

THEOPHILUS UVIEKUGBERE

DEVOPS/SITE RELIABILITY ENGINEER

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Professional Summary:

- Possesses a comprehensive background in IT spanning over 4 years, excelled in roles such as DevOps/Cloud Engineering, Site Reliability, System Administration, and Information Security Engineering, demonstrating a commitment to supporting and enhancing core IT infrastructure.
- Key contributor within a dynamic team of DevOps engineers and Application Platform engineers at Africa's Largest Telecommunication company (MTN), tasked with supporting and managing core Enterprise grade Business APIs and Microservices processing an average of 4+ billion requests per month.
- Implemented proactive end to end logging, monitoring and alerting solution for MTNNG API Xchange platform using ELK (Grafana/Kibana/Prometheus) stack and Wavefront, leveraging visual dashboards like Kibana to observe, monitor, and optimize Application performance.
- Proficient in setting up CI/CD pipelines using GitHub Actions, Jenkins and AWS Codepipeline in both cloud and on-premises environments, utilizing GIT, Docker, and Jenkins plugins.
- Extensive experience in containerization with Docker, Docker-compose, and Kubernetes.
- Responsible for designing and building AWS infrastructure utilizing resources such as VPC, EC2, S3, ECS, EKS, RDS, Dynamo DB, IAM, EBS, Route53, SNS, SES, SQS, CloudWatch, CloudTrail, Security Group, Autoscaling, and RDS through CloudFormation templates.
- Proficient in scripting and automation for system deployment, ensuring scalability of infrastructure.
- Created comprehensive documentation on build and release processes, release workflows, and user guides for local builds.
- Utilized AWS Beanstalk for deploying and scaling web applications and services developed with Node.js, Python, and worked on AWS Lambda with Amazon Kinesis.

Technical Skills:

Configuration Management	Ansible
Version Control Tools	GIT, Github, Gitlab
Build Tools	Gradle, Docker, Ant.
Cloud Environment	Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure
Package Management	Nexus, Artifactory,
Code Quality Analysis Tools	SonarQube, Codecov, Trivy.
Bug Tracking Tools	JIRA
Monitoring Tools	Prometheus, Grafana, ELK, Kibana, Azure managed Grafana
Infrastructure as Code	Terraform and CloudFormation
Database Technologies	MySQL, MongoDB, Rabbitmq.
Scripting Language	Python, Bash
CI/CD	Github-actions, Gitlab CI, AWS codepipeline, Jenkins.
Web/Application Servers	Apache, Nginx.
Operating Systems	Windows and Unix

Professional Experience

- Investigates and Fixes Production and Preproduction issues on API's Microservices through Service Now and Jira.
- Eliminated extended downtime of services and processes by installing and configuring Elastic search, Grafana to **monitor Kubernetes clusters, APIs and Microservices**
- Implemented an initiative that reduced the number of failed transactions by 95% and increased the organization's revenue using scripts to mitigate the automate the mitigation of microservice timeout issues.
- Involved in migration and modularization of the infrastructure application through the usage of automation tool, ansible and integration with **Jenkins**.
- Developed **Ansible** playbooks for automatic deployment and configuration of **RHEL** servers for test and prod environments.
- Responsible for Setup and build **AWS infrastructure using** resources **VPC, EC2, S3, RDS, Dynamo DB, IAM, EBS, Route53, SNS, SES, SQS, CloudWatch, CloudTrail, Security Group, Autoscaling and RDS using CloudFormation templates.**
- Installed and configured **Prometheus** and **Grafana** on OKD cluster, Wavefront on VMWARE Tanzu Kubernetes cluster for the team and was also involved in setting up of our monitoring Dashboards.
- Used **AWS Beanstalk** for deploying and scaling web applications and services developed with Java, Node.js, Python and app deployments and worked on AWS lambda with Amazon kinesis.
- Deployed **Ansible modules** to provision and manage AWS EC2 instances, volumes, DNS, and S3.
- Automated deployments, scaling, and operations of application containers across clusters of hosts, provided container-centric infrastructure using **Kubernetes**.
- Developed strategic and cost optimized disaster recovery plans/procedures for EKS and workloads. on AWS following best practices which reduced MTTR by over 40%.

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- Created **Jenkins** pipelines for artifacts build, to perform **Docker** container build and uploading it to the Artifactory repository.
- Used **Terraform** and **Ansible**, migrate legacy and monolithic systems to **Amazon Web Services**. Used Terraform scripts to configure **AWS resources**.
- Created, managed **Kubernetes** objects like pods services, namespaces, applications and replication sets, deployments using YAML.
- Designed, implemented and maintained an On-demand temporary testing environments using Amazon **EKS and Argocd** thus reducing time to get feedbacks from tests by over 20%.
- Developed and maintained terraform modules for creating infrastructures and workloads on **AWS** including services such as EC2, IAM Subnets, VPC, AWS EMR, AWS System manager, Route53, CodeDeploy, Cloud watch, Cloud trail, S3 etc.
- Implemented **Ansible** to manage all existing servers and automate the build/configuration of new servers.
- Documented work procedures by creating comprehensive technical documentation of processes, ensuring clear and accessible reference materials for team members and stakeholders.
- Conducted advanced troubleshooting and advanced monitoring on EC2 Linux instances hosting Nginx webserver using CloudWatch logs and Prometheus while automating delivery of alarms using AWS SNS to minimize application downtime.
- Monitored Applications performance using **Prometheus** by navigating to code-level insight, creating alerts when nodes are down and CPU, Memory consumptions are high. Also, find root cause if it is code level or from deployment level.
- Integrated Jenkins with various DevOps tools like Ansible and used CI/CD system of Jenkins on Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build and test and deploy.

Information Security Engineer, (Intern).**On-Site**

- Understudied a team of security Engineers that designed and implemented extensive network security strategies for the firm following industry best practices.
- Performed vulnerability assessments and threat modelling on information systems with aid of CVE/NVD/CVSS
- Encrypted sensitive data using **OpenSSL** and Crypto API.
- Enhanced network Protection and securing endpoints by creating dual DMZ, installation of firewalls and Intrusion detection systems.
- Carried out Penetration tests on network systems using vulnerability scanning tools like **Nessus** tool, Metasploit framework, deployment of keyloggers and other various methods to test network resilience.

THE INITIATES PLC.**July 2019 – Jan 2021****System/Network Administrator (Academic Industrial Training),****Onsite**

- Successfully Planned and coordinated company's work events and toolbox meetings.
- Prepared, proofread and formatted workflow report and Job completion reports.
- Performed software installations and Windows/Linux operating systems while working with the maintenance team.
- Supported day-to-day operations, monitoring and resolving client/server and storage issues.
- Created and updated a data spreadsheet for routine maintenance of the company's information systems.
- Conducted routine and emergency maintenance of communications systems.

Education**Bachelor of Engineering (B.Eng.) Electrical/Electronic Engineering****Jun, 2015 – Aug 2021****UDACITY NANO-DEGREE CERTIFICATE Cloud DevOps Engineering Training Program****May 2022 -- Sept 2022****Professional Certifications**

- **Gremlin Certified Enterprise Chaos Engineering Certification – GECEC**
<https://www.credential.net/66acc161-2922-4e92-b58a-923817d679de#gs.3mtu1y>
- **AWS Certified Cloud Practitioner**
https://www.credly.com/badges/aaf81441-47d9-4c21-b998-ff2c25b0b4e6/linked_in?t=rpd2bx
- **Architecting on AWS**
https://www.credly.com/badges/1516440b-2151-46f6-8046-a82cade413cf/public_url

Online Course Work And Other Certificates

- **Managing Cloud-Native Applications with Kubernetes by Redhat on Coursera**
View certificate: <https://www.coursera.org/account/accomplishments/certificate/FEGLQPL3MAYF>
- **DevOps on AWS by Amazon Web Services on Coursera**
View certificate: <https://www.coursera.org/account/accomplishments/specialization/9786HTYTEPL9>
- **Foundations of Red Hat Cloud-native Development**
View certificate: <https://www.coursera.org/account/accomplishments/certificate/59BPYY7ZTC6X>
- **Architecting Solutions on AWS by Amazon Web Services on Coursera**
View certificate: <https://www.coursera.org/account/accomplishments/certificate/2UN4QKVQ24GK>
- **AWS Fundamentals: Building Serverless Applications**
View certificate: <https://www.coursera.org/account/accomplishments/certificate/VWN7JK57GGDN>

- **Containerized Applications on AWS**

View certificate: <https://www.coursera.org/account/accomplishments/certificate/RA8KB49LVYWD>

- **AWS Fundamentals: Migrating to the Cloud**

View certificate: <https://www.coursera.org/account/accomplishments/certificate/ES5P7ZLFQHUU>

- **Palo Alto Networks Cybersecurity Professional Certificate on Coursera.** [4 courses completed]

View certificate: <https://www.coursera.org/account/accomplishments/specialization/certificate/ENCHBUGD6JUE>

- **Cybersecurity in the Cloud Specialization By University of Minnesota**

<https://www.coursera.org/account/accomplishments/specialization/certificate/YPKKLY9SPXW>

- **Design and Analyze Secure Networked Systems By University of Colorado System**

View Certificate: <https://www.coursera.org/account/accomplishments/certificate/XEGAGRBBE5YD>

- **Google IT Support Professional Certificate by Google on Coursera**

<https://www.coursera.org/account/accomplishments/specialization/certificate/7FVU5GZRHEDG>

- **Hacking and Patching By University of Colorado systems**

View certificate: <https://www.coursera.org/account/accomplishments/certificate/4W535SL3TSFU>

- **Design and Analyze Secure Networked Systems**

View Certificate: <https://www.coursera.org/account/accomplishments/certificate/XEGAGRBBE5YD>