RABINA RANA
Network and System Engineer

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As a Network and System Engineer at Cloud Himalaya since June 2022, I specialize in network administration, system management, and data center infrastructure. With a strong CSIT background, I excel in firewall management, access control, high- bandwidth network optimization, and customer support, ensuring secure and efficient IT operations. My focus is on designing, configuring, and deploying network architecture and firewalls to safeguard infrastructure. I also have hands-on experience with VMware virtualization and Huawei/NetApp storage solutions, optimizing performance. Proactive and adaptable, I continuously enhance IT operations while supporting team objectives.

Building on my experience, I strive to further enhance my *networking* expertise while expanding into *cybersecurity*. I am actively learning and working with security-related technologies, including SIEM, SOC, Wazuh and Sentinel, to strengthen my skills. Proactive and adaptable, I continuously improve IT operations while contributing to team objectives.

EXPERIENCE

Network and System Engineer   Kathmandu, Nepal

Cloud Himalaya Pvt. Ltd.   Jun 2022 - Present

- Deployed and configured NextGeneration Firewalls (NGFW) with VPN, HA, and GRE tunnels.
- Designed and implemented SSL and SitetoSite (S2S) VPN infrastructure to enable secure remote connections.
- Provided network support services for devices including firewalls, switches, servers, and other hardware.
- Monitored network capacity and performance, diagnosing and resolving complex network issues.
- Implemented backup systems for server backups over the network, ensuring compliance with RTO/RPO requirements.
- Administered and troubleshot Windows and Linux servers, including configuration and issue resolution.
- Configured and troubleshot VMware ESXi and vCenter environments.

IT Support Technician   Kathmandu, Nepal

Dynamic Suppliers.   Feb 2021 – May 2022

- Implemented intranet architecture on multiple platforms.
- Tested software remotely and onsite for server sets to maintain operational readiness.
- Troubleshot Windows and Windows server related issues.
- Cable management and Device Mounting according to the environment.
- Printer and network sharing support
- Wireless management (AP, simple ISP router, printer, file sharing in wi-fi network)
- Switch Configurations
- Troubleshot physical (including hardware) and network level issues.

EDUCATION

BSc. CSIT *(Bachelors of Science in Computer Science & Information Technology)*

Computer Networks, Cryptography, Technical Writing   Kathmandu, Nepal

2022

SKILLS

Firewall *(Cisco Firepower, Checkpoint, Fortigate, Pfsense, OPNsense)* | **IDS/IPS** | **VMware** *(vcenter)* | **Switching**: *(VLAN, STP, VPC, Ether Channel, Port Security)* | **Routing:** *(OSPF, EIGRP, iBGP)* | **Windows System** | **Linux System** | **Backup and Recovery** *(VEEAM)*

PROJECTS

Firewall Deployment Project:

- Designed and deployed secure network infrastructure using different firewalls and routing platform.
- Configuration of firewalls from scratch level.(Fortigate, Sophos, Pfsense, OPNsense)
- Implemented High Availability (Active/Active & Active/Passive)
- Configured VPN tunnels, SSL and Site-to-Site connections (w/o GRE tunnel) for secure remote access.
- Optimized network performance and implemented trac shaping policies such as Load Balancing, configuring HA using CARP.
- Integration with other application such as WireGuard, Openvpn, Forticlient and SophosSSL for remote access.
- Configuration of Cisco Switch which acts as intermediate part in the architecture
- Implementation of FreeRadius for OTP authentication in pfsense and Suricata for IDS/IPS in OPNsense.

Managed Service Project (Operational/ Infrastructure)

- Managed and maintained physical infrastructure, including servers, switches, routers, and other network components, for a leading payment gateway and SIP provider in Nepal.
- Configured and maintained FortiGate firewalls to ensure secure and efficient operations for the payment gateway company.
- Provided managed services to a telecommunications company, overseeing its entire network topology and architecture.
- *Led the team* in managing network and infrastructure services, while delivering client support as needed.

Switch Replacement Project:

- Configured switches from scratch, including setting up VLANs, trunking, and security protocols.
- Configured Port channel or VPC as per requirement.
- Maintained and made proper cabling and labeling.
- Scheduled downtime and maintained smooth operation
- Cisco Catalyst and Cisco Nexus Switches

Infrastructure Deployment with DR planning

- *Led* the client's infrastructure deployment project, including disaster recovery (*DR*) planning with proper documentation.
- Designed and deployed the entire infrastructure from scratch in the data center.
- Managed and configured network connectivity and cable management for optimal performance.
- Implemented SSL and IPsec VPN for secure client connectivity, redundancy and configured multi-interface routing for seamless communication across different IPsec tunnels.
- Deployed Veeam Backup as per client requirements and designed the DR infrastructure, ensuring data backup and continuity between the data center and DR site.
- Provided client support and offered network related recommendations to optimize IT operations.

ACHIEVEMENTS

npNOG (Nepal Network Operators' Group)

- Acquired fellowship for the 9th NPNOG event conducted by npNOG and NPIX AT Chitwan, Nepal
- Member of npNOG since 2024

TRAINING / CERTIFICATION

Microsoft Certified: **Cybersecurity Architect Expert** (SC-100)	2025
Microsoft Certified: **Security Operations Analyst Associate** (SC-200)	2025
Microsoft Certified: **Identity and Access Administrator Associate** (SC-300)	2025
Microsoft Certified: **Information Protection and Compliance Administrator Associate** (SC-400)	2025
Microsoft Certified: **Security, Compliance, and Identity Fundamentals**(SC-900)	2024