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Description automatically generatedJeel patel**

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**NETWORK ENGINEER | US CITIZEN**

**Professional Summary:**

* Network Engineer with expertise in Network engineering, designing, architecting, deploying and troubleshooting Network & Security infrastructure on routers, switches (L2/L3) and firewalls.
* Strong knowledge in configuring and troubleshooting routing protocols like RIP, OSPF, VOIP, IS-IS, SNMP, EIGRP and BGP.
* Expertise in project facilitation in terms of quality assurance with good implementation knowledge of CMMI ver 1.2, ISO 9001:2008, ITIL and ISO 27001.
* Expertise in Installing and Configuring Cisco switches ,2960, 3560, 4500, 6500, 4900, 2900, 3750, Nexus 5000, Nexus 7000, 9000, ASR-901, ASR-903, ASR 5500, ASR-9010.
* Extensive experience on Planning, Designing, Implementation of small, medium organizations including LAN, VLAN, WLAN and WAN on wired and wireless networks.
* Hands on experience in security policy configuration including NAT, PAT, VPN, SSL-VPN, Route-maps and Access Control Lists.
* Migration of NiSource electric company’s legacy WAN network to SD-WAN with virtual firewalls on WAN routers.
* Compliance standards and frameworks such as PCI, NIST 800-53, HIPAA, HITRUST and Privacy standards and frameworks such as Generally Accepted Privacy Principles (GAPP).
* Extensive knowledge in configuring and deploying Next Generation Firewalls including Palo Alto, Cisco ASA and Checkpoint Firewalls.
* Hands on experience with Cisco ASA, IXIA, Palo Alto Firewalls, Cisco WSA/CWS, VPN, Cisco ACS, Juniper SRX, Cisco ISE, IPS, and Microsoft TMG
* Exposure to multiple technologies and builds/troubleshooting: VSAN/NSX/SDN/VXLAN, etc.
* Created new rules for both IPS and IDS devices. (IPS/IDS was the IBM Proventia).
* Strong practical experience in IP addressing, Sub-netting, VLSM and ARP, proxy ARP, and ping concepts.
* Managed DHCP, DNS and IP address thru Infoblox, and Admin for Internet sites access thru Zscaler.
* Experience with F5 load balancers and reverse proxy design and setup.
* Expertise in troubleshooting and configuring DNS, DHCP, TFTP, TELNET, SSH, FTP and NFS.
* Excellent hands-on experience in designing and implementing IP addressing that includes both IPV4 and IPV6.
* Migrating 500 Cisco GSR production routers on the AT&T backbone, from Cisco IOS to IOS-XR and upgrading service modules.
* Has experience in Bash scripting with focus on DevOps tools, CI/CD and AWS Cloud Architecture and hands-on Engineering
* Strong fundamental knowledge in implementing Layer-2 level technologies including VLAN's, VTP, STP, RSTP and Trunking.
* Knowledge and experience in standard security and regulatory frameworks including ISO 27001/31000 , NIST 800 - 71, HITRUST CSF and PCI DSS.
* Having good hands-on experience in Cisco Firepower appliances.
* Having vast experience in designing and configuring of Switches for VLANS and inter-switch communications.
* Expert level knowledge of troubleshooting, implementing, optimizing and testing of static and dynamic layer 3 routing protocols such as EIGRP, OSPF, BGP IS-IS ability to interpret and resolve complex route table problems.
* Has experience in with focus on DevOps tools, CI/CD and AWS Cloud Architecture and hands-on Engineering
* Hands on experience in management and administration of Palo Alto and ASA Firewalls at various zones including DMZ, Extranet (Various Business Partners) and internal.
* Firewall Policy optimization and rule base clean up using Skybox.
* Experience with Administration of Aruba Wireless Controllers and Access points.
* Hands on experience in performance testing on Octoscope.
* Hands-on experience in full lifecycle of ISO27001 framework, SOC2 Audit and remediation.
* Knowledge of ISO 27001 standard guidelines, PCI DSS requirements, SSAE-16 SOC1, SOC 2 audit.
* Hands on experience and Good Understanding of OSPF, BGP, MP-BGP,MPLS-VPN.
* Hands on experience in deployment of GRE tunnelling, SSL, Site-Site IPSEC VPN and DMVPN.
* Strong knowledge over design and implementation of Data Centre Migration, as I have worked on implementation strategies for the expansion of the MPLS VPN networks.

**Technical Skills:**

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| **Routers** | Cisco 7609, 2600, 2800, 3800, 3640, Cisco 3745, 7200 Series |
| **Switches** | Cisco 3500, 5000, 6500 Catalyst Series Cisco 7000, 2000 Nexus Series -2k,5k,7k |
| **Firewalls** | Palo Alto PA-3050, PA-5050, CISCO ASA 5500, Checkpoint |
| **Routing Protocols:** | RIP v1&v2, BGP, OSPF, EIGRP, HSRP, VRRP, GLBP, FTP, SMTP, SNMP |
| **Switching Protocols** | STP, RSTP, PVSTP, VTP, ARP, and VLAN. |
| **IP Services** | DHCP, NAT, VLAN, DNS, FTP, TFTP, LAN/WAN |
| **WAN Technologies** | ATM, ISDN, PPP, MPLS, ATT, 802.11, 802.11a, 802.11b, APLUS. |
| **VPN Technologies** | Remote access and site-to-site IPSec VPN, IPv6 transition techniques viz. Manual tunnelling, GRE tunnelling, 6to4 tunnelling, NAT64 and ISATAP |
| **Monitoring Tools** | OPNET, GNS3 Simulator, Packet Tracer, Wire Shark, Solar Winds, What’s Up IP, Nagios and Fluke Networks |
| **Networking** | TCP/IP, OSI Model, Socket Programming, LAN/WAN, Switches and Routers, IPV4/IPV6 Addressing & Subnetting, Ethernet, STP, VLAN, Trunking, DNS, DHCP, NAT, ACL, HTTP, ATM, ISDN, PPP, MPLS, ATT, 802.11, 802.11a, 802.11b, APLUS Web Services (REST & SOAP), Windows Servers 8 & 12 |
| **Tools** | GNS3, Packet Tracer, Solar Winds, What’s Up IP, VMware Workstation, Wireshark, Nagios and Fluke Networks , Cisco Firepower |
| **Languages** | C, Python, CLI/SDK, Bash, Pearl |
| **Operating Systems** | Windows XP, Vista, Windows 7, UNIX, SPLAT (Secure Platform), Linux |
| **Cloud Technologies** | Azure, AWS, EC2, S3, AWS-Lambda, RDS, IAM, Elastic Beanstalk |

**Professional Experience**

**Syntel Inc, Troy, Michigan Sept 2019 – Till Date**

**Wireless Network Engineer**

**Responsibilities:**

* Regular upgrade and maintenance of Infrastructure, Installing, configuring, and maintaining Cisco Switches (2900, 3500 ,7600, 3700 series, 6500 series) Cisco Routers (4800, 3800, 3600, 2800, 2600, 2900, 1800, 1700, 800) Cisco Router and Switches.
* Development of security programs/assessments-ISO 27000 series, policies, guidelines, procedures, and IT internal controls compliance, PCI-DSS, SOX, SAS-70, SSAE 16-SOC1/2, EU DPD/GDPR, HIPPA.
* Worked with VM segmentation (VMware NSX, Illumio, vArmour, GuardiCore), Firewall management and auditing (FireMon, Tufin, AlgoSec, RedSeal, Skybox, etc.) Sandboxing and Analytics (FireEye, Damballa, Check Point, Fortinet, Palo Alto) Network packet brokers (Gigamon, IXIA, NetScout)
* Technical support for improvement, up-gradation & expansion of the network architecture.
* Configured Cisco Routers for BGP, OSPF, RIP, RIPv2, EIGRP, Static and default route in a VPN environment using MPLS.
* Worked on CI/CD tools Jenkins and GIT version control system for continuous smooth code release process.
* Managing Virtual Machines in windows Azure
* Integrating on premises servers to Azure
* Implementing, and maintaining network security solutions, including vulnerability assessments.
* Successfully migrated the cisco legacy environment which consist of 6500, 4500 to Cisco Nexus 7k/5k/2k.
* Configured private and public facing Azure load balancers.
* Migrating virtual environments VMWare to Azure cloud
* Experience on working with Silverpeak SD-WAN circuit.
* Responsible for managing all aspects of the vulnerability risk.
* Vulnerability assessment including analysis of bugs in application.
* Working knowledge of SD-WAN technologies such as Meraki, and Silverpeak.
* Network Admin for Aruba wireless controllers and Access points.
* Created new rules for both IPS and IDS devices. (IPS/IDS was the IBM Proventia).
* Configured the routing network on the Silverpeak SD-WAN.
* Migrating 500 Cisco GSR production routers on the AT&T backbone, from Cisco IOS to IOS-XR and upgrading service modules.
* Installation, configuration and maintenance of Cisco Routers like 2600, 2800 and 3600 series.
* Experience working with Cisco switching and routing technology mostly on Cisco 2911 and Cisco 3560.
* Deployed Intelligent WAN (IWAN) in both Hybrid and Dual-ISP branches to provide an increase in bandwidth capacity, security and reliability.
* Worked on Cisco 5500-X ASA Firewalls to create advanced rule base design, rule base optimization, global objects.
* Integrating Configuring Cisco ASA Firewalls with third party tools to the Posture policy compliance perform CoA for remote VPN IPSec, SSL Any Connect users.
* Worked on Infoblox to update the DNS host and A records to assist the part of the load balancer migration from F5 to A10.
* Mentored security analysts assisting them with analysing Snort alerts for the Cisco Firepower appliances.
* Designed, developed, and implemented controls to deliver adherence to ADP Security policy derived from SOX, SOC1, ISO 27001 and NIST standards.
* Implement and troubleshoot Static NAT, Dynamic NAT, PAT, Spanning Tree Protocols (STP), MSTP, RSTP.
* Perform vulnerabilities scan and monitor continuously using NIST 800-137 as a guide with the aid of Nessus.
* Support 24x7 data network center, monitor network performance, manage and maintain Cisco IOS, IOS-XR and JunOS hardware.
* Worked on Layer 2 protocols such as STP, VTP, RSTP, PVSTP+, MST and other VLAN troubleshooting issues and configuring switches from scratch and deployment.
* Worked with scripting Automation for JavaScript, Linux/Unix toolbox, Python, Perl, Bash, ESX, VMware Virtual Switch with Design/Implementation
* Proficient with deployment and management of AWS services - VPC, Route 53, ELB, EBS, EC2, S3.
* Experience working on administering various AWS Services using AWS Console, AWS CLI.
* Creating dedicated VLANs for Voice & Data with QoS for prioritizing VOICE over DATA.
* Troubleshoot and coordinate the resolution of connectivity related issues.
* Configured VLANs with 802.1q tagging. Configured Trunk groups, ether channels, and Spanning tree for creating Access/distribution and core layer switching architecture.
* Configuring secured connection between routers using GRE tunnelling to achieve IPsec.
* 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.
* Design expertise for the SD-WAN(Versa),SD-LAN and WAN optimization technologies for efficient delivery of the application data across LAN and WAN.
* Assisted in implementation of Silverpeak WAN optimization appliances.
* Aruba 802.11ac wireless access points deliver superb Wi-Fi performance, Aruba 330 series, 501 wireless client bridge, 7220, 7010 MOBILITY CONTROLLER.
* Implemented Changes on Existing configurations for the applications on F5 and A10 load balancers.
* Worked with protocols such as Frame Relay, IEEE 802.11 and VLAN, OSPF and BGP, DNS, DHCP, FTP, NTP, SNMP, SMTP, and TELNET.
* Configured network using routing protocols such as RIP, OSPF, and BGP and troubleshooting l2/l3 issues.
* Utilizes NIST 800-53A and NIST 800- 53 rev-4 to review implemented controls and enter information into the Requirements Traceability Matrix (RTM) and findings into the Security Assessment Report (SAR).
* Switching related tasks included implementing VLANS and configuring ISL trunk on Fast- Ethernet channel between switches.
* Responsible for boarding external and internal IBM customers in the Ashburn Virginia Collocation facility.
* Profound working knowledge of administration and management of Palo Alto firewalls using centralized Panorama M-100 and M-500 devices.
* Configured and implemented remote access solution for customers: IPSEC, Site2Site, GRE tunnel end-to- end.
* Troubleshoot IPSEC overlay connectivity from SD-WANappliance to VersaSD-WAN controllers via Internet, MPLS and WBS transports.
* Extensive knowledge ISO 9001:2005, ISO 27001:2005, ISO 20000 Standards
* Perform RVR and RVO testing on octoscope for Cisco and Arris Routers.
* Configured OSPF, BGP, LDP, MP-BGP on Juniper M320 and Cisco CRS-1 in the Core.
* Manage and tune Splunk SIEM and Cisco FirePower IPS.
* Troubleshooting firewall rules in Cisco ASA, Checkpoint, Zscaler.
* Configured BFD for OSPF and BGP interfaces on Cisco CRS-1.
* Use Tools such as SKYBOX for Firewall Policy optimization and rule base Clean up.
* Creating and managing Active Directory sites and services.
* Utilize skybox to review all shadowed rules to reduce all acls for cleanup.
* Managing the delegation of control on the Active Directory to various team as per their job functions.
* Migration of resources done in batches of a specific number of resources everyday using Active Directory Migration Tool.
* Deploy and manage with advanced security and network management tools like Aruba ClearPass Policy Manager, Aruba AirWave and cloud-based Aruba Central.
* Designing, Installation and configuration of MPLS circuits, VPN and SSL VPN connections on checkpoint Firewalls, Juniper & Net Screen VPN Boxes.
* Configuring, troubleshooting and managing secure web content gateways and filters like Blue Coat and Web sense.
* Configure IP-SEC VPN, and SSL-VPN (Mobile Access) on Check Point Gaia based on user traffics that needs to be encrypted using Checkpoint.

**BCBS, Newark New jersey Jan 2018- Aug 2019**

**Network Engineer**

**Responsibilities:**

* Configuring and implementing of Composite Network models consists of Cisco 7600, 7200, 3800 series and ASR 9k, GSR 12K routers and Cisco 2950, 3500, 3550, 3750, 5000, 6500, 9300, 9500 Series switches.
* Deploying and decommissioning the VLANs on core ASR 9K, Nexus 5K and its downstream devices.
* Experience supporting or testing LANs, VLANs, WLANs, VPNs, NAT devices, and DHCP servers.
* Working on Cisco 6509 and 4507 series switches for LAN requirements that include managing VLANs, Port Security and troubleshooting LAN issues.
* Planning, installing, configurating and troubleshooting of networking infrastructure including routers, switches, and configuring all necessary LAN / WAN protocols in support of wireless infrastructure.
* Involved in the configuration & troubleshooting routing protocols like MP-BGP, OSPF, EIGRP, RIP, BGP v4, and MPLS.
* Configured BGP features like local-as replace, as-override to avoid loops when using redundant data center designs.
* Attend all meetings for new products such as Skybox to help generate usage traffic on the firewalls.
* Implemented HSRP on the Cisco 3550 Layer 3 switches and OSPF on 2 Cisco 3925 routers, the Layer 3 switch, 3 Cisco 3550 Switches, Cisco 3524XL switches for fail over.
* Implementing and managing Cisco Firepower devices.
* Worked on Layer 2 protocols such as STP, VTP, RSTP, PVSTP+, MST and other VLAN troubleshooting issues and configuring switches from scratch and deployment.
* Work in a Team of technicians tasked with design, configuration, implementation, and support of VoIP deployments.
* Initialized SOC1 reporting into the organization to improve sales and client retention.
* Configure, Manage and Monitor Palo Alto firewall models (Specifically the PA-5050 and the PA-5260).
* Maintained existing Novell 3.12, 4.01 and 4.11 networks for the IBM E-Business Solutions business.
* Cisco IOS and Cisco CatOS configuration and backups, Uploading and download IOS and CatOS using XModem, TFTP and FTP protocols
* Implementation and configuration of F5 Big-IP LTM 6400 Load balancers.
* Configuring Routing protocols like OSPF, MPLS, multicast and L2 protocols in ASA to check it is passing through via ASA in customer deployments.
* Deployed and maintained security/network devices and data centers for Service provider network.
* Experience in troubleshooting complex data center environments.
* Worked on multiple projects related to Branch networks, Campus networks, extranet clients and DataCenter Environments involving in data center migrations from one data center to another.
* Implemented traffic engineering on top of an existing Multiprotocol Label Switching (MPLS) network using Frame Relay and Open Shortest Path First (OSPF).
* Assisted in MPLS migrations, implemented a backup for the existing WAN connection using site- to-site IPsec VPN tunnels.
* Upgrade Versa FlexVNFSD-WANappliance software.
* Worked closely with CISO and SOC team on threat mitigation. SOC2 compliant environment.
* Developed and executed remediation plans to obtain or maintain FFIEC, PCI, SSAE 16/SOC 1 and corporate audit compliance.
* Documented best practice procedures, as needed, to meet FFIEC, PCI and SSAE 16/SOC 1 audit requirement.
* Working on network design for new next-generation VPN solution, migration from Checkpoint VPN to Pulse Secure VPN from network prospect.
* Worked extensively in configuring, Monitoring and Troubleshooting Cisco's ASA 5500/PIX security appliance, Failover DMZ zoning & configuring VLANs/routing/NATing with the firewalls as per the design

**Cisco Systems, San Jose, CA Jan 2017 - Dec 2017**

**Network Engineer**

**Responsibilities:**

* Ensure network connectivity of all servers, workstations, telephony equipment, fax machines, and other network appliances.
* Configured Cisco Routers for OSPF, RIP, IGRP RIPv2, EIGRP, Static and default route.
* Providing access to specific IP, Port filter and port access.
* Switching (Ethernet) related tasks included implementing VLANS and configuring ISL trunk on Fast-Ethernet channel between switches.
* Providing technical support to LAN & WAN systems.
* Involved in troubleshooting of DNS, DHCP and other IP conflict problems.
* Responsible for level 2 support of existing network technologies /services& integration of new network technologies / services.
* Configured VSS on Cisco Catalyst 6509 switches to have redundancy. Worked on T1/ E1/T3 technologies and different LAN & WAN technologies.
* Involved in configuration of OSPF Summarization (Summarizing internal and external routes).
* Scalability of OSPF by Filtering of Intra, Inter and External OSPF routes.
* Used various BGP Attributes and various Route-filters such as named Access-lists, Prefix lists, Route-maps to permit or deny routes and to change various attribute.
* Experienced in implementation and troubleshooting knowledge of protocols and technologies, especially in the following: BGP4, OSPF, IPv4, and Ethernet. Creating Network Design in MS-Visio for new servers, application to be placed into multiple Datacenter.