**Rabin Nepal**

**Network Security Engineer**

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**Summary:**

* Network Engineer with 7+ years of experience in Network designing, Troubleshooting, implementation, deployment and supported production environment
* Worked extensively on **Cisco Firewalls, Cisco PIX & ASA […] Palo Alto 200 Series**.
* Designed and implemented DMZ for Web servers, Mail servers & FTP Servers using **Cisco ASA5585** **Firewalls**
* Excellent customer management/resolution, problem solving, debugging skills and capable of quickly learning, effectively analyses results and implement and delivering solutions as an individual and as part of a team.
* Updated and maintained inventory of all network hardware, Management and Monitoring by use of Secure Shell (**SSH**), **Syslog, SNMP, NTP**.
* Configured **ACLs, VLSM, NAT, Subnetting, Syslog Server, DHCP Server, DHCP** relay on **Cisco routers**.
* Good knowledge of upgrading **Cisco IOS** - Upgrading hardware and installing new network devices such as **routers, switches** and **firewalls**.
* Experience with how to config **Juniper** virtual chasses, make **IP** ranges on **Juniper switches**
* Help on their more than 15 different side my solving issue through **Jira** tickets system and help them troubleshoot issue on.
* Implemented, configured and troubleshoot various **Routing Protocols** like **RIP, EIGRP, OSPF, BGP** with real time hands-on experience.
* Configured **802**.**1**d Spanning Tree Protocol (**STP**) for loop prevention and **VTP** for Inter-**VLAN Routing**.
* Working experience with **Juniper** networking systems, and familiar with **Cisco routers**, and **switches.**
* Experience with **Juniper SRX 240 Firewalls, QFX, MX, EX SERIES**
* Experience in configuring **Juniper** Layer 3 **EX4200 & EX3200** switches. Design, implement and administer **IPv4/IPv6** enterprise network infrastructure utilizing **Juniper routers**
* Implemented various Switching Technologies **STP, RSTP, VLAN & VLAN Trunking Protocol (VTP), Inter-VLAN routing, Ether channel using LACP, PAgP** along with Failover Mechanisms such as **HSRP** & **GLBP** on Layer 2 Setup.
* Knowledge of encryption, **MPLS/VPN** and **GRE** tunnel implementations using **Cisco IOS** with **DMVPN** and **IPSEC**.
* For security purposes, enabled Authentications such as **WPA2, PAP/CHAP**, and **AAA** model for authorization, authentication and accounting purposes.
* Extensively used **Route Reflectors, Route Influence** by Attributes, Multi homing, **Route dampening**, and Optimization of BGP.
* Experience in implementing and have knowledge in troubleshooting protocols and technologies in: **BGP, OSPF, IPv4 and Ethernet.**
* Experienced in working on **Juniper firewall SRX 240, SRX 550, SRX 650** as well as **Juniper MX series routers MX40, MX80, MX105**
* Experienced in working on **Cisco Catalyst (CAT) […] 4500, 6500 series**
* Worked on **Nexus FEX-2K (2248, 2232), 5K (5548, 5020, 5010)** and **7K (7018, 7010)** series switches
* Expertise in **VPC (Virtual Port Channel),** used **VDC (Virtual Device Contexts)** to enable virtualization and to present the physical switch as multiple logical devices, Fabric path and OTV configurations.
* **Routed Cisco 7600, 7200, 3810, 3925, 2811, 1800** series with layer 3 routing
* Experience in implementation of **Cisco ACS Servers** & configuration of **TACACS** protocols.
* Experience in **T1/E1/T3** technologies and different **LAN & WAN** technologies.
* Implemented traffic filters using Access-lists, Distribute-Lists, Route Maps and route manipulation using Offset-list.
* Expertise in structured cabling, IP address management, Racking, Stacking, UCS management

**Technical Skills:**

**Routers:** Cisco 1800, 2600, 2800, 2900, 3600, 3600, 3800, 3900, 7200, 7300 series.   
**Switches:** Cisco 3560, 3750, 4500, 4900, 6500 & Nexus 2000, 5000, 6000 and 7000 series.  
**Switching:** VLANs, Dot1Q, VTP, STP, RSTP, VLAN Maps  
**Protocols:** TCP/IP, UDP, LAN/WAN, DHCP, DNS, FTP, TFTP, ICMP, SNMP, ARP, SIP, HSRP.   
**Technologies:** GRE, mGRE, ACL, DHCP, DNS, Route map, HSRP, Tunnel.   
**Security:** ACL, NAT/PAT, VPN, SSH, SSL, GRE Tunneling, ASA.   
**LAN/WAN**

**Technology:** Ethernet, Frame relay, DSL, ISDN, MPLS.   
**Tools:** Riverbed (OPNET), GNS3, Wireshark, Packet Tracer, PUTTY, MS Visio and SolarWinds.   
**Operating System:** Windows […] Server […] Cisco IOS, Ubuntu.

**Routing:** OSPF, BGP (eBGP & iBGP), EIGRP, RIP v1 and v2, Summarization, Redistribution, Static

Routing and Dynamic Routing, IPV4, IPV6

**Professional Summary:**

**Novartis Pharmaceuticals Inc. Jan 2017 – Till date**

**Fort Worth, TX**

**Network Security Engineer**

**Responsibilities:**

* Involved in planning and implementing **Firewalls, DNS** and other networking equipment.
* Ensuring the smooth working of network.
* Configuring routing protocols such as **RIP, OSPF, EIGRP, MPLS**, static routing and policy based routing on **cisco routers**.
* Responsible for developing, design and implement firewall infrastructure surrounding Checkpoint and Cisco Firewalls and a good experience with security tools and protocols like NERC/CIP and SOX.
* Manage firewall policies in a hierarchical device group across many devices in Panorama
* Experience on various security technologies including IDS/IPS, AV, HIPS, Hard Disk Encryption, strong Authentication products (RSA SecurID), Content Security Gateways TACACS/AAA solutions
* Worked on malicious code detection and prevention, internet monitoring (IDS/IPS) and tiered web filtering
* Worked with **SD-WAN** deployment, worked with network engineer team to design and implement industry SD-WAN infrastructure to provide secure, carrier-independent WAN connectivity across the enterprise.
* Performed IP routing strategy & routing protocol deployments for medium to large customers that includes protocols such as **BGP, OSPF, EIGRP** and **SD-WAN** technologies such as iWAN.
* Established maintenance and administration capabilities for the perimeter security systems that include firewalls, web proxies, and intrusion detection systems
* 802.11a/b wireless network design and deployment.
* Programmed single-channel OFDM 802.11a transmitter and receiver system
* Clear understanding of 802.11a/b/g/n based wireless architecture.
* Troubleshooting **Juniper Routers**, **Switches** and **Firewall**.
* Troubleshooting network topologies connectivity, software recovering, virtualization permission control and accessibility issues. Help software QA/Test Engineers and Developers to build network topologies for their regression on demand testbeds of **Juniper's** products.
* Worked extensively in Configuring, Monitoring and Troubleshooting **F5 BIG-IP load balancer** and responsible for **Cisco ASA firewall** administration across global networks.
* Installation and configuration of **Nexus 7k, 5k** and **2K** in **Data Center** with concept of **VDC, Fabric** extender (**FEX**), **VPC** and **OTV**.
* Implementing ether channels with **LACP** and **PAGP** with troubleshooting of inter-**VLAN routing**.
* Performed basic security and **ACL** administration on **Juniper SRX firewalls** that includes day to day rule deployment, troubleshooting using data flow analysis and packet capture.
* Setup and Configured **Cisco Meraki Switch (MS-250)** and **Cisco Meraki Wireless (MR-42/52)** appliance at local site.
* Worked on Migration of **Juniper SRX firewalls** for isolation of network segments and **VPN's, ISIS**, Point to point and more.
* Configured **ACLs** to allow only authorized users to access service.
* Installed **Wireless** access points at various locations in the company.
* Worked on **Cisco ASDM** for implementing **VPN** on **Cisco ASA** **firewall**.
* Implemented Hot Standby Router Protocol (**HSRP**) by tuning parameters like preempt.
* Involved in designing of **LAN (Ethernet)** and **WAN** infrastructure for the new **Data Centre** Using **MS Visio.**
* Experience Branch Relocation: Connect workstation, servers, etc. Rack and stack Pre-configured new hardware and connect the circuits. Work with Carrier to test and turn-up circuits.
* Configured of ACL's in **Cisco 5520 ASA firewall** for internet Access requests for servers, Protocol Handling, Object Grouping and NAT
* Securer network using **AAA** (Authentication, Authorization and Accounting).

**WorldLink Oct 2013 – Nov 2016**

**Kathmandu, Nepal**

**Network Security Engineer**

**Responsibilities:**

* Provide basic technical support on hardware and software.
* Plan and support network and computing infrastructure.
* Creating small LAN network and install, configure network equipment such as **router** and **switches.**
* Worked on **Juniper MX 480, MX960** network infrastructure utilizing **Juniper routers**.
* Worked with **IOS** upgrade of **Juniper** devices.
* Configuration of **RIP, EIGRP, OSPF** routing protocol on routers, switches and small networks.
* Troubleshoot error messages and suggest layer-2 / layer-3 switch configurations.
* Used Layer 2 **Cisco's Switching** platform knowledge (e.g. system architecture, switching and forwarding issues) in Catalyst Switches.
* **C6500, C4000, C3000, C2900**, and other Layer 2 devices to work with customers and business units.
* Provided Layer-2 support by troubleshooting issues related to **HSRP, VLANs, VTP, STP, RSTP, VRRP and TRUNKING.**
* Configured and maintained **IPSEC** and **SSL** **VPN'**s on **Palo Alto Firewalls**.
* Configuring rules and Maintaining **Palo Alto Firewalls** & Analysis of **firewall** logs using various tools.
* Implemented Zone Based **Firewalling** and **Security** Rules on the **Palo Alto Firewall**.
* Troubleshoot and diagnose customer issues.
* Network and system monitoring.

**Environment: Cisco 4900, 4500, 3750, 3700, 2950 Switches, Cisco 7600/7200/3800/2800/2600 Routers, Firewall, Juniper, Palo Alto, Security, LAN, WAN.**

**Ncell Oct 2011 – Sep 2013**

**Kathmandu, Nepal**

**Network Engineer**

**Responsibilities:**

* Configuration, **LAN/WAN, Switch/Routing protocols**.
* Troubleshooting complex **LAN /WAN** infrastructure that include routing protocols **EIGRP, OSPF**.
* Configured Access-lists, Distribution-lists, Offset-lists and Route Redistribution.
* Configured Ether channels, **Trunks, VLans, HSRP** in a **LAN** environment. Configured STP for loop prevention and **VTP** for Inter-**VLAN** Routing.
* Configured **PVSTP+** for loop prevention and **VTP** for Inter-**VLAN** **Routing.**
* Implemented port aggregation & link negotiation using **LACP** and **PAGP.**
* Responsible for performing administration on **OSPF** routing protocols.
* Implemented route redistribution between **OSPF** and **EIGRP**.
* Performed **IOS** upgrades on various catalyst series switches and maintained latest IOS versions according to company's policy.
* Configured Access List (Standard, Extended, and Named) to allow users all over the company to access different applications and blocking others.
* Done troubleshooting of **TCP/IP** problems and connectivity issues in multi-protocol **Ethernet** environment.
* Worked on network-based IT systems such as racking, stacking, and cabling.

**Environment:** **Cisco ASA 5540, BIG-IP LTM 8900, Juniper, LAN, WAN, Ethernet.**