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**ARJUN REDDY**

**Sr. NETWORK SECURITY ENGINEER**

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**PROFESSIONAL SUMMARY:**

* Network Engineer with 7+ years of working experience in Network Infrastructure, Security which includes designing, deployment and providing network support, installation, configuring, implementation and troubleshooting of complex networking system**.**
* Experience in set up, configuration and management of **Cisco ASA** Firewall in various domain such as Internet, DMZ, Business-Partner and Remote-Access **VPN** etc.
* Experience in installing, configuring and administration of Firewalls including **Palo Alto**, **Cisco ASA**, **Checkpoint** and Load Balancers like **Big-IP F5** (LTM and GTM).
* Hands on experience in Deploying and Troubleshooting Cisco **2900,2960, 3560, 3750, 4500, 4900, 6500** series including **Nexus 2248, 5548 and** **7010** switches.
* Experience configuring Virtual Device Context in Nexus 7010.
* Proficient in Cisco IOS for configuration and troubleshooting of routing protocols like **BGP, OSPF, LDP, EIGRP, RIP, BGP.**
* Good knowledge in **ACL, NAT/ PAT, Ether Channel, IP Sec and VPNs**. Experience in Troubleshooting for connectivity and hardware problems on Cisco Networks.
* Advanced knowledge, design, installation, configuration, maintenance and administration of Checkpoint Firewall **R55 up to R77**, Secure Platform Installation, **VPN.**
* Knowledge in implementing and configuring **F5 Big-IP LTM** load balancers for load balancing and network traffic management for business applications.
* Hands on Experience in configuring **F5** objects,components and provisioning various modules like **LTM, GTM, ASM, APM.**
* Configure all Palo Alto Networks Firewall models (**PA-3000, PA-5000**) as well as a centralized management system (Panorama) to manage large scale firewall deployments.
* Experiences in Deploying and Troubleshooting policy management on Web Proxies.
* Strong hands on experience on PIX Firewalls, **ASA (5540/5550)** Firewalls. Implemented Security Policies using **ACL**, Firewall, **IPSEC**, **SSL**, **VPN**, **IPS/IDS**, **AAA** (**TACACS+ & RADIUS**).
* Experience setting up **IPSEC VPN** between Cisco **ASA Firewall** and **Juniper SRX** and **Cisco routers.**
* Good experience with Security Incident and Event Management (SIEM), Intrusion Detection and Prevention Systems (**IDS**/**IPS**) and log management and database activity monitoring.
* Implementing, maintaining and troubleshooting switching tasks such as **VLANs**, **VTP**, VLAN trunking using ISL and 802.1Q, STP, RSTP, PVST+, Ether channel using LACP and PAGP, Inter-VLAN routing, CEF and DCEF.
* Experience with network security protocols such as **IPSEC tunnels, GRE tunnels, NAT (**Configuring **static NAT, dynamic NAT, inside Global Address Overloading), PAT, ACLs and VPN.**
* Experience working with **Palo alto** GUI Panorama and **orchestration tools i.e. Appview x and central management tools like Algosec, Tufin, Sol Soft.**
* Experience with **APM** and **ASM** modules dealing with policy mangers and WAF policy deployment in transparent to active mode.
* Experience with “MacAfee” and “Splunk” SIEM tools for log analysis and threat management analysis.
* Generating Presentation and Usage report for users accessing external sites on Web proxies to compile with Security Compliance.
* In depth knowledge and experience working with other protocols like **TCP**/**IP**, **OSI** model, **DHCP, DNS, SMTP, IMAP, FTP, LDAP, NTP, SNMP** and various network protocols**.**
* Experience in Network monitoring using and alerting Solar winds to Operation Center (NOC) from a network management perspective.
* Experience in writing iRules for load balancing applications / policy mangers on **LTM**, **GTM**, **APM**, **ASM** modules for various TMOS version i.e. 10.x - 12.0.
* Experience with device management/inventory and device upgrade and maintenance of various vendor products i.e. Cisco, F5, Palo Alto, bluecoat, Websense, ASA, juniper Pulse VPN.
* Efficient at use of Microsoft VISIO/Office as technical documentation and presentation tools.

**TECHNICAL SKILLS:**

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| **Routers** | **Cisco 1900, 2600, 2800, 2900, 3600, 3800, 3900, 7200, 7600**  **Juniper M7i, J230, M320** |
| **Switches** | **Cisco 3550, 3750, 4500, 4900, 6500, Nexus 5548 and 7010**  **Juniper EX3200, EX4200, QFX3500** |
| **Firewalls and**  **Load Balancers** | **Cisco ASA 5540 Series, IPSEC, SSL, VPN, IPS/IDS, IOS Firewall features, DMZ setup, F5 LTM (3900, 4200), PAN OS 6.1,7.0,7.1, Juniper SRX, Palo Alto, Check point.** |
| **Protocols** | **IP, TCP, UDP, ICMP, NAT, DHCP, SNMP, IPSEC, SSL, HTTP, SSH** |
| **Routing: (layer 3)** | **OSPF, EIGRP, BGP, RIP, PBR, Route Filtering, Redistribution, Summarization, CEF, MLS, Ether Channel.** |
| **Switching (layer2)** | **VLANs, Dot1Q, VTP, STP, ISL, DTP, RSTP, VLAN Maps, HSRP, GLBP, CEF, DCEF, Spanning Tree, PVST, Port Security.** |
| **LAN/WAN Technologies** | **Ethernet, Frame relay, MPLS, HDLC, PPP, OC Standard, DSL, ISDN.** |
| **Network Management** | **SNMP v2, Cisco Works, Citrix Netscape, Solar winds, TACACS.** |
| **Operating Systems** | **Linux / Windows** |

**CERTIFICATIONS:**

* **CISCO CERTIFIED NETWORK ASSOCIATE (CCNA)**
* **CISCO CERTIFIED NETWORK PROFESSIONAL (CCNP)**

**WORK EXPERIENCE:**

**FEDEX, Memphis, TN APR 2016 – TILL DATE**

**SECURITY/F5 ENGINEER**

**RESPONSIBILITIES:**

* Responsible for reviewing and creating the FW rules and monitoring the logs as per the security standards in Palo Alto Firewalls.
* Migration from Cisco firewalls to Palo Alto firewalls platforms **PA 5000** and **PA 500** and **PA 200** firewalls.
* Worked with Palo Alto firewalls **PA 250, PA 3020, PA 5020** using Panorama performing changes if required.
* Successfully installed Palo Alto **PA 3060** Firewalls to protect Data Center and provided L3 support for routers/switches/Firewalls.
* Configuring rules and maintaining Palo Alto Firewalls and Analysis of firewall logs.
* Configure **IPsec** and **SSL** **VPN** configuration on firewalls.
* Worked on Security Information and Event Management (**SIEM**), Intrusion Detection and Prevention (**IDS** / **IPS**), sniffers and malware analysis tools.
* Implemented Zone Based Firewalling and Security Rules on the Palo Alto Firewall.
* Extensive knowledge on wildfire feature of Palo Alto firewalls.
* Configured application load balancing using **F5** **LTM**, **VIP**, Pools on F5 LTM and worked with iRules management on **LTM**.
* Worked with F5 Load balancing, **IDS/IPS**, **Bluecoat** proxy servers and Administrating.
* Working configuration of new **VLANs** and extension of existing **VLANs** on/to the necessary equipment to have connectivity between two different data centers.
* Provide Tier III Load Balancer expertise on **F5 Big-IP** Local Traffic Managers (**LTM**), **GTM** and **APM** Modules.
* Responsible for solving logging issues of the F5 load balancer and how it works with the syslog servers making sure the communications go through the switches and routers.
* Deployed **F5 LTM** load balancer and experience in virtual server configuration, high availability, load balancing, **iRules**, and **SSL** profiles.
* Configured Nexus 2000 Fabric Extender (FEX) which acts as a remote line card (module) for the Nexus 5000 to connect servers and storage devices.
* Managing and providing support to various project teams with regards to the addition of new equipment such as routers switches and firewalls to the **DMZs**.
* Cleanup and Optimizing the firewall rule base and database along with Reordering rules for optimal firewall performance.
* Troubleshoot Firewall connectivity issues between Servers and Users as well as various third party, DMZ and internet zones.
* Troubleshoot connectivity issues and Monitor health of the firewall resources as well as work on individual firewall for advanced troubleshooting.
* Implementing rules in Visual Policy Manager to allow and restrict access as per customer requirement.

**Environment**: **PA 250, PA 3020, PA 5020, PA 3060, PA 5000, PA 500, PA 200, Nexus 2k/5k, F5 Big-IP, LTM, GTM, APM, VLAN, iRules, SSL profiles, IPsec, Frame-relay.**

**ELAVON, Atlanta, GA MAY 2015 – MAR 2016**

**NETWORK SECURITY ENGINEER**

**RESPONSIBILITIES:**

* Design and implement a secure network in compliance with all **PCI** regulations.
* Upgraded the remote access (**VPN**) and firewall environment for the entire organization to ensure that day-to-day Security Operations run smoothly.
* Performing troubleshooting on slow network **connectivity** issues, and Performance on **F5** and **CISCO ASA** Firewalls.
* Involved in the configuration and troubleshooting of routing protocols like **OSPF, BGP** and IP access filter policies.
* Migrated **10.2.x** version to **11.5.1** version and troubleshooting configuration change issues.
* Deploying and decommissioning Cisco switches/Firewalls and their respective software upgrades.
* Generating **RCA** (Root Cause Analysis) for critical issues of **layer1/layer2/layer3/Layer7** problems.
* Involved in upgrading NX-OS to version 6.1 on the Cisco Nexus 7010.
* Experience configuring Virtual Device Context in Nexus 7010.
* Configuration and troubleshooting of Firewalls **ASA 5520, ASA 5510**.
* Performed upgrading of **load balancers** from Citrix to **F5 Big-IP** load balancer to improved functionality, reliability and scalability in the system.
* Managed the **F5 Big-IP GTM/LTM** appliances to include writing iRules, SSL offload and everyday task of creating WIP and VIPs.
* Upgradesof **F5 TMOS** and Hot-fix installations depending on need.
* Worked on **F5 BIG-IP LTM 3900**, configured profiles, provided and ensured high availability.
* Worked on troubleshooting and resolving issues escalated by the NOC and internal systems, including developing, implementing and deploying emergency hot fixes within a global network.
* Administrating on **F5 LTM, GTM, APM on series.**
* Created an automated backup procedure for all F5 load balance appliances.
* Perform log analysis using SIEM Tool and generate reports for user exceeding a bandwidth on Websense.
* Performing the **ACL** requests change for various client’s requests given by application or business team.
* Handled LAN environment involving **HSRP**, **VLANs**, Trunking and Spanning Tree protocol.
* Work with IP for any vulnerabilities /**ACLS** and remediate as needed.
* Change management and third level incident management being the primary responsibility, participate directly as well as take escalations from the team members as and when required.
* Created Visio Dean / Visio Documentation to give complete picture of network design for each building.
* Hands on Experience in Troubleshooting IOS related bugs based on past history and appropriate release notes.

**Environment: Cisco 2948/3560/4500/3560/3750/3550/3500/2960 6500 switches, Cisco 3640/12000/ 7200/3845/3600/2800 routers, Cisco Nexus 7K/5K, Cisco ASA 5510, 5520, windows server 2003/2008,**

**F5 BIGIP LTM.**

**TEREX CORP, WESTPORT, CT SEP 2013 – APR 2015**

**NETWORK ENGINEER**

**RESPONSIBILITIES:**

* Managed operations of juniper SRX and cisco ASA firewalls as per design.
* Configuring Virtual Chassis for Juniper switches **EX**-**4200**, Firewalls **SRX**-**210**.
* Monitoring firewalls using Algosec Firewall Analyzer.
* Configure pools, profiles and manage clients web server traffic using **F5** **Big**-**IP** **LTM** load balancer.
* Configured F5 Viprion chassis **4400s** for **GTM** and **LTM** modules.
* Wrote iRules and policies in accordance with the application design.
* Upgraded F5 load balancers from **TMOS** **9.0v** to **10.0.1v**.
* Deploy F5 VE on VM ware using vSphere client for lower level environment.
* Installed high availability **Big IP F5 LTM and GTM** load balancers to provide uninterrupted service to customers.
* Worked on daily tickets on firewalls, routes, load balancer requests.
* Configured and monitored Nginx web proxy server for better inspection of http requests.
* Conducted web penetration test for web pages inside network to find out any vulnerabilities using “Vega” in Linux.
* Moved connections from cisco catalyst **6500** to nexus **7000** series.
* Implemented all standard and non-standard **ISDN** and **IP-VPN** changes to company customer support connections.
* Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's **ASA** **5500**/PIX security appliance, Failover **DMZ** zoning & configuring **VLANs**/routing/**NAT** with the firewalls as per the design.
* Configure AAA using **TACACS** and Remote User Authentication using an RSA Secure ID (Two Factor Authentication).
* Wrote **ACL’s** for different server applications inside network.
* Involved in Network Designing, Routing, **DNS**, **IP** Subnetting, **TCP**/**IP** protocol.
* Participate in all technical aspects of **LAN**, **WAN**, **VPN** and security Internet Service projects including, short and long term planning, implementation, project management and operations support as required.

**Environment:** **Juniper switches** **EX**-**4200, Firewalls SRX-210, F5 Big-IP LTM, Cisco's ASA 5500, Cisco catalyst** **6500**, **TACACS, NAT, TCP**/**IP.**

**HANES BRANDS, WINSTON-SALEM, NC DEC 2012 – AUG 2013**

**NETWORK SUPPORT ENGINEER**

**RESPONSIBILITIES:**

* Configuring Static, **IGRP, EIGRP,** and **OSPF** Routing Protocols on Cisco 1600, 2600, 2800, 3600, 7300 series Routers.
* Deployed on **Nexus** **7000**, **5000** and **2000** series with V-Block servers and Cisco **UCS** E-series.
* Experience in working with Cisco Nexus 2148 Fabric Extender and Nexus 7010, 5000 series to provide a Flexible Access Solution for datacenter access architecture.
* Experience in configuring, upgrading and verifying the **NX-OS.**
* Expansion and implementation of current data center for different phases of migration.
* Perform extensive testing around the upgrade, migration and configuration functionality of our software.
* Responsible for entire company network infrastructure that includes Cisco Switches, Routers, Firewalls, Access Points, Servers.
* Design, Implement and troubleshooting of Juniper switches, routers and Firewalls EX-2200, EX-4200, EX-4500, MX-480, M Series**, SRX210, SRX240, SRX 3600/650.**
* Configuring and implementation of Juniper Firewall, SSG Series, Net screen Series **ISG** 1000, SRX Series.
* Implementation of Site-to-Site **VPNs** and **DMVPN** over the internet usingIKE Phase 1 and IKE Phase 2 based on traffic with **ASA 5500** series Firewalls.
* Configure various **LAN** switches such as **CISCO CAT 2900, 3550, 4500, 6509** switches and Access layer switches such as Cisco 4510, 4948, 4507 switches for **VLAN**, Fast Ether Channel configuration.
* Configuration and troubleshooting of **CSM,** integration with **ASA** devices.
* Experience in migration of **VLANS** and Configured **VLANs** with 802.1q tagging, Ether channels, and Spanning tree for creating Access/distribution and core layer switching.
* Creation of firewall rules on Checkpoint Smart Dashboard and install policies.
* Developed various Splunk search scripts to process and filter network data as per the requirements.
* Management of corporate Checkpoint Firewall implementing security protocols and alleviating network attacks.
* Executed manual testing, protocol testing and system testing.
* Deployed Palo Alto Firewalls for web filtering and application control.
* Designed and implemented **DMZ** for Web servers, Mail servers and **FTP** Servers using Cisco **ASA 5500** Firewalls.

**Environment: Cisco 1600, 2600, 2800, Nexus 7010, 5000, ASA 5500 series Firewalls, Juniper switches, CISCO CAT 2900, 3550 SWITCHES, VLAN.**

**INFINITY INFO SOLUTIONS**, **INDIA .** **OCT 2010 – NOV 2012**

**NETWORK ENGINEER**

**RESPONSIBILITIES:**

* Installation, testing and troubleshooting of Switches, Servers and Firewalls.
* Installed and configured 6500 Cisco Catalyst Switch, creating VLANs and assigning ports to the VLAN, configuration of routing protocols such as **OSPF**, **EIGRP** and **RIP**, **BGP**.
* Upgrading the IOS on the 6500 switch and saving the old system configuration and running configuration.
* Configured **EIGRP**, **RIP**, **OSPF**, **BGP** and static routing, MPLS WAN connectivity, Frame relay WAN Connectivity.
* Performed Troubleshooting, upgrades, and administered multiple vendor systems platform and maintaining system applications.
* Implemented **WAN** network technologies like **MPLS** and Frame Relay, switching technologies like **STP**, switch and **VLAN** security on L2 and L3 layer switches.
* Provided **BGP** routing protocols for implementing multi-homing connection between two ISP’s and providing traffic flow to certain areas.
* Carried out Route-redistribution between different routing protocols like OSPF, BGP, and EIGRP for increased efficiency.
* Provided an IP Addressing scheme using **VLSM** and maintained **VLAN** table, and implemented **DHCP** server for assigning IP address to various connecting devices.
* Managing and troubleshooting Wireless **LAN** connectivity issues.
* Implemented Static **NAT** and **PAT** for internet users.
* Designed and Implemented **DMZ** for FTP, Web and Mail Servers with **CISCO ASA 5540/PIX 525** and PIX515E.
* Configured **NAT** and **PAT** on the Cisco PIX Firewalls for the Internal Systems.
* Extended support and troubleshooting for the field technicians at the remote sites.
* Supported remote location with site to site **VPN**, Remote access VPN such as **IPSEC**.
* Designed and developed organization production network involving configuration of devices like Cisco 2821, 2811 routers, Cisco 3750 switch as well as carrying out their IOS upgrade.
* Provided Site-Site VPN and remote access for the clients and internal users.
* Setting up internal network by configuring the center’s routers with **EIGRP** over **DMVPN** at the hub router to establish connectivity with other Location.
* Opening and following up troubleshooting tickets with ISPs and corporate users to resolve problems with circuits.

**Environment: VLAN, OSPF, EIGRP and RIP, BGP, MPLS and FRAME RELAY, NAT, PAT, VPN, VLSM.**

**ING VYSYA, INDIA JUL 2009 – Sep 2010**

**SYSTEM ENGINEER**

**RESPONSIBILITIES:**

* Migration of **RIPv2** to **OSPF** routing protocols.
* Configured **EIGRP** for lab environment.
* Implemented ISL and **802.1Q** for communicating through **VTP**.
* Working with Client teams to find out requirements for their networks.
* Used various Network sniffers like Ethereal, Sniffer capture, **TCP** dump, etc.
* Real time monitoring and network management using Cisco Works LMS.
* Configuring of IP Allocation and sub netting for all applications and servers and other needs throughout company using **FLSM, VLSM** addressing.
* Created **VLAN** and **Inter-VLAN** routing with Multilayer Switching.
* Providing technical consultancy for better application response using **QoS**.
* Installed wireless access points (**WAP**) at various locations in the company.
* Real time monitoring and network management using Cisco Works LMS.
* Maintaining the exchange server and office 365.
* Maintaining user data backup and server backups on regular basis.
* Designing solutions for frozen requirements using Cisco Routers and Switches.
* Deploying the network infrastructure to meet the requirements.
* Having Data Center Design Experience, installing and Configuring Network Devices in a Data Center including patching the cables in the Patch Panel. Design and implemented network infrastructure and configured the entire network Infrastructure devices including Network Printers and Registers.

**Environment**:**Cisco routers, switches, Firewalls, Routing protocols, VLAN, VLSM, FLSM, QoS, VTP.**

**EDUCATION:** Bachelor of Technology in Electrical & Electronics Engineering.