UMESH PANERU

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Senior IT Officer | Infrastructure, Linux & Cloud Operations Engineer

Infrastructure & System Engineer with 3+ years of experience managing hybrid Linux/Windows environments, enterprise virtualization (Proxmox VE, VMware vSphere, Sangfor HCI), and network security infrastructure. Proven track record executing full-stack firewall migrations, zero-downtime VM fleet transitions, identity governance (Entra ID, Active Directory, Intune), and automated monitoring (Zabbix, Grafana, Bash). Active open-source advocate and Master's researcher in Zero Trust Architecture.

WORK EXPERIENCE

Senior IT Officer ***(Promoted from IT Infrastructure Engineer, July 2026)*** Nov 2022 – Present
Technotiate Solution Pvt. Ltd, Balkumari, Lalitpur, Nepal

- **Virtualization & Infrastructure Migration:** Executed end-to-end virtual machine fleet migration from VMware vSphere to Sangfor HCI and Proxmox VE clusters, optimizing compute density and storage I/O across SAN/NAS (iSCSI,NFS).
- **Identity & Endpoint Fleet Management:** Administer hybrid identity, SSO, and device compliance policies across Microsoft Entra ID, Active Directory, Intune, and Defender for Endpoint (MDE) for corporate users.
- **Observability & Disaster Recovery:** Deployed and maintained Zabbix and Grafana monitoring stacks alongside Nakivo backup/DR replication routines, enforcing strict RPO/RTO targets and proactive alerting.
- **Enterprise ITSM & Asset Lifecycle:** Lead L2/L3 escalation resolution via FreshService, overseeing hardware procurement, OS provisioning, patch automation, and full-lifecycle IT asset governance.

IT Consultant (Infrastructure & Security) | The Asia Foundation | Kathmandu, Nepal Nov 2022 – Present

- **Network Perimeter & Security Architecture:** Led a complete office network perimeter migration from FortiGate 200E to UniFi Dream Machine Pro Max (UDM Pro Max), deploying UniFi Pro APs and 802.1Q VLAN segmentation across D-Link managed switches.
- **Server & Policy Governance:** Maintain local server infrastructure, enforce enterprise security policies, and oversee vendor procurement and hardware lifecycle standards.

DevOps Engineer | CloudSewa, Kathmandu, Nepal Mar 2022 – Jul 2022

- **Infrastructure as Code & CI/CD:** Authored modular ARM Templates and Bicep configurations to automate Azure resource provisioning and maintained CI/CD pipelines via Azure DevOps.
- **Linux Hosting & Uptime Operations:** Managed Linux web hosting environments, cPanel servers, and L2 server support tickets to sustain high availability.

ACADEMIC & COMMUNITY LEADERSHIP

- **University Lecturer (Computer Science & Engineering):** Deliver lectures, lab curricula, and technical assessments in Linux Administration, Deep Learning, System Analysis & Design, and Software Engineering.
- **Executive Member | Nepal Open Source Klub (NOSK) | NCIT, Balkumari Lalitpur:** Organized Linux workshops, open-source adoption drives, and technical bootcamps.

TECHNICAL SKILLS

Core Infrastructure Skills

- VMware vSphere & vCenter
- Proxmox Virtualization
- Sangfor HCI
- Microsoft Azure
- BCP & DRP
- Storage Virtualization (SAN, NAS)
- Fiber Channel and iSCSI Block Storage Protocol (CIFS and NFS)

Monitor & Backup

- Grafana
- Zabbix
- Nakivo Replication
- DoubleTake Replication

DevOps & Automation

- Azure DevOps
- ARM Templates
- Bicep
- Bash Scripting

Identity & System Administration

- Linux Administration
- Windows Server
- Microsoft Active Directory
- Microsoft Intune
- Microsoft Defender for Endpoint (MDE)
- Microsoft Entra ID

Networking & IT Service Management

- Network Installation, Routers & Access Points
- CCNA Concepts & Firewall Management
- ITSM / Service Desk Ticketing (FreshService / SLA resolution)
- Hardware & Software Asset Management

EDUCATION

Masters in Computer Engineering 2024 – Running

Nepal College of Information Technology | Pokhara University

Bachelor of Engineering in Information Technology 2017 – 2022

Nepal College of Information Technology | Pokhara University

CERTIFICATIONS

- Bash Shell Scripting - Coursera
- Linux Command Line - Coursera
- Cisco Certified Network Associate (CCNA Training)