PRATAP REDDY SIVAREDDY

Network Security Engineer

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Professional Summary:

• CCNA, CCNP certified professional with over **11+ years** of experience as **Network Security Engineer** and **Network Engineer** in Design, Implementation, Troubleshooting and Support.

CISCO CERTIFIED

CCNP

ROUTING &

SWITCHING

CISCO CERTIFIED

- Served as Associate Team Lead for the Network Engineering team.
- Taking **proactive approach** in resolving network hardware and software problems quickly and efficiently with minimal impact to end users.
- Expertise in the areas of Routing, Switching, Firewalls, Load Balancers, Wireless, ACI, SD-WAN and Cloud.
- Strong foundation in **TCP and UDP protocols**. In-depth knowledge and hands-on experience in network protocols **ARP**, **HTTP**, **TCP/IP**, **NAT**, **ACL**, **DHCP**, **DNS**, **SNMP and SMTP**.
- Expertise in Static Routing and routing protocols such as **RIP**, **EIGRP**, **OSPF**, and **BGP**.
- Skilled in configuring GRE Tunnels, Site-to-Site, IPSEC VPN, GRE over IPSEC, NAT, PAT, Route-maps, Prefix list and Security ACLs.
- Configured and deployed remote VPN Palo Alto Global Connect and Cisco AnyConnect Gateways.
- Experienced in High Availability Technologies such as VSS, Stackwise Virtual, vPC, and MLAG.
- Skilled in Switching protocols including VTP, VLANs, PVLAN, STP, PVSTP, RSTP, MSTP, HSRP, VRRP, and GLBP.
- Configured and deployed VXLANs, BGP EVPN in Data centers for Spine, leaf architecture and extension of VLANs across
- Hands-on experience configuring and troubleshooting Aruba Airwave, Aruba Central, Cisco Wireless Networks, includes LWAPP, CAPWAP, WLC, WCS, Autonomous APs, Roaming, Flex connect, Cisco Prime, fundamentals of wireless security, IEEE 802.11 a/b/g/ac standards and wireless RF spectrum behaviors.
- Hands on experience with the configuration of **Route 53**, **NAT**, **VPC** and **subnets** through Amazon Web Services (AWS).
- Extensive knowledge of LAN/WAN architecture analysis, implementation, troubleshooting, and documentation, as well as strong MPLS and IP service experience
- Understanding the JUNOS platform and worked with JUNOS upgrade of Juniper devices.
- Hands on experience with configuration and Deployment of Cisco ACI, Cisco DNA and Cisco Identity Services Engine (ISE) for efficient management of Network Infrastructure.
- Proficient in working with datacenter switches Nexus 9k, 7k, 5k, 2k Switches and Arista 7200 and 7500 Series switches Including Leaf and Spine architecture.
- Cloud computing with AWS and Azure.
- Hands-on experience on F5 LTM, GTM series 6400, 6800, 8800 for the corporate applications and their availability. Experience on Virtual Servers, Pools, Persistence, SNAT, iRules, Listener IP's, WidelP's, SSL, HTTP and TCP headers.
- Proficient in working with various Cisco routers, including models **2600**, **2700**, **2800**, **2900**, **3800**, **3900**, **7200**, **ISR4300**, **ISR 4400**, **ASR1001**, **ASR1002** and **ASR9000**.
- Skilled in managing Cisco switches, including Linksys, SG500, Cisco catalyst 2900,3500, 3650, 3750, 4500, 6500, 9100, 9300, 9500
- Experienced in Palo Alto Firewalls, including models 3220, 3250,5050, Panorama, and Cisco ASA.

- Configuring and troubleshooting Juniper MX960, MX480 router and Juniper SRX 210, SRX 1400, SRX4200 firewalls.
- Expert in configuring Cisco Wireless controllers 4400, 5500 and Access Points 1231, 1242, 3500, 3602, 2602, 3702.
- Extensive hands-on experience with Palo Alto Firewalls, including User-ID and App-ID functionalities.
- Experience in creating and monitoring high availability, scalable, networks in AWS using EC2, Lambda, VPC and other AWS services.
- Experience with setting up AWS direct connect to Amazon S3, Amazon EC2, Amazon VPC.
- Hands-on experience with IPv4 Multicast networks, including Sparse mode, Dense mode, and PIM.

Certifications:

- CCNP Route [642-902] Cisco Certified Network Professional CSCO12148623
- **CCNP Switch** [642-813] Cisco Certified Network Professional CSCO12148623
- CCNP TSHOOT [300-135] Cisco Certified Network Professional CSCO12148623
- CCNA Cisco Certified Network Associate CSCO12148623

Technical Skills:

SecurityPalo Alto Firewalls, ASA Firewalls, Juniper SRX Firewalls, Checkpoint, FortiGate, Bluecoat Proxy, Zscaler Proxy, ACL, NAT and VPNs (IPSec over GRE), Certificates signing, VPN, User-ID, App-ID, Cisco ISE (ACS) Radius serverRoutingStatic Routing, RIP, EIGRP, OSPF, BGP, Route Filtering, Redistribution, summarization, Multicast routing, Virtual Routing Forwarding (VRF)SwitchingCisco Nexus, CatOS and IOS based Switches, Arista EOS, STP, PVST, RSTP, Trunking, LACP, PAGP, port bundling Ether Channels, Port-Channel, VLAN, PVLAN, dot1q, Layer s witches, Inter VLAN routing, Layer 3 High Availability-HSRP, VRRP and GLBPWirelessCisco Aironet, Meraki, Aruba, Flex connect, Roaming, LWAPP, CAPWAPP, IEEE s02.11 a/b/g/acMonitoring ToolsWireshark, Syslog, Splunk, SolarWinds, SNMP, Grafana, ICINGA, Nagios, Whatsup Gold, IBM Tivoli, Netcool, eHealth, CA Spectrum, SolarWinds, SIMP, Galetand ProtocolNS & DHCPInfobloxTicketing ToolsFrame Relay, MPLS, Point to PointApplication ProtocolDHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMPWirelessDisco Wireless, Aruba Wireless, Cisco Prime, 802.111a/b/g/n, Air Magnet, LWAPP, APWAP, Flex Connect, Roaming WCS, WLC and APSOperating SystemsWindows, Linux, Kali Linux, Ubuntu.		
Summarization, Multicast routing, Virtual Routing Forwarding (VRF)SwitchingCisco Nexus, CatOS and IOS based Switches, Arista EOS, STP, PVST, RSTP, Trunking, LACP, PAGP, port bundling Ether Channels, Port-Channel, VLAN, PVLAN, dot1q, Layer 3 Switches, Inter VLAN routing, Layer 3 High Availability-HSRP, VRRP and GLBPWirelessCisco Aironet, Meraki, Aruba, Flex connect, Roaming, LWAPP, CAPWAPP, IEEE 802.11 a/b/g/acLoad BalancersF5 Networks, A10 Networks, Virtual Servers, Pools, Persistence, SNAT, iRulesMonitoring ToolsWireshark, Syslog, Splunk, SolarWinds, SNMP, Grafana, ICINGA, Nagios, Whatsup Gold, IBM Tivoli, Netcool, eHealth, CA Spectrum, SolarWindsDNS & DHCPInfobloxTicketing ToolsServiceNow, CA Service Desk, Remedy, Inbuilt tool – RPDWAN TechnologyFrame Relay, MPLS, Point to PointApplication ProtocolsDHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMPWirelessCisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	Security	Bluecoat Proxy ,Zscaler Proxy, ACL, NAT and VPNs (IPSec over GRE), Certificates
LACP, PAGP, port bundling Ether Channels, Port-Channel, VLAN, PVLAN, dot1q, Layer 3 Switches, Inter VLAN routing, Layer 3 High Availability-HSRP, VRRP and GLBPWirelessCisco Aironet, Meraki, Aruba, Flex connect, Roaming, LWAPP, CAPWAPP, IEEE 802.11 a/b/g/acLoad BalancersF5 Networks, A10 Networks, Virtual Servers, Pools, Persistence, SNAT, iRulesMonitoring ToolsWireshark, Syslog, Splunk, SolarWinds, SNMP, Grafana, ICINGA, Nagios, Whatsup Gold, IBM Tivoli, Netcool, eHealth, CA Spectrum, SolarWindsDNS & DHCPInfobloxTicketing ToolsServiceNow, CA Service Desk, Remedy, Inbuilt tool – RPDWAN TechnologyFrame Relay, MPLS, Point to PointApplication ProtocolsDHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMPWirelessCisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	Routing	
802.11 a/b/g/acLoad BalancersF5 Networks, A10 Networks, Virtual Servers, Pools, Persistence, SNAT, iRulesMonitoring ToolsWireshark, Syslog, Splunk, SolarWinds, SNMP, Grafana, ICINGA, Nagios, Whatsup Gold, IBM Tivoli, Netcool, eHealth, CA Spectrum, SolarWindsDNS & DHCPInfobloxTicketing ToolsServiceNow, CA Service Desk, Remedy, Inbuilt tool – RPDWAN TechnologyFrame Relay, MPLS, Point to PointApplication ProtocolsDHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMPWirelessCisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	Switching	LACP, PAGP, port bundling Ether Channels, Port-Channel, VLAN, PVLAN, dot1q, Layer
Monitoring ToolsWireshark, Syslog, Splunk, SolarWinds, SNMP, Grafana, ICINGA, Nagios, Whatsup Gold, IBM Tivoli, Netcool, eHealth, CA Spectrum, SolarWindsDNS & DHCPInfobloxTicketing ToolsServiceNow, CA Service Desk, Remedy, Inbuilt tool – RPDWAN TechnologyFrame Relay, MPLS, Point to PointApplication ProtocolsDHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMPWirelessCisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	Wireless	
Gold, IBM Tivoli, Netcool, eHealth, CA Spectrum, SolarWindsDNS & DHCPInfobloxTicketing ToolsServiceNow, CA Service Desk, Remedy, Inbuilt tool – RPDWAN TechnologyFrame Relay, MPLS, Point to PointApplication ProtocolsDHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMPWirelessCisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	Load Balancers	F5 Networks, A10 Networks, Virtual Servers, Pools, Persistence, SNAT, iRules
Ticketing Tools ServiceNow, CA Service Desk, Remedy, Inbuilt tool – RPD WAN Technology Frame Relay, MPLS, Point to Point Application Protocols DHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMP Wireless Cisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	Monitoring Tools	
WAN Technology Frame Relay, MPLS, Point to Point Application Protocols DHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMP Wireless Cisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	DNS & DHCP	Infoblox
Application Protocols DHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMP Wireless Cisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	Ticketing Tools	ServiceNow, CA Service Desk, Remedy, Inbuilt tool – RPD
Wireless Cisco Wireless, Aruba Wireless, Cisco Prime, 802.11a/b/g/n, Air Magnet, LWAPP, CAPWAP, Flex Connect, Roaming WCS, WLC and APs	WAN Technology	Frame Relay, MPLS, Point to Point
CAPWAP, Flex Connect, Roaming WCS, WLC and APs	Application Protocols	DHCP, DNS, FTP, HTTP, HTTPS, SMTP, TFTP, SSH, Telnet, RDP, RTP, ICMP
Operating Systems Windows, Linux, Kali Linux, Ubuntu.	Wireless	
	Operating Systems	Windows, Linux, Kali Linux, Ubuntu.

Professional Summary:

FOX Corporation – Tempe, AZ || October 2023 – Present

Sr Network Engineer

Responsibilities:

- Designed and deployed **Cisco** and **Arista** Networks for new offices and expansions, ensuring reliable network connectivity.
- Worked with a range of Cisco switches, Arista switches, Cisco routers, Aruba Accesspoints and PaloAlto Firewalls.
- Successfully transitioned Datacenter from Cisco legacy 3-tier architecture to Arista spine-and-leaf architecture, enhancing network performance, scalability, and reliability.
- Worked on routing protocols such as OSPF, EIGRP and BGP for efficient network routing.
- Worked on Layer 2 protocols such as STP, PortFast, Uplink Fast, Backbone Fast, LACP, PAgP, VTP, RSTP, PVSTP+, MST and other VLAN troubleshooting issues and configuring switches from scratch and deployment.
- Designed and implemented **Palo Alto firewalls** for new office setups and expansions, ensuring robust network security.
- Conducted code upgrades on Palo Alto Firewalls, staying up to date with the latest firmware versions.
- Upgraded standalone firewalls to **high-availability (HA)** configurations, improving network resilience.
- Resolved User-ID and App-ID issues on Palo Alto, ensuring accurate identification and control of network traffic.
- Created runbook for implementation of **Mini Kits** which include **Arista 7020** switches along with **PA 850** series firewalls to establish connection with DCs over **BGP** or **IPSec Tunnel** for all live sports events.
- Building and Supporting Arista Spine & leaf architecture with MLAG and VXLAN architecture.
- Deployment of Arista switches, Upgrading EOS, change automation using Arista Cloud Vision Portal.
- Deployment of **VXLAN/EVPN** in an overlay layer2 network on top of layer 3 leaf spine architecture.
- Automation of configuration changes, backup of devices, upgrades of IOS using **Nectus** tool.
- Managed certificate creations and renewals, maintaining secure communication channels.
- Troubleshot and captured traffic using Wireshark for efficient issue diagnosis and resolution.
- Configured IPsec Tunnels as per requirements, enabling secure communication between networks.
- Utilized Panorama for device provisioning, rule configuration, and URL filtering.
- Created and managed networks in **Infoblox**, utilizing **DHCP and DNS** services for efficient network management.
- Automation of implementation of PaloAlto security rules using CLI and minimizing the implementation window and avoidance of manual errors.
- Performing IOS upgrades on Cisco routers and switches.
- Maintained and established site-to-**site IPsec tunnels, GRE tunnels, and GRE over IPsec** for secure communication.
- Implementation of QOS policies prioritizing Audio Video Traffic using class maps and policy maps.
- Implementation of **Multicast (PIM** Spare mode and Dense Mode with Rendevous Point), **IGMP** to various Audio Video LANs for providing FOX Sports and other video streaming based application services.
- Troubleshooting and Configuring User authentication, authorization, accounting using Aruba ClearPass

FactSet Research Systems Inc. - Hyderabad, Telangana || April 2016 – August 2022

Sr Network Security Engineer

Responsibilities:

- Configured and designed LAN networks with Access layer switches such as **Cisco 4510, 4507,6500** switches.
- Maintaining the Inventory details and updating to client in the weekly deck.
- Perform Network assessment and documentations.
- Creating and managing VPCs and VNETs with in AWS and Azure accounts.
- Assisted with migration of application/VMs into cloud environment (AWS,Azure)
- Assigning user permissions adhering to privileges based on role using AWS IAM and Azure Active Directory.
- Configuration, Deployment and integration of Catalyst 9400 and 9500 switched through cisco DNA.
- Hands on experience with configuring templates, network profiles **Day-0** provisioning using **Cisco DNA Center.**
- Designed AWS Transit Gateway to consolidate ingress/egress traffic to existing edge technology.
- Designed **Hybrid Cloud** networking which included perimeter firewalls between on-prem to cloud environments **AWS**, **Azure**.
- Successful implementation of **Cisco DNA Center** to **automate** network provisioning, monitoring, and troubleshooting, resulting in a 40% reduction in deployment time.
- Deployment and troubleshooting of Cisco ACI, including implementation of LTM and APM.
- Managing communication with different **VPCs** using concepts like VPC peering between organizations and **firewall** rules.
- Implemented **Cisco Application Centric Infrastructure (ACI)** as a solution for data centers using a Spine and Leaf architecture.
- Worked on nexus 9000 series switches that supports SDN with **Cisco Application Centric Infrastructure** (ACI)
- Monitor and maintain user security, user accounts and system accesses levels on the LAN.
- Configured, implemented and troubleshoot cisco Nexus 7k, 5k, 2k series switches.
- Replaced Cisco Firewalls to Juniper SRX firewalls.
- Worked on Juno OD and Juniper M&T series switches.
- Configuring and enabling **aaa authentication** on network devices and integrating it with **Cisco ISE** (Cisco Identity Service engine)
- Troubleshooting authentication issues and providing resolution using **Cisco ISE** (Cisco Identity Service engine).
- Configuration, Installation and trouble shooting of Juniper routers like **PTX5000**, **PTX3000**, **T4000**, **MX960**.
- Proficient in managing self-signed certificates on individual firewalls.
- Configuring policies and security rules using **Cisco Panorama** and pushing to **PaloAlto** firewalls.
- Worked on creating and maintaining new subnets, host with several record entries like **CNAME**, **PTR**, **A record** with DHCP scopes using Graphical User Interface.
- Worked with routing protocols such as **EIGRP and BGP** for efficient network routing.
- Providing 24/7 on-call support. Wrote technical documents.
- Replaced EOL Cisco ASA firewalls with Palo Alto.
- Monitoring Device reachability using **ICINGA** monitoring system. Setting up email alerting system, on call paging and adding devices to database of ICINGA monitoring. Auto creation of Tickets through ICINGA monitoring.

- Installed, configured, and operated **Cisco wireless controllers** 4400, 5500 and **access points**, including models 1231, 1242, 1262, 2702, and 2800 across all corporate locations.
- Worked with **A10 load balancers** for **LTM** (Local Traffic Manager), creating and upgrading VIPS (Virtual IP Addresses).
- Managed **F5** load balancers for **LTM** and **GTM** (Global Traffic Manager), configuring WideIPs and DNS load balancing.
- Monitoring devices reachability through Whatsup Gold.
- Worked on **Grafana** for monitoring network device utilization and performance.
- Used Grafana to fetch metrics for Network Utilization, Top talkers and site reliability.
- Implemented **multicast** solutions for vendor networks, particularly in the context of Stock Exchanges.
- Implemented and configured **Multicast PIM-SM** (Protocol Independent Multicast Sparse Mode) and **Multicast PIM-DM** (Protocol Independent Multicast Dense Mode)..
- Worked on Multicast Rendezvous point.

Tech Mahindra – Hyderabad, Telangana || June 2015 – Apr 2016

Network Engineer

Responsibilities:

- Engaging multiple vendors, escalating to the highest levels whenever there seems to be a major outage
- Keeping track of all troubles reported and resolving issues on priority within the SLA time
- Troubleshooting **authentication** issues and providing resolution using **Cisco ISE** (Cisco Identity Service engine).
- Configuring and troubleshooting MPLS over BGP.
- Interacting with various teams and engaging them whenever necessary for a quick resolution of issue
- Collecting frequent updates on **Bandwidth reports, CPU utilization** so as to ensure that the Network is healthy all time.
- Design and Configuring Juniper MX960, MX480 routers.
- Responsible for providing support for **Cisco Application Centric Infrastructure**.
- Assist with configuration and implementation of ACI and APIC.
- Experience in maintain and expand **Cisco ACI** network centric infrastructure including **ASRs**, **ISR**, **ASAs**, **9k** and **7k** switches.
- Configuring VLANs, ACLs, HSRP on core 6500 Switches.
- Configuring and troubleshooting Juniper SRX 210, SRX 1400, SRX4200 firewalls.
- Configuring SNMP on Network devices and Polling from Spectrum Monitoring tool.
- Monitoring Network utilization, device performance, changes through Spectrum Monitoring.
- Configuring Routing protocols such as **RIP**, **OSPF**, **EIGRP** and **BGP**.
- Configuration of **Default gateway**, **Default routes and statics Routes**.
- Deployed multi-media streaming using **multicast** technology further minimizing the bandwidth consumption.
- Troubleshooting of Enterprise application response problems, Latency, and connectivity issues.
- Involved in Switching technology administration
- Performing **IOS upgrades** on Cisco routers and switches.
- Implemented, Configured redundancy protocols **HSRP**, **VRRP** for default gateway redundancy.

- Installing, configuring and operating of Cisco wireless Controller 4400, 5500 and Access points 1231, 1242, 1262, 2702 and 3702. Managing APs and WLCs using Cisco Prime.
- Maintain network documentation, including diagrams, procedures, configurations, and inventory records using **Visio**
- Hands on experience in creating GRE & IPSEC tunnels in Cisco routers.
- Configuring Site to Site IP Sec Tunnel, Building GRE tunnel over configured IPSec Tunnels.
- Troubleshooting problems related to IPSEC, GRE over IPSEC, IPSEC over GRE, desktop VPN connectivity and Site-to-Site VPN connectivity issues.
- Configuring **NAT** and **PAT** according to the connectivity requirements.

Automatic Data Processing (ADP) - Hyderabad, Telangana || May 2011 –June 2015 Network Analyst

Responsibilities:

- Monitor network infrastructure and systems using network monitoring tools to ensure optimal performance and supporting 5000+ network devices.
- Troubleshooting Cisco nexus 7000, 5000, 2000 switches for any routing issues reported.
- Provide comprehensive Tier 1 technical network support, configuration, and maintenance for the voice and data network structure on ITIL-based standards and procedures.
- Performing IOS upgrades on Cisco routers and switches.
- Respond to network incidents, troubleshoot issues, and provide timely resolution to minimize downtime.
- Troubleshooting authentication issues using Cisco ACS (Cisco ISE)
- Document and track all **network-related incidents**, service requests, and changes in the ticketing system.
- Collaborate with cross-functional teams and vendors to escalate and resolve complex network issues.
- Perform root cause analysis for major incidents and analyze preventive measures to mitigate future occurrences.
- Monitoring Servers reachability using Nagios monitoring tool. Getting alerted through email,
- Troubleshooting various protocols such as EIGRP, OSPF, BGP, MPLS.
- Working with **Cisco TAC** cases on service or device-related issues.
- Maintain network documentation, including diagrams, procedures, configurations, and inventory records using **Visio**
- Troubleshooting wireless issues logging into Cisco Prime, WCS, Cisco Accesspoints.
- Participate in the on-call rotation to provide 24/7 network support and respond to emergency situations.
- Provide support for network-related projects, including planning, implementation, and postimplementation activities.

Education:

- Masters of Science Cybersecurity and Information Assurance, University of Central Missouri, Missouri, USA with 3.75 GPA.
- Bachelors of Science in Computer Science from Alagappa University, India with 82%.
- Diploma in Electronics and Communication Engineering from SBTET, India with 81%.