

ZAKARIA KEBAIRIA

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EDUCATION

Higher School of Computer Science 08 May 1945 - Sidi Bel Abbas

Master's & Engineering Degree in Computer Science (Supervised by [Pr. Rahmoun Abdellatif](#))

Sep 2021

EXPERIENCE

Emploitic

DevOps Team Lead Engineer

May 2023 - Present

Draria, Algiers

- Seamlessly migrated a GitLab server from version 14.9.2 to 16.8.2, transitioning from an LXC container to a Dockerized environment. For over 160 users, 288 projects, and 22 groups, while optimizing configurations and establishing a backup routine.
- Designed and maintained a robust CI/CD pipeline.
- Designing proactively monitored systems for security threats, ensuring data protection.
- Managed IT infrastructure for system stability and high availability.
- Utilized diverse tech stack (AWS, Terraform, Kubernetes, Docker, Nginx) for scalable infrastructure.
- Overhauled Linux server configurations across the organization, rectifying non-compliant partitioning and naming practices.
- Employed RAID for enhanced data redundancy, LVM for dynamic filesystem scalability, and strategically shifted to XFS to avert EXT4's inode exhaustion risks.
- Streamlined backups and restoration processes from conventional rsync to NFS share via VPN, cutting operational time from 9 to 2 hours, a 78% increase in efficiency.
- Implemented and managed database backups (Arango, MySQL, PostgreSQL, MongoDB, Redis) for data integrity and disaster recovery.

Contractor

System/Cloud Engineer

Jan 2023 - Apr 2023

Remote

- *Namla*
 - Implemented Packer files for cross-platform image generation (QEMU, AWS, VMware) at Namla.
 - Automated tasks with Bash scripts, enhancing efficiency and reducing manual efforts.
 - Managed AWS infrastructure using Terraform, including VPCs, networking, and VMs across regions.
 - Developed 50+ AppArmor profiles and associated systemd services for enhanced security and reliability.
 - Collaborated on designing a scalable cloud infrastructure meeting business needs.
- *APCS (Algerian Port Community System)*
 - Deployed high-availability Kubernetes cluster with kubeadm, HAProxy, and Keepalived.
 - Developed 10+ Ansible playbooks for efficient application management integrated with CI/CD.
 - Containerized company's monolithic app into microservices using Dockerfiles and Kubernetes.
 - Established CI/CD pipeline with Jenkins (CD), GitLab (CI), and Kubernetes as the core infrastructure.
 - Automated tasks through Bash scripts.

- Presented project technologies to APCS team, offering guidance and support.

LabLabee

DevOps Engineer

Oct 2022 - Jan 2023

Oran, Algeria

- Deployed OpenStack several times for a Network Functions Virtualization (NFV) project using OpenStack Tacker.
- Created multiple shell scripts to automate tasks such as deployment, monitoring, and enhancing user experience.
- Troubleshoot issues and provided technical support to users, ensuring that their issues were resolved in a timely and efficient manner.
- Actively participated in team meetings and collaborated with other engineers to ensure that project goals were met on time and within budget.

Umaitek

System Engineer

Feb 2022 - Oct 2022

Algiers, Algeria

- Integrated multiple projects at Umaitek involving various IT solutions.
- Migrated 1k+ user accounts to Zimbra mail platforms using Python and Bash scripts.
- Installed, configured, upgraded, and enhanced Linux servers, virtualization platforms (RHV, Proxmox), cloud environments (OpenStack), containerized infrastructures (Kubernetes, Docker, Podman, LXD), and storage solutions (GlusterFS, Ceph, NFS, iSCSI).
- Daily tasks included resolving clients tickets, providing architectural guidance to software development for resiliency and efficiency, troubleshooting hosted services, and managing technical incidents and internal communication.

LABRI Research Center ESI-SBA

Real-Time web-based Suspicious Behavior Detection System in a Fog-Edge distributed architecture

6 months

Algiers, Algeria

- Designed, implemented, and deployed a fully automated multi-layer infrastructure for a real-time suspicious behavior detection platform using Deep Learning.
- Used the Edge, Fog, and Cloud computing paradigms for the project infrastructure.
- Worked in different phases of DevOps such as Design, Code, Build, Test and Monitor.

Instructor

2018 -- 2021

- Became a RedHat Certified System Administrator (*AlphaBit Club -- ESI-SBA*) *2018 -- 2019*
- Became a RedHat Certified System Administrator (*Ingeniums Club -- ESI-SBA*) *2019 -- 2020*
- RedHat Special Course -- "became a Linux expert" (*AlphaBit's Cells Program -- ESI-SBA*) *2020 -- 2021*

TECHNICAL STRENGTHS

Programming	Python, Bash, AWK, Elisp
Os	Linux(RedHat, Ubuntu, Debian, Arch), BSD servers
Virtualization	KVM & QEMU, Proxmox
Monitoring	Prometheus, Grafana, Zabbix
Databases	MySQL
DevOps	Ansible, Kubernetes, Packer, Terraform, Podman, Docker, Docker Compose, LXD, Vagrant, Gitlab
Tools	Git, Vim, Emacs, Tmux, Zsh
Language	Arabic(Native language), French, English

CERTIFICATION

RedHat Certified System Administrator (<i>RHCSA</i>)	<i>June 2019</i>
Juniper Networks Certified Associate (Cloud) (<i>JNCA</i>)	<i>Oct 2019</i>
Cisco Certified Network Associate (Routing and Switching) (<i>CCNA</i>)	<i>Feb 2020</i>

PERSONAL PROJECTS

[ZARS](#): An auto-rice script using Ansible & shell-script for my dwm, st and all of my configurations and dotfiles. [kvmcli](#): A Python wrapper for managing virtual machines in a KVM-based cluster. [homelab](#): My Homelab for kubernetes and other services. [org-master](#): My org-mode/Emacs configuration for my master thesis.