MOHAMED EL-HOUARY

Junior DevOps Engineer | Cloud Infrastructure & Automation

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SUMMARY

Software Engineering student focused on DevOps, cloud infrastructure and automation, with hands-on experience building containerized environments, CI/CD pipelines, Infrastructure as Code and observability solutions

TECHNICAL SKILLS

- **Cloud & Orchestration :** AWS (EC2, S3, VPC), Kubernetes, Docker, HELM.
- **IaC & Automation :** Terraform, Ansible, Jenkins, GitHub Actions.
- **Systems & Scripting :** Linux (Debian/Ubuntu/Kali/Arch), Bash, C/C++, Python
- **Observability :** Prometheus, Grafana Loki.

PROJECTS

Secure Cloud Infrastructure Automation

Built and automated secure cloud infrastructure using Terraform and Ansible. Integrated Jenkins for CI/CD, implemented DevSecOps practices with Vault and Trivy, and deployed monitoring solutions using Prometheus and Grafana to ensure secure and reliable operations.

ft_transcendence | Full-Stack Web Application

Developing a containerized full-stackwebapplicationusing Docker,NGINX,andPostgreSQL,with CI/CD, secure authenticatio n, monitoring, and maintainable infrastructure practices.
Integrating LLM interfaces, Retrieval-Augmented Generation (RAG), and voice/speech capabilities to support AI-powered features while maintaining a scalable and reliable application architecture.

Inception | Multi-Service Docker Orchestration

Designed an autonomous system using Docker to containerize Nginx, WordPress, and MariaDB.
Automated system monitoring to ensure high availability and performance tracking.

Custom Shell (MiniShell) | System Internals & Process Management

Engineered a functional CLI in C with command execution, pipes, and signal handling.
Managed complex process lifecycles and file descriptors to replicate core Bash logic.

Born2beroot | Linux Hardening & Automation

Implemented a secure Debian environment with LVM, sudoers policies, and SSH hardening.
Deployed automated Bash scripts for system monitoring and periodic security auditing.

EDUCATION

1337 UM6P – 42 Network

Software engineering
2024-2026

ADDITIONAL INFORMATION

- **Languages** : English,French,Arabic.
- **Github** : https://github.com/M-elhouary
- **LinkedIn** : https://www.linkedin.com/in/mohamed-el-houary
- **Portfolio**: mohamed-elhouary.me