

# Chams Eddine Abderrahim

## DevOps Engineer

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## Summary

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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

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### DevOps Engineer Full-Time

Dec 2024 – Present

*Pass Consulting*

*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

Dec 2023 – Nov 2024

*GoMyCode*

*Lac 3, Tunisa · 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

Aug 2023 – Nov 2023

*Infraplus*

*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

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### DevOps Engineer

Jun 2023 – Sep 2023

*Cimapicoltura*

*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

Feb 2022 – May 2022

*VERMEG*

*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

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**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

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**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

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**Master of Cybersecurity**

Tunisia

*Higher Institute Of Computer Science*

**Bachelor of Computer Science**

Tunisia

*Higher Institute Of Computer Science*