

Mariem Louhichi

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Telecommunications engineering student

EDUCATION

- | | |
|-----------------------|---|
| 2021 - present | <ul style="list-style-type: none">• Telecommunications Engineering
National School of Electronics and Telecommunications (ENET'COM Sfax) |
| 2019 - 2021 | <ul style="list-style-type: none">• Preparatory Cycle
Preparatory Institute for Engineering Studies (IPEIS) |
| 2018 - 2019 | <ul style="list-style-type: none">• Bachelor's degree in Mathematics
July 25, 1957 High School |

Skills

DevOps Tools and Technologies : CI/CD (GitLab CI, Azure DevOps), OpenStack, Azure Cloud, Azure Sentinel(SIEM), Git, GitHub, Docker, Terraform, Ansible, Bash, Jira.

Network Administration : DHCP, DNS, Active Directory, VirtualBox, Matlab, Packet Tracer Cisco, eNSP Huawei, Hyper V, VMware.

Tools and Programming Languages : Python, Java/JEE, PHP, Yaml, SQL, JavaScript, G-Code, Arduino, Eclipse, VS code, PyCharm.

SGBD and modeling : MySQL, Oracle BD, UML, Star UML.

Agile methodologies : Scrum, Kanban, Jira.

LANGUAGES

English : Fluent (reading, writing, speaking)



French : Fluent (reading, writing, speaking)



Arabe : Native language



INTERSHIPS AND ACADEMIC PROJECTS

July 2023–August 2023 • SiFast • DevOps/Cloud

Sfax, Tunisia

Mission : Implementation and configuration of OpenStack, with automation of resource provisioning.

Tasks :

- Implementation and configuration of OpenStack on-prem and on Azure Cloud.
- Automation of virtual machine provisioning and other types of resources on OpenStack with Terraform.
- Creation of a CI/CD pipeline using "GitLab CI" to provision and manage Terraform resources on the OpenStack cloud.

Environment : OpenStack, Azure Cloud, Git, GitLab CI, Terraform, Ansible, Yaml.

January 2023-Mai 2023 • DevOps/Cloud/Security • PFA

Sfax, Tunisia

Mission : Configure the SIEM solution "Azure Sentinel" to detect and visualize attacks on a virtual machine created and configured on the "Azure" cloud using DevOps technologies.

Tasks :

- Automate the provisioning of a virtual machine and its associated networking on Azure using Terraform.
- Create a Git repo on GitHub that contains the Terraform source code.
- Create a CI/CD pipeline on « Azure Pipelines » to provision and manage Terraform resources on the Azure cloud.
- Make the VM vulnerable and discoverable on the internet with terraform.
- Create and configure the Log Analytics workspace on Azure.

- Activate the collection of logs from the virtual machine.
- Connect Log Analytics to the virtual machine.
- Configure Azure Sentinel.
- Develop a script to retrieve the geolocation of attackers
- Configure the Azure Sentinel map so that it can analyze geographic data.
- Secure the VM with terraform.
- Dockerize a web application.
- Build and deploy a Dockerized application on Azure with a CI/CD pipeline.
- Detect web application vulnerabilities with Azure Sentinel.
- Collect application logs with Log Analytics.
- Use and visualize application logs with Azure Sentinel.

Environment : CI/CD (GitLab CI, Azure DevOps), Azure Cloud, Azure Sentinel (SIEM), Git, GitHub, Docker, Terraform, Bash.

July 2022 • IOT • Telnet

[Sfax, Tunisia](#)

Mission : Development of scripts to calibrate and control a robot for an electronic payment application.

Environnement : G-Code, Python, PyCharm, Arduino, Tkinter