

# Rahul Gutta

## Sr. Network Engineer - BlackRock

Wilmington, DE - Email me on Indeed: [indeed.com/r/Rahul-Gutta/148684d7401239a7](https://www.indeed.com/r/Rahul-Gutta/148684d7401239a7)

- Over 7 years of experience in Network design, Security, Tier support of Networks in various environments.
  - Experience working with security devices such as Firewalls, VPN switches and Intrusion Detection Systems.
  - Extensive experience working on Cisco and Juniper routers/switches in complex environments with multiple ISPs.
  - Expert in dealing with Networking Protocols and Standards such as TCP/IP, OSI, UDP, Layer 2 (VLANs, STP, VTP), Routing Protocols (RIP, EIGRP, OSPF, BGP), WAN technologies (Frame relay, IPSec, VPNs, MPLS), QoS.
  - Conversions to BGP WAN routing. Which will be to convert WAN routing from OSPF to BGP (OSPF is used for local routing only) which involves new wan links.
  - Experience working on Cloud Computing Virtualization using VMware ESXi 4.0 and Windows Hyper-V.
  - Experience on Network Monitoring & Testing tools such as Wireshark/Ethereal, Cisco Works, and IXIA.
  - Good understanding of VoIP implementation and protocols such as H.323, RTP, and SIP.
  - Experience in troubleshooting NAT configurations, Access-Lists (ACL), and DNS/DHCP related issues within the LAN network.
  - In-depth expertise in the analysis, implementation, troubleshooting & documentation of LAN/WAN architecture and good experience on IP services.
  - Good understanding of cable management such as CAT3/4/5, Fiber-Optic (Multi & Single mode fibers).
  - Knowledge of Subnetting IPv4/IPv6 addresses and IP address management.
  - Experience in configuring HSRP and redistribution between routing protocols troubleshooting them.
  - Familiar with security products such as Cisco ISE
  - Implementation of HSRP, VRRP and GLBP for Default Gateway Redundancy.
  - In-depth knowledge and hands-on experience on IP Addressing, Sub netting, VLSM and ARP, reverse & proxy ARP, Ping Concepts.
  - Cisco ASA/Checkpoint Firewall troubleshooting and policy change requests for new IP segments that either come on line or that may have been altered during various planned network changes on the network.
  - Hands-on experience with TCP/IP, LANs, WANs, and WLANs (WiFi) Cisco VPN Concentrators, F5 Fire pass SSL VPN, 6509 Core Datacenter designs.
  - Replaced aging Checkpoint firewall architecture with new next generation Palo Alto appliances serving as firewalls and URL and application inspection
  - Worked on Palo Alto Firewall
  - Worked on Cisco ASA 5500 series firewalls.
  - Worked on Cisco Nexus 5010 Switch.
  - Experience in F5, Cisco ACE 4710 Load balancers.
  - Exposure to Cisco WAAS, WCS.
  - Expert Level Knowledge about TCP/IP and OSI models.
  - Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP Ether channel, STP, RSTP and MST.
  - Excellent communication skills to interact with team members and support personnel and also can act as a mentor to less experienced personnel
- Willing to relocate: Anywhere
- Sponsorship required to work in the US

## WORK EXPERIENCE

### **Sr. Network Engineer**

BlackRock - Wilmington, DE - January 2015 to Present

#### Responsibilities:

- > Dealt with implementation, deployment related to Cisco devices and applying security policies.
- > Troubleshoot issues related to VLAN, VLAN Trunking, HSRP failovers and related issues.
- > Planning for upgrade of IOS on devices and performing the upgrade.
- > Assisted in the architecture, evaluation and recommendations related to purchasing and installing hardware, software related to IP Networking.
- > Responsible for maintaining the entire Routing and switching domain across the campus / Branch to head office
- > And also the Layer-2 campus network across the remote branches which included configuring VLANs
- > And Trunks, Spanning Tree protocol, Port-Security, VLAN-MAPs and DOT1X for switches and Wireless.
- > Monitored network traffic and developed capacity planning initiatives, making necessary recommendations additional resources or hardware.
- > Responsible for creating network documents and Visio drawings for smooth and efficient network operations.
- > Configured Juniper MX480s, EX8200s, EX4500s, EX4200s, and SRX5800s from scratch to match design.
- > Possess a good experience working with the Trouble Tickets on F5 Load balancers.
- > Switching experience includes Cisco Catalyst switches: CISCO 3750, 4500, 6500 series switches.
- > Managing enterprise BGP setup by configuring and troubleshooting BGP related issues. Responsible
- > for adding new BGP peers for remote branch offices and business partners.
- > Worked as part of a team to manage Enterprise Network Infrastructure as a Tier 3 Support Engineer.
- > Involved in Configuring and implementing of Composite Network models consists of Cisco7600, 7200, 3800 series and ASR 9k, GSR 12K routers and Cisco 2950, 3500, 5000, 6500 Series switches.
- > Implemented Positive Enforcement Model with the help of Palo Alto Networks
- > Configured networks using routing protocols such as OSPF, BGP and manipulated routing updates using route-map, distribute list and administrative distance for on-demand Infrastructure.
- > Experienced with Juniper: EX-2200, EX-4200, EX-4500, MX-480, and M Series, SRX210, SRX240.
- > Configured BIG IP (F5) Load balancers and also monitored the Packet Flow in the Load balancers.
- > Configured OSPF and BGP on Juniper M and MX series Routers
- > Configured VLAN, Spanning tree, VSTP, SNMP on EX series switches
- > Responsible for turning up BGP peering and customer sessions, as well as debugging BGP routing problems.
- > Designing and Implementation of (LAN) VLANs, VTP, Spanning Tree (STP), Trunking (dot1q and ISL) and Ether channel.
- > Configuring rules and Maintaining Palo Alto Firewalls & Analysis of firewall logs using various tools
- > Administration of ASA firewalls in the DMZ and FWSM in the Server Farm to provide security
- > and controlled/restricted access.

### **Sr. Network Engineer**

McDonald Corporation - Chicago, IL - November 2013 to December 2014

#### Responsibilities:

- > Configure / Troubleshoot CISCO 12000, 7500, 3800 series routers and 3560 series switch for LAN/WAN connectivity.
- > Involved in design and implementation of Data Center Migration, worked on implementation strategies for the expansion of the MPLS VPN networks
- > Experience configuring VPC, VDC and ISSU software upgrade in Nexus 7010

- Experience in Configuring, upgrading and verifying NX-OS operation system with OSPF, BGP
- Actively involved in Switching technology Administration including creating and managing VLANs, Port security- 802.1x, Trunking 802.1Q, RPVST+, Inter-VLAN routing, and LAN security on Cisco Catalyst Switches 4507R+E, 6509-E and Cisco Nexus Switches 2232, 5596, 7009.
- Troubleshooting of complex LAN/WAN infrastructure that include routing protocols EIGRP, OSPF & BGP, MPLS
- Experience with deploying PIM Sparse-mode/Dense-mode multicasting in Campus locations.
- Serve as part of a team of network engineers responsible for base wide network upgrade from Cisco Layer 3 Catalyst switches to Juniper Layer 3 EX4200 & EX3200 switches.
- Design, implement and administer IPv4 enterprise network infrastructure utilizing Juniper routers like Juniper MX80, MX 480 and MX960.
- Involved in Configuration of Access lists (ACL) on checkpoint firewall for the proper network routing for the B2B network connectivity.
- Experienced in handling and installing Palo Alto Firewalls
- Configure all Palo Alto Networks Firewall models (PA-2k, PA-3k, PA-5k etc.)
- Serve as part of a team of network engineers responsible for base wide network upgrade from Cisco Layer 3 Catalyst switches to Juniper Layer 3 EX4200 & EX3200 switches.
- Experience working with ASR 9000 series switches with IOS-XR
- Involved in configuring Juniper SSG-140 and Check point firewall.
- Provided Layer-3 redundancy by implementing HSRP and GLBP for High availability
- Implementation and Configuration ( Profiles, I Rules) of F5 Big-IP LTM-6400 load balancers
- Implemented Access lists and policy mapping on Juniper router installed in each branch across all the states.
- Worked on configuration commissioning and upgradation of the MPLS circuits for various branch offices.

## **Network Engineer**

Emerson - Noida, Uttar Pradesh - July 2010 to September 2013

### **Responsibilities:**

- Configuring ACL to allow only authorized users to access the servers.
- Maintain effective communications with vendors, peers and clients in resolution of trouble-tickets, equipment RMAs, and support requests.
- Troubleshoot Hardware, Cisco IOS, install and configure Cisco routers and switches.
- Participated in on call support in troubleshooting the configuration and installation issues.
- Installation, Maintenance, Troubleshooting Local and Wide Areas Network by using ISDN, Frame relay, DDR, NAT, DHCP, and TCP/IP.
- Manage and coordinate all infrastructure related moves, adds, and changes.
- Implement, and maintain Local/Wide Area Network over 13 branches.
- Configured OSPF, BGP on Juniper M and MX series Routers.
- Worked in Configuration and extension of VLAN from one network segment to other segment
- between different vendor switches (Cisco, Juniper)
- Provided Technical support in terms of upgrading, improving and expanding the network.
- Providing technical security proposals, detailed RFP responses, security presentation, installing and configuring ASA firewalls, VPN networks and redesigning customer security architectures.
- Project to migrate/re-design 700+ customer connections (MPLS & Frame) out of retired
- Data center to new Juniper M120.
- Time to time upgrade network connectivity between branch office and regional office with multiple link paths and routers running HSRP, EIGRP in unequal cost load balancing to build resilient network.
- Configured network using routing protocols such as OSPF, BGP and troubleshooting L2/L3 issues.
- Configuration of NAT.
- Design and implement Catalyst/ASA Firewall Service Module for various LAN's.

- Key contributions include troubleshooting of complex LAN/WAN infrastructure that include routing protocols EIGRP, OSPF & BGP.
- Configured Client VPN technologies including Cisco's VPN client via IPSEC.
- Configure switch VLANs and inter-switch communication. Build and setup network Laboratory.
- Actively involved in troubleshooting on network problems with Wireshark, identifying and fixing problems.

## **Network Engineer**

BirlaSoft - May 2008 to June 2010

### **Responsibilities:**

- Used TFTP server to backup Cisco configuration files.
- Provided technical support for expansion of the existing network architecture to incorporate new users.
- Network layer tasks included configuration of IP Addressing using FLSM, VLSM for all applications and servers throughout the company
- Configured STP for loop prevention on Cisco Catalyst Switches
- Configured VTP to manage VLAN database throughout the network for Inter-VLAN Routing.
- Worked in setting up inter-VLAN routing, redistribution, access-lists and dynamic routing.
- Involved in configuring and implementing of Composite Network models consists of Cisco 3750, 2620 and, 1900 series routers and Cisco 2950, 3500 Series switches.
- Implemented various Switch Port Security features as per the company's policy
- Configured OSPF, and EIGRP on 2901 and 3925 Cisco routers.
- Configured VLANS to isolate different departments
- Troubleshoot issues related to VLAN, VLAN Trunking, HSRP failovers, related issues.
- Configured IPSEC VPN on SRX series firewalls
- Design, installation and troubleshooting networks with hand-on experience with OSPF, BGP, VPLS, Multicast, VPN, MPLS, & Traffic engineering.
- Involved in implementation of trunking using Dot1Q, and ISL on Cisco Catalyst Switches
- Worked with sniffing tools like Ethereal (Wireshark) to analyze the network problems.
- Maintenance and troubleshooting of network connectivity problems using PING, Trace Route.
- Performed replacements of failed hardware and upgraded software
- Performed scheduled Virus Checks & Updates on all Servers & Desktops.
- Implementing Routing and Switching using the following protocols; OSPF, BGP on Juniper M series routers.
- Involved in Local Area Network (LAN) implementation, troubleshooting, and maintenance as per company's requirements.

### **ADDITIONAL INFORMATION**

Operating Systems Windows (Server [...] Vista, Windows 7), Linux OS

Routers Cisco [...] ASR1001, 2900, 3900, 7200, 7600 & ASR9000

Switches Cisco 3750, 4507, 4510 & 6500 series switches, Nexus 7010, 5548

Routing MPLS, OSPF, EIGRP, BGP, RIP-2, PBR, IS-IS, Route Filtering, Redistribution, Summarization, Static Routing

Switching

LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Multicast operations, Layer 3 Switches, Ether channels, Transparent Bridging.

Network security Cisco (ASA, PIX) 5510, Palo Alto, juniper, ACL, IPSEC VPN, GRE VPN, NAT/PAT, Filtering, Load Balancing, IDS/IPS,

Load Balancer F5 Networks (Big-IP) LTM Module, Cisco ACE 30 load balancer

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

## WAN

Leased lines 128k - 155Mb (PPP / HDLC), Channelized links [...] Fiber Optic Circuits, Frame Relay, ISDN, Load Balancing. Various Features & Services: IOS and Features, HSRP, GLBP, IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, TFTP and FTP Management

AAA Architecture TACACS+, RADIUS, Cisco ACS

Network Management SNMP, Solar Winds, HP open view, and Wire shark

Reports and Network Diagrams Microsoft (Visio pro.)