

Mohamed Zaki

DevOps Engineer

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PROFESSIONAL SUMMARY

Results-driven DevOps Engineer experienced in container orchestration with Kubernetes and Helm, containerization using Docker, Infrastructure as Code with Terraform, CI/CD automation with GitHub Actions, cloud infrastructure on AWS, and monitoring with Prometheus and Grafana. Skilled in Bash scripting and managing Linux environments to automate tasks, optimize workflows, and deliver scalable, resilient, and high-performance cloud-native systems.

PROJECTS

End-to-End CI/CD Pipeline for Application Deployment | *GitHub* **GitHub Actions** | **Terraform** | **Docker**

- Automated complete infrastructure provisioning and application deployment using **Terraform**, **AWS EC2** and **Docker**
- Implemented security-first **CI/CD** pipeline with **Trivy** scanning and **Slack** notifications in **GitHub Actions**
- Reduced deployment time from **30** to **5** minutes (**85%** faster) and eliminated manual configuration errors by **90%**

Terraform-Based AWS Static Website Hosting | *GitHub* **Terraform** | **S3** | **CloudFront**

- Automated the provisioning of a globally distributed static website using **Terraform** with **S3** and **CloudFront** on AWS
- Configured S3 for secure static hosting and applied **IAM** bucket policies to control public content delivery
- Enhanced site reliability and global performance with CloudFront CDN, reducing latency and deployment errors by **70%**

Enterprise Drupal Infrastructure Automation | *GitHub* **Ansible** | **Apache** | **MariaDB** | **PHP**

- Automated Drupal **LAMP** stack using **Ansible** with security-hardened configurations and encrypted credentials
- Implemented idempotent playbooks reducing deployment time by **87%** and eliminating manual configuration errors

Dockerized Flask To-Do Web Application | *GitHub* **Docker** | **Flask** | **Python**

- Containerized** a Flask-based To-Do web app using a lightweight **Python 3.10-slim** image for consistent deployments
- Optimized **Dockerfile** for faster builds and secure non-root execution
- Deployed and tested the containerized app locally, enabling seamless browser-based task management

AWS Persistent Web Hosting | *GitHub* **EC2** | **EBS** | **Apache**

- Deployed an **Apache** web server on **EC2** with the web root redirected to an attached **EBS** volume for data persistence
- Secured access with **IAM** and **security groups**, ensuring controlled **SSH/HTTP** connectivity
- Enhanced reliability and durability of hosted content, reducing downtime risk by **60%**

TECHNICAL SKILLS

Cloud Platforms: AWS (EC2, VPC, IAM, S3, CloudWatch, RDS, DynamoDB, ECS, EKS)

Containerization & Orchestration: Docker, Docker Swarm, Kubernetes, Helm

CI/CD & DevSecOps: GitHub Actions, Trivy

Infrastructure as Code (IaC): Terraform, Ansible, CloudFormation

Monitoring & Logging: Prometheus, Grafana, Loki

Programming & Scripting: Bash

Databases: Microsoft SQL Server

Version Control: Git, GitHub

Linux Administration & Web Servers: Red Hat System Administration I, II, & III, Apache, Nginx

Networking & Security: TCP/IP, OSI model, DNS, VLANs, SSH, TLS/SSL

EDUCATION

Zagazig University

Bachelor of Engineering in Electronics and Communications

May 2024

Egypt

LANGUAGES

Arabic: Native

English: Fluent