**Name: Karthik Kumar**

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***Professional Experience:***

***Summary***

* Over 9+ years of experience with expertise in managing networking protocols; deploying, administering, and migrating firewalls, also troubleshooting and supporting enterprise-level networks and Data Centers.
* Experience working in complex environments which include Layer 2 Switching, L3 routing, Network with perimeter and VPN firewalls, Load balancing, and Access policies management in F5/NetScaler. Experience with Aruba Wireless LAN Controllers.
* Advanced experience and knowledge with Cisco SDN ACI solution, Cisco Tetration, Enterprise SDW Meraki, F5, ASA/Fire Power/Palo Alto firewall, and Support daily operation.
* Creating groups and managing IAM concepts within AWS, GCP, and Azure
* Possess strong OpenStack Cloud, and UNIX administration skills in RHEL, Ubuntu, CentOS, RHEL, and Solaris and knowledge of IBM-AIX, and HP-UX.
* Used Python programming and language to develop a working and efficient network within the company.
* Utilized Python in the handling of all hits on Django Redis and other applications.
* Performed research regarding Python Programming and its uses and efficiency.
* Knowledge of Application Monitoring using GCP Stack driver.
* experience building and supporting large-scale, business-critical systems on Public Cloud (GCP)
* Deployment of Prisma Access, Prisma Cloud.
* Experience in developing and maintaining security standards, procedures, and policies surrounding WAF technology (Akamai Kona), and Network firewalls (Cisco ASA, Juniper, Imperva, Fortiweb) in coordination with the application, information security, and networking teams.
* Successfully designed and delivered secure cloud solutions for some of the Major organizations on AWS Cloud.
* In-depth knowledge on various AWS Services including EC2, VPC (NAT, Peering, VPN), IAM, EC2 Container Service, Elastic Beanstalk, Lambda, S3, Cloud Front, Glacier, RDS, DynamoDB, ElastiCache, Redshift, Direct Connect, Route 53, cloud watch, Cloud Formation, Cloud Trial, Opsworks, Amazon Elastic Map Reduce (EMR), AWS IoT, SNS, SQS, Lambda, API Gateway, AWS Alexa etc.
* Experience working on administering various AWS Services using AWS Console, AWS CL
* Configured express routes and NSG in the cloud security center, and cloud application security. Experience with Zscaler cloud proxies ZIA and ZPA. Worked on setting up tunnels to Zscaler Zens, zero-trust network access.
* Experience in installing, configuring, and maintaining Cisco Switches (2960, 3500, 3750, 3850, 4500, and 6500) in enterprise Environments and Nexus 2k, 3k, 5k, 7k, and 9k in Data Center Environments.
* Expertise in installing, configuring, and troubleshooting Juniper EX Switches (EX2200, EX2500, EX3200, EX4200, EX4500, EX8200 series).
* Expertise in installing, configuring, and troubleshooting Cisco Routers (3800, 3600, 2800, 2600, 1800, 1700, 800, ASR 9k).
* Experience in Cisco Routing and Switching using 3600, 3700, 3800, 5300, 6500, 7200, 7600Nexus 7k, Nexus 5k, Nexus 2k& ASR 9000, 1000 series routers, Meraki products.
* Good experience in Designing & building Azure Service mesh (ex. Istio) on top of the Kubernetes platform.
* Network Planning, Implementing, Configuring, Security, Troubleshooting, and Testing of networking systems on both Cisco and Juniper Networks.
* Administration, Engineering, and Support for various technologies including proficiency in LAN/MAN/WAN, routing, switching, security, and application load balancing.
* Solutions-oriented VoIP Network Engineer with noted accomplishments in the implementation and support of complex corporate networks and VoIP networks.
* Good understanding of Amazon ELB, security groups, NACL, NAT, firewall, and Route 53.
* Experience with working on Palo Alto centralized management GUI PANORAMA.
* In-depth expertise in the implementation of analysis, optimization, troubleshooting, and documentation of LAN/WAN networking systems.
* Experience in the setup of access lists, RIP, EIGRP, and tunnel installations.
* Proficiency in configuration of VLAN setup on various Cisco Routers and Switches.
* Experience with working on Palo Alto Next-Generation firewall security profiles and Cisco ASA VPN.
* Experience in Network Management Tools and sniffers like SNMP, HP-Open view, Wireshark, and Cisco works to support 24 x 7 Network Operation center.
* Expertise in installing, configuring, and troubleshooting Juniper Routers (E, J, M, and T-series).
* Advanced knowledge in Cisco ASA 5500 series and PIX installation, configuration and maintenance, configuration and installation of IOS security features and IPS, security risk analysis, attack mitigation & penetration tests based on LPT methodology.
* Experience in configuring, implementing, and troubleshooting F5 and Citrix Load Balancer in a large environment with sensitive applications.
* Deploy and manage with advanced security and network management tools like Aruba ClearPass Policy Manager, Aruba AirWave, and cloud-based Aruba Central.
* Configured F5 LTM, series 5000 series for corporate applications and high availability. Implemented LTM and GTM in DMZ and Internal network. Worked on software versions up to 12.1.2. Proficient and high-level expertise using F5-based profiles, monitors, VIPs, pools, SNAT, SSL offload, iRules, Virtual Servers, and apps. Migration experience from ACE to F5/ old F5 to New F5.
* Good experience, working with a team in designing LAN/WAN/WLAN architecture.
* Experience in installing, and administrating managing Windows server operating systems 2000, 2003, 2003 R2, 2008,2008 R2,2012, and their standard, Enterprise Data Center Edition.
* Excellent Verbal, and written communication skills and Interpersonal skills with the ability to work with large teams as well as independently with minimum supervision Team Player
* Experience with Project documentation tools implementing and maintaining network monitoring systems and experience with developing network design documentation and presentations using VISIO.
* Troubleshoot issues related to LDAP authentication and Kerberos authentication.
* Efficient at the use of Microsoft VISIO/Office as technical documentation and presentation tools
* Good knowledge and experience in Installation, Configuration, and Administration of Windows Servers 2000/2003, Active Directory, FTP, DNS, DHCP, TFTP, and Linux OS under various LAN and WAN environments.
* Experience design, installation, and administrating of enterprise Network and Wireless systems.
* In-depth knowledge and hands-on experience in Tier II ISP Routing Policies, Network Architecture, IP Subnetting, VLSM, TCP/IP, NAT, DHCP, DNS, and Firewalls.

**Technical Skills:**

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| --- | --- |
| **Networking Technologies:** | LAN/WAN Architecture, TCP/IP, Frame Relay, VPN, VLAN, VTP, NAT, PAT, STP, RSTP, PVST, MSTP |
| **Networking Hardware:** | Cisco Switches, Cisco Routers, ASA/Pix/Palo Alto/Checkpoint/Juniper firewalls. |
| **Security Technologies:** | PAP, CHAP, Cisco PIX, Blue Coat, Palo Alto, ASA, Fortinet, Checkpoint |
| **Network Monitoring:** | Wireshark, QRadar, Splunk, Tenable Nessus, TCP Replay, Wildfire |
| **Operating Systems:** | Windows 7, Vista, XP, 2000, LINUX, Cisco IOS, IOS-XE, NX-OS |
| **Routers:** | 1800, 2611, 2800, 3600, 3845, 3900,4300, 4400, 4500, ASR 1000X, 7206VXR, Juniper M & T Series. |
| **Load Balancers:** | F5 Networks (BIG-IP), NetScaler (Citrix) |
| **Firewalls:** | Palo Alto firewalls, Juniper Net Screen (500/5200), Juniper SRX (650/3600), Pix (525/535), ASA (5520/5550/5580), Checkpoint, |
| **Wireless:** | Cisco Meraki wireless Access points (MR66, MR74, MR84), Aruba Access points 200, 207,300,320, Wireless controllers 7280, 7240, Cisco Wireless controller 5508 and Cisco Aironet 3700 series. |
| **Platforms** | Windows 98/XP/VISTA,2000,2003 Linux |
| **Features & Services:** | IOS and Features, HSRP, GLBP, VRRP, IPAM IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, DNS, TFTP and FTP Management, Open Stack, IVR s, HLD and LLD documents, Dell equal logics |
| **Applications** | MS Office, MS Visio, Tcl/Tk Scripting, C/C, Python |

**Education:**

* Bachelors in Computer Science From JNTU

**Certification:**

* **CCNA** - Cisco Certified Network Associate
* **CCNP** – Cisco Certified Network Professional
* **PNCSE** – Palo Alto Network Certified Security Engineer

**Professional Experience:**

**Client: Motorola Solutions,** **Dallas, TX Sep 2021 – Till Date**

**Role: Sr. Network/Security Engineer**

**Responsibilities:**

* Experience with configuring Cisco 6500, 6800, and 4500 VSS in the Distribution layer of the Data center network.
* Created Server-less Architecture for on-premises Application Migration to AWS cloud.
* Experience with converting Checkpoint VPN rules over to the Cisco ASA solution. Migration with both Checkpoint and Cisco ASA VPN experience.
* Knowledge of Akamai CDN, CDN support and deploying, Cloud flare in website caching, Server load balancing, and Maintenance methods.
* Experience and knowledge with Cisco SDN ACI solution, Cisco Tetration, Enterprise SDW Meraki, F5, ASA/Fire Power/Palo Alto firewall, and Support daily operation.
* Advance Cisco SDN ACI and Meraki solution, Tetration.
* Automating the build and configuration of IaaS-based solutions in GCP.
* Experience hosting an application on GCP using Compute Engine, App Engine, Cloud SQL, Kubernetes Engine, and Cloud Storage.
* Experience in utilizing Aruba Central for the configuration, monitoring, and management of network infrastructure, including access points, switches, and gateways.
* Experience in deploying and maintaining network setups using Aruba Central, for better connectivity, security, and performance across distributed locations or campuses. Experience in troubleshooting network issues through Aruba Central's dashboard and analytics tools.
* Implemented and enforced network policies centrally through Aruba Central, regulatory requirements, thereby enhancing network security and integrity.
* Google Cloud hybrid networking with interconnect through service providers to connect GCP infrastructure to on-prem and set up VPNs as a backup.
* Experience with stack driver to monitor GCP resources.
* Fortinet Firewall administration, configuration of FortiGate 3000, 3815 series as per network diagram.
* Extensively worked on different firewalls (Checkpoint NGX, ISA, and Cisco ASA/PIX), IDS technologies (Cisco IDS, Real Secure IDS, and Snort), Cisco Security Agent, Cisco UNITY, Bluecoat proxy, RSA Secure ID, enVision, Juniper, FWSM, Netoptics, F5 GTM.
* Used AWS Cloud platform with features EC2, VPC, ELB, Auto-Scaling, Load Balancing, Security Groups, IAM, EBS, AMI, RDS, S3, SNS, SQS, Cloud Watch, Cloud Formation.
* Experience building VPC's for specific environments, and subnetting for private or public needs.
* Developed an AWS security roadmap which included the AWS Services and 3rd party tools to be utilized in the AWS Cloud for Security monitoring.
* Monitor traffic flows and overall end-to-end network communication with the use of SD-WAN technologies, such as Cisco Meraki, Aruba Central, OVRC Cloud Management, and Cradlepoint Netcloud Manager.
* Implemented continuous integration automated build pipelines using Jenkins.
* Deployed Chef Dashboard for configuration management to existing infrastructure.
* Developed an AWS Security Group strategy. Determined naming conventions, owners, and approval process for Security Group change requests in a promote-to-production environment.
* Enabled and configured CloudTrail logs for 26 AWS accounts. Created and managed an encrypted S3 Bucket for all CloudTrail logs and adjusted bucket policy for each account CloudTrail to access.
* Responsible for the design, development, and architecture of Cloud solutions.
* Responsible for designing and building Azure foundation setup.
* Experience with Cisco Meraki wireless managed network infrastructure.
* Understand customer requirements for wireless networks and explain how Cisco Meraki will integrate with current infrastructure, as well as service future needs.
* Hardware/Software platforms in production: Cisco, F5, Palo Alto, Infoblox, Net Optics, and Solar winds
* Replacement of old 6500 and WAN routers from the DR testing site and installment of Nexus 7K and ASR 1006 routers.
* Implemented new POPs using Juniper MX240 PE MX480 aggregation supporting MPLS VRF with iBGP, and ISIS iBGP route reflectors.
* Work with companies to implement Python programming and train on-site Python Programmers.
* Speak at conferences and make presentations regarding Python as well as its applications and features.
* Act as a guest speaker in college programs to educate students on programming options.
* Develop a readable and simple curriculum for the average user to get started with Python.
* completed CCC Network connectivity.
* On-site visit to complete the IT Audit reports and check the client for the complete requirements
* Installation of access control system / CCTV camera IP/ANALOG
* Maintenance of servers domain controller, file server, backup storage
* Implementation and maintenance of intrusion detection/ prevention (IDS/IPS) system to protect enterprise networks and sensitive corporate data. For Fine-tuning of TCP and UDP-enabled IDS/IPS signatures in the Firewall.
* Performs bandwidth and device upgrades on IOS-XR, IOS-XE, NX-OS, and IOS.
* Design, implement, and provide second-level support for host load-balancing solutions at SWA.
* Configuration of the access-list rules, and network object-service group based on well-known port the port i.e. FTP/SFTP, SSH, HTTPS/HTTPS (SSL), etc.
* Regularly attend Fore Scout Counteract, RES One Workspace, Splunk, and IBM Big Fix training.
* Switching-related tasks included implementing VLANs, and VTP, and configuring and maintaining multi-VLAN environments and inter-VLAN routing on the Fast-Ethernet channel.
* Configuring and managing F5 LTM (Local Traffic manager) in a large-scale environment.
* Configure and troubleshoot Juniper EX/SRX series switches.
* Worked and configured NetFlow Integrator tool which converts processed data to Syslog from edge routers, switches, and firewalls then sent to Splunk.
* Implemented Cisco and Aruba Wireless Controllers, and Aruba Wireless Access Points at corporate site as a part of WLAN Infrastructure.
* Deployed Fortinet firewall-managed wireless for the large campus.
* short- and long-term planning, implementation, project management, and operations support as required.
* Network security including NAT/PAT, ACL, and ASA/SRX/Palo Alto/Fortinet Firewalls.
* Good knowledge of the technologies Site to Site VPN, DMVPN, SSL VPN, WLAN, and Multicast.
* Well Experienced in configuring protocols HSRP, GLBP, PPP, PAP, CHAP, and SNMP.
* Work with the Load Balancing team to build connectivity to production and disaster recovery servers through F5 Big IP LTM load balancers.
* Strong knowledge of TACACS+, and RADIUS implementation in Access Control Network.
* Install, manage, and monitor large-scale Palo Alto Firewalls through Panorama.
* Experience with communicating with different customers, and IT teams in gathering the details for the project.
* Experience in installing and configuring DNS, and DHCP servers.
* Convert WAN links from TDM circuits to MPLS and convert encryption from IP Sec/GRE to Get VPN.
* Performing network monitoring, and analysis using various tools like Wireshark, & QRadar with Wildfire tool helped for tracking root cause problems.
* Responsible for layer 2 securities which was implemented using a dedicated VLAN ID for all trunk ports, setting the user ports to non-trucking, deployed port security, when possible, for user ports.
* Used Extra hop for the detection of any abnormalities in the network, tracking file access in databases and storage for data security, and locating bottlenecks over the network.
* Strong hands-on experience on, ASA Firewalls, and Palo Alto Firewalls. Implemented Security Policies using ACL, Firewall, IPSEC, SSL VPN, IPS/IDS, AAA (TACACS+ & RADIUS).
* Designing advanced networking solutions including Quality of Service QoS, Virtual Routing and Forwarding VRF, and route redistribution.
* Implemented Site-to-Site VPNs over the internet utilizing 3DES, AES/AES-256 with PIX Firewalls.
* Configuring the VIPs, pools, Irules and profiles on F5 LTM 10.x and 11.x version.
* Responsible for layer 2 securities which was implemented using a dedicated VLAN ID for all trunk ports, setting the user ports to non-trunking, deployed port security, when possible, for user ports
* Enabled STP attack mitigation (BPDU Guard, Root Guard), using MD5 authentication for VTP, disabling all unused ports and putting them in unused VLAN, and ensuring DHCP attack prevention where needed.
* Implement and configure GLBP (on core switching and also for VPN redundancy), HSRP on different locations of office on the switched network, and managing the entire multilayer switched network.
* Used Kiwi-Cat tools to manage configurations from desktops for network devices, including routers, switches, and firewalls.
* Enabled continuous Layer 2 monitoring with Solar Winds, so that each site can run independently until connectivity is restored.
* Experience in HSRP standby troubleshooting & Experience in configuring & upgrading of Cisco IOS
* Installation, Configuration, and troubleshooting of Cisco switches and Firewalls on multi-mode context-based environments.
* Involved in the design and implementation of Data Center Migration, and worked on implementation strategies for the expansion of the MPLS VPN networks.
* Experience in configuring VPC, VDC, and ISSU software upgrades in Nexus 7010.
* Serve as part of a team of network engineers responsible for base-wide network upgrade from Cisco Layer 3 Catalyst switches to Juniper Layer 3 EX4200 & EX3200 switches.

**Client: Fannie Mae,** **Atlanta, GA Jul 2019 – Aug 2021 Role: Sr. Network/Cloud Engineer**

**Responsibilities:**

* Experience in configuring and using PaaS offerings (like WebApp, Azure Database services, Azure Kubernetes, Azure Data Lake, etc).
* Extensively managed Network ACLs, EC2, and Security Groups in migrating traditional on-premises infrastructure to AWS cloud services which now hosts 20+ AWS services.
* Created monitors, alarms, and notifications for EC2 hosts using Cloud Watch.
* Configured AWS Identity Access Management (IAM) Group and users for improved login authentication.
* Experience with Big Data on GCP – Big Query, Pub/Sub, Data proc, Dataflow
* Study & implement of MPLS Traffic Engineering IP/MPLS Network.
* Designing & Configuration on MPLS L3VPN & L2VPN.
* Experience with Cisco ACI and Arista Cloud Vision on a POC. Knowledge of Spine leaf Architecture in Datacenter. Worked on EVPN, VXLAN, VTEPS, Bridge Domains, MP-BGP etc.
* Configuring OSPF Sham-link & Domain ID in MPLS Network.
* Troubleshooting the wireless data core networks, protocols, interfaces, and wireless operator's end-end network.
* Utilized Aruba Central's advanced analytics and insights to identify performance bottlenecks, implementing optimizations that resulted in improved network speed, and reliability.
* Implemented QoS strategies through Aruba Central to prioritize critical applications or services.
* Designed and implemented disaster recovery plans using Aruba Central's features to establish failover mechanisms and redundancy, ensuring minimal downtime during network disruption
* Working on deployment/configuration of LWAPs, WLC, WDS, and 802.11 wireless devices.
* Involved in the Design and troubleshooting of LTE, UMTS, and GPRS.
* Experience with deployments of various systems to Azure with Azure CLI, PowerShell, ARM Templates, and Terraform
* Hands-on experience writing TEM effective terraform scripts, Resource Templates based on Azure policies, and migrating Apps to the cloud
* Configuring IPV6 Static & Default Routing, RIPng, OSPFV3, EIGRP, IS-IS.
* RIP to OSPF migration at some sites & implementing OSPF stubs network at some sites.
* Creating & modification of ACL, Prefix list, Distribution list, Route map NAT (Static & Dynamic PAT)
* Implementing Policy-based routing (PBR), Route Filtering, Redistribution, and Summarization.
* Worked with Juniper T-Series, M-Series, MX-Series, J-Series Routers.
* Working knowledge of the UNIX and CLI-based commands to implement the networking tools.
* Configured and monitored Firewall logging, DMZ, and related security policies.
* Working on Aruba Wireless LAN Implementation for 11n Infrastructure across the Corporate Network.
* Involved in the configuration troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, and BGP v4.
* Configuration and troubleshooting various OSPF issues in an OSPF multi-area environment.
* Configuration of various BGP attributes such as Local Preference, MED, Extended Communities, Route-Reflector clusters, Route-maps, and route policy implementation.
* Configuration of Bluecoat SG9000 WAN acceleration appliances including WCCP, CIFS, and creating/updating overlays.
* IT experience as a system administrator and Python Developer with programming and frameworks.
* Experienced in developing web-based applications using Python, Django, and HTML.
* Exceptional ability to work independently with a team of Python coders.
* Implemented IDS/IPS on dedicated IDS/IPS 4260, software-based IOS-based IPS on Cisco 1921.
* Checkpoint and Cisco ASA firewall administration across global networks.
* Supported the team in the migration work of applications and websites from Cisco CSS Load Balancers to the F5 BigIP Load Balancers.
* Maintenance of Cisco ASA 5500 firewall for DCA site, adding new rules or changing existing access lists if necessary.
* Implementation of switching protocols like Spanning Tree Protocol STP in the network, VTP, VLANs, and configured Fast-Ethernet channel between switches.
* Configured Nexus 7010s and ASR9010s for BMI Byte Mobile Index /WIFI testing to simulate LTE call flow in Sprint's production environment with traffic flowing from a WIFI Access Point to ASR9k-N7k-BMI Server-F5 Load Balancer-N7k-ASR9k OIR outbound Internet Router VRF- Firewall-Internet.
* Successful execution of Fabric Path testing on N7k 6.0 2 code having full mesh connectivity with 7600 running RPVST protocol /ASR9K Routers running MST protocol in different VDCs Virtual Device Contexts with end-to-end reachability of hosts in the different VDCs.
* Performed evaluation and analysis of the environment for NSX deployment, including NSX manager, Distributed Firewall, and Distributed Logical Router.
* Configured and tested Verizon ARC BA850 Cradle Point as the turnkey networking solution for 4G/LTE failover.
* Addressed technical issues and questions regarding Cisco ISE including troubleshooting and feature changes and modifications.
* Configured Cisco ISE for Wireless and Wired 802.1x Authentication on Cisco Wireless LAN.

**Client: Apple,** **Leawood, KS Dec 2016 – Jun 2019**

**Role: Network Engineer**

**Responsibilities:**

* Configuration of VLANs on Cisco switches 3850, and 3650 and troubleshooting IP addressing issues, updating IOS images, and other hardware installations.
* Provided CSP2 Assistance Services, mainly focused on evaluating, defining, prioritizing, and creating software enhancements to the IBM Cloud Software and related products implemented to address the Confidential &T requirements for various aspects of Confidential &T's infrastructure in a public cloud environment.
* Implemented traffic filters using Standard and Extended access lists, distributor lists, and route maps.
* Installing and configuring VPNs for the clients (site to site) and installing high availability Big IP F5 LTM and GTM load balancers to provide uninterrupted service to customers.
* Gained strong experience and knowledge in investigating incidents related to firewalls and VPNs.
* Manage installations, configuration, and administration of Cisco equipment in the IT architecture of the organization.
* Gained advanced knowledge on multiple security technologies Anti-virus, malware, Firewalls, VPN, proxies, vulnerability, DLP.
* Installing & Configuring of DNS & DHCP server.
* Installing Fortinet firewalls.
* Installed and configured Virtual Center, controlled user access to the VMware infrastructure from the cloud provider and vCenter, deployed and managed virtual machines with vCenter and cloud providers such as; Service Mesh, IBM TSAM/TPM, v Cloud Director, Cloud Stack, OpenStack, Rackspace, and Amazon EC2/AWS.
* Handling domain controller, additional domain controller & mail servers.
* Troubleshooting the network problem in all branches.
* Taking mail backup, data backup, & tape drive.
* Coordinating with service providers.
* Troubleshooting hardware & OS problems.
* Maintaining OSPF, EIGRP, and static routing protocol on CISCO routers and catalyst switches
* Worked on assessment and the finalization of the detailed designs and provided a design document for the Implementation of Cisco ISE and the Migration of Wireless and TACACs to ISE.
* Review and analysis of emerging threats and vulnerabilities, risks, and business requirements for detection and remediation measures.
* Strong experience and knowledge in investigating incidents, remediation, tracking, and follow-up for incident closure with concerned teams.
* Worked on manual Penetration testing of client systems, web sites and discovered network vulnerabilities.
* Implemented 8x8 VOIP solutions on-site and ran a network diagnostics test and network assessment test.
* Configured network services equipment Riverbed accelerators in compliance with security policy.
* Worked on security policies of Juniper SRX and Palo Alto and policy clean-up of firewalls.
* Designed and configured LAN networks with Access layer switches such as Cisco 4510, distribution layer switches such as 6513, and a routed core.
* Worked on Citrix NetScaler Access Gateway and F5 load balancers for creating SSL Client-Server
* Set up TFTP server to maintain CISCO router configurations and CISCO images. Worked on network hardware and software upgrades.
* Configured HSRP, Spanning tree Root guard, BPDU guard, and STP/RSTP features.
* Administration of network devices holding various servers of Windows, Linux/Unix platforms (physical & virtual servers).
* Supported major access to all firewalls and protocols through AAA using the Cisco Secure Access Control Server (ACS). Design, Configuring, and troubleshooting F5 LTM load balancing.
* Configured & managed Security Devices that include Juniper (Net screen) Firewalls, F5 BigIP Load balancers, Blue Coat Proxies and Plug Proxies. Used pulse secure VPN secure login & single sign-in across the production environment.
* Worked in setting up Inter-VLAN routing, redistribution, access lists, and dynamic routing.
* Involved in configuring and implementing Composite Network models consisting of Cisco 2620 and, 1900 series routers and Cisco 2950, and 3500 Series switches.
* Implemented various Switch Port Security features as per the company’s policy.

**Client: Ford Motor Company,** **Dearborn, MI Jul 2014 – Nov 2016**

**Role: Network Engineer**

**Responsibilities:**

* Implementing new/changing existing data networks for various projects as per the requirement.
* Configuring ACL to allow only authorized users to access the servers.
* Participated in on-call support in troubleshooting the configuration and installation issues.
* Configure and install switches, create network IP ranges, VLANs, and network security.
* Implemented VLANS between different departments and connected them using trunk by keeping one VLAN under server mode and the rest falling under client modes.
* LAN/WAN level 3 support (diagnose and troubleshoot layer 1, 2, and 3 problems).
* Firewall Clustering and High Availability Services using Cluster XL on Check Point.
* Designed and built a prototype system to perform lightweight, real-time mapping of Internet paths between data centers and client hosts, using probabilistic databases and information theory.
* Performed network troubleshooting, second-level technical support, and tape backup operations.
* Manage the day-to-day log collection activities of source devices that send log data to ESEM SIEM RSA Envision.
* Performing troubleshooting for IOS-related bugs by analyzing history and related notes.
* Carrying out the documentation for tracking network issue symptoms and large-scale technical escalations.
* Managing the service request tickets within the troubleshooting phases, maintenance, upgrades, fixes, and patches, and providing all-around technical support.
* Installed and maintained routers and switches in various network configurations supported VLANs, QoS, VoIP, and advanced access lists.
* Responsible for the implementation, documentation, and day-to-day support of the Imperva Database Firewall.
* Upgradation of Proventil IBM IPS firmware and Palo Alto firewalls.
* Exposure to wildfire advanced malware detection using the IPS feature of Palo Alto.
* Successfully installed Palo Alto Next-Generation PA-3060, and PA-5060 firewalls to protect the Data Center with the use of the IPS feature.
* Experience with Websense filtering service for selectively filtering unwanted internet request traffic.
* Worked on checkpoint firewall SMART Event Intro module for generating monthly IPS reports.
* Worked on Data Center fabric migration process from legacy Catalyst 6513 switches to Nexus 7010 switches.
* Worked on Catalyst 3850, 3650, 3750, 4500, 6500, Nexus 5000 & 7000 series switches.
* Maintenance of all server’s network equipment with current stable firmware, IOS images, and access control lists.
* Responsible for helping the team troubleshoot, configure, and resolve the issues regarding F5.
* Support ongoing efforts in defining best practice policies for Juniper product applications used by Customers.
* Proactively perform corrective maintenance for the IP/MPLS network.
* Network layer tasks included configuration of IP Addressing using FLSM, and VLSM for all applications and servers throughout the company.
* Configured VTP to manage the VLAN database throughout the network for Inter-VLAN Routing.