**** ** Udaya Sai**

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**PROFILE**

* Cisco Certified Network Engineer with 7 plus years of experience across designing, performing Network analysis, troubleshooting, maintaining and supporting complex network systems.
* Expertise in PALO ALTO Firewalls
* Have experience in security, Cisco Routing and switching with strong Cisco hardware/ software.
* Extensive working experience on Routing Protocols (EIGRP, OSPF, BGP), Layer 2(VLANs, STP, VTP), WAN Technologies (Frame Relay, IPSec, VPNs, MPLS), QoS.
* Worked on Cisco Routers 3800, 2800, 2900 and Nexus 5K, series.
* VLAN Configuration to different applications with RSTP, STP, VTP
* Configured and maintained WAN/LAN links, VPN connectivity, and remote access infrastructure
* Responsible for the coordination and resource allocation of all WAN network design activities
* Excellent in designing and configuring network infrastructure with multiple IP routing Protocols.
* Replaced aging Checkpoint firewall architecture with new next generation Palo Alto appliances serving as firewalls and URL and application inspection.
* Document new processes, policies and procedures to meet PCI requirements
* Responsible for gathering existing configurations and using them as a baseline for developing configurations to support new equipment and migration to the global BT MPLS WAN. Protocols included BGP, OSPF, EIGRP
* Troubleshoot BGP, OSP, and MLPS protocols
* Palo Alto design and installation (Application and URL filtering, Threat Prevention, Data Filtering).
* Working with customers to understand their application needs from a firewall/security perspective
* Hands-on experience of working on CISCO firewalls, CISCO PIX 500(506E/515E/525) &ASA 5500(5510/5540) series.
* Hands on experience on PIX Firewalls, ASA Firewalls secure policies using ACL traffic filters, IPSEC, SSL, VPN, AAA (TACACS+ & RADIUS).
* Experience in F5 Load balancers such as BIG-IP LTM modules.
* Managing the end to end onsite MSP program at Juniper Networks
* Manage and conduct PCI readiness assessments of the client's information security posture and serviced assets.
* Work with business leaders and key stakeholders at Juniper to ensure and meet SLA
* Created and resolved Palo Alto Firewall Rules, Routing, pushed Policy via Panoroma
* Upgraded IOS on various Cisco ASA 5550 5585 5520 firewalls
* Troubleshoot TCP/IP problems; troubleshoot connectivity issues in multi-protocol Ethernet, Environment.
* Extensive hands-on experience with complex routed LAN and WAN networks, Cisco routers, switches.
* Implemented traffic filters using Standard and Extended access-lists, Distribute-Lists, and Route Maps.

**EDUCATIONBachelors in Electronics and Communication Engineering**

GITAM Vishakhapatnam, India

**INDUSTRIAL CERTIFICATIONS**

**Cisco Certified Network Associate (CCNA)**

**Cisco Certified Network Professional (CCNP)**

**Implementing Cisco Network Security (CCNA Security)**

**Accredited Configuration Engineer (ACE Palo Alto)**

**TECHNICAL SKILLS**

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| --- | --- |
| Networking  Equipment | 2600, 2800, 3800, 3900, 7200, 7500, ASR 1000, ASR 9000, Router  Platform Juniper, MX Series |
| Cisco Switch  Platform | 1900, 2900, 3550, 3560, 3750, 4500, 6509,6513, 6500,  MSFC, MSFC2, 7600, 3700,3500, N5K, 7K, 9K, Brocade, Brocade ADX,Brocade 4900, 5300 |
| Network OS | 105 (12.x), Cat OS, 10S-XE, 10S-XR, NX-OS, ASA 8. 4 , ASA8.0 And JUNOS |
| Network Security and Firewall | Cisco ASA 5520, 5585, IDS/IPS (4200), Checkpoint 1100, Palo Alto-200, 500. WPA/WAP2/ Odyssey Radius Server and Client Supplicant.  IPsec, VPN Configuration, VPN Concentrator, ASA 5505,5510.  Intel Security. Cisco (ASA, PIX) 5510, ISE, Palo Alto, Juniper, Fortinet UTM,Aruba Clear Pass and controller, IPSEC VPN, GRE VPN, NAT/PAT, Filtering, Load Balancing, Citrix Netscaler, IDS/IPS |
| Wireless | 802.11 a/c/g/n. Wireless Controllers 9300/9400/9500. Aruba Access Point  (105,125). Cisco Access Point (1140) |
| Load-Balancer | F5 Big-IP GTM/l TM 2000, 5000, 6500, 6800 series, Cisco ACE 4710, Brocade DSX, Brocade VDX |
| Routing | EIGRP, OSPF, BGP, RIP, IS-IS |
| Switching | VLAN, Ether channel (PAGP & LACP load Balancing), HSRP,  STP, RSTP, Optimizing STP (Port Fast, Uplink Fast, Backbone Fast, Root  Guard and BPDU Guard) and 802.1Q. |
| WAN | Frame relay, MPLS, OSI Cable, lease line (HDLC, PPP), ISDN, PPoE,  And VPLS. |
| Firewalls | GRE, NAT/PAT, IDS/IPS, Ethereal. |
| Communication | TCP/IP, IPv6, ARP, VLAN (802.1q, ATM), PPP, HTTP, SSH, Protocols Frame Relay, MPLS, 802.11, VPN and Multicast, IGMP |
| Operating System | Windows XP Vista, Windows 2007, Windows server (2003, Software  2008), Microsoft office suite, Microsoft Visio, Microsoft Azure, VMware ESX 4.1, VMware VSphere client. |
| Other Tools | VNC, Putty, SVN and Clear Case |

**PROFESSIONAL EXPERIENCE**

**CVS, Scottsdale AZ August 2017- Present**

**Firewall Analyst**

Key Accomplishments:

* Implemented Zone Based Firewalling and Security Rules on the Palo Alto Firewall.
* Responsible for setting up the infrastructure environment with majority of Cisco & Palo Alto appliances apart from various other equipment.
* Build IT security infrastructure including Checkpoint, Juniper and Palo Alto firewalls.
* Successfully installed Palo Alto PA 3060 firewalls to protects Data Center and provided L3 support for routers/switches/firewalls Migrated with a team from a predominantly Checkpoint environment to a Palo Alto global solution.
* Implemented Zone Based Firewalling and Security Rules on the ASA Firewall
* Re-designed and created the vulnerability assessment and remediation process.
* Configuration and troubleshooting of Cisco firewalls.
* Developed multiple plans for site-to-site VPN solutions to allow for IP connectivity between networks across the internet
* Hands-on Engineering and implementation of network infrastructure and PCI compliant network equipment.
* Assist in the selection process for service providers and validate their PCI compliance prior to engagement
* Review and optimize Firewall rules using Secure Track Firemon tool and Firewall audit reports.
* Determine the engagement scope including the client's contracted services and PCI applicability considerations.
* Generating implementation plans for firewall changes and rule additions in Cisco CSM
* Recommend actionable compensating controls in preparation for PCI compliance audits.
* Migrate End of Life CheckPoint firewalls to Palo Alto firewalls.
* Conducted Vulnerability Assessment of current vulnerability remediation process.
* Manage and configure Cisco ASA Firewalls
* Responsible for project plan implementation and mitigation in multi-vendor environment for PCI audit standards.
* Responsible for installation of new firewall in the environment with no or minimum impact to traffic.
* Analysed and processed firewall rule base changes
* Managed and performed the scheduled PCI maintenance cutover from old to new PCI compliant equipment.
* Generated and implemented VPN configurations and firewall policies as per customer requests
* Apply updates to remediate any vulnerabilities.
* Migrate obsolete Juniper / Screen firewalls to Palo Alto firewalls.

**NORTH WESTERN MUTUAL, FRANKLIN WI May 2016 – August 2017**

**Network Engineer**

*Key Accomplishments:*

* Palo Alto design and installation (Application and URL filtering, Threat Prevention, Data Filtering)
* Configuring and troubleshooting perimeter security devices such as Checkpoint NGX R77 Gaia, Provider-1/MDM, Secure Platform, Palo Alto and ASA Firewalls.
* Palo Alto design and installation (Application and URL filtering, Threat Prevention, Data Filtering)
* Configuring rules and Maintaining Palo Alto Firewalls & Analysis of firewall logs using various tools.
* Use Sourcefire Next Generation Intrusion Prevention System (IPS/IDS), FireEye and Q1 Radar (SIEM) to monitor for suspicious network traffic
* Configuring & managing Network & Security Devices that includes Cisco Routers & Switches, Nexus Switches, Juniper and Palo Alto Firewalls, F5 BigIP Load balancers, Blue Coat Proxies and Riverbed WAN Optimizers
* Configure and define parameters for installation or testing WAN
* Configured Site-Site VPN on Palo Alto Firewall on one side and Fortinet on the other side.
* Configuring rules and Maintaining Palo Alto Firewalls & Analysis of firewall logs using various tools.
* Configuring routing protocols EIGRP, OSPF, MPBGP, and BGPV4.
* Configures and Install LAN server
* Configured layer 2 and layer 3 switching and routing protocols such as MPLS VPN, OSPF, BGP, MP-BGP, MPLS, on Juniper 4200, MX960 and Cisco 2800, 2500 and 3700's routers for Above Net’s Metro Ethernet IP product suite
* Configured EIGRP, OSPF and BGP routing.
* Configuring Prime infrastructure, Wireless LAN controller and Access point based on policy created by the institution
* Configuring and management of Nexus network in the existing network infrastructure
* Experience with configuring virtual server and configuring load balancing methods in F5 12.0 LTM.
* Troubleshooting Network routing protocols (EIGRP, OSPF) during the migrations and new client connections.
* Did Network monitoring of LAN/WAN using tools like Wire shark.
* Responsible for implementing QoS parameter on switching configuration.
* Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP Ether channel, STP, RSTP and MST
* Exposure to wild fire feature of Palo Alto.
* Supporting BGP and EIGRP based on the network by resolving problems on level 2 & 3 of external customers of all locations & internal teams as well
* Deep knowledge to implement BGP, MP-BGP for VPN with address family IPV4, VPNv4, route distinguisher and route target to share route between different vrf domain
* Assisted peers with troubleshooting network connectivity issues in a professional and timely manner. Issues consist of BGP peering issues, OSPF connectivity issues and VLANS
* Responsible for testing of BGP, IPv4 and IPv6 and multicast in an MPLS network environment
* Expand Cisco switch stacks when needed. Troubleshoot WAN and LAN routing issues
* Experience in the areas of computers, management, LAN server, customer relations and office work. Ability to direct, motivate and supervise personnel
* Creation of user profiles in LAN Server
* Form teams with the PC staff and other LAN Analysts to accomplish larger projects
* Providing support and managing the LAN and WAN within the Personnel Department
* Extensive OSI layer 1 through 7 troubleshooting within the WAN Routing and switching topologies of the EarthLink footprint.
* Management of incoming and outgoing calls, regarding WAN service/repair related issues across the entire EarthLink network footprint.
* Firewalls - Cisco ASA 5500 and 5580, Cisco ASDM, Juniper ISG, Juniper Net screen
* Developed and delivered training for Juniper product knowledge
* Remote troubleshooting of Juniper Networks Equipment for customers with high end support contracts including United States Government entities, ISP's & other major corporations
* Assist in software upgrade & vendor migration to Juniper Networks Equipment
* Utilize over 20 different available troubleshooting, diagnostic & monitoring software resources to identify resolutions of break/fix issues for business customers WAN and LAN, & VLAN network topologies
* PC, LAN, plotter an printer troubleshooting identifying problem sources and possible solutions
* Created standard access lists to allow SNMP, NTP and logging servers.
* Managed all client hardware/software of Enterprise LAN/WAN networks, to include routers, switches, load balancers
* Assisted clients with Creating NetScaler Policies as per client requirement. (Rewrite, Content Switching, Responder)
* Successfully resolved misconfigurations of load balancing of servers on NetScaler
* Knowledge of NetScaler High Availability
* Performed various contract jobs, including data center migrations, building IPSec tunnels and working on security issues
* Negotiate VPN tunnels using IPSec encryption standards and also configured and implemented site-to-site VPN, Remote VPN
* Deploy Palo Alto log collectors.
* Well versed with AAA configuration using TACACS+ & RADIUS server
* Monitor LAN´s and WAN´s with Solarwinds Orion and syslog, work with circuit providers to resolve outages.
* Analyze network & device connectivity issues in a Cisco environment with network monitoring tools HP Openview, Solarwinds Orion NPM/NCM
* Solely administer and maintain system and applications software for PC's, servers, LAN routing, email, Internet applications
* Monitoring wireless network and troubleshooting wireless LAN controllers and access points
* Work closely with bank management and suggesting wireless infrastructure change based on wireless traffic demand
* Using Cisco routers NCS 5000 Series, NCS 5500 Series, and ASR 1000 Series for WAN aggregation performance and security for WAN, Internet, and M2M interconnectivity
* Experience with devices Palo Alto Network firewalls such as security NAT, Threat prevention & URL filtering
* Responsible for checkpoint and Cisco ASA firewall administration across global networks.
* Working on backup, restore and disaster recovery test.
* Working in high availability Nexus environment with switches like 5K series and provide level 3 network support.
* Working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution.
* Experience configuring Virtual Device context in Nexus 5 K series switch.
* Successfully installed Palo Alto Next-Generation PA-3060, PA-5060 firewalls to protect data centre with the use of IPS feature.
* Worked on F5 BIG-IP LTM 8900, configured profiles, provided and ensured high availability.
* Experience with GTM F5 component to provide high availability with providing serviced across data centres.
* Experience in HSRP standby troubleshooting and experience in configuring and upgrading of Cisco IOS.
* Working on security levels with RADIUS, TACACS+.
* Innovated with support of Palo Alto for remote and mobile users and for analyzing files for malware in a separate process.
* Firewall technologies including general configuration, risk analysis, security policy, rules creation and modification of checkpoint (Palo Alto and Cisco ASA).

**CISCO SYSTEMS, CENTENNIAL CO Oct 2015 – May 2016**

**Network Engineer**

*Key Accomplishments:*

* Designed, configured and Architected Cisco Juniper Service Provided Core, with scale for future with strong ROI using Cisco NCS 5500 Series, NCS 6000 Series and ASR 9000 Series
* Designed, configured and Architected Cisco Juniper Service Provided Core, with scale for future with strong ROI using Cisco NCS 5500 Series, NCS 6000 Series and ASR 9000 Series
* Design, implementation & operational support of routing/switching protocols in complex environments including OSPF, BGP, EIGRP, Spanning Tree, 802.1q, etc
* Design and implement a Highly Availably WAN for Low Latency Real Time Data
* Designed and implement security strategies with Cisco and Palo Alto firewalls.
* Responsible for setting up the infrastructure environment with majority of Cisco & Palo Alto appliances apart from various other equipment.
* Researched, designed, and replaced aging Checkpoint firewall architecture with new next generation Palo Alto appliances serving as firewalls and URL and application inspection.
* Build IT security infrastructure including Checkpoint, Juniper and Palo Alto firewalls
* Implemented access policy in ISE and deployed through WLC to wireless clients
* Implemented quality of service to increase bandwidth utilization in LAN and WAN interface using RSVP and packet prioritization.
* Implementing firewall rules and configuring Palo Alto Network Firewall
* Implemented network packet level monitoring using Wire shark, solar winds.
* Configuring HSRP between the 3845 router pairs for gateway redundancy for the client desktops.
* Configured GRE over IP Sec for enhanced security.
* Configure Juniper Networks NetScreen Series Firewall/IPSec VPN Platform & Juniper Networks SSL VPN-Secure Access Series Appliance line
* Configured load balancing for fewer applications on Netscaler 10K and 12K in older data center and part of migration team from netscaler to F5
* Configure and manage IPSEC and SSL VPN tunnels for Site-to-Site and Remote Access on Cisco ASAs.
* Configured Wireless Lan Controller 2500, 5500, 7500 and provisioned Access point
* Configured PVSTP+ for loop prevention and VTP for inter-VLAN routing.
* Installation, maintenance and troubleshoot DNS, DHCP servers and system issues. Managed and maintained DNS, DHCP protocols and active- directory infrastructure.
* 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.
* Upgrade Cisco routers, switches and firewall (PIX) IOS using TFTP.
* Analyzing and resolving a high percentage of initial customer contact in the areas of PC/LAN.
* Order, activate and testing of new circuits for WAN
* Experience in manipulating various BGP attributes like Local Preference, MED, Extended Communities, Route-maps Route-Reflector clusters and route policy implementation
* 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 in modern wan links
* Performing troubleshooting on slow network connectivity issues, routing issues that involves BGP, OSPF and identifying the root cause for the issues
* Experience in Design, Configuration and Implementing Cisco Juniper Edge Routers for Enterprise to grow density, resiliency with programmability for a scalable network edge using Cisco ASR 1000 Series and Cisco ASR 9000 Series
* Responsible for ENMS Enterprise Network Management Systems Performance tools SolarWinds Orion Network Performance Monitor
* Network Monitoring and Analysis via Solarwinds and Meraki Dashboard on 5000+ nodes including internal mission critical servers and applications.
* Industrial Knowledge on F5 iRule,F5 LTM/GTM
* Create and test Cisco router and switching operations using OSPF routing protocol, ASA Firewalls, and MPLS switching for stable VPNs.
* Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500/PIX security appliance.
* Worked on Cisco Routers, Active /Passive Hubs, Switches, Cisco PIX Firewall, Cisco ASA
* Switching related tasks included implementing VLANs, VTP and configuring and maintaining multi-VLAN environment and inter-VLAN routing on Fast-Ethernet channel for brocade switches.
* Maintained local area network for State Auditor’s office, installing, configuring, and managing network components and monitoring LAN performance
* Maintained TACACS+ and RADIUS servers for AAA authentication and user authentication
* Worked on security levels with RADIUS, TACACS+.
* Negotiate VPN tunnels using IP sec encryption standards and also configured and implemented site-to-site VPN, Remote VPN.
* Completed service requests (i.e. IP readdressing, bandwidth upgrades, IOS/platform upgrades.etc).
* Experience in Layer 3 Routing protocol configurations: EIGRP, OSPF, and BGP.
* Monitored network for optimum traffic distribution and load balancing using solar winds.
* Deploying Cisco routers and switched such as 3800
* Maintained TACAS+ and RADIUS servers for AAA and user authentication.
* Monitoring traffic and connections in checkpoint and ASA firewall.
* Taking backup for wireless lan controllers and pushing back the configuration in the event of failure
* Involved in network designing, routing, DNS, IP sub netting, TCP/IP protocol.

**IBM CORPORATION, INDIA Dec 2013 – Sept 2015**

**Network Engineer**

*Key Accomplishments:*

* Implementing HSRP, VRRP, NAT, Sub-netting, DHCP, TFTP, TCP/IP, UDP, SNMP, IPsec, STP, RSTP, and Scaling STP with MST, and Multicast protocols.
* Configuring standard and extended access-lists for security purpose.
* Troubleshoot WAN networking issues and managed various vender relationships to ensure prompt network issue resolution
* Responsible for configuring Cisco router 3800, 2800 series. Configurations involved routing protocols like OSPF, BGP, STATIC routes etc.
* Worked on Cisco switches 4500, 2960, 3750 series. Configurations involved trunking, VLAN, Layer 3 Switching. Involved in configuration of Cisco catalyst 4500 Switches.
* Created and design network layout and documented the network system design with detail information.
* Managing, developing and contributing to all aspects of an enterprise wide WAN Transformation project
* Part of automation team for F5 in building and supporting configuration, troubleshooting issues related to layer 7 and 4 traffic
* Responsible for creating, modifying, removing VLAN configurations as per the need.
* Provide timely and accurate progress status on all ongoing support issues, with an emphasis on problems, issues, and concerns.
* Involved in setup of F5 Load Balancers.
* Experience with network redundancy, diversity and associated dynamic protocols, including HSRP, VRRP, BGP and EIGRP.

**UPL GROUP, INDIA June 2012- Dec 2013**

**Network Engineer**

*Key Accomplishments:*

* Designing and installing new branch network systems. Resolving network issues, running test scripts and preparing network documentation.
* Configured and resolved various OSPF issues in an OSPF multi area environment between multiple branch routers.
* Configuring multiple route reflectors within a cluster.
* Configuring STP for switching loop prevention and VLANs for data and voice along with configuring port security for users connecting to the switches.
* Installing and configuring new Cisco equipment including Cisco catalyst switches 4500, and Nexus 2K as per the equipment of the company.
* Establishing VPN tunnels using IP Sec encryption standards and also configuring and implementing site-to-site VPN, remote VPN.
* Modified internal infrastructure by adding switches to support server farms and added servers to existing DMZ environments to support new and existing application platforms.
* Providing daily network support for national wide area network consisting of VPN and point-to-point site.
* 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.
* Providing level 3 support to customers, resolving issues by attending to conference calls.
* Working on broad range of topics such as routing and switching, planning and implementation, large-scale high visibility outages, proactive monitoring and maintenance, disaster recovery exercise and core network repairs.
* Involved in L2/L3 switching technology administration including creating and maintaining VLANs, port security, Trunking, STP, inter VLAN Routing, LAN security.
* Remediation of firewall rules from checkpoint firewalls to Cisco ASA firewalls and their implementation.
* Experience with firewall administration, rule analysis, rule modification.

**PRISM INTERNATIONAL PVT. LTD, INDIA** **April 2010 – May 2012**

**Network Admin**

*Key Accomplishments:*

* Designed and implemented security policies using ACL, firewall.
* Configured security policies including NAT, PAT, VPN, Route-maps and Access Control Lists.
* Configured, maintained and troubleshoot routing protocols such as OSPF and EIGRP.
* Configured for Cisco routers for OSPF, EIGRP, static and default route.
* Troubleshooting on network problems with wire shark, identify problem and fix.
* Responsible for the configuration of Cisco routers using OSPF, EIGRP.
* Handled network migration from RIP to OSPF.
* Assisted with escalation procedures and customer notifications.
* Working with checkpoint support for resolving escalated issues.
* Documented all the work done by using Excel & Ms word.

**PROFESSIONAL MEMBERSHIPS / AFFILIATIONS**

Institute of Electronics &Electrical Engineers (IEEE)

Institute of Electronics and Tele communication Engineering (IETE)

**RECREATIONAL ACHIEVEMENTS**

Executive body member for IEEE Student Chapter, GITAM University

Certified as winner in Tennikoit match in inter school sports meet

Organized many fests in IEEE and IETE in University level