

Alex Kinyanjui Nduta

Systems Engineer

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Summary

Highly accomplished Systems Engineer with over 5 years of experience specializing in Linux (Debian/UCS) and Windows server environments. I have a proven expertise in managing 1500+ node networks with 99.9% uptime and leading the migration of legacy services to modern IaC (Ansible, Terraform) and containerized architectures.

Experience

Snr Server/Software Specialist - Site Reliability

St Christopher's International School (SCIS)

2024–Present (promoted)

- Leadership: Directed IT operations for 700+ users, maintaining 99.8% system uptime and leading a team of 3 technicians.
- Automation: Engineered IaC workflows using Ansible and PowerShell, reducing provisioning time from 4 hours to 30 minutes.
- SRE: Reduced MTTR by 30% through proactive monitoring and structured incident response protocols.

Network Systems Administrator - Network Engineer

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2022–2024

- Enterprise Migration: Orchestrated the large-scale migration of 700 users to a Windows Server domain environment with zero data loss.
- Network Reliability: Maintained 99.5% network uptime across 1500+ devices by administering Firewalls, VPNs, DNS, and DHCP.
- Maintained 99.5% network uptime while managing upgrades, patches, and infrastructure improvements.
- Automation: Developed custom Bash and Python scripts to automate routine system administration, increasing operational efficiency by 40%.
- Performance Monitoring: Implemented Nagios monitoring solutions, resulting in an 80% reduction in issue identification and resolution time.

TECHNICAL SKILLS

- Private Cloud & Platform Engineering:** Experience in public(AWS, GCP) and private Open Source cloud environments such as Proxmox, XCP-ng and multi-tenant infrastructure; AWS Certified Solutions Architect.
- Orchestration & Containers:** Advanced management of Docker, Kubernetes, and Proxmox ; experienced in migrating legacy workloads to containerized environments.
- Infrastructure as Code (IaC) & Automation:** Proficient in Terraform for resource provisioning and Ansible for configuration management ; expert in Python, Bash, and PowerShell for end-to-end process automation
- CI/CD & Observability:** Engineering automated deployment pipelines using GitHub Actions ; architecting fullstack monitoring using Nagios, Grafana, Prometheus, and Splunk to maintain 99.9% uptime
- Database & Security:** Administration of PostgreSQL (Odoo backend) and MySQL ; implementing Snort IDS, automated patching, and VPN/Firewall security protocols.

- **IT Leadership & Methodology:** Lead experience managing technical teams of 3+ technicians ; grounded in ITIL principles and SLA-driven Incident Response
- **Scripting & Automation:** Python, Bash, and PowerShell for automating responses to recurring system issues.

SELECTED TECHNICAL PROJECTS

- **Enterprise Odoo SaaS Platform | Python, Docker, Kubernetes, PostgreSQL**
 - Architected and deployed a multi-tenant ERP solution for a live commercial client, ensuring 99.9% uptime and data isolation.
 - Engineered automated backup and recovery workflows for PostgreSQL, securing critical business data.
- **Twender: 3-tier Distributed | Django, MySQL, Kubernetes, Docker:**
 - Designed a decoupled microservice architecture consisting of Swagger UI, Django REST logic tier and MySQL data tier
 - Orchestrated deployment using Kubernetes services and deployments to enable horizontal scaling and high availability
- **Budgelify: High-concurrent API| FastAPI, Python, Linux, Kotlin:**
 - Developed a high-performance budgeting API integrated it with Jetpack Compose for the android client
 - Automated the backend deployment on Linux environments, focus on API latency reduction and endpoint security

Education

- **Nano-Degree, Software Engineering - ALX Africa** | 2023-2024
- **Diploma, Information Technology - Thika Technical Training Institute** | 2017–2022

Certifications

- ProLUG Enterprise Linux Administration
- Google Certified Cyber Security professional
- Kubernetes Cloud Native Associate(KCNA)
- Certified AWS Solutions Architect
- Certified AWS Cloud Practitioner