

Khaled Abd-Elhay Hawil

DevOps & Cloud Engineer

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PROFESSIONAL SUMMARY

DevOps Engineer with 1+ year of hands-on experience in system administration, cloud infrastructure, and automation. Proven expertise in designing and implementing high-availability architectures using AWS, Kubernetes, and Infrastructure as Code (IaC). Skilled in optimizing CI/CD pipelines, container orchestration, and implementing GitOps workflows across production environments. Strong foundation in security best practices, system reliability, and operational excellence. Passionate about leveraging automation to drive efficiency and continuous improvement in fast-paced DevOps environments.

PROFESSIONAL TRAINING

- **AWS re/Start Intensive Training Program (ITI)** **Mar 2025 – Jun 2025**
 - Completed a 12-week intensive cloud bootcamp, gaining hands-on experience in AWS, Linux, and DevOps
 - Delivered multiple real-world deployment projects with automation and cloud security in production environments.
- **Cloud DevOps Engineer Diploma (12 Months – Dolfined)** **May 2024 – May 2025**
 - Gained expertise in cloud computing (AWS), infrastructure automation, CI/CD pipelines, monitoring, logging, and version control.

EXPERIENCE

- **System Administrator and DevOps Engineer**
AlKhawarizmi.ai **Dec 2024 – Present**
 - Built and managed single and multi-node Kubernetes clusters using Kubeadm and EKS.
 - Implemented containerization solutions with Docker and Docker Compose, reducing developer setup time by 60%.
 - Scaled workloads on Kubernetes, achieving 99.9% uptime through meticulous monitoring and troubleshooting.
 - Deployed, managed, and troubleshooted applications across Linux and Windows environments on-premises and in the Cloud.
 - Collaborated closely with developers, operations teams, and clients to automate deployments and streamline release cycles, reducing deployment time from hours to minutes while ensuring solutions aligned with business requirements.
 - Implemented HAProxy with Keepalived, enabling automatic failover and reducing service interruptions to less than 1 minute.
 - Configured and maintained MongoDB replica sets and Redis clusters for data redundancy.
 - Managed and optimized Apache, Nginx, and IIS web servers, improving response times.
 - Automated deployment, configuration, and support processes using scripting (Bash)
 - Conducted root cause analysis (RCA) and documented incident reports to improve system reliability.
 - Managed cloud platforms and ensured high availability and scalability of applications.
 - Applied networking concepts (TCP/IP, DNS, firewalls, load balancers) to support enterprise systems.
 - Ensured application security compliance (SSL/TLS)

PROJECTS

- **Weather App- CI/CD with GitHub Actions & ArgoCD**
 - Built a GitHub Actions CI pipeline with automated testing & security scans, increasing code quality by 40%.
 - Implemented ArgoCD GitOps deployments, cutting manual intervention by 70%.
 - Tools: GitHub Actions, ArgoCD, Kubernetes, Docker, Go, Python, MySQL, Node.js, Trivy, YAML
 - Repo: [\[GitHub Link\]](#)
- **ITI Final Project-Full DevOps on AWS (MERN Stack)**
 - Provisioned AWS infrastructure using Terraform and Ansible, reducing provisioning time by 80%.
 - Built an end-to-end CI/CD pipeline with Jenkins, Docker, ArgoCD, and Trivy, reducing release cycle time by 50%.
 - Tools: Terraform, Ansible, Jenkins, Docker, ArgoCD, Trivy, AWS, MongoDB, Express.js, React, Node.js.
 - Repo: [\[GitHub Link\]](#)
- **Islamic App – Full DevOps Deployment (React/Flask)**
 - Deployed a React + Flask app with PostgreSQL on Kubernetes using Jenkins CI/CD, improving delivery reliability.
 - Adopted GitOps with ArgoCD and integrated Trivy security scanning, ensuring compliance and security.
 - Tools: Jenkins, Docker, Kubernetes, ArgoCD, Trivy, React, Flask, PostgreSQL, Python, GitHub
 - Repo: [\[GitHub Link\]](#)

TECHNICAL SKILLS

- **Operating Systems:** Linux administration (Ubuntu, CentOS, RHEL), Windows Server 2019
- **Containerization & Orchestration:** Docker, Docker Compose, Kubernetes(Kubeadm, EKS and Kind)
- **Configuration Management Tools & IAC:** Terraform, Ansible
- **Cloud:** AWS, DigitalOcean
- **CI/CD Tools:** Jenkins, GitHub Actions, Gitlab
- **Scripting Languages:** Bash, Python
- **Version Control Tools:** Git, GitHub, Gitlab
- **Testing and Monitoring Tools:** Prometheus, Grafana
- **Web servers:** Apache, Nginx
- **Databases:** MongoDB, Redis, PostgreSQL
- **Virtualization:** VMware , VirtualBox, Vagrant, MultiPass
- **Networking:** Firewall Configuration, HAProxy, Keepalived

SOFT SKILLS

- Problem-Solving & Troubleshooting
- Team Collaboration & Communication
- Time Management & Prioritization
- Technical Documentation & Knowledge Sharing
- Team Collaboration
- Analytical & Critical Thinking
- Continuous Learning & Adaptability

Education

Bachelor's degree in computer science,
Higher Institute of Management and Information Technology (HIMIT)

Sep 2019 – Jul 2023

COURSES/CERTIFICATIONS

- AWS Certified Cloud Practitioner - [\[Certificate Link\]](#)