**Name: AJAY A**

**Certified Network Engineer**

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**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.**
* Very comfortable working on **IOS, IOS - XR, IOS-XE**, **JunOS and Arista’s EOS** for all the routing and Switching Platforms, and ASA, checkpoint for IP based firewalls.
* 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.
* Experience working routing and switching technologies like **MPLS, EVPN, Fabric path, VXLAN, STP, and VPC/MC-LAG**.
* 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.
* Experience in configuring **Virtual Local Area Network (VLAN), Multiple flavors of spanning tree protocol (STP), VLAN Trunking Protocol (VTP), Dynamic Trunking Protocol (DTP), LACP, Multi-vendor MLAG implementation in Campus**and**Data center environments**and**802.1x authentication i**n access layer switches for Wireless and Wired users.
* 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, MLAG

**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, Blue Coat, Blue Cat.

**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).
* **VPC** to **Arista MLAG** migration - Designed 3-tier leaf spine network with L3 switches, configured IP subnets, **MLAG** Peers, VLANs, routing (OSPF, BGP peering with ISP) and VARP for router redundancy and tested for traffic loss.
* 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.
* Handled and assisted on the following projects in **MDF/IDF** rooms and **Data Center**.
* Decommissioned **8 LAN closets** and one **MDF** for a building being **demolished recovered all hardware**.
* 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**.
* Configured, tested and installed new state of the art equipment (NetScaler, Iron Port Blue Coat, Blue Cat, Check Point, ASA) to augment firewall security, authentication, virtualization, load balancing, DNS, encryption and log documentation.
* 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 **Blue Coat, 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.