

# 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 scalable, highly available architectures using AWS, Kubernetes, and Infrastructure as Code. Skilled in optimizing CI/CD pipelines, container orchestration, and GitOps workflows across production environments. Strong foundation in security best practices, system reliability, and operational excellence. Passionate about leveraging automation to improve efficiency, stability, and continuous delivery in fast-paced DevOps environments.

## EXPERIENCE

### • DevOps Engineer

#### Digination

Oct 2025 – Present

- Managed 20+ VMs and containers on Proxmox, supporting production workloads with 99.9% availability.
- Deployed and orchestrated containerized applications using Docker and k8s, improving deployment consistency by 70%.
- Configured OPNsense firewalls, VPNs, and network policies to secure enterprise systems.
- Automated deployments and CI/CD pipelines using Azure DevOps, GitHub Actions and Bash scripting.
- Monitored, troubleshooted, and resolved system, network, and application issues efficiently.
- Administered Linux and Windows servers ensuring stability, performance, and security.
- Automated deployment, configuration, and support processes using scripting (Bash)
- Applied networking concepts (TCP/IP, DNS, firewalls, load balancers) to support enterprise systems.
- Collaborated with cross-functional teams to execute zero-downtime deployments and improve infrastructure workflows.

### • System Administrator

#### AIKhawarizmi.ai

Dec 2024 – Oct 2025

- Built and managed single and multi-node Kubernetes clusters using Kubeadm.
- Implemented Docker and Docker Compose solutions, reducing environment setup time by 60% across teams.
- Scaled workloads on Kubernetes, achieving 99.9% uptime through meticulous monitoring and troubleshooting.
- Collaborated with cross-functional infrastructure teams to ensure zero-downtime deployments.
- Configured and maintained MongoDB replica sets and Redis clusters for data redundancy.
- Automated deployment and configuration tasks using Bash scripting, reducing operational effort by 50%.
- 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.

## PROFESSIONAL TRAINING

### • AWS re/Start Intensive Training Program (ITI)

Mar 2025 – Jun 2025

- Completed a 12-week intensive cloud bootcamp with hands-on experience in AWS, Linux, and DevOps
- Delivered multiple real-world deployment projects using automation and cloud security in production environment

### • Cloud and 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

## TECHNICAL SKILLS

- **Operating Systems:** Linux administration 1,2
- **Containerization & Orchestration:** Docker, Docker Compose, Kubernetes (Kubeadm, RKE2, EKS and Kind)
- **Configuration Management Tools & IAC:** Terraform, Ansible
- **Cloud:** AWS, DigitalOcean
- **CI/CD Tools:** Jenkins, GitHub Actions, Argocd and Flux
- **Scripting Languages:** Bash, Python
- **Version Control Tools:** Git, GitHub, Gitlab
- **Monitoring Tools:** Prometheus, Grafana
- **Databases:** MongoDB, Redis, MySQL
- **Virtualization:** ProxMox, VMware, VirtualBox, Vagrant, MultiPass
- **Networking:** TCP/IP, DNS, DHCP, VLAN, Firewall Configuration

## PROJECTS

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- **Task Management System – End-to-End DevOps & GitOps Pipeline**
  - Built a production-ready microservices application on Kubernetes (RKE2).
  - Implemented GitOps continuous delivery using Flux CD and Weave GitOps.
  - Integrated CI/CD automation, monitoring, and autoscaling for production use.
  - Tools: Kubernetes (RKE2), Flux CD, Weave GitOps, GitHub Actions, Docker, Prometheus, Grafana, Trivy, Kustomize, React, Node.js, Python, MySQL.
  - Repo: [\[GitHub Link\]](#)
- **ITI Final Project – Full DevOps on AWS (MERN Stack)**
  - Provisioned AWS infrastructure using Terraform and Ansible as IaC.
  - Built an end-to-end CI/CD pipeline using Jenkins, Docker, and ArgoCD.
  - Integrated Trivy security scanning to improve release stability and security.
  - Tools: Terraform, Ansible, Jenkins, Docker, ArgoCD, Trivy, AWS, MongoDB, Express.js, React, Node.js
  - Repo: [\[GitHub Link\]](#)
- **Weather App – CI/CD with GitHub Actions & ArgoCD**
  - Built a GitHub Actions CI pipeline with automated testing and security scanning.
  - Implemented ArgoCD GitOps deployments to eliminate manual release steps.
  - Deployed containerized services on Kubernetes with automated rollouts.
  - Tools: GitHub Actions, ArgoCD, Kubernetes, Docker, Go, Python, MySQL, Node.js, Trivy.
  - Repo: [\[GitHub Link\]](#)
- **Islamic App – Full DevOps Deployment (React / Flask)**
  - Deployed a React and Flask application with PostgreSQL on Kubernetes.
  - Implemented Jenkins CI/CD pipelines for automated build and deployment.
  - Adopted GitOps workflows using ArgoCD with integrated security scanning.
  - Tools: Jenkins, Docker, Kubernetes, ArgoCD, Trivy, React, Flask, PostgreSQL
  - Repo: [\[GitHub Link\]](#)

## CERTIFICATIONS

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- AWS Certified Solutions Architect – Associate [\[Certificate Link\]](#)
- AWS Certified Cloud Practitioner [\[Certificate Link\]](#)

## EDUCATION

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Bachelor's degree in computer science,

September 2019 – July 2023

*Higher Institute of Management and Information Technology (HIMIT)*