

Chams Eddine Abderrahim

DevOps Engineer

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Summary

DevOps Engineer with 2+ years of experience specializing in CI/CD pipeline optimization, cloud infrastructure management, and cost reduction. Proven track record in reducing cloud costs by 40% through Kubernetes migration, auto-scaling, and resource optimization. Skilled in Terraform, Jenkins, Azure DevOps, Kubernetes, and Azure.

Professional Experiences

DevOps Engineer Full-Time

Pass Consulting

Dec 2024 – Present

Lac2, Tunisia · Hybrid

- Provided Level 3 Support for Start7 Application with 60000 users monthly in production environments.
- Managed PostgreSQL clusters using Repmgr for high availability and replication.
- Setup CI/CD Pipelines using Jenkins

DevOps Engineer Full-Time

GoMyCode

Dec 2023 – Nov 2024

Lac 3, Tunisia · On Site

- Manage Multiple AKS Clusters using Terraform
- Create CI/CD Pipeline with Azure DevOps
- Manage and Maintain Neo4j Databases by adjusting its configuration as the workload increase
- Manage incidents such as application crashes in Production, DDOS Attack, Database issues
- Reduced cloud costs by 40%, decreasing monthly expenses from \$6,400 to \$3,800 by Resizing Machines, Migrate applications to Kubernetes, Optimize AKS clusters by configuring auto scaling with memory optimized machines, and eliminating unused resources
- Created a Disaster Recovery Plan (DRP) for Production Databases
- Bash scripting for database backup and restoration
- Deploy Keycloak in Production and Secure Mode
- Implement Grafana and Prometheus to design dashboards to Monitor Pods performance and Status
- Set up and configure an email server with proper DNS records (SPF, DKIM, DMARC) and PTR, ensuring emails reached inboxes without being marked as spam

DevOps Consultant Full-Time - Mission

Infraplus

Aug 2023 – Nov 2023

Paris, Île-de-France, France · Remote

- Migrated Jenkins Pipelines to BitBucket pipeline to reduce build failures caused by Jenkins Slave unreliability.
- Utilized BitBucket Kubernetes Runners to decrease server management costs.
- Reduced 2 hours weekly by developing a series of Bash scripts for SRE Engineers and Developers.
- Created CI/CD pipelines for Python microservices and ReactJS applications to deploy them on EKS/IKS clusters using BitBucket.
- Manage and maintain MariaDB Clusters.

INTERNSHIPS

DevOps Engineer

Cimapicoltura

Jun 2023 – Sep 2023

Delebio, Lombardy, Italy · Remote

- Provision 3-tier AWS infrastructure EC2 with RDS using Terraform.
- Created optimized Dockerfiles for frontend (ReactJS) and backend (NodeJS).
- Automated platform deployment on EC2 using GitHub Actions, Ansible and ECR.

DevOps Engineer Intern

VERMEG

Feb 2022 – May 2022

Lac, Tunisia

- Implemented CI/CD pipeline using Jenkins, Nexus, SonarQube, and GitLab in containerized environment
- Automated build, test, and deployment of Jhipster application using Maven and NPM
- Achieved resource optimization by utilizing containers instead of virtual machines

PROJECTS

[Remote Development Environment](#) | [Project Repo](#) | [Documentation](#) | [Youtube Tutorial](#)

- Built a Remote Development Environment for Developer using **Terraform**
- Configured remote developer machine with the necessary tools using **Ansible**, Dynamic Inventory, and **AWX**
- Provisioned a Shared and Scalable **GKE** Cluster using **Terraform module**
- Integrated **Keycloak** and **OpenLDAP** to enable Single Sign-On (SSO) for the applications deployed to Kubernetes (AWX, Grafana...)
- Installed Monitoring and Alerting system using **Prometheus** and **Grafana** Deployed with Helm on GKE
- Automated Developer Onboarding by using **Jenkins** pipeline to provision a new GCP instance for developer and trigger AWX to configure it with the necessary tools
- Created Backups of Kubernetes Namespaces and resources using **KastenK10** and Create Snapshots for GCP instances using **Veeam**
- Tested the Developer machine Infrastructure on GCP using ServerSpec tests

[Migrate 3-tier Application to AKS](#) | [Project Repo](#) | [Youtube Tutorial](#)

- Created Dockerfiles & Kubernetes Manifests files to deploy the application to Kubernetes
- Provisioned **Azure Kubernetes Service (AKS)** using **Terraform** with Attached **Azure Container Registry (ACR)**
- Used Gitops and **ArgoCD** for Continuous Deployment on AKS
- Used **Azure DevOps pipeline** to build, package, and push Docker images to **ACR**

TECHNICAL SKILLS

Infrastructure as Code (IaC) : Terraform

Containerization and Orchestration: Docker, Kubernetes, GKE, AKS

Continuous Integration/Deployment (CI/CD): Jenkins, Azure DevOps, GitLab CI/CD, GitHub Actions, ArgoCD, BitBucket

Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure

Configuration Management : Ansible, AWX

Monitoring: Prometheus, Grafana

Infrastructure testing: ServerSpec

Scripting: Shell Scripting (Bash), Python

User Federation: Keycloak, OpenLDAP

Container Registries: Docker Hub, AWS ECR, Azure ACR, Nexus Repository

EDUCATION

Master of Cybersecurity

Tunisia

Higher Institute Of Computer Science

Bachelor of Computer Science

Tunisia

Higher Institute Of Computer Science