs, Port security, Trucking, STP, Inter-Vlan routing, LAN security.
* Worked on the security levels with RADIUS, TACACS+.
* Modified internal infrastructure by adding switches to support server farms and added servers to existing DMZ environments to support new and existing application platforms.
* Configured switches with port security and 802.1x for enhancing customers security.
* Monitored network for optimum traffic distribution and load balancing using Solar winds.
* Handled installation of Windows NT Server and Windows NT Workstations.
* Handled Tech Support as it relates to LAN & WAN systems.

**Environment:** Net Flow, TACACS, EIGRP, RIP, OSPF, BGP, VPN, MPLS, CSM, SUP720, Ether Channels, Cisco 7200/3845/3600/2800 routers, Fluke and Sniffer, Cisco 6509/ 3750/3550/3500/2950 switches, Checkpoint firewalls (SPLAT).

**Client: Shell Networks & Solutions ltd, Hyderabad, India June 2016 to Feb 2018**

**Network Engineer**

**Responsibilities:**

* Performed IOS upgrades on Catalyst 1900, 2900, 3500 series switches and 2500, 2600, 3600 series routers.
* Responsible for maintenance and utilization of VLANs, Spanning-tree, HSRP, VTP of the switched multi-layer backbone with catalyst switches.
* Actively participated in upgrading fast Ethernet, Layer 3 switched/routed LAN infrastructure from Cisco 3640 to

Cisco 2811 ISR routers and switches at access level to 2950, 3550.

* Implemented and configured routing protocols like EIGRP, OSPF and BGP.
* Connected switches using trunk links and Ether Channel
* Used Network Monitoring tool to manage, monitor and troubleshoot the network.
* Configured VLANs with 802.1q tagging. Configured Trunk groups, ether channels, and Spanning tree for creating

Access/distribution and core layer switching architecture.

* Configured Cisco IOS Feature Set, NAT and Simple Network Management Protocol (SNMP) for Network Security implementation.
* Implemented redundant Load balancing technique with Internet applications for switches and routers.
* Support Network Technicians as they require training & support for problem resolution including performing diagnostics, & configuring network devices

**Environment:** Cisco 7200/3845/3600/2800 routers, Routing Protocols EIGRP, OSPF, BGP including VPN, MPLS and Ether Channels.