

Deepali

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Professional Summary:

- Around 8+ years of experience in IP Network Design, Network Integration, deployment and troubleshooting.
- Designing and deploying EIGRP, OSPF, BGP, MPLS-VPN protocols and routing technologies for connecting data center to remote locations.
- Working closely with Data center management to analyze the **data center** sites for cabling requirements of various
- Strong hands-on experience on **PIX Firewalls, Palo alto, ASA (5540/5550)** Firewalls. Implemented Security Policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS).
- Experienced in **Palo Alto** Firewalls, Juniper Firewalls, Check point firewalls, Fortinet Firewalls, Cisco WSA/CWS, Cisco ASA, SSL VPN, Cisco **Nexus**, Cisco ACS, Cisco ISE and IPS.
- Strong hands-on experience on **Palo Alto (5060, 3060), Checkpoint** Firewall R77, juniper and Cisco ASA 5585 firewall.
- Migrating Palo Alto 5060 & 7060 firewalls and configuring IPS/IDS and content Filtering
- Configuring and implementing **IPsec VPN** tunnel between ASA 5550 Firewalls, Palo alto 5060, 7060 firewalls Applied access list, NAT & IPS/IDS configurations.
- Deploying and upgrading Palo Alto 5060 & 7060 firewalls and establishing **IPS/IDS**, anti-malware
- Experience with Migrations of Cisco ASA firewall to Palo Alto firewall Expertise in installing, configuring, and troubleshooting of **Cisco Routers (3800, 2800, 2600, 1800, 1700, ASR 1001-2 and ASR 9k)**.
- Experience with manipulating various **BGP** attributes such as **Local Preference, MED, Extended Communities, Route-Reflector clusters, Route-maps and route policy implementation**.
- Proficient and high-level expertise using the F5 based profiles, **monitors, VIP's, pools, SNAT, SSL offload, iRules, virtual Servers, iAPPs**. Migration experience from **ACE to F5/ old F5 to New F5**. Expert in **TMSH**.
- Experienced in network and applications diagnostic and reporting tools such as **Wireshark, TCP Dump, SSL Dump, firewall session logs, Splunk**, etc.
- Extensive Knowledge of the implementation of **Cisco ASA 5500 series - 5505, 5510, 5512-X** firewalls with Firepower module. **Palo Alto firewall policies, panorama and Checkpoint firewalls NG, NGX**. Experience with converting Checkpoint VPN rules over to the Cisco ASA solution.
- Worked on different modules **of checkpoint** next gen firewall R77.30 such as IPS, URL filtering and IPsec VPN.
- Build Logical design and implementation of Wireless Solution.
- Configure and Supported Cisco & Aruba Wireless Controllers (Cisco 5500, 5520, 8540 Aruba 7210/7220)
- Designed and Deployed Cisco Identity Engine 1.2-2.3 (Radius/AAA/802.1x Wireless and wired)
- Designed and Deployed Wireless infrastructure for new sites and pre-existing
- Implement, configure and manage enterprise Wireless hardware software and management systems (NCS/Prime Infrastructure 1.4-3.4, Cisco MSE 7.4- CMX 10.3)
- Identify opportunities and solutions for improving efficiencies with emerging technologies, including Cisco routers/switches and router Wireless systems.
- Having experience with cisco ACI and Arista Cloud Vision while doing POC.
- During POC, Cisco ACI (Application Centric Infrastructure) SDN architecture to reduce operating costs, automate IT tasks, for greater scalability and visibility in a data center environment.

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- Deployed, Managed, monitored, and supported Bluecoat Proxy for content filtering, internet access between sites and VPN client users, forward proxy scenario and reverse proxy scenario for security and worked on adding URLs in Bluecoat Proxy SGs for URL filtering.
- Upgraded IOS, IOS-XR, IOS-XE and NXOS for both cisco routers and switches.
- Experience in documenting network diagrams and Technical Specification using Microsoft VISIO and office.

TECHNICAL SKILLS:

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/Fortinet/Juniper firewalls.

Routing Protocols

OSPF, ISIS, EIGRP, RIP, MPLS, IS-IS, BGP, Multicasting

Security Technologies

PAP, CHAP, Cisco PIX, Blue Coat, f5

, ASA, Fortinet, Checkpoint

Network Monitoring

SolarWinds, Wireshark, HRping, Infoblox

Operating Systems

Windows 7, Vista, XP, 2000, LINUX, Cisco IOS, IOS XR, IOS-XE, NX-OS

Routers

1800, 2611, 2800, 3600, 3845, 3900, ISR 4K, ASR 1000X, 7206VXR, Juniper M & T Series.

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Load Balancers

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F5 Networks (BIG-IP), NetScaler (Citrix)

Capacity & performance

Cascade Riverbed (Flow Monitor), WAN Killer

Switches

Cisco 2960,3750,3850 Catalyst 9200,9300,9400,9500,4500,6500,6800

Nexus 9K,7k,6k,5k and 2k

Programming Languages

C, C++, Perl, PowerShell, Python

Simulation Tools

GNS3, VMware, OPNET IT GURU, OPNET Modeler, Cadence

Firewalls

Juniper Net Screen (500/5200), Juniper SRX (650/3600), Pix (525/535), ASA (5520/5550/5580), McAfee Web Gateway, Checkpoint, Palo Alto firewalls.

AAA Architecture

TACACS+, RADIUS, Cisco ACS

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.

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

CERTIFICATIONS:

- **Cisco Certified Network Associate.**

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- **Cisco Certified Network Professional** Deepalijoshi.cisco@gmail.com

PROFESSIONAL EXPERIENCE:

Client: UST Global, CA

Jan 2021 – Till Date

Role: Sr. Network Engineer

Responsibilities:

- Design and implement Cisco ACI in data centers, create a strategy that allows use of containers, cloud orchestration tools for end users and developers.
- Configured & Deployed Cisco ASA firewalls, Next-Gen Firepower Threat Defence (FTD), Firepower Chassis Manager (FCM), Firepower Management Centre (FMC), Cisco Security Manager.
- Experience with designing and managing SDN and hybrid networks, designed an SDN overlay network and enabled traffic manipulation by push of a button using RYU controller and REST APIs.
- Deployed and configured Nexus 7K, 5K and 2K model where 2K was used in FEX mode and Nexus 7k pair was configured with VDC and VPC features in distribution, core and access layers.
- Deployed and configured nexus 9zK for VXLAN between 2 DCs.
- Responsible for setting up F5 LTM, GTM, APM and ASM from scratch - set up LTM module in DMZ for external application load balancing. APM and ASM modules for authentication and integration with AD, Imprivata, Application security policies per virtual server using ASM module.
- Experience with partners on installation and configuration problems and issues related to SDN-NFE, DNAC.
- Responsible for setting up NetScaler load balancer for Citrix based applications which includes Citrix VDI, Citrix remote access VPN gateway.
- Responsible for configuring, deletion and consolidating Checkpoint (R80) Firewall security rules and objects as per the requirements.
- Migrated checkpoint 41k firewalls to Palo Alto 5250 and Installed Palo Alto VM firewalls in Azure Cloud.
- Conducted a POC on VeloCloud, Viptela and Meraki SD-WAN solution as a team and worked on evaluating the solutions
- Assistance provided with initial installation and configuration for SDA(ISE, DNAC+Assurance, stealth watch, APIC-EM, Catalyst 9k and programmability) Assessment for the newly implementing customers.
- Configured and maintained VPCs with 7010/7018 and 5548 in the network. Also, configured and maintained VDCs in 7010/7018 switches, maintained VRFs in those separate VDCs.
- Deploying of VLANs, port and IP allocations and planning on ASR Mk, Nexus '7k, 5k, Mk and its downstream devices.
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- Experience with designing and managing SDN and hybrid networks, designed an SDN overlay network and enabled traffic manipulation by push of a button using RYU controller and REST APIs.
- Implemented virtual firewalls (VSX) and cluster on different check point environments.

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- Configured EBGp load balancing and ensured stability of EBGp peering interfaces.
- Troubleshoot latency and throughput issues on MPLS and Dedicated Internet Access circuits.
- Responsible for deployment and configuration of Cisco Meraki SDWAN at 30 remote sites globally.
- Implemented Cisco Application Centric Infrastructure (ACI) LAB for one of the data centers using a Spine.
- Used Extra hop for the detection of any abnormalities in the network, tracking file access in databases and storage for data security, and locate bottlenecks over the network Leaf architecture.
- Used Cisco ACI Fabric which is based on Cisco Nexus 9000 series switches and Cisco Application Virtual Switch.
- Responsible for implementation of Cisco ISE for endpoint authentication using certificate-based authentication, device administration and wired dot1x.
- Monitor, optimization and Support of Network infrastructure Data, Wireless and Voice
- Provide proactive support the daily operation of Wireless network of the organization
- Assist on Wireless network design by performing a site survey

Environment: Cisco ASA 5525, 5585, 5580 Cisco Routers (3900, ASR 1001/1002, 9000), Juniper MX960, MX480, switches (3750/3550), Nexus 9k, 7K, 6K, BGP, OSPF, EIGRP, SSLVPN, Site-to-Site VPN, MPLS, Ether Channels, Cisco Catalyst Switches, JUNO Space, NSM (Network and Security Manager) and Pulse secure, Panorama, JUNO Space, Ansible, JSA and Network Monitoring tools

Client: Broadcom, CA.

May 2019 – Dec 2020

Role: Network Engineer

Responsibilities:

- Designed ACI fabric to ensure each tenant is secured and has separation from other tenants. Use L3/L2 outs via common tenant to reduce TCAM and RAM utilizations.
- Configuring Static, BGP, EIGRP, and OSPF Routing Protocols on Cisco 1800, 2800, 3600, 4300 series Routers.
- Manage Cisco and Juniper Firewall access lists, address translation, and Site to Site IPsec and remote connection VPN's.
- Collaborate with application owners to define dependencies, map dependencies for better application workflow within ACI or public cloud use.
- Responsible for configuring/managing routers like ASR9K, ASR1001/1002s and ISR 4Ks, switches like Nexus 7K (7010), 5K (5548s, 5596s), 2K (2148s, 2248s) and 9K (9372TXs, 9372PXs).
- Responsible for configuring/managing DC features like VPC (Virtual Port Channel), VDC (Virtual Device Context), OTV, VXLAN in Nexus 7010/7018(7K) environment.
- Responsible for configuring/managing Storage technologies like FCOE using Cisco nexus 5548
- Used/configured Nexus 2000 Fabric Extender (FEX) which acts as a remote line card (module) for the Nexus 5000 to connect servers and storage devices.

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- Responsible for documentation/ diagrams of various platforms which include Nexus 7k, ASR9k, and ASR1k configuration MOP (Maintenance Operation Protocol) to enable successful deployment of new devices on the network.
- Responsible for configuring/managing catalyst Cisco 6500, 6800, 4500 VSS in the distribution layer of the DC network.
- Responsible for Installing and configuring Cisco Catalyst switches 4500(4510,4507), 3850 & 2960, 9300 series in access layers.
- Responsible for configuring/managing the company's routing environment using OSPF and BGP as per design doc.
- Adhered/followed the change process (Change Advisory Board/CAB) as per IT policy to make any change to the company's production network.
- Responsible for configuring/managing L2/L3 port channels between core switches and server distribution switches using LACP/PagP protocols.
- Worked with different service providers to set up MPLS CE/PE relationship using BGP towards WAN.
- Configured and managed F5 LTM (Local Traffic manager) in a large-scale environment.
- Network security including NAT/PAT, ACL, and ASA and Palo Alto Firewalls - used technologies site to site VPN, DMVPN, SSL VPN, WLAN and Multicast.
- Installed, managed and monitored large scale Palo Alto Firewalls like PA200, PA250, PA2050, PA4050 and PA3020 using Panorama.
- Used panorama consoles to perform many changes to monitor/block/allow the traffic in/out from the company's network to provide technical assistance for LAN/WAN management and complex customer issues.
- Responsible for adding and removing security policies/rules based on the requirements of various project requirements.
- VPN migration project, converted checkpoint VPN rules over to the Cisco ASA FW.
- Configured Cisco ASA firewalls in Single and Multiple Context Mode firewalls. Upgrade of Cisco ASA Firewall in Active/Standby mode.
- Cisco ASA Firewall Policy Provisioning and troubleshooting connectivity issues through firewall.
- Upgraded the data center network environment from Cisco ASA 5525 to Palo Alto PA5060 firewalls.
- As a valuable team member - communicating and gathering requirements from different customers, end users and IT teams for the projects.
- Worked on Python scripting for generating the firewall security policy through web visualization tool in checkpoint firewall.
- Installed and configured Meraki (MX80, MX60) Appliance via Meraki MX400 Cloud.
- Installed and configured Cisco Meraki (MR66, MR74, MR84) Wireless Access points in the branch offices.

Environment: Cisco ASA Firewalls, F5 ADC, Cisco 3900,4300,4400,4500 Routers, Cisco Catalyst switches 6500, 3750, 3550, 2960,4500,6500,6800,9300,9400 Switches, Juniper SSG-140, Palo Alto Wildfire, Juniper EX series switches, Nexus 9k, 7k, 5k, ASR 9k, ASR 1k, Nexus 2000 FEX, Juniper SRX, Routing Protocols: BGP, OSPF, AAA (TACACS+ & RADIUS), TCL Scripting, ACL Configuration.

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**Client: Gee Chemicals, Chandigarh
2019**

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October 2016 – March

Role: Network Security Engineer

Responsibilities:

- Design, implement and administer IPv4 enterprise network infrastructure utilizing Juniper routers like Juniper MX80, MX 480 and MX960.
- Involved in design and implementation of Data Center Migration, worked on implementation strategies for the expansion of the MPLS VPN networks
- Responsible for managing Cisco routers, switches, HP switches, F5 load-balancers using SNMP MIBs for fault detection and for fault isolation.
- Responsible for configuring/troubleshooting/managing Cisco ISR 4Ks (4451,4431, 4331) and 3800 series routers and catalyst 4500, 3800, 6500 series switches for LAN/WAN connectivity.
- configured and managed Nexus 7K switches using technologies like VPC and VDCs and upgraded IOS software using ISSU to seamless performance.
- Configured L3/L2 port channels using LACP, PAgP and provided redundancy by implementing HSRP and GLBP for High availability
- Responsible for improved application response and effective utilization of network resources using Riverbed Appliances on classified networks.
- Design and implement Catalyst/ASA Firewall Service Module for various LAN's.
- Troubleshooting Cisco routers, APs, Switches, Fortinet Devices and Meraki appliances.
- Configured Remotely Cisco routers, switches and ARUBA access points.
- Configure and manage LDAP User management with Checkpoint Smart Directory. Implemented the policy rules and DMZ for multiple clients of the state on the Checkpoint firewall.
- Worked with several network engineers for the understanding of Juniper SRX firewalls along with the changeover to Palo Alto. Palo Alto Firewall Management-Panorama.
- Involved in configuring Juniper SSG-140 and Check point firewall.
- Implementation and Configuration (Profiles, iRules) of F5 Big-IP LTM-6400 load balancers
- Worked on configuration commissioning and upgradation of the MPLS circuits for various branch offices. Disabling all unused ports and putting them in unused VLAN.
- Implemented, analyzed and recommended appropriate systems for the out of band management monitoring. Utilizing SolarWinds for primary and disaster recovery sites.

Environment: Cisco 2600, 2800 and 3600router. F-5Load balancers. PaloA1to fireballs 3060, 5060, 7050. Cisco ASA 5520 Firewall, Juniper Firewalls.

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**Client: Airtel, Chandigarh
2016**

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April 2014 – Sep

Designation: Network Engineer

Responsibilities:

- Hands on experience with Cisco 3500, 3750, 4500, 6500 series equipment and configuring and deploying and fixing them with various modules like Gig card, VPN SPA card, WIC card.
- Cisco IOS experience on 3600/7200 class hardware in complex WAN environment and experience on Cisco OS and IOS on CAT6500 in a complex data center environment.
- Involved in configuring IP Quality of service (QoS).
- Management tools, SNMP, Syslog, Sniffer
- Experienced in WAN environments, installing and troubleshooting data circuit problems (MPLS, T1).
- Worked on Layer 2 protocols such as STP, VTP, STP, RSTP, PVSTP+, MST and other VLAN troubleshooting issues and configuring switches from scratch and deployment.
- Involved in designing and applying QOS and policy map to 2800 series routers for all the branches.
- Managed inventory of all network hardware, Management and Monitoring by use of SSH, Syslog, SNMP.
- Implemented and configured SNMP, Syslog and traps on Cisco routes to allow for network management.
- Implement and modify DNS entries and managing IP Addresses using Windows DNS and DHCP.
- Performed Access Control Lists (ACLs) to setup usage for the intended users.
- Responsible for IOS installations and upgradations using TFTP Server.
- Troubleshoted Routing/Switching/Security Configuration problems/errors encountered to Clients in Head/Remote Campuses.
- Performed subnetting of the IP addresses. Configuration and allocating IP and network resources to Storage, Virtualization, Server and Application teams.
- Performed network monitoring using tools like Netcool. Log collectors using Splunk. SNMP V2C configurations.

Environment: Cisco 2600, 2800 and 3600 routers. F-5Load balancers. PaloA1to fireballs 3060, 5060, 7050. Cisco ASA 5520 Firewall.

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