Sameh Cherif
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Strasbourg
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Senior DevSecOps Engineer

+6 years as Ops Engineer
+3 years as IT Instructor

Work-Experience:

Lead DevOps:

since may 2023

Mission [3]: Deploy Drupal & Wordpress websites with SFTP & SMTP services on K8S (kapsule)
Tools: scaleway, kapsule, container registry, vpc, public gateway, Loadbalancers, block storage, object storage, bitbucket, gitlabci, helm-chart, terraform, Kubernetes, docker, docker-compose, let's encrypt, cert-manager, nginx
Tasks/Responsibilities:

- IaC creation using terraform template,
- PaC creation using gitlab.ci to deploy the IaC on Scaleway cloud provider
- PaC creation to build & deploy the websites using bitbucket
- website helm chart creation
- git branching & versioning

Mission [2]: Build SIEM Stack
Tools: scaleway, kapsule, container registry, serverless functions, serverless jobs, vpc, public gateway, external DNS, Loadbalancers, block storage, object storage, gitlabci, helm-chart, terraform, Kubernetes, docker, docker-compose, let's encrypt, cert-manager, nginx
Tasks/Responsibilities:

- IaC creation using terraform template,
- PaC creation using gitlab.ci to deploy the IaC on Scaleway cloud provider
- Wazuh Cluster creation as K8S workloads
- Graylog deployment & link with wazuh cluster

Mission [1]: migrate banking solution from VMs to openshift cluster (OCP)
Tools: azure DevOps, harbor, artifactory, openshift, vsphere
Tasks/Responsibilities:

- Develop CICD pipelines using Azure DevOps,
- install openshift infrastructure on prem using vsphere
- migrate application from VMs to openshift cluster

Senior DevOps Engineer & Team Lead: [Keyrus MEA]

Nov. 2022 - April 2023

Project: Samea (MaxIt) SuperApp: a telco Mobile & web application for Orange MEA (hosted in 8 countries to be used by most than 80K users), mainly composed of 6 modules each one holds at least 10 micro-services, deployed on Private Cloud based on Openstack & openshift.

Tools: Openshift, Kubernetes, Helm, Docker, docker-compose, github Actions, SonarQube, Harbor, Redhat GitOps (ArgoCD), Prometheus, Grafana, Loki, ELK, S3, MinIO, SDN, Kafka, mongoDB, postgreSql, Keycloak, Krakend, killbill, Openstack, Linux/ubuntu Dependabot, Maven, quarkus, node.js, flutter, Swagger, postman

Tasks/Responsibilities:

- ➔ Design & implement a High available & scaling infrastructure, define the hosting & the sizing
- ➔ Design & implement the delivery and deployment strategies (blue/green, canary deployments).
- ➔ Design & implement the different workflows (CICD pipelines, observability workflows {monitoring, logging, tracing})
- ➔ Write the Architectural Design Documents (DAT, HLD, LLD)
- ➔ Accelerate & Secure the SDLC with DevSecOps Strategies (design & apply the needed policies, standards, controls & best practices)
    - ◆ Git Branching, versioning & Release Management
    - ◆ Secure coding using Dependabot, SCA, SAST, DAST, IAST
    - ◆ Container & image Scan using Harbor (trivy/clair) to detect vulnerabilities. + Define & create network policies, execute non-root containers, …
    - ◆ API security: API Gateway configuration (krakend) & Oauth2 integration (keyclaok) for authentication & authorisation, CORS Configuration, mTLS usage,
    - ◆ security & compliance: identity and Access management (RBAC) & policies enforcement & Secrets management
- ➔ Implement Infrastructure as a code & deploy it on Openshift clusters
- ➔ Implement Pipeline as a code (PaC) & Apply GitOps Strategies
- ➔ ensure that all infrastructure solutions delivered meet functional and non-functional business requirements
- ➔ Disaster Recovery & Business Continuity Planning

DevOps Engineer: [Venari Security]

december 2021 - october 2022

Project: Encrypted Traffic Analysis (ETA) platform. Without decryption, the platform leverages artificial intelligence, machine learning, and behavioural analytics, allowing organisations to better understand their encrypted traffic attack surface by detecting abnormal behaviour and adhering to internal and regulatory compliance.

Tools: Rancher, rke, Kubernetes, Helm Vagrant, Packer, Terraform Docker, docker-compose, GitLab, Gitlab.CI, SonarCloud Prometheus, Grafana, ELK, datadog, splunk, Keycloak, Kafka, Storm, cratedb, postgresql, sbt, maven, gradle, python, java, kotlin, springboot linux/ubuntu/Debian/centos, jira, AWS: EKS, EC2 instances, Security Group (SG), Network access Security List (NACL), ALB/ELB, IAM, AMI, RDS, elastic IP, VPC, S3, EBS, route 53, cloudwatch,...

Tasks/Responsibilities:

- Create the EKS Clusters using Terraform Templates
- Create on-prem Kubernetes Clusters using Rancher & RKE
- Create the needed K8S yaml files for all ETA platform components
- Create Helm charts
- Using packer generate various virtual disk image {OVA, AMI, VMDK} of the customized OS.
- Implement git workflow strategy for git branching, artifact versioning and deployment on the different EKS environments {dev, staging, pre-prod, prod} - Implement CI/CD pipelines using gitlab.ci that contains theses main stages:

+ Static code analysis using sonarcloud for java applications, pylint & flake8 for python applications
+ Run unit tests, & integration tests
+ Build the artifact, then store it into GitLab package registry
+ Build docker image based on the artifact, then push it to the GitLab container registry
+ Deploy the new docker image on the different k8s clusters

- Apache Storm & Kafka & Cratedb Configuration - API Gateway Configuration

Cloud & DevOps Software Designer: [Actia Engineering Services]

april 2020 - November 2021

Project: Migration of the diagbox desktop vehicle diagnostics app to cloud, for Stellantis (PSA)

Tools: Rancher, RKE, Terraform, vagrant, Kubernetes, helm, kustomize, Docker, docker-compose, Git, SVN, Hudson, GoCD, sonarqube Artifactory, Harbor - Maven, Gradle, Java/springboot, Perl, GoLang, Keycloak, Windows, Linux/ubuntu/Alpine, Jira, Azure: AKS, ACR, Application Gateway, - AGIC, IAM, Storage Account, DNS, Vault, VNet/Subnet, Blob Storage, VPN - Gateway

Tasks/Responsibilities:

- Create Azure Environments (dev, qa, wdb) for the deployment of DiagCloud project, this environment is composed of a resource group that include a VNet/subnet, AKS cluster, ACR, AG, managed identity, storage account, vault key. And create DNS Zones & Make the deployment of DiagCloud project in all these environments.
- Create AKS Cluster containing Linux & Windows Server nodes, to be able to deploy ASP.net application & Java microservices & C++ applications as containers
- Create the different K8S yaml files, that are necessaries for the deployment of DiagCloud project.
- Implement the HPA scaling system based on gathered metrics on Prometheus, for a set of microservices deployed in AKS clusters Use Kustomize to update configuration options according to our environments (dev, qa, prod)
- Create/update springboot and angular projects files configuration to manage all profiles
- Dockerization of Spring boot & Angular Projects using multi-stage build
- Dockerfiles & extracted jar layer
- Static code analysis using PMD, checkstyle, FixBugs, ...
- Build maven projects usingHudson & upload them to artifactory
- Build CICD pipeline using Hudson & GoCD
- Store & Scan Docker images for vulnerabilities using Clair/harbor

Artificial Intelligence & Robotic Process Automation Engineer: [Tessi]

Jan. 2019 – Apr. 2020

Project: Implementation of Several Supervised Machines Learning Models that make information extraction, documents classification & clustering for the account of HSBC, Malakoff Médéric & Pole Emploi, based on MLOps strategies & pipelines.

Tools: Mesos, docker, docker-compose, podman, Workfusion RPA Express, Workfusion studio v9.0, control tower, workspace, json, SOAP, REST, AutoML, Selenium, Sikuli, Groovy, java, python, Jira.

Tasks/Responsibilities:

- Create MLOps pipelines
- Create dockerfile, podman containers, & deploy it into Mesos
- Defines, designs, develops, configures, tests, maintains, and supports cognitive automation process solutions to meet business objectives using machine learning models & techniques.
- Create reusable automation framework and libraries
- Analyze issues and new business needs to provide optimized solutions.
- Unit test applications to verify compliance with specifications and support system testing.
- Provide production system support,investigating/addressing issues.
- Report status regularly to management.

Continuous Integration & Quality Analyst Engineer: [IP-Label]

Jun. 2018 – Jan. 2019

Project: Implement Continuous integration pipelines & test automation for mobile & web application {newtest, dragonfly, datametrie}, these applications assess the QoE, the Quality of User Experience

Tools: docker, docker-compose, Jenkins, sonarqube, Java, Python, Selenium, Cucumber, Sikuli, TestNG, Junit, SoapUI, Appium, HttpWatch, Fiddler, HARAnalyzer, EasyVista, Git, SVN, TestLink, windows server 2012R2, Linux, DataMetrie, NewTest, VMware, Esxi, Xen.

Tasks/Responsibilities:

- implement continuous integration pipelines using jenkins
- check code quality using sonarqube
- simulate prod environment by implementing dockerfile, running docker images using docker-compose
- test mobile, web & desktop applications
- test servers and platforms configuration
- Create test plans, tests automation, manage test execution, record test progress and results, analyze tests results, document test cases.
- identify, isolate, and track bugs, identify potential problems that users may encounter.
- The use of cloud machines on OVH & AWS to make tests, install & update the test environments.
- Work effectively and collaboratively with R&D and Support teams

Computer Science Teaching Assistant: [TBS, UTC, Collège LaSalle]

Jan. 2015 – Jun 2018

- Web development - Information System - Operating System
- POO/Java
- DB/Oracle

Education:

2013 - 2015 Master Business Intelligence
The Higher Institute of Management of Tunis (ISG)

2010 - 2013 Information Technology Management Diploma
The Higher Institute of Management of Tunis (ISG)