

Mahmoud Yassen

DevOps Engineer

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Professional Summary

- DevOps Engineer with a Bachelor's in Electronics and Communication Engineering and hands-on experience in automating workflows, deploying scalable cloud-native applications, and managing resilient infrastructure. Proficient in Ansible, Docker, Kubernetes, IaC, Jenkins, and VMware, with expertise gained from NTI-certified training and real-world project implementations. Strong collaboration skills, adaptability, and ability to drive innovation in high-pressure environments.

Skills

Technical skills:

- **Cloud Computing**

AWS, Azur

- **Infrastructure Tools**

VMware vSphere, vCenter Server, Kubernetes Cluster

- **DevOps Tools**

Ansible, Docker, Kubernetes, Jenkins, Terraform (IaC), Git/GitHub.

- **Operating system**

RHEL Administration | & ||, Windows

- **Programming & Scripting**

Basics Python, Shell Scripting.

- **Networking**

CCNA 200-301 (Routing, Switching, ACLs, DHCP, VPN). MCSA

Soft skills:

- Time Management, Problem-solving, Collaboration with development teams & Continuous learning .

Professional Experience

Cloud DevOps Intern | iVolve Technology ([Repo](#))

May 2025 – Aug 2025

Worked on real-world lab scenarios covering secure secrets handling, GitOps workflows, container scanning, and Kubernetes resource quotas, taints, and network policies.

- **Linux Administration (RHCSA):** Shell scripting, disk management, SSH, cron jobs.
- **Configuration Management:** Automated provisioning using Ansible Playbooks and Roles.
- **Build Tools:** Java app packaging using Maven and Gradle, artifact management.
- **Containerization with Docker:** Image creation, multi-stage builds, volumes, networks, Compose.
- **Kubernetes:** StatefulSets, Deployments, ConfigMaps, Secrets, Probes, RBAC, Helm.
- **CI/CD Pipelines:** Built end-to-end pipelines using Jenkins with shared libraries and agents.
- **GitOps:** Automated Kubernetes deployments via ArgoCD integrated with GitHub.

Cloud DevOps Acceleration (4 months) Scholarship ([Certificate](#))

National Telecommunication Institute (NTI)

New Administrative Capital

Feb 2025 – May 2025

- 1. Linux System Administration (RHCSA Certified Level):** Configured and managed RHEL-based systems with focus on LVM, service control, SELinux, and shell scripting following enterprise standards.
- 2. Infrastructure Automation using Ansible:** Built modular, reusable Ansible Playbooks and Roles for automating Linux server provisioning and configuration, with secure secret handling via Vault.
- 3. Containerization with Docker & Kubernetes:** Developed and deployed containerized applications using Docker and Kubernetes; managed networking, persistent volumes, and auto-scaling.
- 4. Cloud Fundamentals & AWS Practitioner Knowledge:** Acquired hands-on knowledge of core AWS services (EC2, IAM, VPC, S3), cloud security best practices, and cost optimization principles.
- 5. CI/CD and Infrastructure as Code (IaC):** Implemented automated deployment pipelines using Jenkins, and infrastructure provisioning with Terraform.
- 6. AWS Advanced Operations & Security:** Monitored and secured cloud workloads using AWS-native tools (CloudWatch, CloudTrail, Lambda, IAM, KMS); practiced incident response and serverless workflows.

Soft Skills: Project Management & Professional Presentation Skills.

- Data Center Technician (basics) & AWS Cloud Foundation (the core)

Academic Education

- Mansoura University, Faculty of Engineering.
B.in Electronics and Communication Engineering. | (2018 - 2023)
GPA: 3.1 & Project grade: Excellent

Certifications

- AZ-900: Microsoft Azure Fundamentals Certified | June 2023 ([Certificate](#))
- AWS Academy Graduate - AWS Academy Cloud Foundations ([Certificate](#))
- AWS Academy Graduate - AWS Academy Cloud Developing & Operations ([Developing](#) - [Operations](#).)
- AWS Academy Graduate - AWS Academy Cloud Security Foundations ([Certificate](#))
- Red Hat System Administration I & II (RH124 - RHA) - Ver. 9.3 ([Certificate I](#) – [Certificate II](#))
- Red Hat Enterprise Linux Automation with Ansible (RH294 - RHA) - Ver. 9.0 ([Certificate](#))
- Huawei Cloud Certified Developer – Cloud Native Certification (HCCD) ([Certificate](#))

Projects

Elastic Infrastructure using VMware and DevOps tools (Graduation Project)

- Install, Manage, and configure a data center with multiple VMware ESXi hosts with High Availability (HA), Distributed Resource Scheduler (DRS), and advanced options.
- Implement and configure Network attached and local storage for VMware-based infrastructure.
- Use vCenter Server to configure and manage ESXi networking and storage and monitor resource usage.
- Implement Kubernetes cluster using Ansible and deploy apps using docker and Kubernetes.
- Using Jenkins to automate building and deploying the app images to the cluster.

Modular AWS Infrastructure Lab With Terraform ([Repo](#))

- Built production-grade AWS infrastructure using reusable Terraform modules.
- Configured remote backend with S3 and DynamoDB for secure state management
- Automated EC2 provisioning via remote-exec and dynamic outputs
- Designed dual ALB setup: public (Nginx) + internal (Apache)
- Implemented NAT gateway to enable secure internet access for private subnets
- Tools: Terraform, AWS (VPC, EC2, ALB, NAT), Bash

Cloud DevOps Project – iVolve Technology Internship ([Repo](#))

Technologies: Terraform · AWS · Ansible · Jenkins · Docker · Kubernetes · ArgoCD · Prometheus · Grafana · GitHub · Tailscale

- **Infrastructure as Code (IaC):** Provisioned complete AWS infrastructure (VPC, subnets, EC2, SGs) using modular Terraform, with remote backend (S3 + DynamoDB) and CloudWatch integration.
- **Automated Configuration:** Used Ansible to install & configure Jenkins, Docker, Git on EC2 with dynamic inventory and SSH key setup.
- **CI/CD Pipelines:** Designed Jenkins pipeline to build, scan (Trivy), push Docker images, and auto-update Kubernetes manifests using shared libraries and GitHub webhooks.
- **Kubernetes & GitOps:** Set up on-prem kubeadm cluster (1 master, 2 workers), connected to Jenkins via Tailscale VPN, and deployed apps with ArgoCD for GitOps.
- **Monitoring & Observability:** Installed Prometheus + Grafana stack for full cluster monitoring with custom dashboards and kube-metrics integration.

Languages

- Arabic: Native
- English: Proficient.

Military Service Status

- Completed military service.