**PRADEEP GORTHI**

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**571-306-2309 NETWORK ENGINEER**

**SUMMARY:**

* Over 7 years of experience in IP network design, network integration, deployment and troubleshooting.
* Extensive knowledge in configuring and troubleshooting Layer 3 Interior Gateway Routing protocols such as Link-State routing protocols (OSPF and IS-IS) and Distance Vector routing protocols (RIPv1, RIPv2 and EIGRP).
* Good knowledge in configuring and troubleshooting Exterior Gateway protocols such as BGPv4 including internal BGP (iBGP) and external BGP (eBGP).
* Extensive knowledge of WAN technologies such as T1, T3, DS3, OCx, SDH, SONET, LTE, Fiber and Frame relay.
* Hands on experience in configuring high end routers like GSR 12000 series, 7500 series and Catalyst Switches like 7600, 6500, 4500 series.
* Extensiveexperienceinupgrade, backup and password recovery of CiscoIOS.
* ExperienceinworkingwithCiscoNexusSwitches like 5000 and 7000 seriesandVirtualPortChannelconfiguration.
* Knowledgeandconfigurationof redundant router protocols like HSRP, VRRP and GLBP.
* Substantial knowledge,including the configuration, ofSpanningTreeProtocol(STP),PerVLANSpanningTree(PVST), Rapid STP (RSTP) and Rapid per VLAN Spanning Tree (PVST+).
* Thorough experience in configuringVirtual Local Area Networks (VLAN) with IEEE 802.1Q, VLAN trunking protocol (VTP), shortest path bridging, Multiple VLAN Registration Protocol and VLAN Cross Connect (CC).
* Experience introubleshootingbothconnectivityissuesandhardwareproblemsonCiscobasednetworks.
* In-depth knowledge and hands-on experience in Tier 2 ISP Routing Policiesand Firewalls.
* Experience in testingCiscoroutersandswitchesin lab scenariosanddeployonsiteforproduction.
* GoodknowledgeofIPv4 and IPv6Addressing,Fixed Length and Variable Length Subnet Masking (VLSM),OSIandTCP/IPmodels.
* Experience in migration of IPv4 addresses to IPv6 addresses using mechanisms like Tunnel Broker, Transport Relay Translation (TRT), NAT64, DS-Lite and DNS64.
* ExperienceininstallingandconfiguringNAT, DHCPserver and DNS in large networks.
* Experiencein configurationofLANprotocolssuch asEthernet and Fiber Distributed Data Interface (FDDI) on Cisco Switches.
* Implementedtrafficfiltersusing standardand extendedaccess-lists, distribute-listsand route maps.
* Provided supportthat includedresolvingday-to-dayoperationalissueswith tickets generated by a server.
* Experiencein documentingandpreparingthe processrelated operational manuals.
* WideexposuretoLAN/WANsetup,installation,configurationandcommissioningofnetworkdevices.
* Good understanding of SNMP, IP SLA and Network Monitoring with experience in tools like PRTG.
* Experience in troubleshooting a variety of problems. Streamlined and improved process to be quicker to market, ensured compliance and optimized operational efficiency. Identified opportunities for continued improvements of process to ensure maximum output.

**EDUCATION:**MS in Communications Engineering

**CERTIFICATIONS:**

Cisco Certified Network Associate (CCNA)

Juniper Networks Certified Associate (JNCIA)

**TECHNICALSKILLS:**

CiscoRouters :CiscoASR9k, GSR12000,7600,7500,7200VXR,3800,3700,2800, 2600

CiscoCatalystSwitches :Catalyst6500,4000,3550,2900

IPRoutingProtocols :BGP,OSPF,EIGRP,IGRP,RIPv1&v2, IS-IS

MPLS :LDP,MPLSL3 and L2 VPN

LoadBalancing :CiscoACE4700series, F5 LTM

Firewalls :CiscoASA5500,CiscoPIX500,checkpointr60,checkpointr65

LANSwitching :STP,IEEE 802.1Q,VTP,VLAN&Inter-VLANrouting,QoS

WAN/core :ATM,Frame-Relay,ISDN,PPP,HDLC

Opticalinfrastructure :SONETOC3-OC192,SDH,POS,PDH

IPTelephony :SIP,H.323,RTP,VoiceGateways,CCM,QoS

VoIPDevices :CiscoIPphones,Cisco5500,6500seriescontroller, Avaya3000,6000,7200seriesControllers

Qualityofservice :CBWFQ,RED/WRED

Wireless Technology :Cisco AP, LWAP, Access Points, WCS

Ticketingsoftware :ConnectWise,Remedysystem

Managementsoftware :HPopenview,Solarwinds,PRTG Network Monitor

IPSEC/VPNConfiguration :PIXtoRouter,RoutertoRouter,PIXtoVPNwildcardclient,RoutertoVPNwildcardclient,PIXtoPIX,fullymeshedconfigurations

Cabling :CAT5,CAT5e,CAT6,CAT6a

OperatingSystems :Windows Server/8/7/Vista/XP,NexusOS,CiscoIOS-XR, Linux, Unix (Mac OS)

Microsoft Office : Visio, Excel, PowerPoint

**PROFESSIONALEXPERIENCE:**

**New York Community Bank, Westbury, NY Mar 2014 – Till Date Network Engineer**

Worked on two projects, one involving wireless network planning where Wireless APs are deployed with the best network coverage and thesecond project is related to LAN and WAN network configuration where configuration of Layer 3 routing protocols and Layer 2 technologies is done.

**Responsibilities:**

* Offered Wireless Network Planning using MapInfo tool by identifying potential areas of interest and by deploying access points for best possible coverage and good signal strength.
* Performed troubleshootingonslownetworkconnectivityissues,routingissues involving OSPF,BGPandidentified therootcauseoftheissues.
* Handled the recovery, upgradeand back-upof routerIOS.
* Done systemtestingwithPPP,L2TP,STP,and ACLsenabled.
* Performedsmarthandsupportbyidentifyingtherootcauseofthehardwareissueswithswitches,routers.
* Configured and troubleshot inter VLAN routing with 802.1Q trunking and L3 switches, VTP and Spanning tree.
* Configured RIPv2,OSPFandBGPinrouters.Routingrelatedtasks includeprovidingCiscorouterconfigurationandtroubleshootingtheconfigurationandinstallationissues.
* Designed rules(ACL,securitypolicies)toensurebettersecurity.
* Involved in assessment and security posture improvement in Palo Alto Firewalls.
* Monitored andmaintained LAN/WANnetworksusingSnortand Sniffertrace.
* Provided third level infrastructure support and assisted in maintenance and troubleshooting of SCCM and client workstations.
* Continually looked for ways to optimize, improve and streamline software deployment process in order to ensure uninterrupted delivery to the users.
* Configured and tuned IPS endpoints with Palo Alto, Checkpoint and Juniper.
* Worked with SDL Threat Modeling tool and MetaSploit Penetration testing tool.
* Worked in F5 Big-IP Load Balancer environment to manage the traffic between 2 web servers in the cloud.
* Configured VLANandenabled IProutinginordertoallowrestrictedconnectionsfromsomeresources.
* DesignedandimplementedanIPaddressingschemewithsubnetsfordifferentdepartments.
* Designed networkplanofroutingpolicieswithroutemaps,distributionlists,access-lists.
* UsedDHCPtoautomaticallyassignreusableIPaddressestoDHCPclients.

**Environment:**HPProCurve5400seriesswitches, Cisco Routers, Cisco Switches, Check Point Firewall, Palo Alto, F5 Load Balancers, Opsware, Cisco Wi-Fi technologies, Avaya3000,6000,7200seriesControllers, Cisco CLI, Microsoft Lync, VOIP,SIP,RTP, RADIUS,TACACS+,OSPF,BGP,VPN,MPLS.

**Quantum Networks, Wayne, NJ Jun 2013 – Feb 2014**

**NetworkEngineer**

Project was to install and maintain all the necessary equipment for the company to get it up and running. Management of LAN/WAN network and systems of the entire company is also a part of the project.

**Responsibilities:**

* Performed network implementation that includesconfigurationofroutingprotocols, leasedlines,ISDNlines, VLANs and IOSinstallations.
* Troubleshotthe network issuesonsiteandremotely, dependingontheseverityoftheissues.
* Deployed anddecommissioned theVLANsoncoreASR9K,Nexus7K,5Kanditsdownstreamdevices.
* Had hands-onexperiencewithWAN(ATM/FrameRelay),Routers,Switches and IP addressing.
* Worked with layer2switchingtechnology architecture. Implemented L2andL3switching functionality, which includestheuseofVLANS,STP,VTPandtheirfunctionsastheyrelatetonetworkinginfrastructurerequirementsincludinginternalandexternaltreatment,configurationandsecurity.
* Supported core network consisting of Cisco 7200 series routers running multi area OSPF.
* Configured EIGRP and OSPF as interior gateway protocols with route filtering and route redistribution. Troubleshot complexLAN/WANinfrastructurethatincluderoutingprotocolsEIGRP,OSPF and BGP.
* ResponsibleforallaspectsofTCP/IPfunctionalityacrossmultipleenterpriseenvironments.
* PerformedOSPF,BGP,DHCPProfile,HSRP,IPV6,BundleEthernetimplementationonASR9Kredundantpair.
* Configured ASA 5500-X Series firewalls to provide highly secure and high performance connectivity between the site locations.
* Worked on Juniper SRX 5800 firewalls to create policies using J-Web User Interface.
* Performed Network Address Translation on Cisco ASA 8.2 and 8.3
* UsedDHCPtoautomaticallyassignreusableIPaddressestoDHCPclients.
* Performed theACL request changesforvariousclientsbycollectingsourceanddestinationinformationfromthem.
* Created MOPS(Methodofprocedures)andsought theapprovalofpeers to perform configurationchanges.

**Environment:**CiscoRouters,CiscoSwitches,Routingprotocols,HSRP,VRRP,IPSECVPN,VPN,QOS,ASAfirewall,Loadbalancer, MPLS, VLANS,VTP,RSTP,ACL,NAT,IDS/IPS,Monitoringtools(PRTG,HP OpenView), SIP, RTP, RADIUS,TACACS+, Cisco Wi-Fi technologies, Juniper SRX,ASR 9000, Catalyst 6500, CRS, Cisco ASR Firewall, IPV6, CiscoIPphones

**XO Communications, Herndon, VA Oct 2012 – May 2013**

**NetworkEngineer**

Primary focus of the project is providing network support, configuration, and implementation of Cisco products including routers, switches and firewalls. On-time resolution of network issues and resolving issues relating to network infrastructure and data center is a part of the project.It also involves the transition of IPv4 addresses to IPv6 address scheme.

**Responsibilities:**

* Configured HSRPbetweenVLANs, configuringEther Channels,PortChannelon6500catalyst switch.
* Performed datacentermigrationinAccess,DistributionandCorelayers.
* Configured RoutingprotocolssuchasRIP,OSPF,EIGRP,MPLS, staticroutingandpolicybasedrouting.
* Configured andtroubleshot linkstate routing protocolslikeOSPFinsingleareaandmultipleareas.
* ConfiguredVLANswith802.1qtagging.ConfiguredTrunkgroups,etherchannels,andSpanningtreeforcreatingAccess/distributionandcorelayerswitchingarchitecture.
* ConfiguredBPDUGuard,port-fast,uplinkfastandotherspanningtreefeatures.
* Provided TechnicalSupportandsolutionsfor network problems.
* Implemented NAT solutionson WAN applications.
* Upgraded IOS, troubleshot networkoutages.
* Performedconfigurationand troubleshot EIGRPandBGP.
* Upgraded Cisco ASA 5510 firewalls using 6500/7600 catalyst modules for enhanced performance, security and reliability.
* Migrated IPv4 addresses to IPv6 addresses using mechanisms like Tunnel Broker, Transport Relay Translation (TRT), NAT64, DS-Lite and DNS64.
* InstalledandconfiguredDHCPserver.
* InvolvedintroubleshootingofDHCPandotherIPconflictproblems.
* Configured ACLs (Standard,Extended and Named)toallowusersalloverthecompanytoaccessdifferentapplicationsandblockingothers.
* Participatedinoncallsupport to troubleshoot theconfigurationandinstallationissues.
* Displayed excellent troubleshooting skillsand customer centricapproach.

**Environment:**Cisco3750/3550/3500/2960SwitchesandCisco3640/12000/7200/3845/3600/2800routers,CiscoNexus7K/5K,2248/3560/5020/6509,CiscoASA5510,Checkpoint,Controllers6000,3600,3400,650, Juniper SRX, Microsoft Lync, MPLS, VOIP,SIP, Cisco Unified Video Conferencing, Unix commands, IPV6, CiscoIPphones,Cisco5500,6500seriescontroller, Avaya3000,6000,7200seriesControllers, Cisco IOS CLI.

**Tata institute of Fundamental Research (TIFR), Mumbai, India Aug 2010 – Sep 2012**

**NetworkEngineer**

Main objective of the project is to provide design, support and deployment services to new customers and to maintain existing customer accounts. Project encompassed Microsoft based technologies such as Windows server, active directory, WSUS and Exchange server and the management of cisco devices at Layer 2 and Layer 3. I won the 'Star player award' for my dynamic involvement in restricting installation rights to the customers with illegal licenses.

**Responsibilities:**

* Performed Windows server 2003 and 2008 administration, desktop support and network maintenance.
* Managed 5000 user accounts and group policies for users belonging to various accounts such as Citibank using Active Directory server. Also managed Internet Information Services (IIS), Mail servers, File servers, DNS and DHCP servers.
* Troubleshot Lotus Notes and Exchange mailbox issues, software issues and network connectivity issues.
* Worked with Network Operations Center (NOC) by managing and monitoring LAN/WAN network services.
* Scheduled maintenance for routers/servers by running maintenance commands through SSH connections.
* Created Virtual Machine templates for Windows server 2003/2008 using VMware vSphere and cloned them.
* Created Microsoft Windows Installer packages using Wise Package studio and admin studio. Advertised and managed packages and collections in SCCM environment.
* Performed switchingrelatedtaskssuch asimplementingVLANS,VTP,RSTPandPortsecurity.
* ImplementedsecuritymeasuresusingACLandconfiguredNATaccordingtotheconnectivityrequirement.
* ParticipatedindesignandimplementationIPv4 subnetting in theofficenetwork.
* Provided24/7rotationaloncallsupportsforbranchoffices.
* Configured Routing protocols such as RIP, OSPF, EIGRP, static routing and policy based routing, infrastructure and configured the entire network Infrastructure devices including network printers.
* Won ‘Star Player Award’ for crucial contribution to ‘Butterfly Operation’ that restricted installation rights to all employees as they had installed licensed software without securing the license from the Client.

**Environment:**CiscoRouters,CiscoSwitches,Routingprotocols(OSPF,EIGRP),HSRP,VRRP,IPSECVPN,SSLVPN, Cisco CLI, QOS,ASAfirewall,IPPhones, Microsoft Lync, VoIP, ACEloadbalancer, MPLS, VLAN,VTP,ACL,SIP,RSTP, NAT, FCAPS, RADIUS,TACACS+, Cisco Access Points, Juniper SRX.

**Infinite Computer Solutions Ltd., Hyderabad, India Oct 2008 – Jul 2010 Network Engineer**

Project involved supporting the daily operations and troubleshooting networking issues. Includes installation and troubleshooting of routing protocols.Creating network diagrams and proper documentation for the network architecture is also a part of the project.

**Responsibilities:**

* Configured andmanagedIProutingusingacombinationofstaticroutinganddynamicroutingprotocolslikeOSPF andEIGRP.
* Worked on PRTG Network monitoring tool to monitor and troubleshoot various issues in the network.
* Configured STP for switching loop prevention and VLANs for data and voice along with configuring port security for users connecting to the switches.
* Worked on issues related to static and dynamic routing protocols like RIP, EIGRP (Variance and unequal cost load balancing) and OSPF.
* Configured VLANs with IEEE 802.1q tagging, private VLANs, VTP on Cisco 4500 and 6500 series switches. Configured trunk groups, ether channels, and Spanning tree for creating Access/distribution and core layer switching architecture.
* Worked on issues related to VLAN, VTP and HSRP failovers.
* Created network diagrams and proper documentation for the network architecture.

**Environment:**Cisco6509/3750/3550/3500/2950switches,Cisco7200/3845/3600/2800routers,Checkpointfirewalls(SPLAT), Cisco IOS CLI, NetFlow,TACACS,EIGRP,RIP,OSPF,CSM,Ether Channels.