Elvas Kiprop Kibiwot

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Professional Summary

Enterprise Infrastructure Engineer with over 2 years of hands-on experience in server infrastructure, virtualization, storage administration, and enterprise networking. Skilled in designing, deploying, and managing heterogeneous compute and storage environments across physical and virtual platforms. Proven expertise in SAN/NAS management, backup and disaster recovery planning, and high-availability architecture. Adept at automating infrastructure processes, optimizing performance, and ensuring business continuity through proactive monitoring and troubleshooting.

Core Competencies

- **Server Infrastructure:** Physical & virtual server deployment, Linux (RHEL/CentOS), Windows Server administration.

- **Storage Solutions:** SAN/NAS (iSCSI, NFS) management, LUN provisioning, zoning, volume management.

- **Virtualization:** VMware vSphere, Hyper-V, KVM – VM provisioning, optimization, and maintenance.

- **Backup & Disaster Recovery:** Data integrity checks, recovery planning, business continuity implementation.

- **Automation & IaC:** Terraform, Ansible, Helm, Python/Bash scripting.

- **Networking:** TCP/IP, VLANs, VPNs, BGP, firewall policies (Fortinet/Palo Alto).

- **Monitoring & Security:** Prometheus, Grafana, ELK Stack, SolarWinds.

Professional Experience

TechnOps Engineer
Ahadi Wireless | Nov 2024 – Present

- Designed, deployed, and managed production Kubernetes clusters on physical and virtual infrastructure.

- Automated provisioning of Linux-based servers using Terraform & Ansible, reducing setup time by 40%.

- Configured NAS/SAN storage (iSCSI, NFS) for enterprise workloads, implementing LUN provisioning and performance tuning.

- Implemented RBAC, NetworkPolicies, and PodSecurity standards for secure environments.

- Resolved storage bottlenecks and improved I/O performance for critical applications.

Network & Infrastructure Specialist (PDTP Intern)
Kenya Revenue Authority | Jan 2024 – Nov 2024

- Assisted in the administration of Linux and Windows Server environments, including updates, patching, and performance monitoring.

- Participated in the deployment, configuration, and maintenance of VMware and Hyper-V virtual environments to support enterprise workloads.

- Supported the configuration and management of enterprise storage systems (Huawei/Dell EMC), including SAN zoning, LUN provisioning, and performance troubleshooting.

- Monitored server health, disk usage, and backup jobs, escalating and resolving infrastructure-related incidents.

- Collaborated with the infrastructure team to implement backup and disaster recovery procedures using Veeam, ensuring business continuity.

- Configured and optimized Cisco/Huawei routers, switches, and firewalls, reducing network and server connectivity downtime by 25%.

- Conducted infrastructure performance assessments using SolarWinds and Wireshark, providing recommendations for capacity upgrades.

- Documented infrastructure configurations, change requests, and troubleshooting procedures for knowledge base use

IT Support Technician
Rift Valley Innovation Center | May 2022 – Nov 2023

- Installed, configured, and maintained LAN/WAN infrastructure, including VLAN segmentation, VPN tunnels, and enterprise Wi-Fi access points.

- Provided first- and second-line technical support for hardware, operating systems, and enterprise applications, ensuring minimal downtime.

- Assisted in server setup and administration (Windows Server and Linux), including user account management, file sharing, and access control.

- Supported storage systems by managing shared network drives and performing regular backups to ensure data integrity.

- Installed and configured virtualization environments for lab and production use, enabling rapid provisioning of training and demo systems.

- Led deployment and integration of CCTV/IP surveillance systems, including network video recorders (NVRs) and secure remote access.

- Monitored network and endpoint performance, applying proactive measures to prevent outages.

- Documented IT assets, network diagrams, and troubleshooting procedures for operational efficiency.

Education

BSc in Computer Science – Chuka University (Dec 2021)

Certifications

- Kubernetes and Cloud Native Associate (KCNA)
- CCNA(cisco)
- DevNet(cisco)
- HCIA Datacom (Huawei)
- Google IT Support & Cybersecurity
- Oracle Cloud Infrastructure – Generative AI
- DevOps and Site Reliability Engineering(Andela)

Technical Skills

- **Server Platforms:** Dell EMC, IBM, Lenovo, HP

- **Virtualization:** VMware vSphere, Hyper-V, KVM

- **Storage:** NetApp, Dell EMC, Huawei – SAN/NAS, iSCSI, NFS

- **Operating Systems:** Linux (RHEL, CentOS, Ubuntu), Windows Server

- **Automation:** Terraform, Ansible, Helm, Python, Bash

- **Backup & DR:** Veeam, Commvault, snapshot-based recovery

- **Networking:** BGP, VLANs, VPNs, Cisco/Huawei devices

Key Achievements

- Improved Kubernetes deployment speed by 30% through Helm automation.

- Reduced manual errors in provisioning by 40% via Terraform & Ansible.

- Enhanced storage throughput by optimizing SAN zoning and LUN mapping.

- Implemented high-availability backup processes, ensuring 99.9% data availability.