Krishna Reddy

Sr. Network Engineer - The Catholic Health Initiatives

 - Email me on Indeed: indeed.com/r/Krishna-Reddy/78871a367d812da6

• Cisco Certified Network Engineer with 7+ years of professional experience in Network engineering, performing Network analysis, design, Implementing, capacity planning with focus on performance tuning and support of large Networks.

• Experience in layer-3 Routing and layer-2 Switching. Dealt with Nexus models like 5K, 7K, and 9K series.

• Strong hands on experience in installing, configuring and troubleshooting of Cisco 7600, 7200, 3800, 3600, 2800, 2600, 3900, 2500, 1800.

• Have worked on ASR 1002 series Routers, Cisco Catalyst 6500, 4500, 3750, 2950 and 3500 series switches.

• Worked on network topologies and configurations, TCP/IP, UDP, DS1/DS3, Frame Relay, Token ring, ATM, bridges, Metro Ethernet, T1/T3, routers, hubs and Switches.

• Good knowledge of OSI Model and TCP/IP networking standards with protocols such as SNMP, FTP, ICMP and IPv6.

• Well Experienced in configuring protocols, VRRP, IGMP, PPP, PAP, CHAP, ACL SNMP, RIP, EIGRP, BGP, OSPF and tunnel Installing.

• Switching tasks including L2/L3 Protocols like VTP, STP, RSTP, PVST, RPVST, ISL, 802.1q, IPsec and GRE Tunneling, VLANs, HSRP, GLBP, Ether Channel, Trunking, Port Security.

• Hand on experience with Cisco catalyst 6509 and implemented VSS along with VDC and VPC on Nexus 5505, 7009 switches.

• Managed inventory of all network hardware, Management and Monitoring by use of SSH, Syslog, SNMP.

• Network security including NAT/PAT, ACL, HTTPS, Web Proxy, LDAP, VPN Concentrator, ASA/PIX Firewalls, Cisco IDS/IPS, AAA, IPsec/SSL VPN and L4 - L7 protocol.

• Experience in managing security policies with CSM, integrated with ASA 5500 devices.

• Works configuration of new VLANs and extension of existing VLANs on/to the necessary equipment to have connectivity between two different data centers

• Strong hands on experience on PIX Firewalls, ASA […] Firewalls

• Experience with F5 load balancers - LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability

• Configured and troubleshoot of CSM, integration with ASA devices.

• Worked on ALL firewall configuration implementations and policy installations across all platforms during maintenance windows including Juniper, Check Point, and Fortinet for major enterprise network.

• Configure, monitor network security using Palo Alto, McAfee Policy

• Strong knowledge and experience in implementing, configuring VPN technologies like IPSEC, MPLS.

• Have knowledge on various advanced technologies like VOIP, H.323, SIP, QOS, IPv6, Multicasting, and MPLS.

• Deployment and Management of Bluecoat proxies in forward proxy scenario as well as for security in reverse proxy scenario.

• Hand on experience to work with Linux Server, Vblock Server, UCS and VMware Server.

• Experience in monitoring and analyzing the load balancing of network traffic using Wireshark and Solar winds.

• Experience in Physical cabling, IP addressing, configuring and supporting TCP/IP.

• Efficient at use of Microsoft VISIO/Office as technical documentation and presentation tools.

WORK EXPERIENCE

Sr. Network Engineer

The Catholic Health Initiatives - Des Moines, IA - April 2015 to Present

Responsibilities:

● LAN Refresh activity of 3850, 6504 E, 6506 E, 6509 E switches.
● Providing support for decommission of the 3750 switches with 3850 switches.
● Worked on usage of different types of Network modules, SFP's such as LRM and X2 10 Gig.
● Installing, configuring Cisco Catalyst switches 6500, 3750 & 3550 series and configured routing protocol OSPF, EIGRP, BGP with Access Control lists implemented as per Network Design.

● Designing and deploying EIGRP, OSPF, BGP, MPLS-VPN protocols and routing technologies for connecting data center to remote locations.
● Implemented, configured redundancy protocols HSRP, VRRP, GLBP for Default Gateway Redundancy.
● Experience with converting Cisco 6500 IOS to Cisco Nexus NX-OS in the data center environment.
● Experience in configuring, upgrading and verifying the NX-OS operation system.
● Implementation of Access Lists for allowing/blocking desired traffic.
● Network redesign and configuration WAN and LAN infrastructure utilizing redundant Cisco ASA firewalls, Cisco switches and routers over MPLS and VPN connectivity.
• Designing, implementing LAN/WAN configurations on Cisco 5K, catalyst 6500 switches.
• Involved in complete LAN, WAN development (including IP address planning, designing, installation, configuration, testing, maintenance etc.).
• Possess good experience in configuring and troubleshooting WAN technologies like MPLS, T1, T3, DS3 and ISDN.
● Expertise in maintenance of layer 2 switching tasks which advocate VLAN, VTP, STP, RSTP, PVST, RPVST, configuring of ether channel with LACP and PAGP along with troubleshooting of inter-VLAN routing
● Strong knowledge on networking concepts like TCP/IP, Routing and Switching
• Involved in Switching Technology Administration including creating and managing VLANs, Port security, Trunking, STP, InterVlan routing and LAN security.
● Configuring VLANs/routing/NATing with the firewalls as per the network design.
● Performing network monitoring, providing analysis using various tools like WireShark, Solarwinds etc

Environment: Cisco 3750X, 3850, 6509E, 6506E, 6504E switches, Cisco 3660/3845/7609 Routers, VLAN, OSPF, BGP, MPLS, HSRP, VRRP, GLBP, ASA 5580, Nexus 5K.

Sr. Network Engineer
The Chickasaw Nation   -   Thackerville, OK - March 2014 to March 2015

Responsibilities:
• Implementing the necessary changes such as adding, moving and changing as per the requirements of business lines in a data center environment.
• Monitoring the network traffic with the help of Qradar and Cisco IPS event viewer.
• Remediation of firewall rules from checkpoint firewalls to Cisco ASA firewalls and their implementation.
• Implemented with Cisco Layer 3 switches 3750, 4500, 6500 in multi VLAN environment with the use of inter-VLAN routing, HSRP, ISL trunk, ether channel.
• Used Cisco routers, switches, Access Points, Concentrators for implementation and management purpose.
• Configured IP, EIGRP and OSPF in routers. Configured and installed multi-protocol (IP, IPX) multi-interface Cisco routers.
• Experience working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution for datacenter access architecture.
• Experience configuring Virtual Device Context in Nexus 7010
• Deploying and decommission of VLANs on core ASR 9K, Nexus 7K, 5K
• Configuring RIP, OSPF and Static routing on Juniper M and MX series Routers

• Provide Tier III Level Load Balancer expertise on F5 BigIP Local Traffic Managers (LTM). Designing F5 solutions/support for migration work of applications and websites from Cisco CSS Load Balancers to the F5 BigIP Load Balancers.

• Responsible for Checkpoint firewall management and operations across our global networks.

• Working with Checkpoint Support for resolving escalated issues.

• Coordinating with service providers for WAN link outages.

• Checking and configuring Cisco 7600 and 7200 routers at data center for remote sites' issues.

• Worked on Cisco 6509 and 4507 series switches for LAN requirements that includes Upgraded and updated Cisco IOS from 12.3T to 12.4. , Used DHCP to automatically assign reusable IP addresses to DHCP clients.

• Used PIX Firewall and ACLs for authentication of EIGRP to ensure high security on the network.

• Used load balancers ACE and load balancing technique with multiple components for efficient performance and to increase reliability through redundancy.

• Involved in migration from Frame-Relay/ATM network to MPLS-based VPN for customer's WAN infrastructure.

• Designed and implemented DMZ for Web servers, Mail servers & FTP Servers using Cisco ASA 5500 Firewalls.

• Worked on F5 LTM, GTM series like 6400, 6800, 8800.

• Configuration and troubleshooting of Firewalls like ASA 5520, ASA 5510, Nokia Check Point VPN-1 NGX R55/R65/R70 and Juniper firewalls SSG 140 & 550M

• Re-built all security zones using Juniper SXR 5600 and multi firewall approach to meet PCI and other security requirements.

• Experience working with Cisco IOS-XR on the ASR9000 devices

• Implementing, configuring, and troubleshooting various routing protocols like RIP, EIGRP, OSPF, BGP

• Configuring of ether channel with LACP and PAGP along with troubleshooting of inter-VLAN routing.

• Involved in design and implementation of Data Center Migration, worked on implementation strategies for the expansion of the MPLS VPN networks

• Performing network monitoring, providing analysis using various tools like Wireshark, Solarwinds and Netscout etc.

Environment: Cisco 6506/4948/4510 switches, Cisco 3660/3845/7609 Routers, VLAN, Checkpoint, F5 Load Balancers, OSPF, BGP, MPLS, HSRP, VRRP, GLBP, ASA 5500, Nexus 2K, 5K, 7K.

Sr. Network Engineer

Campbell's Soup - Camden, NJ - October 2012 to February 2014

Responsibilities:

• Experienced with manipulating various BGP attributes such as Local Preference, MED, Extended Communities, Route-Reflector clusters, Route-maps and route policy implementation.

• Memory upgrades on 5K Nexus, 7K Nexus and 9K Nexus NX-operating system devices.

• Experience in working with Cisco Nexus 5000 series switches in data center.

• Performed and configured VLANs, different Routing Protocols and Bundle Ethernet implementation on ASR 9K.

• Involved in the configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4. Configured IP access filter policies.

• Configuring HSRP between VLANs, Configuring Ether-Channels, Port Channel on 6500 catalyst

• Having Data Center Design Experience, installing and Configuring Network Devices in a Data Center including patching the cables in the Patch Panel.

• Worked Knowledge on bluecoat Proxy like blocking URLs Etc.

• Used IPSec VPN tunneling to provide access to user machines and partners in other network. Provided application level redundancy and availability by deploying F5 load balancers LTM.

• Assisted in MPLS migrations, implemented a backup for the existing WAN connection using site-to-site IP sec VPN tunnels.
• Worked on WAN Optimization devices desired (Cisco, Riverbed, etc.)
• Experienced with Riverbed Steelhead technologies SHA xx50 to CXA platform, Interceptor, CMC, Cascade.
• Configured and installed 6500, 4500 in Campus networks.
• Switches Replace branch hardware with new 2851 routers and 2960 switches.
• Worked on converting WAN routing from OSPF to BGP (OSPF is used for local routing only) which involves new WAN links and Branch WAN links from TDM circuits to MPLS.
• Converting encryption from IPSec/GRE to GetVPN.
• Maintained complex LAN/WAN networks with several VLANS and provided support for routing protocols and also providing secure sessions over internet using IPSec and SSL encryption.
• Worked extensively on Cisco ASA 5500(5510/5540) Series, experience with convert PIX rules over to the Cisco ASA solution.
• Configuring and troubleshooting Juniper Firewalls including UTM features like anti-virus, deep inspection (IDP), URL filtering and screening.
• Worked on migration of existing PIX firewall to ASA firewall, PIX OS upgrade from 6.3 to 7.0.
• Design and Implement DMZ for FTP, Web and Mail Servers with CISCO PIX 506, PIX515
• Design and implementing of the UTP Cabling work-node to rack fixing and patch panel termination
• Involved in Configuration of Access lists (ACL) on ASA firewall for the proper network routing for the B2B network connectivity.
• To secure configurations of load balancing in F5, SSL/VPN connections, Troubleshooting CISCO ASA firewalls and building the VPN tunnel and VPN encryption.
• Worked with CISCO IOS and IOS-XR OS.
• Designed and implemented DMZ for Web servers, Mail servers & FTP Servers using Cisco ASA 5500 Firewalls.

Environment: Cisco 2948/3560/4500/3560/3750/3550/3500/2960 6500 switches and Cisco 3640/12000 /7200/3845/3600/2800 routers , Cisco Nexus 7K/5K, Cisco ASA 500, Checkpoint, windows server 2003/2008: F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, VPN, HSRP

Network Engineer
Walgreens - Chicago, IL - March 2011 to September 2012

Responsibilities:
• Worked on Cisco Layer 2 switches (spanning tree, VLAN).
• Configured HSRP and VLAN trucking 802.1Q, VLAN Routing on Catalyst 6500 switches.
• WAN Infrastructure running OSPF & BGP as core routing protocol.
• Configuration and troubleshooting of Cisco 2500, 2600, 3000, 6500, 7500, 7200 Series routers.
• Optimized performance of the WAN network consisting of Cisco 3550/4500/6500 switches by configuring VLANs.
• Design and configuring of OSPF, BGP on Juniper Routers and SRX Firewalls.
• Configuration 7609, 7606 with OSPF and catalyst 6505, 4500, 3550 switches with various VLAN.
• Troubleshooting IOS related bugs based on past history and appropriate release notes.
• Worked on different connection medium like Fiber and Copper Connectivity.
• In-depth expertise in the implementation of analysis, optimization, troubleshooting and documentation of LAN/WAN networking systems.
• Planning and configuring the routing protocols such as OSPF, EIGRP, RIP, and Static Routing on the routers.
• Performed and technically documented various test results on the lab tests conducted.
• Planning and configuring the entire IP addressing plan for the clients' network.

• Assist the certification team and perform configuration of LAN\WAN technologies such as Ethernet, Fast Ethernet, and Gigabit Ethernet.
• Supported networks, which are comprised of 2000+ Cisco devices.
• Supported nationwide LAN infrastructure consisting of Cisco 4510 and catalyst 6513.
• Deployed the switches in high availability configuration with HSRP.
• Configured port-fast, uplink fast and other spanning tree features.
• Support various Series of Cisco Routers like 7200/7600 series.
• Support Complex 6500 /5500 Series Switches.
• Network Monitoring using tools like Cisco Works 2000 and Netflow Analyzer.
• Troubleshoot network problems using Packet Analysis tools like Ethereal.
• Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500
• Worked on ASA (5540/5550) Firewalls. Implemented Security Policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS).
• Understanding of JUNOS platform and worked with IOS upgrade of Juniper devices.
• Efficient at use of Microsoft VISIO/Office as technical documentation and presentation tools.
• Create and test Cisco router and switching operations using OSPF routing protocol, ASA Firewalls, and MPLS switching for stable VPNs.
• Experience working with Nexus 7010, 7018, 5020, 2148, 2248 devices.
• Experience working with High performance data center switch like nexus 7000 series.
• Performed load balancing and application level redundancy by deploying F5 BIG-IP LTM 3900.

Environment: Cisco 3750/3550/3500/2960 switches and Cisco 3640/12000 /7200/3845/3600/2800 routers, Cisco ASA5510, Checkpoint, Palo Alto , Cisco Nexus7K/5K.

Network Engineer
Ctrls Data Center PVT LTD   -   Hyderabad, Andhra Pradesh - March 2010 to January 2011

Responsibilities:
• Worked on Cisco routers 7200, 3700 and Cisco switches 4900, 2900
• Key contributions include troubleshooting of complex LAN/WAN infrastructure.
• Configured Firewall logging, DMZs & related security policies & monitoring
• Creating Private VLANs & preventing VLAN hopping attacks & mitigating spoofing with snooping & IP source guard
• Installed and configured Cisco PIX 535 series firewall and configured remote access IPSEC VPN on Cisco PIX Firewall.
• Enabled STP Enhancements to speed up the network convergence that include Port-fast, Uplink-fast and Backbone-fa
• Establishing VPN Tunnels using IPSec encryption standards and also configuring and implementing site-to-site VPN, Remote VPN.
• Configured network access servers and routers for AAA Security (RADIUS/ TACACS+)
• Responsible for Configuring SITE_TO_SITE VPN on Cisco Routers between Head Quarters and Branch locations
• Implemented the security architecture for highly complex transport and application architectures addressing well known vulnerabilities and using access control lists that would serve as their primary security on their core & failover firewalls
• Installation & configuration of Cisco VPN concentrator 3060 for VPN tunnel with Cisco VPN hardware & software client and PIX firewall
• Involved in troubleshooting of DNS, DHCP and other IP conflict problems
• Used various scanning and sniffing tools like Wire-shark.
• Hands on Experience working with security issue like applying ACL's, configuring NAT and VPN

• Documenting and Log analyzing the Cisco PIX series firewall
• Configured BGP for CE to PE route advertisement inside the lab environment
• Spearheaded meetings & discussions with team members regarding network optimization and regarding BGP issues.

Environment: Cisco routers 7200, 3700 and Cisco switches 4900, 2900, LAN/WAN infrastructure, Cisco VPN, BGP.

Jr Network Engineer
WiFonic Technologies   -   Hyderabad, Andhra Pradesh - June 2008 to February 2010

Responsibilities:
• Provided estimated bandwidth requirements for data replication, to best determine adequate timing for migration service levels
• Configuring HSRP between VLANs, Configuring Ether-Channels, Port Channel on 6500 catalyst
• Switches Replace branch hardware with new 2851 routers and 2960 switches.
• Implemented WLAN Aruba Wireless Access Points and its Controllers at various corporate sites fort 11n Infrastructure and its legacy technologies.
• Configured OSPF on CISCO devices with multiple routing processes and redistributed them. Tested and hands on experience in multi area OSPF topologies.
• Configuring, managing and troubleshooting networks using routing protocols like RIP, EIGRP and OSPF (Single Area and Multi Area).
• Monitor, troubleshoot, test and resolve Frame Relay, ATM, MLPPP, PPP, and Dial-up.
• Configuring/Troubleshoot issues with the following types of routers Cisco (7200, 6500, 4500, 1700, 2600 and 3500 series), to include: bridging, switching, routing, Ethernet, NAT, and DHCP, as well as assisting with customer LAN /MAN, router/firewalls.
• Wrote IOS and CAT OS upgrade procedures and Pre/Post checks for customer production upgrades.
• 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.
• Configuring Vlan's, VTP's, enabling trunks between switches.
• Configured VLANs with 802.1q tagging. Configured Trunk groups, ether channels, and Spanning tree for creating Access/distribution and core layer switching architecture.
• Assisted in network engineering efforts consistent with the infrastructure of an Internet Service Provider and support of such network services. Helped in designing and implementation of VLAN for the new users.

Environment: Cisco routers (7200, 6500, 4500, 1700, 2600 and 3500 series) LAN /MAN, router/firewalls.

EDUCATION

Bachelors of Technology in Computer Science and Engineering
Jawaharlal Nehru Technological University   -   Hyderabad, Andhra Pradesh

ADDITIONAL INFORMATION

TECHNICAL SKILLS:

LAN Technologies: VLAN, VTP, Inter-VLan routing, STP, RSTP, PVST, 802.1x
WAN Technologies: Frame Relay, ISDN, PPP, ATM, MPLS, Channel & Leased lines
Network Securities: NAT/PAT, VPN, Filtering, Load Balancing using f5 and Cisco

Ace, Cisco ASA Firewalls […] IPSEC and SSL VPNs, IPS/IDS, DMZ Setup, CBAC, Cisco NAC, ACL, IOS
Firewall features, IOS Setup and Security Features, Checkpoint, Palo Alto
Physical Layer: ISDN, SONET/SDH, DWDM, Dark Fiber, TIA-449, IEEE 802.3
Routing Protocols: RIP, IGRP, EIGRP, OSPF, BGP, IS-IS, HSRP, IPv6
Routed Protocols: TCP/IP, IPX/SPX
Infrastructure Services: DHCP, DNS, SMTP, POP3, FTP, TFTP
Network Managements: SNMP, SSH, Telnet, ICMP
Network Peripherals: Nexus 9K, 7K, 5K, 2K & 1K, PIX Firewall […]
Cisco switches (2900, 2924, 2950, 3550, 3560, 4000, 5500, 6500, 6509)
Cisco routers (2600, 2800, 3640, 3700, 3825, 7200, 7204, 7206)
ASA Firewall […] Cisco ACE Load Balancers
Operating System: Cisco IOS-XR, Cisco Cat OS, Cisco IOS (11.x, 12.x), PIX IOS
(6.7.x), CAT- OS, UNIX, LINUX, Windows XP, NT, 2000, 2003
Monitoring tools: Wireshark, Solar winds, and TCP dump.
AAA Architecture: TACACS+, RADIUS, Cisco ACS.