Jinesh Kumar

Network Engineer - Nuance Communications

York, NY - Email me on Indeed: indeed.com/r/Jinesh-Kumar/90455c99300dd8f9

• MS degree with Expertise of 7 years with rich Computer Networking experience. Solid understanding of Designing, Implementation, Administration, Operational and troubleshooting of enterprise data networks
• Implementing & troubleshooting Cisco […] series routers, CAT OS […] series switches and Nexus 2k,5k,7k series switches, Juniper PTX 1000, 3000, 5000, MX 240, 480, 960 series routers and Juniper EX and QFX series switches.
• Implementation of Nexus platform 7k, 5k, 2k series and deploying various advance features like FEX, VPC, VDC
• Expert level configuration of Layer 2 technology including VLANS, Trunking, STP, RSTP, PVST, MST, VTP in addition to port-security, Uplink fast, Backbone fast, Port fast, BPDU guard & filter and Ether channel including LACP & PAGP negotiations
• Extensive hand on experience with TCP/IP and OSI models
• Extensive working experience with Cisco network security (IDS, ASA 5500 Firewall), network redundancy (HSRP, GLBP and VRRP)
• Configuring security policies and procedures using Access Control List (ACL), Route Maps, Offset lists, Prefix Lists
• Excellent hands on experience with MPLS networks and MPLS VPNs.
• Expert level understanding and hands on experience with Solarwinds Orion. Analysis of SYSLOG, SNMP traps, Netflow configuration involvement.
• Expert level experience in Implementing and troubleshooting OSPF, EIGRP, BGP routing protocols and Policy based routing
• Managed inventory of all network hardware, Management and Monitoring by use of SSH, SYSLOG, SNMP, NTP, NAT, PAT and dealt with the DOS attacks and Flooding attacks.
• VPN implementation and troubleshooting for remote site and External clients
• Well versed with AAA configuration using TACACS+ & RADIUS server
• Strong troubleshooting skills on Cisco LAN switch environment including WAN infrastructure
• Worked on F5 BIG-IP Load balancer LTM/GTM for application redundancy and high availability
• Worked on T1/E1/T3, Sonet technologies and different LAN & WAN technologies
• Proficient in using MS Office- Visio, Excel, Word for documentation
• Excellent inter-personal skills with an ability to work in a team of large members and also with minimum supervision necessary
Authorized to work in the US for any employer

WORK EXPERIENCE

Network Engineer

Nuance Communications - Princeton, NJ - January 2016 to Present

• Implementation, configuration, maintenance and troubleshooting of four datacenter at Nuance Communication.
• Involved in configuration and implementation of composite network models consists of Cisco routers 2900, 3800, 3900 series ASR 1000, 5000, 3900, 7300, 9000 series routers, Cisco catalyst switches 2900, 3700, 3700, 3800, 6500, ME 3600 Nexus 2k/5k/7k.
• Configuration and administration of RIP, OSPF, EIGRP, BGP, static routing on Cisco routers.

• Configured and installed various network devices and services. Performed network maintenance and system upgrades during maintenance hour including service packs, patches, hot fixes and security configuration.

• Experience working and manipulating various BGP attributes such as AS_PATH, Local_Preference, MED for path manipulation and configuring different aspect of BGP.

• Cisco ASA 5500 firewall troubleshooting and configuring policy based on change request, allowing/denying communication between different segments of the network based on requested ports. Upgraded ASA firewall both Standalone and Active/Standby unit.

• Configuration and maintenance of OSPF on newly deployed Catalyst 6500, 3750 & 3500 being the enterprise IGP. Creating Stub Areas, authentication, virtual links and more for effective Routing.

• Configure & troubleshoot Cisco & Junos Juniper M40 and M60, PTX 5k routers supporting IP Routing protocols BGP-4, OSPF, RIP, IGRP, IPX routing; LAN/WAN network interface protocols. Troubleshoot LAN/WAN Cisco Series & Juniper routers interfaces configurations for Frame Relay, MPLS, T1/T3.

• Provisioning and troubleshooting Cisco routers including Nexus 7k and ASR9k. Configuring Cisco IOS and IOS-XR router platforms and routing protocols like OSPF, BGP and MPLS.

• Experience with MPLS Layer 3 VPN on ASR 1006 with IOS- XR.

• Implementing and managing traffic engineering, Qos, Cos on top of an existing Multiprotocol Label Switching (MPLS) network using Frame Relay and Open Shortest Path First (OSPF).

• Implementation of L3 MPLS-VPN and Migration of branches to the new MPLS cloud4.

• Enter firewall rules using Juniper Junos Space, Check Point and Cisco CSM

• Creating Networks within Junos Space using IP addressing (Subnets)

• Configured and worked on Juniper MX240 and MX40 router, and optimized network for application delivery in virtualized network environment.

• Configured Juniper QFX 5100 switches for managed colocation customers.

• On-site Juniper support engineer for on a Juniper MX migration to QFX 10 k implementation.

• Established IPSec VPN tunnels between branch offices and headquarter using Juniper SRX Firewall

• Responsible for all Juniper SRX firewalls consisting of SRX 3560, 1400, 550. Using CLI and/or Junos Space Security Director for management. Install, upgrade, troubleshoot, design, etc

• Implemented inter-VLAN routing (on Juniper EX 3300 and EX 3400 switches) among the VLANs to allow communication on larger internetworks.

• Configuration of ACLs in ASA 5500 firewalls for internet access for server/hosts in LAN and DMZ as requested by management

• IPsec Site to site VPN configuration and maintenance on Cisco ASA pair.

• Configured VPC and VDC and supported Cisco Nexus 5k/7k switches, Nexus 2k Fabric extenders.

• Involved in JIRA vulnerability management project. Creating, managing, resolving tickets in JIRA Enterprise.

• Worked on Raritan and Tripplelite console servers to remediate OpenSSL, OpenSSH, invalid certificate and other security issues. Performed Firmware upgrade on them.

• Upgraded from SNMPv2 to SNMPv3 on Cisco ASA, Catalyst switches.

• Configured redundant router protocols like HSRP, VRRP and GLBP.

• Involved in L2/L3 switching technology administration including creating and managing VLANs, VTP, etherchannel, port security, trunking, STP, inter-vlan routing, Lan security.

• Configured VLANs with 802.1q tagging. Configured Trunk groups, ether channels, and Spanning tree for creating Access/distribution and core layer switching architecture.

• Configuring, implementing and troubleshooting VLAN's, VTP, STP, Trunking, Ether channels.

• Troubleshooting the Network Routing protocols (BGP, OSPF and RIP) during the Migrations and new client connections.

• Configured BPDU guard, port-fast, uplink fast and other STP features.

• Configured and administration of pools, pool members, nodes, health check monitors on F5 LTM.

• Involved in troubleshooting network connectivity issues, routing issues and identifying root cause of the issue.

• Involved in upgrading Cisco routers, switches, ASA firewalls using tftp server.

• Monitored performance and analyzed network irregularities using tool such as Solarwinds.
• Scanning networking devices for possible vulnerabilities using scanner tools like Rapid7.
• Expert level knowledge and hands on experience with networking concepts like TCP/IP, Routing and Switching.
• Managing JIRA tool ticket process, assign tickets to appropriate person, track process of the ticket also involved in resolving network related tickets.
• Upgrading Diagrams using Vision. Involved in documentation.

Network Engineer
Halliburton - Houston, TX - February 2014 to December 2015

• Responsible for managing Core Data Center by performing daily implementation, operations, maintenance and troubleshooting.
• Implementing, configuring, and troubleshooting various routing protocols like RIP, EIGRP, OSPF, and BGP etc.
• Experience with manipulating various BGP attributes such as Local Preference, MED, Extended Communities, Route-Reflector clusters, Route-maps and route policy implementation.
• Configured and managed OSPF redistribution and authentication with type 3 LSA filtering and to prevent LSA flooding and also configured OSPF over frame relay networks for NBMA and point to multipoint strategies.
• Worked extensively in Configuring, Monitoring and Troubleshooting Cisco ASA's 5585.
• Responsible for Cisco ASA firewall administration, Rule Analysis, Rule Modification and implemented Access Lists for allowing/denying target traffic.
• Packet capturing, troubleshooting on network problems, identifying and fixing problems.
• Negotiate VPN tunnels using IPsec encryption standards and also configured and implemented site-to-site VPN on ASA firewalls.
• Designed, configured & implemented Cisco Juniper Networking Switches, Routers including Catalyst, Nexus, MX, PTX, EX, QFX series.
• Worked on Juniper SRX Versions 300, 3400, 3600, 220 implementing new and additional rules on the existing firewalls for a server refresh project
• Responsible for all Juniper SRX firewalls consisting of SRX 3560, 1400, 550. Using CLI and/or Junos Space Security Director for management. Install, upgrade, troubleshoot, design, etc.
• Installed and configured Juniper MX480- 960 Routers, EX2200, 4300 Switches, PTX3000 routers, QFX5100, 3500 and SRX200 Branch platforms
• Established IPSec VPN tunnels between branch offices and headquarter using Juniper SRX Firewall
• Implementation and configuration of MPLS L3 VPN.
• Configuring BGP/OSPF routing policies and designs, worked on implementation strategies for the expansion of the MPLS VPN networks.
• Configured and worked on Juniper MX240 and MX480 router, and optimized network for application delivery in virtualized network environment.
• Extensive implementation of firewall rules on Juniper SRX 3600, SRX 650 and SRX 220 on a daily basis, using SPACE as well as CLI when needed.
• Support and maintain firewall standards (cisco ASA, Juniper SRX, Junos Space)
• Upgraded ASA firewall both standalone and active/standby pairs using ASDM.
• Extensively worked on layer 2 protocols and configured them including VLANs, port security, trunking, STP, RPVST+, Inter-vlan routing, Ether-channel, VTP on various Cisco Catalyst switches including 2960, 3560, 3750, 4500, 4900,6500 etc.
• Implemented, configured redundancy protocols HSRP, VRRP, GLBP for Default Gateway Redundancy.
• Configuring switch ports (VLAN tagging, switch port mode, Port Channel) at distribution and Access layers for new server builds and critical server movement as per requirement.
• AAA Implementation for Network device management using TACACS+ and Radius server.

• Managing F5 Administration. Worked with F5 Big-IP-LTM load balancer creating virtual servers, creating pools, mapping pools, iRules and Health checks.
• Deploying Nexus 2248 Fabric Extender, 5548, 7018 series switches in server farm environment with VPC and VDC features.
• Troubleshooting the TCP/IP networks for connectivity, outages and slow network issues and recommended appropriate and cost-effective solutions for the congestion.
• Troubleshooting the Network Routing protocols (BGP, EIGRP and RIP) during the Migrations and new client connections.
• Performed network monitoring, providing analysis using various tools like Wire shark, Solar winds etc.
• Preparing documentation and Network diagram using Visio.

Network Engineer
Samyak Infotech Private Limited - January 2010 to July 2013

• Configuration, LAN/WAN, Switching/Routing protocols and Responsible for implementation and day to day operations of all associated hubs, routers, bridges, gateways and related equipment.
• Managed fast Layer 3 switched/routed LAN/WAN infrastructure as a part of Network team. The LAN consisted of Cisco campus model of Cisco 3550 at access layer, Cisco 6513 at distribution/core layer.
• Installed, configured and maintained Cisco 2900, 3600, 7200 routers and 3750, 4500, 6500 catalyst cisco switches.
• Configured ACLs to allow users all over the company to access different applications and blocking others.
• Configured Etherchannels, Trunks, VLANs with 802.1q, HSRP in a LAN environment. Configured STP for loop prevention and VTP for creating Access/distribution and core layer switching architecture.
• Configured routing protocols like RIPv2, OSPF and EIGRP on Cisco routers and Catalyst switches.
• Performed IOS upgrades on various catalyst series switches, routers and maintained latest IOS versions.
• Troubleshooting LAN/WAN infrastructure, routing protocols EIGRP, OSPF as well as DNS and DHCP and other IP conflicts.
• Working on network-based IT systems such as racking, stacking and cabling.
• Used Wire-shark as scanning and sniffing tools.
• Configured Cisco IOS Feature Set, NAT and Simple Network Management Protocol (SNMP) for Network Security implementation.
• Network cabling, dressing, labeling and troubleshooting network drops onsite.
• Interacting with the clients by creating tickets for the issue and dispatching to the correct queues for resolution.

EDUCATION

Master of Science in Telecommunication Engineering Technology
Rochester Institute of Technology   -   Rochester, NY

SKILLS

CATALYST (7 years), CISCO (7 years), EIGRP (7 years), HSRP (7 years), OSPF (7 years)

ADDITIONAL INFORMATION

Technical skills:
Routers: Cisco 1900, […] 2900, […] 3900, 7200, 7600, PTX 1000, 3000, 5000, MX
Switches: Cisco Catalyst 2960, 3560, 3750, 4500, 6500 & Nexus 2K/5K/7K, EX, QFX
Routing: OSPF, EIGRP, BGP, RIP, Route Filtering, Redistribution, Summarization& Static routing
Switching: VLAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Ether channels

LAN: Ethernet (IEEE 802.3), Fast Ethernet, Gigabit Ethernet

WAN: PPP, HDLC, Channelized links (E1/T1/E3/T3), Fiber Optic Circuits, Frame Relay, MPLS

Protocol: IP, TCP, UDP, ICMP, NAT, DHCP, SNMP, IPSEC, SSL, HTTP, SSH, DNS, PAT

Load Balancer: F5 Networks (Big-IP) LTM 6900 and 3900

Network Security: Cisco ASA 5540, ACL, IPSEC, SRX

Network Management Tools: Wireshark, Network analyzer, GNS3, Tera term & Putty, Syslog, SNMP, Junos Space

Gateway Redundancy: HSRP, GLBP, VRRP

AAA Architecture: TACACS+, RADIUS

Operating System: Windows […] Window […]