

# Khaled Abd-Elhay Hawil

## DevOps & Cloud Engineer

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### 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 (IaC). Skilled in optimizing CI/CD pipelines, container orchestration, and GitOps-driven 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

#### • System Administrator and DevOps Engineer

##### DIGINATION

Oct 2025 – Present

- Managed virtualized environments on Proxmox with VMs and containers for production workloads.
- Deployed containerized apps with Docker and Kubernetes including scaling and orchestration.
- Configured OPNsense firewalls, VPNs, and network policies to secure enterprise systems.
- Automated deployments and CI/CD pipelines using 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, SMTP) to support enterprise systems.
- Collaborated with infrastructure teams to ensure system, database, and network compatibility

#### • System Administrator and DevOps Engineer

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Dec 2024 – Nov 2025

- 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
- System Management: Install, configure, and maintain Linux servers (CentOS, RHEL, and Ubuntu)
- Configured and maintained MongoDB replica sets and Redis clusters for data redundancy.
- 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.

### TRAINING AND INTERNSHIP

#### • 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 DevOps Engineer Diploma (12 Months – Dolfined)

May 2024 – May 2025

- Gained expertise in cloud computing (AWS/Azure), infrastructure automation, CI/CD pipelines, monitoring, logging, and version control

### TECHNICAL SKILLS

- **Operating Systems:** Linux administration 1,2 (Ubuntu, CentOS, RHEL), Windows Server 2022
- **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, Gitlab, 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 Cloud Practitioner - [\[Certificate Link\]](#)

## Education

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

September 2019 – July 2023