PREM CHOWDARY

(337)303-8996 | [chowdary.prem04@gmail.com](mailto:chowdary.prem04@gmail.com)

* 8+ years of experience in design, development, implementation, troubleshooting and maintenance of complex network systems.
* Real-world hands-on experience in enterprise networking systems, including network monitoring and troubleshooting utilizing the latest technologies.
* Cross-Functional – Familiar with system administration and development practices to allow for constructive dialogues between teams.

SUMMARY:

* Sound knowledge of Routing and switching concepts and MPLS design.
* Proficient in Cisco IOS for configuration & troubleshooting of routing protocols: **MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4, MPLS.**
* Experience working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution for data center access architecture.
* Familiar with Cisco Security **SDM, NAT/ACLs, AAA, Layer 2 Security, Layer 3** Security, IPS/IDS, Cryptography, VPN, IP sec.
* Worked on **F5 LTM, GTM series like 6400, 6800, 8800** for the corporate applications and their availability.
* Implemented and maintained Big-IP F5 load balancing solution across multiple data centres
* Knowledge of implementing and troubleshooting complex layer 2 technologies such as **VLAN Trunks, VTP, ISL/ 802.1q, Ether channel, Port Security, STP, RSTP and MST.**
* Extensive experience in Layer 3 routing and Layer 2 switching. Experienced dealing with router configurations like **7200, 3800, & 2800** and switches **6500, 4500, 3750, 2900** and 3500XL series.
* In depth understanding of IPV4 and implementation of Sub netting.
* Well Experienced in configuring protocols **HSRP, ICMP, IGMP, PPP, PAP, CHAP, and SNMP.**
* Configuration of Cisco routers and switches to enable and troubleshoot a variety of features such as trunks, Vlans, Ether channels, port security, routing protocols including EIGRP, OSPF & BGP and other related technologies such as multicasting, IP Telephony & IP Video.
* **Experienced in DNS, DHCP, SMTP, FTP, HTTPS** and web security architecture.
* Implemented **IPv4 migration to IPv6 (NAT-PT, Tunnelling, etc.) and IPv6 routing protocols (RIP, OSPFv3, EIGRP, BGP etc**.).
* Worked on Cisco Firewalls Cisco ASA 5500(5510/5540) Series and Checkpoint R75, 76 Firewalls.
* Experience in installing and configuring Checkpoint NGX R70.
* Implemented traffic filters using standard and extended access-lists, distribute-lists and route maps.
* Provided support that included resolving day-to-day operational issues with tickets generated by a server.
* Experience with F5 load balancers - LTM, GTM series like 6400, 6800, 5000 and 2000 for the corporate applications and their availability.
* Experience in documenting and preparing the process related operational manuals.
* Wide exposure to LAN/WAN setup, installation, configuration and commissioning of network devices.
* Good understanding of SNMP, IP SLA and Network Monitoring with experience in tools like PRTG.
* In-depth knowledge and hands-on experience in Tier II ISP Routing Policies, Network Architecture, IP Sub netting, VLSM, TCP/IP, NAT, DHCP, DNS, FT1 / T1 / FT3 / T3, SONET POS OCX/ GigE circuits, Firewalls.
* Good knowledge on implementing F5 BIG-IP load balancer.
* Experience in implementation of F5 GTM based on topology load balancing methods
* Having experience in deploying BIG-IP F5LTM Load Balancers for load balancing and traffic management of business application.
* Experience on **Virtual Private Network (VPN) for operating Network and Data Center.**

TECHNICAL SKILSET:

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| **Cisco Routers :** | Cisco ASR9k, GSR 12000, 7600, 7500, 7200 VXR, 3800, 3700, 2800, 2600 |
| **Cisco Catalyst : Alcatel Switches** | Catalyst 6500, 4000, 3550, 2900,4928, 4948, 4507,4510, 3750,3560,and 2960  ALU Omniswitches 6450,6900 |
| **Nexus Switches:** | Nexus5548, 5596, 6000, 7009, 7018. |
| **IP Routing**  **Protocols** | BGP, OSPF, EIGRP, IGRP, RIP v1 & v2, IS-IS |
| **MPLS:** | LDP, MPLS L3 and L2 VPN |
| **Load Balancing:** | Cisco ACE 4700 series, F5 LTM |
| **Firewalls :** | Cisco ASA 5500, Cisco PIX 500, checkpoint r60, checkpoint r65 |
| **LAN Switching :** | STP, IEEE 802.1Q, VTP, VLAN & Inter-VLAN routing, QoS |
| **WAN/core :** | ATM, Frame-Relay, ISDN, PPP, HDLC |
| **Optical infrastructure** | SONET OC3-OC192, SDH, POS, PDH |
| **IP Telephony:** | SIP, H.323, RTP, Voice Gateways, CCM, QoS |
| **VoIP Devices :** | Cisco IP phones, Cisco 5500, 6500 series controller, Avaya 3000, 6000, 7200 series Controllers |
| **Quality of service:** | CBWFQ, RED/WRED |
| **Wireless :**  **Technology** | Cisco AP, LWAP, Access Points, WCS |
| **Ticketing software :** | Service Request System, ConnectWise, Remedy system |
| **Management software** | Statseeker,HP openview, Solar winds, PRTG Network Monitor |
| **IPSEC/VPN : Configuration:** | PIX to Router, Router to Router, PIX to VPN wildcard client, Router to VPN wildcard client, PIX to PIX, fully meshed configurations |
| **Cabling:** | CAT 5, CAT 5e, CAT 6, CAT 6a |
| **Operating Systems:** | Windows Server/8/7/Vista/XP, Nexus OS, Cisco IOS-XR, Linux, Unix (Mac OS) |
| **Microsoft Office :** | Visio, Excel, PowerPoint, Word |

EDUCATION:

* Bachelor’s Degree in Electronic communication Engineering, Jawaharlal Nehru Technological University (JNTUA), Anantapur, India.

professional experience:

**HTT LIVE - LAFAYETTE, LA OCT 2015 till present**

**Role: Network Engineer.**

Responsibilities:

* Perform network engineering, design, planning (**WAN & LAN**), & implementation.
* Managing **Access list** for PIX and Routers (Priority based, time based).
* Installed & configured **OSPF on Frame-Relay with multi-area design in core routers (7200, 7204, and 7206).**
* Design **OSPF** Areas for reliable Access Distribution and for Core IP Routing.
* Configuration and Troubleshooting of Outlook Express and MS Outlook.
* Study single point failures & design **WAN** structure in such a way that there are no failures in network in case of any device or link failure.
* Connecting 1 to 10Gbit/s for both SFP (Small Form-factor Pluggable) and Enhanced SFP+ on both single mode and multi-mode fiber, LC connector with black and blue extraction lever for both Telecommunication and data communication applications.
* To Configure and maintain the hosts in **SAN** environment.
* Work with application developers and systems engineer to migrate applications and systems to a new **Border Gateway** network.
* Continuous maintenance & support.
* Data Backup & transfer.
* Easy to expand.
* Gaming Systems.
* Home networking.
* HTPC Systems.
* Network design.
* Network security.
* Office networking.
* On-site maintenance & support.
* PC Installations.
* PC Repairs, upgrades.
* Remote monitoring & support.
* Saving cable time and hassle.
* Server management.
* Spam filtering services.
* Unmatched anti-virus protection.
* Wired network setup.
* Wireless network setup.
* Experience developing and maintaining comprehensive system test plans.
* Experience writing Linux shell scripts.
* Experience in **network** performance **testing.**
* Write test cases from a variety of documentation types; business requirements, system requirements & design documentation.
* Work with developers to document **data flows** and troubleshoot connectivity issues.
* Add, delete, and modify rules on Checkpoint **firewalls**.
* Setting up **VLANS** and configuring **ISL trunk** on Fast-Ethernet channel between switches
* Implemented **SNMP** on Cisco routes to allow for network management.
* Installed and configured Routers, Bridges, Terminal Servers and **CSU/DSU’s** to support **WAN** links.
* Redistribution of **routing protocols and Frame-Relay** configurations.
* Configured QoS on **LAN/WAN**. Strong knowledge of various routing protocols including RIPV2, EIGRP, OSPF and BGP4.
* Network Migration from **RIP to OSPF**
* Designed Network redundancy by implementing **HSRP** (Hot Standby Routing Protocol) on Cisco routers.
* Deployed a large-scale **HSRP** solution to improve the uptime of collocation customers, in the event a core router became unreachable .
* Documented all the work done by using **MOPS, Visio, Excel** and **MS word.**

**Environment: CISCO routers and switches, Access Control Server, VLAN, Trunk Protocols, CISCO ASA, DHCP, DNS,SAN, Spanning tree, Nimsoft, Windows Server, Windows NT.**

**PG&E - SAN FRANCISCO, CA** Aug 2014 – Sep 2015

**Role: Network Engineer**

**Responsibilities:**

* Experience with hybrid CatOS to Native Cisco IOS code migration involving Catalyst 6503 to Catalyst 6504 switches. Involved in Datacenter build and support, implementation, migrations network support, interconnectivity between an old Datacenter and new Datacenter.
* Converting access-lists to Firewall rule sets on FWSM module with 6509-E Catalyst switches. Replacing and Installation of Cisco Switch 2950 and Campus Switch 4948 on Cisco 1900. Experience in Cisco **ACE 4710, GSS 4492R** for data Center applications.
* Experience with design and implementation of Data center migration.
* Involved in Data center migration of Access, Distribution and Core layers.
* Experience with protocols such as **Frame Relay, IEEE 802.11, VLAN, OSPF, BGP, DNS, DHCP, FTP, NTP, SNMP, SMTP** and **TELNET**. Working knowledge of Terminal server and its configurations.
* Experience with moving Data Center from one location to another location from Old EOL 6500 based data center to **New 6509 devices**. Experience with design and implementation of Virtual Switching System (VSS) for both user segment and server segment using **6509-V-E** Catalyst Switches. Converting CatOS to Cisco IOS Config Conversion on distribution layer switches. Experience with migration Hybrid based Cisco CatOS and Native Cisco IOS on 6500 Catalyst Switches
* Working knowledge of PPP Protocol with Enhanced Flex WAN module on 6500 catalyst switch. Involved configuring PPP multilink group, dialer group, PPP authentication protocols like **PAP and CHAP.**
* Network experience using **TCP/IP, DHCP, DNS, Ethernet, Frame Relay, ATM, OSPF, VoIP, BGP** and any **Network security tools, packet analyzers** **.**
* Windows Server 2012, 2008 R2 installation, deployments, troubleshooting and automation. Windows Server 2008 Hyper-V virtualization configuration for servers.
* Experience in Cisco **WAAS for ISR, G2, SRE** and **WAVE** applications.
* Installation of L3 Switching Engine policy Feature Card and Distributed Forwarding Card DFC3C
* Implementing **3750 Rack/Stack** switches using Cisco Stacking technology. Implementation and configuration of F5 Big-IP LTM-6400 load balancers
* Involved in customer escalations and troubleshooting issues related to **connectivity, STP, VLAN, Trunking, VTP, Layer 2/3 switching, Ether channels, Inter-VLAN routing, log messages, high CPU utilization** and **parameters** that can degrade performance of network.
* Configuring HSRP between VLANs, Configuring Ether-Channels, and Port Channel on 6500 catalyst switches. Configuring **PAGP and LACP** protocol along with **BFD** link detection protocol.
* Installed newly purchased Hardware to the new Data Center, Migrate data over WAN connection, also greatly involved in virtualization of physical servers.
* Involved in migration of WLAN segment on the LAN Core. Also involved in configuring wireless VLANS
* Working knowledge of Firewall service module **FWSM UPGRADE** and **FWSM RULESET** conversion
* Coordinated precise scheduling for all migration events including all equipment and resources for the data center migration on an extremely accelerated schedule for a high profile client.

**Environment: Juniper firewalls 5GT, 208, SSG 5, 140, 550, 550M, NSM, IDS/IPS, Vulnerability Assessment tools, Nexus, VMware, Open stack, MS Server Exchange 2012, Red Hat, Solaris, Juniper VPN’s, SSL, Citrix NetScaler.**

**State Farm - Bloomington,IL Aug 2013 – Jul 2014**

**Role: Network Engineer**

**Responsibilities:**

* Involved in configuring and implementing of composite Network models consists of Cisco7600, 7200, 3800 series routers and Cisco 2950, 3500, 5000, 6500 Series switches.
* Configured Nexus 7010 including NX-OS Virtual Port Channels, Nexus port profiles, Nexus Version 4.2 and 5.0, Nexus VPC peer links.
* Participated in the installation, configuration, and post installation daily operational tasks and configuration of the deployment of Cisco Nexus equipment.
* Designed 10 gigabit networks using Cisco Nexus 7000 series switches, and Cisco 3800 series routers.
* Managed rules on Cisco checkpoint NGX firewall.
* Worked with Juno OS and Juniper M&amp;T series switches.
* Worked with Cisco ACE GSS 4400 Series global site selector appliances.
* Networks using routing protocols such as RIP, OSPF, BGP and manipulated routing updates using route-map, distribute list and administrative distance
* Also worked with the Riverbeds appliances
* Configured OSPF redistribution and authentication with type 3 LSA filtering to prevent LSA flooding Configured OSPF over frame relay networks for NBMA and point to multipoint strategies.
* Implementing traffic engineering on top of an existing Multiprotocol Label Switching (MPLS) network using Frame Relay and Open Shortest Path First (OSPF).
* Worked with Host Master for shared web hosting.
* Worked with Processes like RFI, RFE and RFP Configured ASA 5500-X Series firewalls to provide highly secure and high performance connectivity between the site locations.
* Configuring Big-IP F5 LTMs (virtual servers, pools, SNATs, health monitors, iRules) for managing the traffic and tuning the load on the network servers.
* 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
* Used DHCP to automatically assign reusable IP addresses to DHCP clients.
* Performed the ACL request changes for various clients by collecting source and destination information from them.
* Troubleshoot the BIG-F5 1600 LTM through constant contact with the vendor.
* Created MOPS (Method of procedures) and sought the approval of peers to perform configuration changes.

**Environment: Cisco 2600/2800/3600/3800 Routers, Cisco 2950/3700/6500/7613 switches, ASA**

**Firewall,RIPv2,OSPF,BGP,EIGRP,LAN,WAN,MPLS,F5 Load Balancer, VLAN, Trunking.**

**WorldLink Communications - Seattle, WA Nov 2011 – July 2013**

**Role: Network Support Engineer.**

**Responsibilities:**

* Performed Troubleshooting and monitored routing protocols such **OSPF, EIGRP & BGP.**
* Involved in writing troubleshooting guidelines for **MPLS VPN.**
* Involved in customer escalations and troubleshooting issues related to connectivity, **STP**, **VLAN**, **Trunking**, **VTP**, Layer 2/3 switching, **Ether channels**, **Inter**-**VLAN** routing, log messages, high CPU utilization and parameters that can degrade performance of network.
* Configured VLANS on multiple catalyst switches performed troubleshooting on TCP/IP network problems, Administered Frame-Relay and networks.
* Integrated a multisided IP Telephony Network with Cisco Unified Communications Manager (CUCM 10.5.2, 9.1.2), and Unity Connections (CUC 10.5, 9.1.)
* Provided technical support and problem resolution for the LAN and its environment by analyzing the problem, identifying the cause and circumstances of the problems and finding a solution to the identified problem.
* Configured **ACL** & **NAT** through CLI.
* Experience with protocols such as **Frame Relay**, **IEEE 802.11** and VLAN, **OSPF** and **BGP**, **DNS**, **DHCP**, **FTP**, **NTP**, **SNMP**, **SMTP** and **TELNET**.
* Installed, configured (**through CLI & SDM)** and managed CISCO routers and Catalyst switches.
* Set up Internet, implementing Networking products like Servers, Proxy servers, Switches, Firewalls, Routers.

**Environment: Windows Server, Windows NT, CISCO 2600, 2800 and 3200 series routers, CISCO 3300 and 2950 switches**.

**Anteon corporation – Portland, OR Oct 2009– Oct 2011**

**Role: Network Administrator**

**Responsibilities:**

* Manage installations, configuration and administration of Cisco equipment in IT architecture of organization.
* Configure **IT LAN/WAN** elements and held responsibility of maintaining and monitoring performance of network.
* Provide **Tier1** technical support; assist users facing network problems. Perform advanced troubleshooting, diagnostics and provide **tier/level-1** solutions to network failures.
* Network Migration from **RIP to OSPF** and **EIGRP**.
* Network infrastructure support to routing and switching equipments.
* Redistribute **routing protocols** and **Frame-Relay configuration**.
* Design the layout for cable installations.
* Involved in design and deploying various network security & High availability products like **Cisco ASA** and other **security products.**
* Worked extensively in **Check point VPN-1**.
* Support customer with the configuration and maintenance of **ASA firewall systems**.
* Troubleshoot and resolved **dynamic routing, Ethernet switching** and **host connectivity issues in a window** and **network environment.**
* Troubleshoot wiring problems and serial communication lines.
* Develop, plan and maintain documentation necessary for operation in support **of LAN** to **WAN connectivity**.
* Maintain excellent communication with the IT Manager on all tasks and projects.

**Environment: Juniper routers J2350, M10, CISCO routers 2600, 2800, 3200, ASA firewall, IPS, VLAN, IDS, STP, VPN, Windows Server, Windows NT.**

**Surya Pvt.Ltd, India. Jun 2008 – Sept 2009**

**Role: Jr.Network Engineer**

**Responsibilities:**

* Installing and maintaining Microsoft Exchange and worked extensively on different applications.
* Created network diagram for employees using the Microsoft Visio.
* Preparing Client Machines for users with Operating Systems, Software, antivirus and required utilities and mailing clients etc.
* Primarily responsible in designing and maintaining the budget for the whole network.
* Perform daily maintenance, troubleshooting, configuration, and installation of all network components.
* Configuration of CISCO Routers (3600, 4000 Series) and 3550, 4500 series switches.
* TCP/IP network planning, Implementation and Management with subnets.
* Enabled SNMP traps for our Cacti Monitoring tool to monitor traffic and check the regular health of Servers and Network Devices.
* Implementation of Virtual LANs across Routers and Switches.
* Implemented and Configured IP Routing Protocols: OSPF, EIGRP, and RIPv2
* Implemented and configured LAN Protocols: Ethernet, VLANs, VTP and STP.
* Worked with Remedy Ticketing tool in maintaining and keep a track of logs/monitor
* Designed and implemented IP Addressing, Subnetting, Route Summarization and Route distributions
* Monitoring the Servers and Networks.