

**Rajaram Kumar**

**Network Deployment Engineer-Amazon**

**Phone: 971-248-5014**

**Email Id: shravan.skr203@gmail.com**

**SUMMARY**

* **Cisco Certified Network Associate (Router, Switches & Security)** with 7 years of extensive hands-on experience in IP network Operations, Configurations, deployment and troubleshooting.
* Worked on **Cisco 7K**,**9K** Series Routers &switches.
* Hands-on configuration and experience in setting up Cisco routers to perform functions at the Access, Distribution, and Core layers.
* Extensively worked on **F5 load balancers** troubleshooting on LTM & GTM’S.Good knowledge on bash &tmsh commands for troubleshooting environment,health and fail over related issues on devices.
* Implemented traffic filters on CISCO routes using **Standard Access List** and **Extended Access list**.
* Experience in in configuring **Virtual Local Area Network (VLAN), spanning tree protocol (STP), VLAN Trunking.**
* **Protocol (VTP), Dynamic Trunking Protocol (DTP), Per VLAN spanning Tree (PVST)** and **802.1x authentication** in access layer switches.
* Hands on experience on **PIX, Firewalls, ASA 5500 series firewalls**. Implemented Security Policies using **ACL, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+; RADIUS).**
* Experience with design and deployment of **MPLS Layer 3** VPN, MPLS Traffic Engineering, and MPLSQOS.
* Implementation of Data Center migration from **6500** based data centers to **Nexus** based data center with **7k-5k- 2k** dual home design with **multiple VDC’s, VPC.**
* Hands on experience in Network management using **Syslog, Packet Sniffers, SNMP, call manager**.
* Configured ASR 1K routers as head end WAN routers and implemented **BGP** with **VRF & OSPF** instances.
* **Cisco ASA/Checkpoint /Palo Alot Firewalls** troubleshooting and policy change requests for new IP segments that either come on line or that may have been altered duringvarious planned network changes on the network.
* Hands on experience in **Cisco IOS/IOS-XR/NX-OS, Juniper JUNOS** for configuration & troubleshooting of routing protocols.
* Experience with different Network Management Tools and Sniffers like **Wireshark-Open view**, RSA envision, Net flow, **Solar winds, Riverbed, Info-Blox** and Cisco works to support 24 x 7 Network Operation Centre.
* Experience in IP address allocation for many network devices through DNS entry using Infoblox.
* Network management and monitoring system support and node updates -**TL1** and **SNMP** communication setup and troubleshooting.
* Experience in the support and operation of **the Orion Solar winds** platform including Network Performance Monitoring (NPM) Network Configuration Manager, and Server & Application Monitor (SAM), Net Flow, Traffic analyzer and IP address Manager.
* Practicing ITIL standard procedures in change management and implementation of changes in accordance to the procedures.
* Authorized to work in United States for any employer.

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| **Networking Protocols** | OSPF, EIGRP, BGP, STP, RSTP, VLANs, VTP, PAGP, LACP, MPLS, HSRP, VRRP, GLBP, TACACS+, Radius, AAA . |
| **Firewalls** | Palo Alto (PA-2k, 3k, 5k), Checkpoint R75/77, Juniper SRX. |
| **LAN/WAN** | Ethernet/ Fast Ethernet/ Gigabit Ethernet networks, VLANS, VTP, STP, PVST, RSTP, 802.1W, Frame Relay, ISDN, PPP, MPLS, leased lines and exposure to PPP, HDLC,T1/T3 and E1/E3,IWAN. |
| **Routers/Switches** | Cisco routers (7206,4431, 4331, 3945, 3925, 3845, 2901, 2811,2612, 1900, 1800, 800) Cisco catalyst switches (6800, 6509, 6506,9500,9300, 3750, Catalyst 37xx stack, 3550, 2960, 2800, 1900 series), Cisco Nexus (7000kseries ), VPC, VDC, AS4, Aruba Wireless, Cisco 9300,9500. |
| **Wireless** | Cisco Wireless LAN Controller 2400, 5500 Series, WDS, and WLSE, Standards 802.11 . |
| **Management Tools** | Cisco Prime Infrastructure, Solar winds, Fire-mon, Cisco NCS, Cisco UCS, Cisco UCIS , Net-MRI, Show and Share, Wireshark. |
| **Operating Systems** | Linux, Windows Server, Cisco IOS, Cisco NX-OS. |
| **Programming** | Python |

**EDUCATION**

* Bachelors in Technology (Electrical &Electronics Engineering), JNTU India.

**CERTIFICATIONS- CSCO13269137**

* Cisco Certified Network Associative -Routing/Switching CCNA-R/S -
* Cisco Certified Network Associative – S- Security

**PROFESSIONAL SUMMARY**

**Client: Amazon Inc, Seattle, WA March’18 -Present**

**Role: Network Operations & Deployment**

**Responsibilities:**

* My role is to deploy the complex and huge sized data centers that support the **Amazon web services(AWS) cloud networks**.
* I am responsible to deploy numerous access and aggregate level networking devices which supports the AWS customer server racks.
* I am also responsible for connecting and deploying multi-vendor networking devices from **core to distribution**, **distribution to aggregate** and **aggregate to access laye**r networking devices.
* Create or modify the configuration templates and **Yaml files** using **Jinja templating language**, code review submissions and pushing the configurations into the centralized repository for updating the device deployment configurations for the new and existing devices.
* Responsible to automate most of the deployment and scaling related processes using **python scripting**.
* Proposed and implemented live site data center traffic migrations successfully without causing any impact.
* Responsible for reviewing requests from data center capacity planning team and finalizing the Build of materials that are supposed to be ordered to build new data center or scale the existing data center to support the upcoming customer requirement.
* Worked with automation team in creating automated troubleshooting scripts for interface down issues and **BGP session** down issues. Successfully implemented them in the production environment.
* Current responsibilities include estimating the upcoming capacity requests and port requirement for late binding server racks. Plan and deploy ports to serve the upcoming capacity in time.
* Procuring, Reserving and Assigning new IP addresses from the provided IP space containers to the deploy new devices using **IPAM** .
* Key contributions include troubleshooting of complex **LAN /WAN** infrastructure that include routing protocols **OSPF & BGP**.
* Worked on Installing & Configuring the **Almach Switches & Cisco Nexus Switches**.
* Prioritize and coordinate tasks to complete project within deadlines.
* Troubleshoot and resolve blocking issues during or post network deployment.
* Responsible for turning up links and routing during as a part of deployment process.
* Working closely with **Data center team** to resolve the link issues, device issues,environmental issues and SD card issues.
* Replacing and Rebuilding devices whenever needed as a part of troubleshooting.

**Environment**: Cisco Switches, Nexus 7k Series, Almachswitches , OSPF&BGP , SNMP ,DNS , Apollo Environment ,jinga, python , Blade Runner workflows , Git Repo ,Yaml Files ,Brazil Workspace ,IPAM, AWS Dashboad ,Linux .

**------------------------------------------------------------------------------------------------------------------------------------------------------------------**

**Client: Expedia Inc, Bellevue, WA April 2017- Mar’18**

**Role: NetworkEngineer**

**Responsibilities:**

* Currently working on daily implementation of Firewall rules for multiple clients. Using Tufin Secure Change. Also, used **Tufin Secure Track** to help trouble shoot issues as well as to find out status of firewall rule implementation.
* conducting the **PCI DSS** test to the firewall devices and checking for the PCI Compliance and resolving the issues related to the failed tests using Tufin Secure Track.
* Utilizing **Tufin** and **Splunk** firewall analyzing tool to remediate idle firewall policies that leave the network open to unnecessary vulnerabilities.
* To ticket or triage the issues in time by ensuring that all service level agreements are met. Also to detect service degradation and/or failures in power, communications equipment, software, or circuits.
* Coordinate with Multiple vendors like **Cisco, Juniper, F5, Citrix** and Arista for TAC cases for device issue and coordinate with major internet service providers for link issues.
* Improve network monitoring and actively working on identifying the alarms that needs threshold tweaking.
* Having excellent knowledge of Routing and Switching protocols and principles with extensive experience with Cisco and Juniper products.
* Worked collaboratively, ensuring adherence to established standards and procedures.
* To provide support, coordination and proper documentation for High Priority Incidents on network.
* Supposed to ensure all emergency response, and dispatch processes, and administrative processes are followed and in compliance with regulatory requirements.
* Advise project managers and team leaders on the implementation of **Cisco unified communications** solutions and data center solutions for clients based on industry best practices.
* Wrote and used a neural network based on the Hopefield Neural Network in C++ then ported it to Java to perform security testing on systems and networks.
* Worked extensively with operating systems in testing environment such as, Windows, Apple, **LINUX** (Slackware / RedHat / Suse), FreeBSD, Irix, AIX and Os2
* Provide day-to-day technical support and proactive maintenance for **Cisco UCCE** components.
* Extensively worked on **F5 load balancers** troubleshooting on **LTMs** and **GTMs**. Good knowledge on bash and tmsh commands for troubleshooting environment, health and failover related issues on devices.
* Extensively worked with Implementation/Deployment engineers, Maintenance engineers, Data center technicians, Network Tier-2 and Tier-3 teams to investigate the root cause of the issues and work around to resolve the issue
* Installed the application on **AWS EC2** instances and also configured the storage on **S3 buckets** .
* Managed Data backup and archiving on AWS using S3 and Glacier.

**Environment: Tufin Firewall Management tool, Cisco UCIS, Cisco Unified Communications, Avaya, Cisco 9500,9300Arista Switches Palo Alto, Check point, Cisco, Infoblox, Python F5 Load balancer,Java,Linux,IWAN ,Solarwinds, Meraki Wireless,SDN,Fault Management Monitoring, HP Servers .**

**------------------------------------------------------------------------------------------------------------------------------------------------------------------Client:Cargill ,Hopkins, MN Feb’15 -April’17**

**Role : Network Engineer**

**Responsibilities:**

* Installation and Configuration of **Cisco Switches, Cisco Routers** and **Cisco Firewalls**.
* Designing IP addressing schemes, VLAN tables and Switch port assignments and Ether-channel implementation.
* Gained hands on experience with **STP, VLAN, VTP** and **Trunking**.
* Implementation of **HSRP** and **GLBP** Routing Redundancy protocols on L3 Switches.
* Configuring and troubleshooting **OSPF** and **EIGRP**.
* Configuring route redistribution between **OSPF** and EIGRP in a **multi-area OSPF** network.
* Performing troubleshooting on slow network connectivity issues, Routing issues involved **OSPF, EIGRP** and identifying the root cause of the issues.
* Applying Access lists and NAT configurations based on implementation guidelines.
* Accessing the Switches and Routers remotely through **Telnet** and **SSH**.
* Managing and developing network projects designed to strengthen network continuity and deploy security elements in an attempt to meet and exceed contract requirements, including system analysis and troubleshooting.
* Performance monitoring of various applications to maintain quality of service and network stability.
* Change management, Monitoring network performance with network tools.
* IP Distribution for existing devices and new devices as they were added.
* Involved in troubleshooting IP addressing issues and Updating IOS images using **TFTP**.
* Performing maintenance on equipment as necessary. Modification of configurations, Password changes and diagnostic testing.
* Experience in handling Wireshark and other protocol analyzers and network management tools.
* Preparation and maintaining documentation using MS Visio.
* Raising and Execution of Change requests for new requirements in the network.
* Co-ordination for planned activities and network related changes.
* Identify any design issues in the existing setup and co-ordinate with design team in order to get that rectified.
* Conducting knowledge transfer sessions and training the team members.
* Mentoring newly joined Engineers with the processes and involved proactively in preparation and sending Daily Reports, Weekly Reports and Monthly Reports to the supervisor.

**Environment**: Cisco Switches,Cisco Routers, VLAN, STP, VTP, ACL, NAT, TCP/IP, Trunking,  
Telnet, SSH, HSRP, GLBP, OSPF and EIGRP.

. **----------------------------------------------------------------------------------------------------------------------------------------------------------------Client: Cablevision Systems, NY**

**Role: Network Engineer (Aug’14-Jan’15)**

**Responsibilities:**

* Configuration and administration of Cisco Switches and Routers.
* Configured and Installed **Cisco Nexus Switches (6004, 6004X).**
* Hands on experience on identifying, troubleshooting and resolving incidents related **VLANs, STP**, Routing and Packet Flow Issues.
* Dynamic routing protocol configuration **(RIP, RIP V2).**
* Installed and maintained network hardware and software.
* Responsible for installing, maintaining and supporting computer communication networks within an organization or between organizations.
* Troubleshooting network problems.
* Configuring trunk port between two switches.
* Support to plan and execute LAN (VLAN Management) and WAN management activity.
* As a LAN Support point of contact give response to initial trouble calls.
* Directly worked with customers to offer Level 2, Expertise in handling routers, servers, and switches.
* Provide **Cisco VoIP** services to students. Support **Cisco UCCM**, Unity day to day support. Provide support for call centers connected to the **Cisco uccx** call center, IVRs, and call recordings.
* Responsible for support and upgrades of a 250 user networks.
* Assists in LAN Design & support.
* Working knowledge of leveraging **F5 devices** for web acceleration and caching.
* Performed onsite data center support that includes monitoring of systems alarms, electrical power, server administration and network alerts.
* Provided customer support including daily backup procedures, testing network connections, equipment installation and turn-up, and remote hands assistance.
* Undertook troubleshooting of network connectivity problems and day-to-day operations.
* Having knowledge on **OSPF & EIGRP, BGP** Routing protocols.
* Developed maintenance and operating standards for computer hardware and software.
* Troubleshooting and supporting multiple OS and hardware environments.
* Maintained detailed time based incident logs and technical checklists.
* Responsible for documenting network related issues.

**Environment:** Nexus,Cisco 2948/3560/4500/3560/3750/3550/3500/2960/6500,Cisco 9500,9300 switches and Cisco 3640/12000 /7200/3845/3600/2800 routers, Cisco Nexus 7K/5K/2K, Cisco ASA5510,IWAN,Checkpoint, windows server 2003/2008: F5 BIGIP, LTM, OSPF, EIGRP, RIP, BGP, VLAN, VPN, Checkpoint, Juniper SRX

**------------------------------------------------------------------------------------------------------------------------------------------------------------------**

**Client: Sonata Software, Bengaluru, India (May ’13-Jul’14)**

**Role: Network Administrator**

Responsibilities:

* Developed and documented configuration guidelines for use by Network Operations staff.
* Monitor global network operations, testing and installing new equipment.
* Configured **Cisco Routers (2500, 3000, 4000**) using **RIP, IGRP, OSPF, EIGRP**.
* Routing related tasks included providing Cisco router configuration and change management, providing technical support for Cisco Router configurations and installation for Customer.
* Network Migration from **RIP** to **OSPF** .
* Identified and resolved issues involving configurations and connectivity.
* The goal is to ensure the smooth operation of communication networks in order to provide maximum performance and availability for their users (staff, clients, customers, suppliers, etc.).
* Maintaining and monitoring data center facilities and equipment to meet **100% SLA** uptime standards.
* Cabled, racked and networked equipment and servers. Supported and maintained NOC/Co-location facility.
* Implemented **EIGRP, OSPF & BGP** and configured security policies**- NAT, PAT & ACL.**
* Actively involved in creating and managing **VLANS, Port security- 802.1x, Trucking 802.1Q,Inter-VLAN routing**, and LAN security on **CiscoCatalyst Switches** and **Cisco Nexus Switches 5596, 7009.**
* Monitored network nodes during operations via Infoblox (Net Cordia) **Net MRI** and **SNMP**.
* Designed & implemented Data Center Migration &strategies for expansion of **MPLS VPN** networks.
* Configuring **DNS & DHCP** using python library.
* Identified opportunities for implementation of network best practices, particularly **F5 load balancer** implementations.
* Involved in Troubleshooting of complex **LAN/WAN** infrastructure that include routing protocols **EIGRP, OSPF & BGP.**
* Provide customer support including daily backup procedures, testing network connections, equipment installation and turn-up, and remote hands assistance.

**Environment:** Cisco ASA 5500, BGP, EIGRP, OSPF, MPLS, VPN,QoS, Cisco switches5596, 7009.

**------------------------------------------------------------------------------------------------------------------------------------------------------------------**

**Client: Trident Software, India(Sep’12- April’13)**

Role: Jr. Network Engineer

Responsibilities:

* Involved in the **DATA CENTER** Implementation techniques and methodologies.
* Responsible for using and managing IP Control system, and work with **DHCP** configuration team.
* Hand on experience the configuration and implementation of various Cisco Routers and L2 Switches
* Carry out full installation of **Cisco routers, switches** and various hubs. Successfully engineered a virtual private network (VPN) solution utilizing Windows 2003 Server.
* perform configuration of LAN\WAN technologies such as **Ethernet, Fast Ethernet**, and **Gigabit Ethernet**.
* Work on different connection medium like Fiber and Copper Connectivity.
* Testing and evaluating Cisco new software’s.
* Ensure connectivity and communication among servers and clients inside and outside department
* Create and test Cisco router and switching operations using **OSPF** routing protocol, ASA Firewalls for stable VPNs.
* IOS upgrade for Cisco routers & switches.
* Involved in L2/L3 Switching Technology Administration including creating and managing VLANs, Port security, Trunking, STP, Inter Vlan routing, LAN security.
* Managing Layer 2 switches of **Cisco, Vlan** configuration and assigning ports to specific Vlan as per requirement.
* Monitor and tune network to ensure acceptable levels of performance

**Environment:**LAN, WAN, Cisco 6500/2600/3500 routers, NAT, EIGRP,OSPF, BGP, VTP, STP, VPN, Ether Channels, DHCP, ACL, VLAN.

.