



Surendra  
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**Professional Summary:**

Cisco Certified Engineer with extensive experience testing, troubleshooting, implementing, optimizing, and maintaining enterprise data networks and service provider systems.

- Extensive experience in **Cisco firewall administration** across global networks including the Implementation, Configuration and Support of **Checkpoint** (NGX R65, R70 and R71), **Cisco Firewalls (ASA 5505, 5506-X, 5585)**, Palo Alto Network Firewalls.
- Hands-on experience in L2/L3 switches, firewalls and **VPN's**.
- Skilled providing scalable, supportable military grade TCP/IP security solutions along with expert TCP/IP network designs that enable business functionality.
- Expertise deploying and managing of CPI - **Cisco Prime Infrastructure**.
- Deep understanding of **WLAN technologies**, network management, and security, including 802.11 b/g/n/ac standards and industry best practices.
- Skilled implementing high-density Cisco Wi-Fi solutions.
- Fundamental knowledge of security protocols and authentication (WPA2, EAP-TLS, 802.1x, AAA) and hands-on experience with RADIUS infrastructure (ISE).
- Adept deploying **QoS** in LAN/WLAN environments in support of multimedia and voice applications.
- Hands-on experience in the **configuration of IP Phone & administration of Cisco Call Manager and Cisco Unity messaging server using CISCO 7800 series server**.
- Hands-on experience with **troubleshooting** and site-survey tools including Wireshark, Air Magnet.
- Well-versed in the Administration, Engineering, and Support for technologies including proficiency in **LAN/WAN, routing, switching, security, application load balancing** and wireless.
- Policy development and planning / programming on IT Security, Network Support and Administration.
- Highly skilled in deployment, data security and troubleshooting of the applications using AWS Services.
- Expertise building and enhancing best in class endpoint application for Windows (ZApp) to securely forward traffic to ZScaler Cloud.
- Experience in working with **Cisco Nexus Switches** and Virtual Port Channel configuration.
- Experience with **Checkpoint VSX, including virtual systems, routers and switches**.
- Maintaining Disaster recovery and backups of configurations for quick resolving of issues.
- Proficient in DNS/DFS/DHCP/WINS Standardizations and Implementations.
- Configuration of Network and Security devices such as **Cisco routers and switches (Cisco 7600/3500/Nexus 7K/5K), Firewall (Checkpoint R75/Gaia and Cisco FWSM), F5 Load Balancers**.
- Expertise in installing, configuring and maintaining **Cisco Nexus Routers (5000,7000,9000)**.

<b>LAN Technologies</b>	Ethernet, Fast Ethernet, Gigabit, <b>VLAN</b> , VTP, STP, RSTP, PVST, Workgroup, Domain, HSRP
<b>WAN Technologies</b>	Frame Relay, ISDN, PPP, HDLC, ATM, MPLS, Leased Lines, Cable modem

<b>Network Hardware</b>	<b>Cisco ACE, Load-balancers (Cisco, F5),</b> Cat OS, and Cisco IOS 11.x, 12.x,15.x
<b>Protocols/Standards</b>	RIP, RIP V2, EIGRP, OSPF, IS-IS, <b>BGP</b> , DNS, SMTP, SNMP, FTP, LDP/TDP, WLAN 802.11/802.11e, WEP and POP3, CDMA
<b>Security &amp; VPN</b>	Pix 500 Firewall, ASA 5585 Firewall, AIP SSM, <b>CSC SSM, Cisco CSM,</b> ACL-Access Control List, IPS/IDS, NAT, PAT, Cisco ACS, Juniper <b>Network Connect VPN, Cisco VPN,</b> Juniper Net Screen Firewall, Cisco Clean Access NAC, Cisco ISE, Juniper Unified Access Control
<b>Network Management</b>	Cisco works 2000, MRTG 2.13, SNMP, Net Disco, Nagios, Cacti, Cisco Prime
<b>Authentication</b>	RADIUS, TACACS+, Digital certificates
<b>Network Programming</b>	C, HTML, Bash Scripting, Perl
<b>Network Tools</b>	Wireshark, Microsoft SCCM, Opnet, Nmap, PRTG Packet Sniffer, MS Visio, MS Office, Ethereal, AirMagnet, and Packet Tracer
<b>Environment</b>	<b>CISCO Routers</b> 1700, 1800, 2500, 2600, 2800, 3600, 3800, 7200, 7600, Cisco Nexus 7000, 9000, GSR 12000 Juniper Routers: M10, M320, J2350 F5 BIG-IP LTM / GTM, CISCO Switches 1900, 2950, 2950, 2960G. CISCO Campus Switches 3550XL, 4948 Core Catalyst 4503, 4507 RE, Catalyst 6500 series, Juniper Switches E, EX series and Nortel Switches
<b>Wireless &amp; Wi-Fi</b>	Canopy Wireless Device (point to point/point to multipoint), DLink wireless (point to point), DLink Access Point, CISCO 3500, 2602,2702, 1532e,1200 series Access Points, Cisco Wireless Controllers, Cisco NCS and Linksys wireless/Wi-Fi Router
<b>Contact Management</b>	Cisco ICM/UCCE, <b>Cisco Call Manager and Cisco Unity messaging server</b>

**Education/Certifications:**

- MS in Electrical & Computer Engineering from Southern Illinois University (SIU), Carbondale, IL
- BS in Electronics & Communications Engineering, Jawaharlal Nehru Technological University, India
- CCNA, CCNP (R&S) and CCSA certified

**Professional Experience:**

<b>Client: NYC School Construction Authority, New York, NY</b>	<b>Feb 2019 – Feb 2020</b>
Title: Cisco Engineer	

**Responsibilities:**

- Maintenance and support of existing Cisco network infrastructure, consisting of Cisco Core and Access Switches, LAN/WAN/VPN routers, Wi-Fi controller and MDS fiber switches.
- Managing WAN/Routing/ACLs/Policies and VLANs
- Monitoring LAN/WAN network traffic actively, and providing management with recommendations for upgrades and maintenance to ensure optimal network performance.
- Maintenance and support of existing Cisco VoIP infrastructure, consisting of Cisco Call Manager and Cisco VoIP telephones.
- Maintenance and support of existing Checkpoint Firewall appliances.
- Creation and maintenance of network design, flow diagram and security plan.
- Enforcement and adherence to SCA IT policies and procedures.
- Efficient management of daily work queue.

<b>Client: Atlantic Health System, Morristown, NJ</b>	<b>Apr 2016 –</b>
Title: Network Engineer	

**Responsibilities:**

- Participated in design and implementation of **Data center migration**.
- Responsible for Deploying and decommission of **VLANS** on core ASR 9K, Nexus 7K, 6K and its downstream devices.
- Managed DHCP, DNS and IP address thru Infoblox, and Admin for Internet sites access thru Zscaler.
- Performed Azure API Management, Security, Cloud-to-Cloud Integration (Public, Private)
- Worked as Cloud Administrator on Microsoft Azure, involved in configuring virtual machines, storage accounts, resource groups.
- Managed Amazon Web Services (AWS) infrastructure with automation and orchestration tools such as Chef.
- Responsible for **upgrade and configuration of Cisco CUCM Call Manager**.
- Handled AWS services like VPC, EC2, S3, ELB, Auto Scaling Groups (ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.
- Created multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
- Maintained devices using monitoring tool Nagios and resolving issues effectively.
- Performed OSPF, BGP, DHCP Profile, HSRP, IPV6, Bundle Ethernet implementation on ASR 9K redundant pair.
- Handled **Cisco ISE administration**, including implementation for projects, migration from ACS and responding to application related issues.
- Managed CISCO ISE, ACS Change administration, and writing and implementing client sponsored or required changes.
- Maintained change management and incident management policies.
- Utilized Wireshark, Iperf, Wifi Scanner and Air magnet for troubleshooting wireless issues.
- Worked with customers and resolving issues for customer satisfaction.
- Configured CIDR IP RIP, PPP, BGP, MPLS and OSPF routing.
- Involved in the activity of **DATA-Center migration** of regular Cisco catalyst switches with the new Nexus2148, 2224T, 5548, 6018, 7010 using F3/M3 line-cards with 10GE & 40GE interfaces.
- Handled switch replacement with 2960s switches for users as demanded.
- Deployed Cisco Nexus switches as part of Data Center fabric remediation/refresh project and implemented features like FEX Links, VPC and VDC.
- Built Logical design and Implementation of Wireless Solution.
- Involved in the configuration and troubleshooting of routing protocols: MP-BGP, OSPF, LDP, **EIGRP, RIP, BGP v4**. Configured IP access filter policies.
- Developed Cisco ASA 5500(5510/5540) Series, and responsible for converting PIX rules over to the Cisco ASA solution.
- Configured and maintained wireless throughout the organizations including WLC's (5508) and LWAP's – 2502i, 2602i, 3502i and 1532e.
- **Supported EIGRP and BGP** based on the network by resolving level 2 & 3 problems of internal teams & external customers of all locations
- Involved in Configuration of Access lists (ACL) on ASA firewall for the proper network routing for the B2B network connectivity.
- Performed Break Fix support through driving to different buildings, identifying the root cause of the hardware issues with switches, routers.
- Designed implementation plan and operational support of routing/switching protocols in complex environments including **BGP, OSPF, EIGRP**, Spanning Tree, 802.1q, etc.
- Responsible for configuring, upgrading and verifying the NX-OS operation system.

**Environment:**

Cisco 2948/3560/4500/3560/3750/3550/3500/2960 6500 switches and Cisco 3640/12000 /7200/3845/3600/2800 routers, Cisco Nexus 7K/5K, Cisco ASA 500, **Checkpoint**, windows server 2003/2008: F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, VPN, HSRP, **Cisco Call Manager**

<p><b>Client: Southern Illinois University, Carbondale, IL</b>          Title: Network Security Engineer</p>	<p><b>Aug 2014 – Jan 2016</b></p>
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**Responsibilities:**

- Implemented **LAN/WAN utilizing Cisco** VXR Series, GSR Series Routers (**EIGRP, OSPF, IGMP**).
- Responsible for ATM/Frame Relay implementation between data centers utilizing **Cisco routers & switches**.
- Upgraded and administered **CISCO IOS** (11.x & 12.x) on routers (2500, 4700, 7206).
- Involved in the configuration of interfaces for DS1, DS3, T3, T1, Ethernet & DSL using NAT, Access Lists, RIP, OSPF.
- Involved in troubleshooting using various command line tools on CISCO routers and network.
- Configured and maintained Cisco ASA, Pix firewalls and **Check Point firewalls**.
- Planned and implemented various security projects including Intrusion Detection Systems deployment & network monitoring along with CISCO CSA deployments to provide end point protection.
- Configured and maintained Cisco Clean Access NAC for approximately 5000 users.
- Implemented Cisco Secure Access Control Server (ACS) for TACACS+/ Radius on Linux (Red HAT) and Windows platforms.
- Configured and maintained Juniper M320 Edge routers.
- Installed, designed and supported Cisco wireless LWAPP environment, supporting both 802.11n (2.4GHz) and 802.11b/g (2.4GHz) environments.
- Installed Cisco AIR 1242 access points.
- Upgraded Cisco SSL VPN ASA5500 to Juniper SSL **VPN** 6500 to support 64-bit machines.
- **Responsible for configuration of IP Phone & administration of Cisco Call Manager and Cisco Unity messaging server using CISCO 7800 series server.**
- Installed and configured Serial Link, Frame Relay and ISDN.
- **Maintained complex LAN/WAN networks** with several **VLANS** and provided support for routing protocols.
- Involved in console and remote configuration of Ethernet/serial interfaces, implementation of RIP and IGRP routing protocols, authoring access lists, configuring VLANs, setting up Frame Relay and PPP/CHAP authentication, initiating Telnet sessions, and implementing password security.

**Environment:**

Cisco Routers Series: 2600,2800,3800,4000, 7800 12010, 12404. Cisco Switches Series: 1900, 2900, 3500, 3700, 4500, 6500, Juniper Routers: J series, M series routers, Cisco ASA Firewall: VPN 5500 series, Juniper ASA Firewall VPN: 6500 series, **Cisco Call Manager and Cisco Unity messaging server using CISCO 7800 series server**

**Client: New York Life, Lebanon, NJ**  
Title: Network Design Engineer

**Apr 2013 – July 2014**

**Responsibilities:**

- Involved in daily scheduling, firewall policy provisioning, and working with users to identify **connectivity related issues and troubleshoot** using both Smart Utilities and CLI.
- Managed and administered Juniper SRX and **Checkpoint Firewalls** at various zones including DMZ, Extranet (Various Business Partners) and ASZ and internal.
- Managed Juniper Firewall Policy using NSM and Screen OS CLI.
- Responsible for **troubleshooting Firewall Connectivity** related issues using Smart view tracker on **Checkpoint**, NSM Log viewer for Juniper Firewalls.
- **Configured and administered Cisco ASA Firewalls** (5585, 5550, and 5540) and use command line CLI, Cisco CSM, ASDM for day-to-day administration.
- Configured Active/Standby and Active/Active HA on Cisco ASA Firewalls.
- Experienced on ASA firewall upgrades to 9.x.
- Configured Panorama web-based management for multiple firewalls.
- Installed, designed & supported Cisco wireless LWAPP environment, 802.11n (2.4GHz), and 802.11b/g (2.4GHz) environments.
- Configured and maintained **NCS Prime 2.0 infrastructure**.
- Managed the flow of traffic through the Check Point Security gateway cluster and troubleshoot connectivity issues using advanced troubleshooting from Command Line Utilities.

- Involved in troubleshooting connectivity issues through Blue Coat and wrote and edited web policies.
- **Administered Big IP F5 LTM** for all Local Load balancing and use GTM for load balancing across Data Centers.
- Responsible for FWSM configurations in single/multiple context with routed and transparent modes.
- Supported Data Center Migration Project involving physical re-locations.
- 24 x7 on call support and customer support.

**Environment:**

Cisco Routers Series: 2600, 2800, 3600, PIX Firewall, Cisco Switches Series: 1900, 2900, and 3500, Big IP F5, **NCS Prime 2.0 infrastructure**

<b>Client: Inovies Consulting Pvt Ltd, Hyderabad, India</b>	<b>Aug 2012 - Mar 2013</b>
Title: Network Engineer	

**Responsibilities:**

- Configured Static, **IGRP, EIGRP, and OSPF** Routing Protocols on **Cisco** 1600, 2600, 2800, 3600, 7300 series Routers.
- Developed and installed software applications, anti-viruses, drivers and security software on user devices.
- Maintained desktop, laptop and peripheral equipment.
- Performed hardware and software diagnostics, fault isolation and coordinate repairs and/or replacement of faulty equipment.
- Designed network and created physical and logical network layout diagrams.
- Authored and maintained technical documents describing implemented technologies and architecture.
- Provided consultation services to clients for **installing and configuring Cisco routers and switches**.
- Configured Site-to-Site IPsec **VPN tunnels** to peers with different clients and each client had different specifications of Phase 1 and Phase 2 policies using Cisco ASA 5500 series firewalls.
- Configured VLAN's, Private **VLAN's**.
- **Configured various LAN switches** such as CISCO CAT 2900, 3550, 4500, 6509 switches.
- Responsible for the **configuration and troubleshooting of EIGRP, OSPF, BGP**.
- Designed OSPF areas for reliable Access Distribution and for Core IP Routing.
- Utilized TCP/IP tools like TELNET for remote login to the routers and SSH for secure login.

**Environment:**

**Cisco Routers** ASR1002X/3945/3845/2800/3600, **Load Balancer (BIG-IP)**, Cisco ASA Firewalls, STP, VLAN, VTP, VPN, NAT, OSPF, BGP, EIGRP

<b>Client: Serveen Software Systems (P) Ltd, Hyderabad, India</b>	<b>Jan 2011 – July 2012</b>
Title: Network Engineer	

**Responsibilities:**

- Operated **LAN/WAN including router & switch configurations/Access lists**.
- Maintained router and switch configurations and updated configurations depending on corporate requirements and documentation.
- Insured current documentation was kept on **LAN/WAN configurations**, frame-relay and point-to-point circuits, along with circuit IDs, and DLCIs for all of Sequence circuits worldwide.
- Drew and updated Visio Drawings for reference use.
- Managed DNS & DHCP including HQ and field office DNS.
- Monitored all network circuits and specific HQ hosts through CNS LAN/WAN monitoring/Vendor Contact.
- Created spreadsheets for all outages, giving start and end times, their duration and cause.
- Responsible for taking care of RAS queue as backup.
- Made physical changes to routers, switches, DSU/CSUs in order to increase performance.

**Environment:**

**Cisco Routers ASR1002X/3945/3845/2800/3600, Load Balancer (BIG-IP), Cisco ASA Firewalls, STP, VLAN, VTP, VPN, NAT, OSPF, BGP, EIGRP**