Achouri Malek Cloud & DevOps Engineer

✉ malakachouri200@gmail.com   📞 92423548   📍 Sfax , Tunisia   in www.linkedin.com/in/achouri-malek

🐧 https://gitlab.com/malekachouri025

EDUCATION

2022 – 06/2025 sfax, Tunisie	**National School of Electronics and Telecommunications of Sfax (ENET'Com),** Cloud Engineering and Devops
2019 – 2022 Mahdia, Tunisie	**Higher Institute of Applied Sciences and Technology of Mahdia,** Bachelor's degree in computer science and communication technologies

PROFESSIONAL EXPERIENCE

02/2025 – 07/2025
Sfax, Tunisie

Design of a Distributed Private Cloud with OpenStack for Resilient Applications on Kubernetes, KPIT Technologies
- Designed and automated a multi-node private cloud using **OpenStack**, **Ceph**, **Kolla-Ansible**, and **Terraform**, reducing deployment time by 40%
- Deployed a **Kubernetes (K3s)** cluster inside OpenStack VMs for reliable orchestration of containerized applications
- Integrated distributed services (**MongoDB**, **MariaDB**, **Memcached**, **RabbitMQ**) to enhance performance and modularity
- Implemented centralized monitoring with **Prometheus**, **Grafana**, **Fluentd**, and **OpenSearch** for improved incident detection and response
- Delivered a highly available, scalable, and secure cloud architecture ready for production workloads
Tools: OpenStack, Ceph, Kolla-Ansible, Terraform, Kubernetes (K3s), Prometheus, Grafana, Fluentd, OpenSearch

07/2024 – 08/2024
Sfax, Tunisie

Development of a Custom Deployment Dashboard for ArgoCD, Sofrecom
- Deployed a lightweight **Kubernetes (K3s)** cluster after evaluating **KIND** and **Kubeadm** for optimized development environments
- Automated deployments using **GitLab CI/CD** and **ArgoCD** based on **GitOps** practices
- Developed a custom dashboard with **ArgoCD** to monitor deployments
- Implemented proactive alerting and performance monitoring with **Prometheus**, **Alertmanager**, and **Grafana**
Tools: K3s, ArgoCD, GitLab CI/CD, Prometheus, Alertmanager, Grafana, Ansible, Helm, Kustomize, Terraform, Bash, Python

06/2024 – 08/2024
Sfax, Tunisie

Private Cloud Infrastructure with OpenStack and Kubernetes, Primatec Engineering
- Deployed an OpenStack "all-in-one" cloud using **Packstack**, with comparative analysis of **Kolla-Ansible** and **DevStack**
- Evaluated scalability and performance of various OpenStack installation methods
- Set up a **Minikube** Kubernetes cluster for testing and deploying web applications
- Used **Docker** for efficient containerization and resource optimization
Tools: OpenStack, Kubernetes (Minikube, K3s), Docker, Packstack, DevStack, Kolla-Ansible

02/2022 – 07/2022
Mahdia, Tunisie

IT Automation with Ansible, GENIOS
- Automated deployment and configuration of infrastructure components (**Docker**, **DNS**, essential services) using **Ansible**
- Deployed web applications across multiple machines with Ansible, ensuring consistency and reliability
- Maintained high availability through proactive maintenance and automation
Tools: Ansible, Docker, DNS

ACADEMIC PROJECTS

10/2024 – present

Academic Project | CI/CD Automation with AWS Step Functions
- Designed automated CI/CD workflows using **AWS Step Functions**, **Lambda**, and **S3**
- Deployed scalable infrastructure with **CloudFormation** and **Boto3** (Python)
- Implemented multi-environment pipelines with automatic rollback
Tools: Step Functions, Lambda, S3, CloudFormation, Boto3, Python

11/2023 – 04/2024

Final Year Project | GitOps with Argo CD
- Managed scalable Kubernetes clusters (**K3s**, **Kubeadm**, **Minikube**) for development and testing environments
- Automated CI/CD and IaC deployments with **ArgoCD** following GitOps best practices
Tools: Kubernetes (K3s, Kubeadm, Minikube), Argo CD, Jenkins, Docker, GitLab, Helm, Kustomize

CERTIFICATIONS

Terraform Basics Training Course ⧉   •   GitLab CI/CD: Architecting, Deploying, and Optimizing Pipelines ⧉   •

AWS Cloud Practitioner (CLF-C02) ⧉   •   CCNA1   •   Introduction to Containers with Docker, Kubernetes, and Open Shift   •

Introduction to Kubernetes ⧉   •   Getting Started with Ansible ⧉   •   DevOps 101 ⧉   •   GitOps with ArgoCD ⧉   •

Introduction to AWS Data Pipeline ⧉   •   Getting Started with Jenkins ⧉

Awards

17/10/2024	**1st Place - Green Tech Hackathon,** WE-SPICE Program: Initiative by Technische Universität Chemnitz and DRÄXLMAIER Group to foster skills in green technologies.

Volunteer Experience

09/2023 Sfax, Tunisie	**Microsoft Tech Club - ENET'Com,** General secretary

LANGAGES

Arabe   •   Anglais   •   Français   •   Italien