**Venkat Reddy** 

**Network Specialist**

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**Summary**

An accomplished IT professional with over 8years of experience in technical operations management, eengineering, senior administration, design/analysis, project/change management, policies and procedures management and enterprise analysis/management of various network technologies for professional to global enterprise environments that includes routing, routing protocols, switching, security, firewalls, voice, wireless, data center technologies and enterprise monitoring/management tools.

**Experience/Accomplishments Highlights**

* Extensive knowledge and experience in technical operations management in a 24/7 mission critical high availability environment handling major technical responsibilities includes proactive network monitoring/analysis, major network deployments, as needed and scheduled change requests based on policies and procedures and escalated ticket resolution based on mandated SLA’s.
* Experienced in personnel management, maintain policies and procedures and network documentation including schematics, compliance and passing audits, vendor relations, contracts/licensing, corporate reporting, budgeting, and inventory management.
* Technical project management experience includes development and implementation of complex, mission critical, high impact technologies to meet operational needs and business goals, within compliance, schedule, and budgetary requirements.
* Major projects/activities accomplished including development/implementation of LAN/WAN design for site implementations of a multi-state distribution center and local QoS configurations for optimizing voice/video/data.
* Special accomplishments include improving operational uptime and performance while reducing network operations mission critical tickets and reducing network operations costs through more efficient use of technology and personnel.
* Experience in writing scripts using python for automating day -day tasks.
* Member of a global team assisting a diverse range of businesses in managing their Fortinet firewalls using both a CLI and GUI interface
* Experience in configuring, implementing and troubleshooting F5 load balancer in the enterprise network
* Experience in network and server virtualization (Cisco CSR1Kv, Fortinet virtual firewall appliance, VMware ESXi/vSwitch).
* Hands-on Experience of Python Scripting, Automation using Python.
* Experienced in implementing a proactive enterprise monitoring/management system and handling operational and compliance and security audits, inventory management, performance and security management and analysis, etc.
* Involved in troubleshooting network traffic and its diagnosis using tools like ping, traceroute, Wireshark, TCP dump and Linux operating system servers.
* Implemented many number of security policy rules and NAT policy rules on Palo Alto, created Zones,
* Knowledge on Cisco Meraki, Azure.
* Palo Alto Firewall interface, Palo Alto IDS and VLAN.
* Experience with Network Automation using Python.
* Proficient in Cisco IOS for configuration & troubleshooting of routing protocols: MP-BGP, OSPF, iBGP,
* EIGRP, RIP, BGP, V4, V6, MPLS.
* Experience with convert Checkpoint VPN rules over to the Cisco ASA solution.
* Responsible for Check Point and Cisco ASA firewall administration across global networks.
* Performing network monitoring and troubleshooting, using various automations tools like Wireshark, Solar winds, Prime, Netbrain, Netcool etc.
* 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.

**Technical/Professional Certifications & Skills**

* CCNP Route Certified
* MCSE 70-410, 411 Certified
* CCNA (Cisco Certified Network Associate)
* Cisco Network Academy Certified

**Technical Skills Detail**

Microsoft, Kali Linux, Backtrack 5, Hardware

Computer Skills, Python, HTML, CSS, Java, C, C++, JavaScript, SQL

Solarwinds, Whatsup gold, Nagios, OpenStack/VMWare installation

WAN, MPLS

Network Engineering & Windows Administration

Directory (2 years), Routers (4 years), Switches (4 years), DNS (4 years), DHCP (4 years), ACLS (4

years), Firewalls (2 years), Load Balancers (1 year), Routing Protocols (4 years), Networking (4 years), IP

address&Subnetting (4 years), Active Directory (2 Years), Juniper (2 Years), RADIUS AAA, Cisco Nexus fabric switch management

LAN

VPN, NAT, PAT

Switching

Voice/VoIP Administration

Routing Protocols like BGP, OSPF, EIGRP, RIP, VRRP

Information Systems Security

Excellent Wireshark Skills with in-depth packet analysis, tcpdump, TCPView packet analysis

Wireless sensor network skills

Risk Assessment report skills based on NIST 800-53, PCI DSS

Firewalls like Cisco ASA 5520, Palo Alto PA-200, Checkpoint, CiscoMeraki, Azure, Azure Stack, Cisco Nexus

**Summary of Professional Experience**

**Microsoft, Redmond, WA Network Specialist Dec. 2017-Present**

**People Tech Group, Bellevue, WA Sr. Network Engineer June 2017 – Nov 2017**

**University of Illinois – Springfield, Illinois, USA Network Admin (Volunteer) Jan. 2016 – May 2017**

**Colruyt Group – Hyderabad, IndiaAssociate Network Engineer April 2015 – Dec. 2015**

**United Telecoms Limited - Ranchi, Jharkhand, India Intern & Network Engineer March 2012 – April 2015**

**Professional Experience Detail**

**Microsoft, Redmond, WANetwork Engineer/Network SpecialistDec. 2017-Present**

**Company Overview –** Microsoft Corporation is an American multinational technology company with headquarters in Redmond, Washington. It develops, manufactures, licenses, supports and sells computer software, consumer electronics, personal computers, and services.

**Responsibilities:**

* Involved in configuring VPC (Virtual Port Channel), VDC (Virtual Device Context) in Cisco Catalyst switches.
* Automating day-day tasks using Python, PowerShell, JSON.
* Provide the Third level support for possible resolve network issues to Network support team.
* Good knowledge on Azure and Azure Stack.
* Migration of backup infrastructure from Netbackup to Networker, backup monitor and reporting with EMC DPA.
* Worked extensively on Cisco Nexus 3064 and 3048 switches.
* Replaced current Cisco 4948 switches with Cisco Nexus 3064 and 3048.
* Dealt with Cisco Nexus 3000 , 5000 and 7000 series.
* Experience with Virtual hosting technologies (e.g. VMWare, OPENSTACK and KVM)
* Analyzed packets using Wireshark.
* Good Wireshark knowledge.
* Worked on F5 Local Traffic managers (LTM), Global traffic manager (GTM) of series 8900, 6400, 6800, 3400, 5100, 3600.
* Perform installation and management of fiber and copper structure cabling as directed by the service delivery coordinator
* Client upgrades to latest versions and patching NetBackup servers
* Coordinating with various teams to ensure NetBackup functions as designed across firewalls, domains and server configurations.
* Level 3-4 Support and troubleshooting for EMC Networker 9..x.x.x and Avamar backup app
* Extensive documentation of the entire NetBackup Architecture.
* Design, implementation, and proficiency in configuring various Fortinet firewalls Fortigate-620C,60B, 60D, Fortiwifi 60D.
* Capture packets from a ethernet interface using tcpdump
* Configured VPN connections and trained end users to use the Cisco WebVPN to remotely connect.
* Monitor approximately 4,500 network nodes in Solarwinds and investigate alarms for network issues related to circuit utilization, CPU utilization, Hardware failures, loss of connectivity on carrier circuits, trunks and access interfaces.
* Resolve communication issues between network nodes and Solarwinds pollers via netflow and snmp configurations.
* Set up Solarwinds dependencies for alert suppression of downstream nodes in case of site outage.
* Day-Day tasks involves working on Azure.
* TSM and Veeam and EMC Networker 8.x and 9.x, EMC Avamar 7.x.x and Commvault backup solutions administration
* Implementing and configuring F5 LTM's for VIP's and Virtual servers as per application and business requirements
* Implemented Cisco Anyconnect SSL-VPN solution leveraging Radius certificates, and LDAP for dual-factor authentication on a Cisco
* Designed and Implemented Networker 9 integrated with AWS.
* Testing and implementation of the IBM QRadar SIEM system, and integrated our email security system that prevented 101 million targeted email messages to our customers using DKIM, SPF, and DMARC technology.
* Implement and edit Alerts on Solarwinds Alert Manager to notify proper teams of new issues that occur on network.
* Manage Solarwinds employee accounts, access, views, and mentor helpdesk team to advise of severity of alarms.
* Design custom properties to categorize monitored equipment based on location, device type, support group, and importance.
* Use Solarwinds Network Configuration Manager (NCM) to perform weekly backups, execute bulk configurations, and verify configuration changes by team members.
* Use Solarwinds Report Writer along with NCM to query for Utilization and Packet loss, inventory, configuration changes, then email reports to designated recipients daily, weekly, or when requested.
* Plan and orchestrate full Solarwinds Platform updates including system checks, Poller backups, and communication between teams.
* Supported Cisco WebVPN remote access issues.
* Enhanced company email security by setting up: SPF, DKIM, DMARC, and created inbound email filtering system (Barracuda EC2 Firewall) to block spam and malwares
* Experience installing, configuring, and maintaining different modules associated with SolarWinds, including NCM, WPM, VIM, NTA, UDT, SRM, and SAM.
* Redesigned the backup environment to achieve 99% success rate, from prior 60%.   
  Eliminated tape libraries and consolidated remote office backups to a central location. Worked with various teams, delegated and assigned tasks allowing us to smoothly migrate over 1000 clients from physical Networker 7.6 to virtual Networker 9.0
* Implement the Wireless network with Cisco WLC, WAPs and configure them as per the country standard.
* Documentation for the Team with standard network design and update them as per the new implementation.
* Involved in the Implementation of Layer 2 Features (LAN) VLANs, VTP, Spanning Tree (STP), Trunking (dot1q and ISL) and Ether channel across the distribution/access layer switches.
* Implementing NAC on various Cisco devices and profiling them through ISE servers.
* Implementing layer 3 features IP Configuration, Authentication, Route Summarization, OSPF Special Areas, Route Filtering and IGP Routing Protocols.
* Troubleshoot VPN issues using Cisco anyconnect. Using active directory for password and account look up.
* Configured Catalyst devices as an HA pair for redundancy and Performed Cisco IOS, IOS-XE, NX-OS code upgrades across multiple different branches.
* Proficient using the F5 based profiles, monitors, VIP's, pools, pool members, iRules for virtual IP's
* Working experience on Pa 5020, Pa 3020 series Palo Alto firewalls and Panorama.
* Experience with setting up VSS on Cisco 4500-X as a distribution switches with HA and redundancy.
* Work with the team lead to perform large topology upgrade or refresh and documented as per organization standard.
* Responsible for Check Point and Cisco ASA firewall administration across global networks.
* Involved in the configuration of 2900 and 4400 routers with OSPF and peer with BGP to service providers for redundancy across all the branches.
* Strong hands on experience in installing, troubleshooting, configuring of Cisco ASR, 7200, 3900, 3800, 2900, 2800, and 1800 series Routers, Cisco Catalyst 6500, 4500, 3750, 2950 and 3500XL series switches.
* Design and implement OSPF Areas for reliable Access Distribution and for Core IP Routing.
* Responsible for new site/property setup, migration of existing point to point circuits to an MPLS based solution.
* Efficient at use of Microsoft VISIO/Office as technical documentation and presentation tools.
* Involved in configuring Riverbed and applying rules to pass servers and switches through firewall.
* Configuring various advanced features (Profiles, monitors, I Rules, Redundancy, SSL Termination, Persistence, SNATs, HA on F5 BIGIP appliances SSL termination and initiation, Persistence, Digital Certificates).
* Analyzes detected vulnerabilities and vendor reported vulnerabilities for applicability, severity, and solutions.
* Responsible for the configuration of Virtual Servers, Nodes, and load balancing Pools and configuring load balancing algorithms.

**PeopleTech Group, Bellevue, WA Sr. Network Engineer June. 2017- Nov. 2017**

**Company Overview –** Microsoft Corporation is an American multinational technology company with headquarters in Redmond, Washington. It develops, manufactures, licenses, supports and sells computer software, consumer electronics, personal computers, and services.

**Responsibilities:**

* Wrote python scripts for automating day-day tasks.
* Good knowledge on Python.
* Managed openstack deployed as infrastructure-as-a-service (IaaS), whereby virtual servers and other resources are made available.
* Deployed F5 Enterprise manager of 4000 series for the all cluster devices over the network for easier management of configurations like SSL certificates, disable and enable of nodes states.
* Tested, designed and implemented Cisco WEBVPN
* Very good knowledge on Azure architecture.
* Installed both fiber and copper structure and backbone cabling
* Gave out new plans to migrate the current network to Azure.
* Worked on Hybrid concepts of Azure and Azure Stack.
* Involved in complete LAN, WAN development (including IP address planning, designing, installation, configuration, testing, maintenance etc.)
* Install and setup Cisco AnyConnect VPN Client.
* Manage over large network devices; including over 20 FortinetFortigate firewalls from 200b to 3040b's, Cisco ASA and FWSM's, Nokia Checkpoints, Juniper Netscreens, Cisco 3560-6500 switches, Nexus 5k's and 7k's, Cisco ASR 1000's, multiple Cisco UCS's and Fabric Interconnects, and Juniper SA 4500 SSL VPN's.
* Experience in Splunk/Dynatrace/Introscope
* Experience with network based F5 Load balancers with software module GTM & Checkpoint
* Involved in troubleshooting IP addressing issues and Updating IOS images
* Created a backup and recovery policy for software application and verified peripherals are working properly.
* Monitor performance of network and servers to identify potential problems
* Resolve low and medium severity Remedy incidents related to Cisco 7200/ 6500/ 3900/ 3800/ 3750 and Brocade equipment that alerted in Solarwinds
* Assisted with the updating of MX records, SPF, DKIM and DMARC records. Assisted with the creation of web and email data protection policies.
* Networker environment consists of 10k plus clients over 6 networker server
* Networker server 8.x in place migration to Networker 9.2.x
* Tape library move from Networker 8.x to 9.2.x
* Vmware (VMDK ) backup move to 9.2.x
* Networker server virtualization
* Automate daily operation thru scripting if needed
* Evaluate/Survey existing environment - provide findings and make recommendations
* Fix the obvious and critical issues to get the environment up-and-running
* Scope the work needed to prepare for Phase II
* Migrate Epic backup environment to Networker 9.1.1.4
* Configuring and troubleshooting CISCO router models like 7200, 3800, 3600, 2800, 2600, 2500, 1800 series.
* Involved in Switching Technology Administration including creating and managing VLANS's, Trunking, STP, Inter Vlan routing, LAN security etc.
* Use Solarwinds Network Configuration Manager (NCM) to perform weekly backups, execute bulk configurations, and verify configuration changes by team members.
* Configured switches with port security
* Experience with connectivity of Cisco Networking Equipment with F5 Load Balancer
* Working with Microsoft Windows server 2012.
* Conducted Projects and Seminars at several colleges and institutes on Ethical Hacking, Networking and Cisco routing & Switching.
* Performed configuration of OSPF, BGP, DHCP Profile, HSRP, IPV6, Bundle Ethernet implementation on Cisco Devices.
* Migrating oracle from NETBACKUP to Networker in DATADOMAIN environment
* Implement and configured GLBP (on core switching and also for VPN redundancy), VRRP on Cisco devices in a different location of office on the switched network and managing the entire multilayer switched network.
* Read and analyze packet captures using Sniffer tools.
* Automated the centralized detection of security vulnerabilities with scripts for Vulnerability assessment tools like Qualys guard and Splunk.
* Experience with GTM F5 component to provide high availability with providing services across data centers.
* Working on SIEM, Threat and Vulnerability management.
* Work on multiple Port open requests for multiple business units in the organization on WLC.
* Experience Configuring Vlan’s, VTP’s, enabling trunks between switches. Configured Trunk groups, ether channels, and Spanning tree.
* Experience with Using LTM F5 component to provide 24“7 access to applications
* Involved in the Support of network security and network devices such as routers, switches and wireless access points.
* Configured WLC-5500 and IOS XE, Cisco IOS Platforms in 3600, 3700, 3800 wireless access points across branches.
* Ensure problems are satisfactorily resolved in a timely manner with focus on providing a high level of support for all Levels.

**University of Illinois–Springfield, Illinois, USA**

**Network Admin** **January 2016 to May 2017**

**Responsibilities:**

* Regular maintenance and troubleshooting of all network related issues to maintain 24/7 uptime.
* Maintained Routers,Switches.
* Regular monitoring of all assets with the help of solarwinds tools.
* Designing,Evaluating, analyzing, administering and maintaining voice, and data systems.
* Designed and implemented VLANs, ISL & 802.1Q VLAN Trunking, VTP, STP and RSTP, Inter-VLAN
* Routing for campus LAN networks and enterprise Networks.
* Extensive Working Experience in Advanced TCP/IP Management, IP Addressing &Subnetting VLSM,
* Route Summarization, Route Redistribution and NAT/PAT

**Network Solutions Colruyt Group - Hyderabad, Telangana,India**

**Associate Network engineer** **April 2015 to Dec. 2015**

**Company Overview –** The teams within Infrastructure & Operations (I&O) at Colruyt Hyderabad, in collaboration with the peer teams in Belgium, provides the underlying platforms and solutions for the critical software applications that enables the business functions of the Colruyt Group Companies. In addition, 24/7 monitoring of Infrastructure and Applications for entire group of Colruyt is carried out from a remote operations facility to ensure a stable enterprise IT environment.

**Responsibilities:**

* Acted as NOC engineer for all colruyt group stores across Belgium,France &Luxemborg.
* Designing,Evaluating, analyzing, administering and maintaining voice, and data systems.
* Maintaining Network Hygeine to provide 24/7 service to end user.
* Configuring Communication Server, setting up Security using PIX, which includes Configuring AAA server.
* Install and configure Routers, Bridges, Terminal Servers and CSU/DSU's to support WAN links.
* Systems monitoring and maintenance, resolution and troubleshooting using Infoblox.
* Strong knowledge of various routing protocols including RIP, IGRP, EIGRP, OSPF, BGP & IS-IS.
* Implementation of TCP/IP & related Services-DHCP/DNS/HOSTS/SMTP.
* Configured IP Access Control Lists, Deployed GRE Tunnel.
* Successful change executed on Nexus 7K, 5K & 2Ks to support redundant platform.
* Implemented Windows 2000 Active directory, DNS and Internet Information Servers.
* Configured BGPv4, BGP Path Attributes, and Route Reflectors for an ISP transit network.
* Implemented cisco ASA between two sites.
* Security Protocols: IKE, IPSEC, MD5, SHA, RSA, DES, 3DES, ESP, SSL, SSH, Radius, Tacacs+.
* Configured site-to-site VPN and client-to-site VPN on checkpoint firewall and Cisco ASA.
* Designed, Configured and successfully implemented Port Security for Source based MAC Filtering, HSRP, VRRP, GLBP, and Ether Channel for network redundancy and load-balancing.

**United Telecoms Limited - Ranchi, Jharkhand, India**

**Network Engineer March 2011 to April 2015**

**Company Overview –** UTL Group of Companies are engaged in Design, Manufacturing, Software development in the areas of telecommunications (all sectors - wired, wireless & fiber optic), networking, systems integration, software solutions, Contract R&D, PCB manufacturing, microelectronics design, precision engineering plastics tooling and moulding, electrical stampings and laminations, die-casting, mechanical fabrication etc. UTL? s greatest asset is its highly qualified and experienced manpower who have helped the company implement complex and multi-disciplinary projects within given time frames. UTL has implemented quite a few large Projects amply demonstrating its Project Management Capabilities.

**Responsibilities:**

* Performed numerous tasks related to maintaining network hygiene.
* Provided NOC support for all blocks thatare connected to various districts that are connected to Backbone Router (7600) through leased lines.
* Day-Day tasks involved maintaining and troubleshooting all routers and switches and other voip phones.
* Monitors the operations of telecommunications systems and services of vendors
* Manage office network with Cisco devices with network devices including 2500 and 3600 series routers
* and 3500, 2900, 1900 series switches.
* Hands on Experience in Inter-Vlan routing, redistribution, access-lists.
* Log messages using Syslog server and analyze the issues related to high CPU utilization and parameters
* that can degrade performance of the network.
* Experience on Cisco IOS and Upgrading Cisco IOS using TFTP server.
* Designed and implemented Spanning-Tree Feature - Port Fast, Backbone Fast, Uplink Fast Loop Guards,
* BPDU Guards, and Root Guard's.
* Worked on various Sniffing tools like Ethereal, Packet Sniffer,Wireshark
* Backups of Cisco router configuration files to a TFTP server.
* Involved in SNMP Network management.
* Provided 24/7 service for all government offices that are interconnected.