ZAKARIA KEBAIRIA

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EDUCATION

Higher School of Computer Science 08 May 1945 - Sidi Bel Abbes   *Sep 2021*
Master's & Engineering Degree in Computer Science (Supervised by Pr. Rahmoun Abdellatif)

EXPERIENCE

Emploitic   Mai 2023 - Present
IT Manager   *Draria, Algiers*

- Leading company-wide cloud migration: Responsible for infrastructure design, migration strategy, and team management throughout transition process.
- 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.
- Redesigned and refactored company-wide CI/CD pipelines, leveraging GitLab's advanced capabilities to implement modern deployment strategies, resulting in significantly reduced integration and deployment times.
- Managed IT infrastructure for system stability and high availability.
- Overhauled Linux server configurations across the organization, rectifying non-compliant partitioning and naming practices.
- Streamlined backups and restoration prcesses 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   Jan 2023 - Apr 2023
System/Cloud Engineer   *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.
- Automated tasks through Bash scripts.
- Presented project technologies to APCS team, offering guidance and support.

LabLabee   Oct 2022 - Jan 2023
DevOps Engineer   *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.
- Troubleshot 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 budge

Umaitek   Feb 2022 - Oct 2022
System Engineer   *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   6 months
Real-Time web-based Suspicious Behavior Detection System in a Fog-Edge distributed architecture   *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 Languages	Python, Golang, Bash, AWK, Elisp
Os	Linux(RedHat, Ubuntu, Debian, Arch), BSD servers
Virtualization	KVM & QEMU, Proxmox
Monitoring	Prometheus, Grafana, Zabbix
Databases	MySQL, PostgreSQL, MongoDB
DevOps	Ansible, Kubernetes, Packer, Terraform, Podman, Docker, Docker Compose, LXD, Vagrant, Gitl
Tools	Git, Vim, Emacs, Tmux, Zsh

CERTIFICATION

RedHat Certified System Administrator (*RHCSA*)   *June 2019*

Juniper Networks Certified Associate (Cloud) (*JNCA*)   *Oct 2019*

Cisco Certified Network Associate (Routing and Switching) (*CCNA*)   *Feb 2020*

PERSONAL PROJECTS

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

LANGUAGES

Arabic(Native language), French, English