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**DEEPA NAIDU**

**Network Security Engineer**

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**SUMMARY:**

* Over 7+ years of Hands on experience in **routing and switching technologies**, system design, implementation and troubleshooting of complex network systems including high-end routers: **CISCO GSR, ASR1K, ASR9K, 2600, 2800, 3600, 7200, 12000 Series Routers, and Catalyst 4500, 6500, and 7600 switches**.
* Strong hands on experience in **installing, configuring** and **troubleshooting** network hardware
* Worked on **Cisco Catalyst series2900, 3560, 3750, 4500, 4900, 6500** and **Cisco 1800, 2600, 3600, 7200, 7600 routers.**
* Worked on **Nexus platform 7010**, **5K series (5548, 5020 and 5010) and FEX (2248, and 2232**) and deployed **VPC**, **VDC**, **OTV** and successfully implemented VSS on the cisco catalyst switches.
* Strong working experience **on Firewalls, ACS, ASM, Cisco ASA 5540 Series and Palo Alto**.
* Strong working experience on **checkpoint and MacAfee web gateway proxies**. **Blue coat proxies** and **riverbed wan optimizers**.
* Configuring **Voice VLANS** with respect to **Cisco VOIP phones 7940, 7960.**
* Worked with the technicians and customers to fix all **voice issues** from changing ports to putting new configurations in the **router (2000, 3000, 7000 series)**
* Knowledge of design, installation, configuration, maintenance and administration of **Palo Alto Firewalls**.
* Integrating Panorama with **Palo Alto Firewalls, managing multiple Palo Alto Firewall using Panorama**.
* Provides updates and upgrades to the **Palo Alto Firewall and Panorama devices**.
* Installing and Configuring **Palo Alto Pa-500 series and Pa-2000 series firewalls** using Panorama.
* Responsible for administering (Create, modify & add) **Palo Alto and Cisco Firewall security policy and rule base**.
* Experience in testing of Wired and wireless products.
* Configuring, administering and troubleshooting the **Check Point, Palo Alto and ASA Firewall**.
* Expertise understanding in implementing and configuring **F5 Big-IP LTM-3900**, and **6900 LOAD BALANCERS,** maintained policies.
* Responsible for conversion of IBM Tivoli monitoring situation to **SolarWinds** monitoring template.
* Experience on Cisco **5760 wireless Controllers** and **Cisco 5508 controller**. Working on Aruba **Wireless LAN** Implementation for 11n Infrastructure across the Corporate Network.
* In-depth knowledge and hands-on experience on **IP Addressing, Sub netting, VLSM and ARP, reverse & proxy ARP, Ping Concepts.**
* Knowledge of implementing and troubleshooting complex **layer 2 technologies** such as **VLAN Trunks, VTP, STP, RSTP and MST.**
* Implementation of **HSRP, VRRP** for Default Gateway Redundancy.
* Experience in site-to-site and remote access **VPN** solutions. Experience **with Blue Coat** and **F5 technologies.**
* In depth understanding of **IPV4** implementation of **Sub netting.**
* Extensive experience in **WAN Technologies, Switching Technologies** along with Failover Mechanisms and Inter VLAN Routing types.
* Good knowledge with the technologies **VPN, WLAN andMulticast**.
* Proficient hands on experience in configuration & troubleshooting of routing protocols and deployment of **OSPF, EIGRP, BGP** and Policy routing on Cisco Routers.
* Expertise in implementing **Security policies like NAT, PAT, IDS, IPS, VPN** and Access lists.
* Good experience in physical infrastructure like structured cabling, **IP address management**, Racking, Stacking, **UCS management**.
* Implemented traffic filters using Access-lists, Distribute-Lists, Route Maps and route manipulation using Offset-list.
* Extensive experience in configuring and troubleshooting of protocols **RIP v1/v2, EIGRP, OSPF, BGP and MPLS.**
* Worked on network topologies and configurations, **TCP/IP, UDP, Frame Relay, Token Ring, ATM, bridges, routers, switches.**
* Well experienced in configuring **GLBP, ICMP, PPP, PAP, CHAP and SNMP**.
* Experienced in configuring and deploying **CBWFQ, WRED, LFI, QOS** technologies.
* Experience in installing and configuring **DNS, DHCP** server. and info blocks.
* Excellent communication skills, enthusiastic, motivated and a team player.
* A highly organized individual who adopts a systematic approach to problem solving, effectively analyzes results and implements solutions.
* Experience with Change management process and Project documentation tools like **Excel** and **VISIO**.

**TECHNICAL SKILLS:**

**LAN Protocols :**  VLAN, VTP, Inter-VLAN routing, STP, Workgroup, Domain,

HSRP, Static, Ether Channel, Trunks, DHCP

**Network Configuration :** Advanced switch/router configuration (Cisco IOS access

List, Route redistribution/propagation).

**Routing Protocols :** IGRP, EIGRP, OSPF, BGPv4, MPBGP, HSRP, IPv6,

WLAN, 802.11/e, WEP, POP3 LADP, VRRP, GLBR, LACP

**WAN Protocols :** HDLC, PPP, ISDN, ATM, Channel & Leased Lines

**Circuit switched WAN :** T1/E1 – T3/E3/OCX (Channelized, Fractional & full).

**Packet Switched WAN :** ATM, FRAME RELAY, MPLS VPNs

**Security Technologies :** Cisco FWSM/PIX/ASDM, Checkpoint NG, Juniper SRX,

Palo, Alto, IPS/IDS

**Cisco Routers :** Cisco GSR 12416, 12418, Cisco 7200vxr, Cisco 3640,

Cisco 3600

**AAA Architecture :** TACACS+, RADIUS, Cisco ACS

**Redundancy / management :** HSRP, VRRP, GLBP, RPR, NSF/NSR, Wireshark,

Solar winds, SNMP

**Sniffers :** Ethereal (Wireshark).

**Network Management Tools :** MRTG, HP Open view, Cisco WAN manager, Cisco

Works 2000.

**Physical interfaces :**  Fast Ethernet, Gigabit Ethernet, Serial, HSSI, Sonnet

(POS)

**Layer 2 technology :** VLAN, HSRP, VRRP, GLBP, STP, RSTP, PVST+, MST,

PVLAN, Optimizing STP (Port Fast, Uplink Fast, Backbone Fast, Root Guard, BPDU Guard),

**Layer 3 Switching :** CEF, MLS, Ether channel (PAGP & LACP, Load Balancing)

**Switches :** Catalyst 6500, MSFC, MSFC2, 7600, 3700, 3500

**Operating Systems :** Microsoft XP/Vista/7/8, UNIX, Linux (Red hat, Fedora,

Ubuntu, Backtrack).

**PROFESSIONAL EXPERIENCE**

**Sun Trust, Atlanta, GA Aug 2016 - Present Role: Senior Network Engineer**

**Responsibilities:**

* Installed, Configured and maintained **2600, 3600, 7613** Cisco Routers and **3750, 4500** and **6500** series Cisco Switches and **Check point** and **McAfee** Gateway proxies.
* Performed VSS on cisco **catalyst 6500** series switches.
* Configured and managed Cisco access layer routers and switches & carried out route redistribution & manipulated route updates using distribute lists, route-maps & administrative distance, and offset-lists.
* Worked with the Call manager installation for deploying **Cisco VOIP**.
* Performed service restorations of single customer **VoIP troubles** and **outages.**
* Configured routing protocols like **RIP, MPLS**, **EIGRP, OSPF& BGP** and troubleshooting layer3 issues.
* Perform wireless administration and troubleshooting for the corporate wireless
* Real-time Monitoring the enterprise Network for different alerts
* Worked on Multi-vendor platform **with checkpoint, Palo Alto and Cisco firewalls requesting net flow for security compliance, coding, and pushing firewall rules** after approval and troubleshoot incidents as required.
* Experience in testing and configuring DNS, DHCP, HTTP, HTTPS, TCP/IP, UDP, SNMP, OSPF, RIP, PPTP, L2TP, VLAN, VPN, L2VPN, L3VPN **Firewall and wireless** components.
* Good Understanding of Multiple Contexts in **ASA firewalls and implemented different failover mechanisms among ASA firewalls**.
* Installing and Configuring **Palo Alto Pa-500 series and Pa-2000 series** firewalls using Panorama.
* Configuring **Administrating** **Cisco ACS5.3** for **Dot1x RADIUS** authentication for Wireless users **and TACACS for Device Administration**.
* Responsible for administering (Create, modify & add) **Palo Alto** and **Cisco Firewallsecurity policy and rule base.**
* Provide 24\*7 supports for day to day operational activities including Change Implementation, Handling Work order access Request, High Priority incident handling/troubleshooting for Security Devices (Firewalls, Proxies, IPS, SSL, VPN Devices etc.)
* Administer **Checkpoint firewalls with cluster gateways** including pushing policies and processing user requests to allow access through the firewall using Smart Dashboard and identify unused rules and schedule change to mark it for permanent deletion at later point of time.
* Used **Splunk SIEM** tool to check the **logs, create reports and dashboards**.
* Lab Implementation of multiple security contexts in **ASA firewalls and Checkpoints** configures redundancy (Active-Active failover and active-standby failover) among them.
* Provide support for **2Tier and 3Tier firewall architecture**, which includes various **Checkpoint and Cisco ASA firewalls**.
* Install and upgrade **Bluecoat proxy SG (900, 810 and SG9000 series) and Proxy AV (510,810 and 1400 series)** in all the Datacentres.
* Configure policies on the **Bluecoat VPM, local database and PAC files** to filter the traffic flow by Creating custom rules, URL categories and routing policies.
* Experience in writing test plans, detailed test cases, and another formal test documentation.
* Exposure to the development of manual test cases as per customer requirements.
* Configured **ACLs** in **Cisco 5540 ASA firewall** for Internet Access requests for servers, Protocol Handling, Object Grouping and NAT.
* Troubleshoot and Worked with Security issues related to **Cisco ASA, Checkpoint, IDS/IPS**.
* Install and configure **Bluecoat Proxy SG** in the network for web traffic management and Policy configuration.
* Configured and Administered **Cisco ASA 5585 firewalls** which includes setting up the different zones.
* Configuring and implementing Remote Access Solution: **IPsec VPN, any connect VPN, SSL VPN.**
* Worked extensively in Configuring, Monitoring and Troubleshooting **Cisco's ASA 5500/PIX security appliance**, Failover DMZ zoning & configuring Lan's/routing/NATing with the firewalls as per the design.
* Involved in the Team of Datacentre Operations to perform duties like administration and monitoring of Cisco Routers and Switches according to the organization requirements.
* Configured ACLs in **Cisco 5585 ASA firewall** for Internet Access requests for servers, Protocol Handling, **Object Grouping and NAT Control using Object NAT**.
* Remedy Ticketing system, Change Management, Incident Management and solving the SR's assigned to me.

**Environment:** ACLs, ASA, Palo Alto,Cisco Routers series 2600, 2900 and 3600. Cisco Switches catalyst 3500, 3750, 4500 and 6500 series Switching Protocols: STP, VTP, VLAN, RSTP, PVSTP+ Routing Protocols: RIPv2, EIGRP, OSPF, BGP IP SEC, HSRP, **Aruba Controllers** 6000, 3600, MED

**Bank of America, Charlotte, NC July 2015 – Aug 2016**

**Role: Network Engineer**

**Responsibilities:**

* Involved in the activity of Data-Centre migration of regular Cisco catalyst switches with the new **Nexus2148**, **2224T, 5548**, **6018**, **7010** using F3/M3 line-cards with 10GE & 40GE interfaces and **Supervisor 2E**.
* Performed migration from Legacy **Catalyst 6509 with SUP-720, Catalyst 4507 with SUP-6** to **Nexus 7k with SUP-2E** as part of the data centre refresh.
* Experienced in working with **Cisco NX-OS** and **IOS.**
* Deployed **VSS** on Cisco **Catalyst 6509** switches and provided post-deployment support for issues.
* Experience on cisco wireless management systems which includes cisco 8540 Wireless controller, cisco 5520 Wireless LAN controller, and virtual wireless controllers.
* Configured and troubleshooting Aruba Wireless products like Access Points and Mobility Access Switches
* As part of Data Centre fabric remediation/refresh project, deployed Cisco Nexus switches and implemented **features like FEX Links, VPC and VDC.**
* Configured and deployed **VPC** between **Nexus 7010** and **Nexus5596**, **5548** switches along with **FEX2248**.
* Involved in the troubleshooting aspects of complex network infrastructure using routing protocols like **MPLS**, **EIGRP**, **OSPF** and **BGP**.
* Configured and deploying Cisco **ASR9010, ASR901, ASR903** Catalyst **6506**, **4948E**, **4510** switches and Cisco **3660**, **3845**, and **7609** series routers.
* Applied **ACLs** for Internet access to the servers using **Cisco 5550 ASA firewall** and performed **NAT**.
* Worked on hosted**VoIP** services and SIP Trunking.
* Configured and installed VoIP devices and IP Phones such as 7940, 7942, 7960, 7961, 7971 G-Ge, 7975G.
* Designed and implemented DMZ for Web servers, Mail servers & FTP Servers using **Cisco ASA5500** Firewalls.
* Good knowledge and hand on experience of implemented firewall policies on Cisco ASA.
* Configured and maintained IPSEC and SSL VPN's on **Palo Alto Firewalls, Blue Coat Proxies and WAN Optimizers.**
* **Performing network monitoring**, providing analysis using various tools like **SolarWinds.**
* Performed Security operations in terms of pushing new policies and deploying new rules.
* Performing security troubleshooting in terms of checking **ACLs** and **ACEs** and traffic flow analysis using packet capture features.
* Performed load balancing and application level redundancy by deploying **F5 BIG-IP LTM 3900** and **BIG-IP GTM**.
* Involved in the configuration and maintenance of **IP sec Site-Site VPN**.
* Supported in giving access the User machines and partners exterior to the network using **IPsec VPN tunnelling** and SSL.
* Dealt with the service providers in the case of WAN outages.
* Responsible for simulating network operations with the usage of packet analyser like Wire shark, and use to resolve tickets whenever there is an issue.
* Had hands on experience in configuring and implementing **Prefix-lists**, **Route-maps**, **Ether-channels**.

**Environment:** Cisco NX-OS,ACLs, ASA, Aruba, Palo Alto,Switching Protocols: STP, VTP, VLAN, RSTP, PVSTP+ Routing Protocols: RIPv2, EIGRP, OSPF, BGP IP SEC.

**Atlantic Health, Morristown, NJ Feb 2014 – June 2015**

**Role: Network Engineer**

**Responsibilities:**

* Configured **HSRP** between **VLANs**, configuring Ether Channels, Port Channel on 6500 catalyst switches.
* Configured Routing protocols such as **RIP, OSPF, EIGRP, MPLS**, static routing and policy based routing.
* Configured and troubleshot link state routing protocols like OSPF in single area and multiple areas.
* Configured **VLANs** with **802.1q** tagging. Configured Trunk groups, ether channels, and Spanning tree for creating Access/distribution and core layer switching architecture.
* Configured **BPDU Guard**, port-fast, uplink fast and other spanning tree features.
* Provided Technical Support and solutions for network problems.
* Implemented **NAT** solutions on **WAN** applications.
* Upgraded **IOS**, troubleshot network outages.
* Configured **Cisco 5760** wireless Controllers and **Cisco 5508** Controllers.
* Provided on-call support for installation and troubleshooting of the configuration issues
* Configured Standard, Extended, and Named Access Lists to allow users all over the company to access different applications and blocking others
* Install**VoIP**Equipment, programming and installation Data Switches that support Avaya**VoIP** equipment.
* Involved the implementation, and support of**VOIP**technologies
* Planned and implemented **Sub netting**, **VLSM** to conserve IP addresses
* Configured **STP** for loop prevention and **VTP** for Inter-VLAN Routing
* Performed troubleshooting of connectivity problems using **PING**, and **Trace** route
* Provided Technical support for improvement, up gradation, and expansion of the existing network architecture.
* Done troubleshooting of **TCP/IP** problems and connectivity issues in multi-protocol Ethernet environment.
* **IOS upgrade 1900, 2900, 3500** series Cisco Catalyst switches and **2500, 2600, 3600** series Cisco routers using TFTP.
* Installed and configured **DHCP** server. Implemented **DHCP, DNS, IPAM configuration** on the servers to allocate, resolute the **IP addresses** from **Subnet**.
* Participated in on call support to troubleshoot the configuration and installation issues.
* Displayed excellent troubleshooting skills and customer centric approach.

**Environment:** Cisco catalyst Switches 6500, 4500, 3500, 2900 Routing Protocols: OSPF, RIP Communication

**Merck Pharmaceuticals, Kenilworth, NJ Oct 2012 – Nov 2013**

**Role: Network Admin**

**Responsibilities:**

* Setting up the process for attending to the support request from the users.
* Laying down the **networkdesign** for the premises and recommending the required equipment’s.
* Co-ordinating with vendors for the procurement of **goods** and **internet linkage.**
* Getting the issues solved in a timely manner and escalating the problems which require intervention higher levels.
* Configure and monitor **MacAfee** Network Security Manager
* Getting desktop PCs assembled and Operating systems & other applications installed.
* Ensuring proper working of all the equipment’s.
* Producing reports network productivity, plans and issues for higher management.
* **Configuration**, **maintenance** and **troubleshooting** of **LAN**, **WAN**, modems.
* Writing Documentation and Training all The Activation Technicians on the current **VoIP** Products.
* Managed the Day to day Turn-ups and repair on all products for **VoIP** and related services
* Deployment and Trouble Shooting **Citrix Server, Proxy Server**, application server.
* Installation and maintenance of security software on the mail servers, desktops and application servers. Implementing security policies.
* Configuration and maintenance of Cisco router, HP layer3 switch, l2 switches.
* **Installing, configuring and troubleshoot** the lotus notes client with the respective id files and locals.
* Maintaining and configuring **Active Directory.**
* Monitored **migration and deployment** of new proprietary and Microsoft XP, and MS Server 2003 software for home depot stores.
* Adding Installing **Windows** and **Linux** operating system on Wipro desktop, laptops
* Maintaining and creating domain.
* Adding machines into the domain and installing the required software’s
* Creating users and giving the permissions to the required DL’s for the users.
* Installing and **configuring hub (IBM—PCOMM).**
* Implemented **DHCP, DNS, IPAM configuration** on the servers to allocate resolute the **IP addresses from Subnet.**
* Taking a Partitions or Disks Images by using the Image reader software like Ghost.
* Taking care of **HSBC software’s like whirl, HCC.**
* Configuring network printers to the desktops and laptops.
* Installing Microsoft products **like MS-office, Visio, MS-project** and other software’s like VSS

**Environment:** Cisco Routers series 2600, 2900 and 3600. Cisco Switches catalyst 3500, 3750, 4500 and 6500 series Routing Protocols: RIPv2, EIGRP, OSPF, BGP Switching Protocols: STP, VTP, VLAN, RSTP MS Visio, Cisco IOS.

**sprouts solutions, Chennai, India** **June 2009- Sep 2012**

**Role: System Administrator**

**Responsibilities:**

* Configured **RIP and EIGRP on 2600, 2900 and 3600series Cisco routers.**
* Involved in troubleshooting of **DHCP and other IP conflict** problems
* Implemented **VTP and Trunking protocols** (802.1q and ISL) on 3560, 3750 and **4500series Cisco Catalyst switches**
* Provided on-call support for installation and troubleshooting of the configuration issues
* Configured Standard, Extended, and Named Access Lists to allow users all over the company to access different applications and blocking others
* Planned and implemented Sub-netting, **VLSM to conserve IP addresses.**
* Configured S.TP for loop prevention and **VTP for Inter-VLAN Routing.**
* Performed troubleshooting of connectivity **problems using PING, and Trace route.**
* Provided Technical support for improvement, up gradation, and expansion of the existing network architecture
* Done troubleshooting of **TCP/IP problems and connectivity** issues in multi-protocol Ethernet environment.
* IOS upgrade **1900, 2900, 3500 series Cisco Catalyst switches and 2500, 2600, 3600 series Cisco routers** using TFTP.

**Environment**: Cisco Routers 7600, 7200, 2600, 3600**,** Cisco catalyst Switches 6500, 4500, 3500, 2900

Routing Protocols: OSPF, RIP Communication Protocols:  DHCP Sniffing Tools: Wireshark 

**CERTIFICATIONS:**

* Cisco Certified Network Associate (CCNA)
* Cisco Certified Network Professional (CCNP)

**Education**

Information Technology, JNTUA, India 2009