JOSEPH WARUINGI NDERITU

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Network Engineer/Administrator

Summary

Experienced and versatile Network Engineer/Administrator with a solid background in designing, implementing, and maintaining enterprise-level network infrastructures. Proficient in a wide range of networking technologies, including Cisco routers, switches, firewalls as well as VoIP and Network Access Control systems. I am skilled in optimizing network performance, ensuring high availability, and implementing robust security measures to safeguard organizational assets. Strong troubleshooting abilities with a proven track record in resolving complex network issues promptly. I am an effective communicator and team player, capable of collaborating across departments to deliver scalable and reliable network solutions aligned with business goals.

Core Competencies

- Routing/Switching protocols (BGP, OSPF, EIGRP)
- Security technologies (Network Access Control - Cisco ISE, Portnox)
- Windows Active Directory Administration
- Cyber Security Framework and Standards
- Network Security Design and Implementation
- Firewall Configuration and Management (Fortigate, BIG-IP, Cisco ASA, Checkpoint)
- Intrusion Detection and Prevention Systems
- Wireless Network Administration and Security (Cisco Meraki, Unifi)
- Network Monitoring and Analysis (SolarWinds & Cisco Prime)
- Security Policy Development
- Risk Assessment and Mitigation
- VPN Implementation and Management

Work experience

Nov 2024 – Present **Network Engineer**

Co-operative bank of Kenya

- Network Performance Monitoring: Use SolarWinds and Zabbix to oversee the corporate network's efficiency, ensuring it meets business SLAs.
- Security & Compliance: Develop and enforce network security policies with Cisco ASA, FTD, Checkpoint, and Cisco ISE, ensuring compliance with industry best practices.
- Firewall Management: Maintain and manage Cisco ASA, FTD, and Checkpoint firewalls to protect against cyber threats while maintaining network performance.
- SD-WAN Implementation: Plan and deploy Huawei SD-WAN solutions to enhance network reliability, security, and performance across multiple locations.
- System Upgrades & Maintenance: Lead upgrades and patch management for Cisco network devices, ensuring consistent security and performance improvements.
- Voice & Communication Systems: Manage and optimize Cisco Unified Communications Manager (CUCM) and Avaya systems for seamless VoIP and video communication.
- Proactive Troubleshooting: Use monitoring tools to detect and resolve network issues, minimizing downtime and ensuring optimal performance.
- Project Leadership: Lead network and voice infrastructure projects, coordinating with cross-functional teams to meet deadlines and business objectives.
- Technology Research: Stay current on industry trends and integrate innovative solutions, focusing on network security, SD-WAN, and communication technologies.

Mar 2024 - Nov 2024 **Lead, Network Operations and Support**

Old Mutual Kenya

- Manage and support LAN, WAN, Wireless LAN, IP Telephony, Contact Center, and firewall systems.
- Conduct routine maintenance operations and apply patches to ensure network health and performance.
- Provide integral support in the administration of security appliances, including Cisco ISE, Checkpoint firewall and Portnox contributing to the overall security framework.
- Wireless network administration with Cisco Wireless Controller and Cisco Meraki
- Maintain and enforce support agreements with external vendors for efficient network support.
- Ensure availability of network resources both on-premise and in the cloud.
- Support regional teams with network escalations and project initiatives.
- Manage network capacity, including bandwidth upgrades and downgrades as needed.
- Plan and execute capacity upgrades/downgrades in a cost-efficient manner.
- Collaborate in secure design, setup, and support of MPLS networks and connectivity.
- Implement and maintain automated network monitoring and reporting technologies.

Sep 2022 - Mar 2024 Network Support Officer

Bank of Africa Kenya Ltd

- Spearhead the optimization and maintenance of the Bank's network security infrastructure, ensuring optimal functionality and resilience against cyber threats.
- Monitor and manage network devices to guarantee availability for both internal and external access, mitigating potential security risks.
- Proactively identify and resolve issues affecting both Wide Area Network (WAN) and Local Area Network (LAN) security devices, implementing preventive measures.
- Administer and maintain VOIP systems, including Call Manager and Contact Center, to ensure secure and efficient communication capabilities.
- Oversee WI-FI administration and maintenance, implementing security protocols to safeguard wireless network connectivity.
- Track and manage software and firmware versions, executing timely upgrades to the latest stable releases to enhance security posture.
- Provide integral support in the administration of security appliances, including Cisco ISE, Cisco ASA, BIG-IP, and Fortigate, contributing to the overall security framework.

Oct 2021 - Aug 2022 Information Communication Technology Personnel

Ministry of Education

- Support of E-Learning and content development in line with the schemes of work
- Provide class support and training of Primary School teachers in use of digital literacy devices
- Support implementation of the Digital learning program
- Carrying out innovations to enable schools improve on use of digital learning.
- Provide support in safe, secure and ethical use of technology in learning
- Assist teachers by integrating ICT in delivery of teaching, learning and assessment
- Support school staff with development and production of key school policies
- Provide first line support and maintenance of ICT services in the schools

Oct 2019 - Oct 2020 Information Communication Technology Personnel

Kenya Rural Roads Authority

- Deploying, configuring and maintaining ICT systems and databases, including networks, servers and telecommunications;
- Developing and coordinating network security measures to ensure the efficiency of the ICT infrastructure;
- Supporting the Road Management Systems (RMS), in addition to inputting road quantities and progress reports for road projects through the system;
- Providing timely and quality service delivery technical support and advice to users
- Setting up workstations with computers and necessary peripheral devices (routers/switches)
- Maintaining inventory of ICT equipment, hardware and software

Jul 2019 - Sep 2019 ICT Supervisor

The Kenya National Bureau of Statistics

- Training Content Supervisors and ensuring that Enumerators are well trained;
- Working with the Content Supervisors to ensure that the census enumeration starts at the agreed time in the assigned supervision areas;
- Carrying extra census equipment/materials to be given to the Content Supervisors in case of emergencies;
- Providing technical support on ICT issues to Content Supervisors and Enumerators in their area of supervision;

Sept 2017 -
Feb 2018 -

Web developer and Designer

Simcy Creative

- Back-end development of systems using PHP and Laravel
- Front-end development using bootstrap, Javascript, Jquery, HTML
- Database management
- System testing
- Web hosting and deployment
- Wordpress development and maintenance.
- API Programming
- Search Engine Optimization
- Planned website development, converting mockups into usable web presence with HTML, JavaScript, AJAX, and JSON coding.

Apr 2017 - June 2017

Network/Systems Administrator Intern

Sprinkler Limited

- Monitoring network performance to determine whether adjustments need to be made.
- Installing, configuration and troubleshooting network routers, switches, load balancers, and security devices.
- Assisting the IT department with various IT-related upgrades, projects, and tasks.
- Quickly responding to network outages.
- Participating in Team Meetings as required.
- Communicating technical information to IT staff members.
- Performing server backups and maintaining offsite tape storage.

Education

2013 - 2017

Bachelors of Technology in Computer Science and Technology

The Technical University of Kenya

Second Class (Lower Division)

2009 - 2012

Kenya Certiêcate of Secondary Education.

St Mary's Boys High School

KCSE Grade: B+

2000 - 2008

Kenya Certiêcate of Primary Education.

Valley Road Academy

KCPE Grade: 398/500 marks

Certifications

Cisco ID - CSCO14074787

Cisco Certified Network Associate - Year 2021 (CCNA)

Cisco Certified Specialist - Enterprise Advanced Infrastructure Implementation - Year 2023 (CCNP ENARSI)

Checkpoint Certified System Administrator - R81.20 - Year 2025 (CCSA)

Key Skills and Competencies

- **Firewall Management:** Expertise in configuring and managing firewalls
- **Intrusion Detection and Prevention Systems (IDPS):** Proficiency in implementing and maintaining IDPS
- **Voice Systems administration:** Administration of CUCM, UCCX and voice gateways.
- **Security Appliance Administration:** Experience with security appliances such as Cisco Identity Services Engine (ISE), Adaptive Security Appliance (ASA),Fortigate and Checkpoint for robust security policy enforcement.
- **Wireless Network Security:** Knowledge of securing wireless networks, including encryption protocols, authentication methods, and best practices for protecting Wi-Fi infrastructure.
- **Incident Response and Forensics:** Proficient in developing and executing incident response plans, conducting forensic analysis, and documenting security incidents for continuous improvement.
- **Network Monitoring and Analysis:** Familiarity with network monitoring tools to identify abnormal patterns, potential security breaches, and performance issues, ensuring the overall health of the network.
- **Communication Skills:** Effective communication to collaborate with cross-functional teams, articulate security risks to non-technical stakeholders.
- **Continuous Learning and Adaptability:** Stay updated with the latest cybersecurity threats, trends, and technologies to adapt and implement proactive security measures in a rapidly evolving landscape.
- **Certifications:** Cisco Certified Network Associate CCNA and Cisco Certified Specialist - Enterprise Advanced Infrastructure Implementation CCNP ENARSI

Referees

1. Ms. Beatrice Leitich
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2. Mr Kennedy Rono,
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