

Khaled Abd-Elhay Hawil

DevOps & Cloud Engineer

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PROFESSIONAL SUMMARY

DevOps Engineer offering 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-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 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 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 infrastructure teams to ensure zero-downtime deployments.

System Administrator and DevOps Engineer

AIKhawarizmi.ai

Dec 2024 – Nov 2025

- Built and managed single and multi-node Kubernetes clusters using Kubeadm and EKS.
- 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 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

- **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

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

EDUCATION

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

September 2019 – July 2023