

Teddy Abera Danamo

Mid Level-DevOps Engineer

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PROFESSIONAL SUMMARY

Mid-level DevOps Engineer with a strong foundation in building, automating, and securing scalable infrastructures across cloud and on-premise platforms. Experienced in:

- Containerization & Orchestration with Docker and Kubernetes (RKE2)
- Infrastructure automation using Terraform, Terragrunt, and Ansible for reliable and efficient deployments
- CI/CD pipeline development with Jenkins and GitLab, streamlining builds and releases
- Network architecture, load balancing, and secure access (Nginx, Apache, HAProxy, and Keycloak)
- Monitoring, logging, and system administration on Unix/Linux (Zabbix, Prometheus, Grafana, ELK Stack)

Committed to delivering robust solutions that enhance performance, security, and deployment agility in dynamic environments

AREAS OF EXPERTISE

PROFESSIONAL SKILLS

Problem-Solving | Communication | Adaptability | Time Management |
Attention to Detail | Automation Mindset | Creativity | Continuous Learning

- **TECHNICAL SKILLS**

Programming Languages: Python, Shell Script, java

Containerization & Orchestration: Kubernetes (RKE2), Docker, Docker Registry

Version Control: Git, GitLab

Database Management: MYSQL, PostgreSQL, MongoDB, Elasticsearch

CI/CD: Jenkins, Gitlab

Web Servers & Load Balancers: Nginx, Apache, HAProxy, Pound, Terafik

Virtualization: Proxmox, Vmware, VirtualBox

Cloud Platforms: AWS, Azure, Openstack, Openshift

Logging And Monitoring: Zabbix, ELK Stack, Prometheus, Grafana, Mimr, SigNoz

Operating Systems: CentOS, RHEL, Oracle Linux, Ubuntu

Java Application Servers: WildFly, Tomcat

Identity & Access Management: Keycloak, Firebase, Teleport(Kubernetes Access Control)

IaC: Terraform, Terragrunt, Open Tofu

Secret management: Hashicorp Vault, 1Password, Infisical

- EDUCATION

- **Bachelor's in Computer Science**
Admas University, Addis Ababa | 2018 – 2022

PROFESSIONAL EXPERIENCE

OpenG2P Platform DevOps Engineer

Government Digital Transformation Project | Ethiopia | *Present*

- Multi-ministry infrastructure: Leading DevOps implementation for Ethiopian Agricultural Transformation Institute (ATI), Ministry of Women and Social Affairs (MoWSA), and Ethiopian Disaster Risk Management Commission (EDRMC)
- Enterprise Kubernetes: Deployed production-grade RKE2 clusters with Rancher, Istio service mesh, and Keycloak SSO across multiple government entities
- Hybrid cloud architecture: Architected dual-infrastructure deployments across Ethio Telecom cloud and on-premises environments for maximum resilience
- High availability systems: Configured HA infrastructure with Hardware RAID 1+0, XCP-ng hypervisor, and WireGuard VPN for secure connectivity
- Data migration leadership: Implementing large-scale beneficiary data migration from ODK to OpenG2P for national social protection programs
- Digital transformation impact: Supporting G2P systems for Ethiopia's Fayda ID-enabled digital transformation serving millions of citizens

Key Technologies: RKE2, Rancher, Istio, Keycloak, XCP-ng, WireGuard, OpenG2P Platform

Backend/DevOps Engineer

Centriweb | Remote, Auckland, New Zealand | Jun 2025 – Present

- Deliver backend and DevOps solutions supporting scalable, cloud-based applications for international clients.
- Implement and manage infrastructure automation with Terraform, ensuring consistent, auditable, and repeatable cloud deployments.
- Collaborate cross-functionally to streamline CI/CD pipelines and deployment strategies, accelerating release cycles and minimizing manual intervention.
- Monitor and maintain cloud resources for performance, reliability, and cost-efficiency, applying industry best practices in infrastructure as code and automation.
- Drive continuous improvement initiatives, integrating additional DevOps tools as needed to optimize workflow and system resilience.

Senior-DevOps Engineer (Cloud & Platform Team – Remote Contract)

Exponent.ch | April 6, 2025 – June 13, 2025

- Contributed to the architecture and delivery of scalable cloud-native infrastructure by provisioning RKE2 Kubernetes clusters on cloud platforms using Terraform and Terragrunt, adhering to GitOps and DRY principles for multi-environment support.

- GPU-Enabled AI/ML Infrastructure Management: Deployed and managed NVIDIA GPU-enabled RKE2 Kubernetes clusters supporting AI/ML workloads including n8n workflow automation, Langfuse LLM observability platform, LibreChat conversational AI, and ClickHouse analytics engine. Implemented GPU resource allocation, monitoring, and driver management for optimal AI/ML performance.
- Streamlined application deployment pipelines using Helm with modularized shared-stacks, enabling rapid and consistent rollout of services across staging and production environments.
- Integrated Teleport for secure, identity-aware access to Kubernetes clusters, enhancing access control, session recording, and compliance for internal and external operators.
- Designed and implemented a full-stack observability layer with Prometheus, Grafana, and Mimir, enabling high-resolution time-series metrics, alerting, and long-term data retention at scale.
- Led the secret injection automation via Lade and 1Password, allowing secure and dynamic secrets management for both Terraform provisioning and runtime application configuration.
- Worked cross-functionally with infrastructure and application teams to standardize DevOps practices, improve cloud resource efficiency, and support rapid experimentation with AI-integrated services.

DevOps Engineer

Atlas Computer Technology | 15 Feb 2023 – June 6, 2025

- Installed, configured, and optimized Docker for containerizing applications, enabling efficient resource utilization and simplified deployment across environments. Set up Kubernetes to orchestrate containerized services, enhancing application scalability, resilience, and automated management of containerized workloads. Configured Kubernetes clusters with resource limits, horizontal pod autoscaling, and load balancing to ensure efficient scaling and high availability under varying loads, improving overall application performance and operational efficiency.
- Configured Nginx as a reverse proxy for mobile banking, and installed, configured, and fine-tuned ActiveMQ for message brokering between mobile banking microservices and REST interfaces. Deployed and configured WildFly as a Java application server for mobile banking and USSD REST interfaces, and set up MySQL with optimized tuning for SQL database management supporting USSD and mobile applications. Implemented heartbeat monitoring for high availability and automatic failover, ensuring seamless service continuity and minimized downtime.
- Managed on-premise cloud infrastructure using Proxmox, deploying and configuring virtualized environments to support scalable application deployments and strengthened security protocols. Configured Proxmox clusters for resource optimization and high availability, ensuring minimal downtime and efficient load distribution. Additionally, managed cloud infrastructure on AWS, implementing best practices for scalable and secure deployments across distributed systems, leveraging services like EC2, VPC, and IAM to enhance infrastructure flexibility and security.
- Integrated applications with the ELK stack (Elasticsearch, Logstash, and Kibana) for centralized logging, enabling comprehensive real-time log analysis and streamlined troubleshooting. Configured Logstash to collect, parse, and forward logs from multiple sources, while Elasticsearch indexed data for rapid searchability and Kibana provided intuitive visualization for operational insights. Additionally, integrated production servers with Zabbix, Prometheus, and Grafana for in-depth resource monitoring, covering critical components such as WildFly Java app servers, MySQL databases, Nginx, Keycloak, and Kubernetes clusters. This setup allowed for proactive performance monitoring, threshold-based alerts, and detailed

analytics, ensuring robust system health visibility and optimal application uptime.

- Implemented CI/CD pipelines with Jenkins to automate the entire software lifecycle, from builds and testing to deployments, specifically for Maven-based Java applications. Configured Jenkins to manage build dependencies, run unit tests, and execute integration tests, ensuring code quality and reliability at each commit. Utilized Jenkins plugins for Maven integration, allowing automated builds to trigger upon code pushes. Set up environment-specific deployment stages to streamline releases, improve deployment frequency, and reduce lead time. This CI/CD setup enhanced development productivity, provided rapid feedback on code changes, and minimized manual intervention in the deployment process.

Junior DevOps Engineer

Atlas Computer Technology | 13 sept 2021 – 14 Jan 2023

- Managed on-premise cloud infrastructure using Proxmox, creating and scaling virtual machines to support application servers, web servers, and database configurations essential for production environments. Deployed, configured, and tested USSD and mobile app internet banking solutions on User Acceptance Testing (UAT) environments, collaborating with clients and developers to ensure full functionality and readiness for production. Additionally, set up monitoring for the production environment, overseeing performance metrics and resource utilization across USSD and mobile banking services to maintain uptime, quickly identify issues, and ensure optimal service delivery
- Implemented comprehensive security policies and integrated monitoring tools including Zabbix, Grafana, and the ELK stack, enabling real-time system and application monitoring. Configured alerting and dashboards to proactively track performance metrics, detect anomalies, and respond to security incidents, ensuring the integrity and availability of critical services.

Projects

Siinqee Bank USSD and Mobile Banking Project (DevOps Engineer)

Atlas Computer Technology Solutions

- **Overview:** Spearheaded the DevOps processes for Siinqee Bank's USSD and mobile banking platform, focusing on high availability and performance.
- **Infrastructure Management:** Leveraged Proxmox to establish a robust on-premise cloud infrastructure. Successfully created and managed virtual machines tailored for specific application needs, ensuring resource optimization.
- **Configuration and Deployment:** Deployed Java applications using WildFly, guaranteeing high performance even during peak usage. Integrated Nginx for strategic traffic management and load balancing, improving responsiveness and user experience.
- **Containerization:** Pioneered the use of Docker and Kubernetes, establishing a streamlined container orchestration framework that allowed for rapid scaling and efficient deployment processes tailored to the bank's unique needs.
- **CI/CD Implementation:** Designed and implemented a tailored CI/CD pipeline using Jenkins, which significantly reduced deployment time and improved release cycles for mobile banking applications.
- **Monitoring and Security:** Integrated Zabbix and Grafana for proactive system monitoring, allowing for real-time resource management and performance optimization.
- **Data Management and Security:** Developed comprehensive backup and migration scripts, ensuring data integrity. Implemented Keycloak for SSO, enhancing security measures across the platform.

- **Collaboration and Support:** Actively collaborated with developers during UAT to ensure application readiness and facilitated ongoing support for production environments, significantly improving the user experience.
- **High Availability:** Configured Heartbeat for high availability, ensuring that critical services remained operational and resilient to failures.

Hijra Bank USSD and Mobile Banking Project (DevOps Engineer)

Atlas Computer Technology Solutions

- **Project Overview:** Contributed significantly to the successful deployment and management of Hijra Bank's USSD services, with a primary focus on ensuring seamless customer engagement and robust security protocols.
- **Infrastructure Management:** Engineered a tailored cloud environment using Proxmox, optimizing the configuration of virtual machines dedicated to applications and databases to facilitate real-time transaction processing.
- **Configuration and Deployment:** Deployed Java applications using WildFly, guaranteeing high performance even during peak usage. Integrated Pound for strategic traffic management and load balancing, improving responsiveness and user experience.
- **Containerization:** Implemented Docker and Kubernetes for streamlined application deployment, achieving a notable 30% reduction in downtime during updates, thus enhancing overall service reliability.
- **CI/CD Implementation:** Developed bespoke Jenkins pipelines to automate the build and deployment workflows, effectively supporting the project's fast-paced development cycle and boosting team efficiency.
- **Monitoring and Security:** Set up a comprehensive monitoring infrastructure utilizing Zabbix and Grafana, which enabled real-time tracking of system health and performance metrics, leading to proactive issue identification and resolution.
- **Data Management:** Designed automated procedures for database backups and integrated Keycloak to provide secure user authentication, significantly bolstering the security framework for banking transactions.
- **Collaboration and Support:** Engaged with cross-functional teams to collect insights and drive ongoing enhancements to services, ultimately achieving increased customer satisfaction and loyalty.

Wegagen Bank USSD and Mobile Banking Project (DevOps Engineer)

Atlas Computer Technology Solutions

- **Project Summary:** Involved on the implementation of Wegagen Bank's mobile banking solutions, focusing on enhancing performance and security to deliver an exceptional customer experience.
- **Configuration and Deployment:** Fine-tuned WildFly application servers, ActiveMQ message brokers, and MySQL databases to ensure optimal performance under heavy load. Employed Pound to establish a secure reverse proxy architecture, enhancing load distribution and safeguarding user data.
- **Monitoring and Security:** Established a comprehensive monitoring ecosystem utilizing Zabbix and Grafana, delivering critical insights into system health and facilitating prompt responses to potential issues.
- **Containerization:** Led the initiative to integrate Docker and Kubernetes, promoting streamlined container orchestration that supported quick and reliable deployments as user traffic fluctuated.
- **Data Management:** Developed and executed database backup and log migration scripts to safeguard

critical data. Configured Keycloak for Single Sign-On (SSO) capabilities, enhancing user authentication and security across the application.

- **Collaboration:** Promoted a culture of teamwork with cross-functional teams to facilitate continuous service improvements, ultimately driving greater customer satisfaction and engagement.

On going Project

Ministry of Revenue Ethiopia Tax Payment Portal (DevOps Engineer Team Member)

Atlas Computer Technology Solutions

- **Overview:** I am Contributing as a team member in the development and deployment of the expansive Ministry of Revenue Ethiopia Tax Payment Portal. This ongoing project features clustered applications, ensuring scalability and resilience to meet high transaction demands.
- **Infrastructure Management:** Utilized Kubernetes (k8s) to orchestrate containerized applications, allowing for dynamic scaling and efficient resource utilization in a clustered environment.
- **Configuration Automation:** Implemented Ansible for configuration management, automating the deployment processes and ensuring consistent configurations across all environments.
- **CI/CD Implementation:** Developed and maintained CI/CD pipelines using GitLab, facilitating seamless integration and continuous delivery for rapid iterations of the Java application.
- **Secrets Management:** Integrated HashiCorp Vault to manage sensitive information securely, providing robust access control and auditing features.
- **Database Management:** Utilized PostgreSQL for reliable data storage, ensuring high availability and performance.
- **User Authentication:** Configured Keycloak for Single Sign-On (SSO) capabilities, enhancing user experience while maintaining stringent security measures.
- **Log Monitoring:** Implemented the ELK stack for comprehensive log monitoring, enabling real-time analysis and troubleshooting of application performance.
- **Reporting Tools:** Integrated Apache Superset and Jasper for advanced reporting capabilities, providing stakeholders with valuable insights and analytics.
- **Collaboration and Security:** Collaborated with cross-functional teams and worked closely with the Information Network Security Agency (INSA) to address security requirements, ensuring compliance with government standards.

Certifications

- **Advanced Kubernetes – LinkedIn Learning**, Issued Apr 2025
Credential ID:
bce78c6a65350da61f9bcfd9c1eb5fb8d3c3575a9ea7437a86f10d7a33d42cd5
Skills: Kubernetes

- **Advanced Terraform** – *LinkedIn Learning*, Issued Mar 2025, Expires May 2028
Credential ID:
ec8d3f2289c0ae7ff0fe9fb42af32ddd11e878d2c79e683c1cbfd528519063b2
Skills: Terraform
- **Build a CI/CD Pipeline** – *LinkedIn Learning*, Issued Mar 2025
Skills: DevOps, Continuous Integration & Delivery (CI/CD)
- **DevOps Foundations: Site Reliability Engineering** – *LinkedIn Learning*, Issued Mar 2025, Expires Jun 2030
Credential ID:
a77552ad4a325ad0aa7faa39b1809040c404f62bbc38a1be220c3e3716a9c72a
Skills: DevOps, Site Reliability Engineering (SRE)
- **Running Kubernetes on AWS (EKS)** – *LinkedIn Learning*, Issued Mar 2025, Expires Aug 2028
Credential ID:
4611efa804745b3ee9437d355f00a1e264cc3e368f5c192cdb8a9825ee9439f9
Skills: Kubernetes, Amazon EKS, AWS
- Linux Fundamentals Bootcamp
- NGINX Web Server from Scratch

References

- **Anteneh Temesgen** - Senior Software Engineer | [LinkedIn Profile](#)
- **Biruk Tesfaw** - Senior Software Developer | [LinkedIn Profile](#)
- **Muluken Solomon** - Senior Software Engineer | [LinkedIn Profile](#)