

Viswanath pandrangi

Network Engineer - CGI

VA - Email me on Indeed: indeed.com/r/Viswanath-pandrangi/a230d74ae7d374

- 8+ years of experience in routing, switching, firewall technologies, system design, implementation and troubleshooting of complex network systems.
- Proficient in Cisco IOS for configuration and troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4, MPLS.
- Experience with conversion of PIX rules over to the Cisco ASA solution.
- Cisco Security: Telnet, SDM, NAT/ACLs, AAA, Layer 2 Security, Layer 3 Security, IPS/IDS, Cisco (ASA, PIX) 5510, VPN, IPSec.
- Security policy review and configuration in Palo Alto and ASA Firewall in offices and US Datacenter.
- Integration of IM&P with Call Manager using SIP Trunking for Presence capabilities and using Jabber.
- Expertise in Cisco Meeting Place Express, Cisco Emergency Responder, Cisco Access Points(AP) and bridge, VPN IPSec and Cisco IP phones.
- Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP, Ether Channel, STP, RSTP and MST, Implementation of HSRP, VRRP for Default Gateway Redundancy.
- Installing and Configuring Cisco switches 2960, 3560, 4500, 6500, 4900, 2900, 3750, Nexus 5000, Nexus 7000, WS-C4948, Juniper EX, QFX and Alcatel 7705 SAR series
- Understands SLA requirements and works to ensure those requirements are met when possible.
- Supporting EIGRP and BGP based PwC network by resolving level 2 & 3 problems of internal teams & external customers of all locations.
- Hands on experience working with OTV and FCOE on the nexus between the datacenters.
- Experience working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution for datacenter access architecture.
- Enhanced level of knowledge with Riverbed Virtual Services Platform (VSP) , Riverbed Quality of Service (QoS) and Infoblox.
- Experience in L2/L3 protocols like VLAN, STP, VTP, ISL, MPLS, 802.1q and Trunking protocols.
- Well skilled in configuring protocols like HSRP, GLBP, VRRP, SSH, ICMP, IGMP, PPP, HDLC, PAP, CHAP, and SNMP.
- In depth understanding of IPV4, implementation of Subnetting, VLSM and ARP, reverse and proxy ARP, Ping concepts.
- Experienced in Fault management and Performance management for large networks.
- Experience in installing, configuring and troubleshooting of Cisco 7600, 7200, 3800, 3600, 2800, 2600, 2500 and 1800 series Routers, Cisco Catalyst 6500, 4500, 3750, 2950 and 3500XL series switches.
- Experienced in testing Cisco routers and switches in laboratory scenarios and then design and deploy them on site for production.
- Hands-on experience with Cisco and various network security concepts, best practices, and technologies including, but not limited, to SSH, IPSec, RADIUS, TACACS, firewall policies, and 802.1x.
- Strong knowledge on CISCO and NEXUS network equipment installation & configuration.
- Moderate knowledge in configuring and troubleshooting Wireless Network: Netgear, Wireless Security Basics, IEEE 802.11 a/b/g, RF spectrum characteristics as well as WAN testing.

WORK EXPERIENCE

Network Engineer

CGI - Fairfax, VA - September 2016 to Present

Responsibilities:

- Experience in Network design implementing routers and switches.
- Migration of existing IPSEC VPN tunnels from Pre-Shared key to Certificate Authority for purpose of scaling.
- Worked with 1000 series ASR routers by creating VRFs for several remote sites and injecting routes to MPLS cloud for internet connectivity.
- Configuring QoS on Different Vendors NV IPA's and Legacy IPA's.
- Working on GRE tunneling, IOS or firewall NAT/PAAT, SSL and Failover DMZ zoning and configuring VLANs/ routing with the firewalls as per the design.
- Hands-on experience with Cisco and various network security concepts, best practices, and technologies including, but not limited, to SSH, IPsec, RADIUS, TACACS, firewall policies, and 802.1x.
- Configuring Cisco switches with layer 2 and 3 vlans, trunking, and high availability options.
- Configuring IPsec Site to Site VPN using Cisco hardware and IOS.
- Opening cases with vendor F5 for any RMA or high priority issues and involve in the troubleshooting.
- Worked on migrating various applications from Cisco CSS/ACE to the F5 platform
- Hands on experience in building and upgrading code on 4200V F5
- Worked in a F5 environment with BIG-IP 11.6.0 with Hotfix 3 version.
- Configured the VIPs, pools, iRules and profiles on F5 LTM 10.x and 11.x version.
- Convert Campus WAN links from point to point to MPLS and to convert encryption from IPsec/GRE to GetVPN.
- Experience with tunneling methods like GRE/mGRE, DMVPN, IPsec, L2TP, IKE v1 and v2 remote vpns.
- Configuring RIP, OSPF and Static routing on Juniper M and MX series Routers
- Experience working with Nexus 7018/7010, 5020, 5548, 2148, 2248 devices.
- Experience working with OTV & FCOE on the nexus between the datacenters.
- Worked on a migration project which involved the removal of all static routes from core devices.
- Key contributions include troubleshooting of complex LAN/WAN infrastructure that include routing protocols EIGRP, OSPF & BGP.
- Involved in the redistribution into OSPF on the core ASA firewall.
- Deployed Nexus switches 2248, 5548, 7018 and implemented features like FEX Links, VPC, VRF, VDC, and OTV, Fabric Path.
- Also prepared documentation for various VLANs and Voice subnetworks and worked on Visio for the same.
- Provide Tier II Load Balancer support on F5 BigIP Local Traffic Managers (LTM). Designing F5 solutions/ support for migration.
- Installing and configuration and troubleshooting of various Cisco switches like 2900 series, 2950 series, 3550 series, Nexus 5000 and Nexus 7000 series and juniper EX series.
- Replace branch hardware with new 2851 routers and 2960 switches.
- Troubleshooting and installing of CRS, ISR, GSR, ASR9000 and Nexus devices.
- Engineering the configurations for the different branches, campus locations.
- Worked on the redistribution of connected routes on all OSPF devices so that all connected subnets are advertised via OSPF.
- Configure rate limit filter on Juniper MX-960 routers to limit the bandwidth of customers.
- Configuration and extension of VLAN from one network segment to other segment between different vendor switches (Cisco, Juniper).
- Responsible for layer 2 securities which was implemented using a dedicated VLAN ID for all trunk ports, setting the user ports to non-trunking, deployed port security when possible for user ports.
- Enabled STP attack mitigation (BPDU Guard, Root Guard), using MD5 authentication for VTP, MSTP, disabling all unused ports and putting them in unused VLAN and ensuring DHCP attack prevention where needed.
- Installed and Configured A10 (AX2500) load balancer as SLB for various application in backend.

- Installed and configured Cisco Nexus 7k/5k/3k switches for vPC, Vlans, MST and 802.1q for Top of the Rack switches and Distribution layer switches.
- Experience working LACP and PAGP as the port channel protocols b/w the core and distro switches.
- Provides detailed Root Cause Analysis (RCA) documentation to Problem Management and attends RCA meetings with the customer to determine the root cause of incidents, SLA infractions and primary ownership of any resulting action.
- Working on firewall policy on Cisco, Palo Alto or other firewall vendors as per business requirement.
- Experience working with upgrading the license on the Cisco 4500 switches and also troubleshooting alarms on these device interfaces.

Network Engineer (F5)

NAUTIQUEOS - Chantilly, VA - January 2015 to August 2016

Responsibilities:

- Ensure Network, system and data availability and integrity through preventive maintenance and upgrade.
- Configured port-channels/ether-channels between ASR and 6500 series switches and virtual port-channels (VPC) between nexus devices for high availability and redundancy.
- Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support.
- Part of the F5 team taking care of the regular business requirements, change controls and incident management.
- Working on both the F5 LTM, GTM platforms.
- Experience on 2400 Viprion model, creating Guest's, upgrading and Handling of new F5 hardware, installing, licensing, configuring and upgrading when required
- Teaming up with the app teams, setting of new application on the F5 as per their design and requirement
- Creating Virtual servers, pools, certificate's and customized monitors on the LTM.
- Knowledge of iRules, load balancing methods, persistence types and about SSL offloading
- Working with both command line interface and the GUI access of an F5 and Keeping the DNS entries related to Virtual servers via Infoblox.
- Install, configure and maintain several Cisco DMVPN router servicing smaller Sites, Several Edge router running BGP and MPLS to Internet service providers.
- Handled SRST and implemented and configured the Gateways, Voice Gateways.
- Installed and configured Cisco Nexus 7k/5k/3k switches for vPC, Vlans, MST and 802.1q for Top of the Rack switches and Distribution layer switches.
- Experience with devices Palo Alto Network firewalls such as security NAT.
- 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.
- Configuration included VLANs & VTP, MSTP, STP port features, Gateway redundancy using HSRP, enterprise security using Cisco Port Security and Dot1X framework.
- Worked on WAN connectivity between CISCO routers using T1, T3, Frame relay and troubleshooting connectivity issues.
- Provided redundancy in a multi homed Border Gateway Protocol (BGP) network by tunings AS-path.
- Network Cabling, dressing, labeling and troubleshooting various network drops onsite.
- Managed site Cisco Systems networking equipment including enterprise level switches, routers, and wireless access points (including 2950, 3750, 3560, 3550, 3850, 2921, 2900, and 4500 series.
- Load balancer configurations such as F5 and Citrix, Cisco ACE and CSM.
- Worked on migrating various applications from Cisco CSS/ACE to the F5 platform(LTM).
- Configuring Big-IP F5 LTMs (virtual servers, pools, SNATs, health monitors, irules) and GTM's for managing the traffic and tuning the load on the network servers.

- Involved in L2/L3 Switching Technology Administration including creating and managing VLANs, Port security, Trunking, MSTP, STP, Inter-Vlan routing, LAN security Providing daily network support for national wide area network consisting of MPLS, VPN and point-to point site.
- Configuring HSRP between the 3845 router pairs for Gateway redundancy for the client desktops.
- Configure VRRP & GLBP and VLAN Trunking 802.1Q & ISL, STP, Port Security on Catalyst 6500 switches.
- Worked on configuring objects such as F5 Load Balancer pools, members, SSL profiles for local traffic management on F5 Load balancers.
- Negotiate VPN tunnels using IPSec encryption standards and also configured and implemented site-to-site VPN, Remote VPN.
- Worked on commissioning and decommissioning of the MPLS circuits for various field offices.
- Completed service requests (i.e. - IP readdressing, bandwidth upgrades, IOS/platform upgrades, etc)
- Supporting EIGRP and BGP based PwC network by resolving level 2 &3 problems of internal teams & external customers of all locations.
- Configuring STP for switching loop prevention and VLANs for data and voice along with Configuring port security for users connecting to the switches.
- Experience working with high performance Cisco WS-C4948 Switches to support servers in the company network.
- Experience working with deploying Cisco 5500 wireless controller and managing different 3500 access points (AP's).

Network Engineer

Daisy systems - Hyderabad, ANDHRA PRADESH, IN - September 2013 to December 2015

Responsibilities:

- Working on Cisco 6509 and 4507 series switches for LAN requirements that includes managing VLANs, Port Security and troubleshooting LAN issues.
- Configuration of Access List ACL (Std, Ext, Named) to allow users all over the company to access different applications and blocking others.
- Configuring NAT for internet for the LAN. Implementation of name resolution using WINS and DNS for TCP/IP environment.
- Configuration included VLANs & VTP, STP port features, Gateway redundancy using HSRP, enterprise security using Cisco Port Security and Dot1X framework.
- Configured the BGP as a WAN protocol, and OSPF/EIGRP as interior routing protocol.
- Demonstrated knowledge and experience in IP security using protocols like ISE, 802.1x, AAA, DMZ, ARBAC, IPSEC, PKI.
- Experience working on MPLS layer 3 VPN, VPLS on Cisco routers.
- Ensure problems are satisfactorily resolved in a timely manner with focus on providing a high level of support for all customers.
- Once trouble ticket has been created keep customer informed of status of ticket and estimated time to repair.
- Performed switching technology administration including VLANs, inter-VLAN routing, Trunking, STP, RSTP, port aggregation & link negotiation.
- Designed and installed new Branch network systems. Resolved network issues, ran test scripts and prepared network documentation.
- Checking and configuring Cisco 7613 routers at data center for remote sites' issues.
- Used Cisco ACE loadbalancer between the servers inside the network and in the DMZ.
- Responsibilities also include technical documentation of all upgrades done.

Network Engineer

Hyderabad, ANDHRA PRADESH, IN - August 2010 to July 2013

Responsibilities:

- Monitor the operability and reliability of the network.
- Responsible for SNMP Monitoring and Performance Tuning software.
- Designed WAN structure to prevent single point of failure in case of link failure.
- Maintained redundancy on Cisco 2600, 2800 and 3600 router with HSRP and VRRP.
- Implemented and configured routing protocols like EIGRP, OSPF.
- Maintenance and Troubleshooting of connectivity problems using PING, trace route.
- Planning and Implementation of Subnetting, VLSM to conserve IP addresses.
- Configured STP for loop prevention and VTP for Inter-VLAN Routing.
- Configuration and troubleshooting of EIGRP, OSPF, BGP.
- Configuration of Standard and Extended ACLs for Security.
- Technical assistance for LAN/WAN management and complex customer issues.
- Troubleshooting the issues related to routing protocols.
- Managing, troubleshooting and monitoring the network using Network Monitoring tool.
- Network Security implementation with Cisco IOS Feature Set, NAT, and Simple Network Management Protocol.
- Performed IOS upgrades on Catalyst 3550, 2950, 1900 switches, and 3600, 2600 and 2500 routers.
- Provided support for global network including T1/T3, ATM connections using HDLC and Frame Relay on 2600, 4000 series Routers.
- Installed wireless access points (WAP) at various locations in the company.
- Strategies include operating systems, virus protection, mail systems and Internet services.
- Updated the anti-virus, spam blockers, and other security software so that the systems are always secured.
- Resolved all computer related problems, monitored and maintained system functionality and reliability by identifying ways to prevent system failures.
- Troubleshoot Cisco hardware: Inspected devices, Read device LEDs, loose connections, interior IOS upgrade, switch port configuration, port monitoring, watch over Flooding Control/Network port.
- Installed and configured DHCP, DNS Server.
- Develop and implement strategies to support the current and future needs of the company.
- Configured Cisco Routers 2600 series using RIP, OSPF, and EIGRP.

SKILLS

BGP (6 years), CISCO (6 years), EIGRP (6 years), LAN (6 years), OSPF (6 years)

ADDITIONAL INFORMATION

Technical skills:

Cisco Platforms

Nexus 7K, 5K, 2K & 1K, Cisco routers [...] 3900, 3600, 2800, 2600, 2500, 1800 series) & Cisco Catalyst switches (6500, 4900, 3750, 3500, 4500, 2900 series)

Networking Concepts Access-lists, Routing, Switching, Subnetting, Designing, CSU/DSU, IPSec, VLAN, VPN, WEP, WAP, MPLS, VoIP, Wi-Fi

Firewall [...] ASA Firewall [...] Alto

Network Tools Solar Winds, SNMP, Cisco Works, Wireshark

Load Balancers A10 Networks (AX2500), Cisco CSM, F5 Networks (Big-IP)

WAN technologies Frame Relay, ISDN, ATM, MPLS, leased lines & exposure to PPP, DS1, DS3, OC3, T1 / T3 & SONET

LAN technologies Ethernet, Fast Ethernet, Gigabit Ethernet, & 10 Gigabit Ethernet, Port- channel, VLANs, VTP, STP, RSTP, 802.1Q

Test tools nexus

Security Protocols IKE, IPSEC, SSL-VPN

Networking Protocols RIP, OSPF, EIGRP, BGP, STP, RSTP, VLANs, VTP, PAGP, LACP, MPLS, HSRP, VRRP, GLBP, TACACS+, Radius, AAA

AAA Architecture TACACS+, RADIUS, Cisco ACS.