

Salim Chehab

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Education

2013 - 2015: **Master of Science (M.Sc.) Computer Science and Communication Engineering - Technical University of Darmstadt**

Skills

- **Operating Systems:** Ubuntu, RedHat, SUSE, Windows Server
- **Public Cloud Providers:** AWS - Amazon Web Services, OTC - Open Telekom Cloud, Microsoft Azure
- **Private Clouds:** OpenStack, OpenShift
- **Configuration Management:** Ansible, Puppet, Salt
- **Provisioning:** Terraform
- **Containers:** Docker
- **Orchestration:** Kubernetes, Istio
- **Virtual Machines:** Vagrant
- **Continuous Integration and Delivery:** GitLab CI, Jenkins, Bamboo
- **Monitoring and Logging:** Splunk, Prometheus, ELK - Elasticsearch, Logstash, Kibana, Grafana, Graylog
- **Shell Scripting:** Bash, PowerShell
- **Programming Languages:** Python, C++, Java
- **Databases:** Cassandra, MongoDB, PostgreSQL, MariaDB

Projects

- Since 10/2022 : **STULZ Digital Solutions GmbH - Cloud Architect**
 - Introduction of a workshop on the topic of IaC (Infrastructure as Code).
 - Development and implementation of operational processes.
 - Professional consulting for the security concept of the project (ISMS).
 - Installation and operation of Kubernetes clusters on AWS and Azure.
 - Problem analysis and resolution in incidents and system failures.
 - Network adjustments to firewall rules, Gateways, OpenVPN settings, and IPsec tunnel (pfSense).

- Professional consulting on the topics of `BitBucket`, `Jenkins`, and `GitLab CI/CD` pipelines.
 - Consulting on `Ansible` deployments and infrastructure automation.
 - Consulting on building a scalable system in the cloud (`AWS` / `Azure`).
- 09/2020 - 09/2024 [4 Years]: **Siemens AG - DevOps Cloud Engineer / Systems Architect**
 - Creation of a concept for automating pull requests using feature branches, including separate infrastructure.
 - Introduction of workshops: AWS Cloud Infrastructure Development and Pipelines.
 - Consulting and implementation on the topic of AWS `EKS` Kubernetes Cluster setup.
 - Infrastructure automation and maintenance on `AWS` using `Terraform`.
 - Root cause analysis and performance analysis.
 - `GitLab CI/CD` setup with deployments and environments.
 - Support for `ISO 27001` certification.
 - Support in configuration management using `Ansible`.
 - Development of custom `Ansible` modules using `Python`.
 - Creation, maintenance, and management of Infrastructure-as-Code using `Terraform`.
- 08/2020 - 12/2021 [1 Year 4 Months]: **Daimler AG - DevOps Cloud Engineer**
 - Implementation of the containerized solution on the RedHat `OpenShift` platform.
 - Infrastructure setup on `OpenStack` and `Azure` using `Terraform` and `Ansible Tower`.
 - Implementation of monitoring solutions with `Dynatrace` and `ELK`.
 - Pipeline `CI/CD` automation using `Azure DevOps` and self-hosted agents.
- 01/2020 - 12/2020 [1 Year]: **Werum IT Solutions GmbH - DevOps Platform Engineer**
 - Analysis and debugging of `Continuous Integration` and `Continuous Delivery` processes.
 - Analysis and automation of the `Docker` container environment.
 - Setup of Artifactory (JFrog).
 - `GitLab CI` setup with deployments and environments.
 - REST API development in `PowerShell`, `Python` (AWS `Lambda`, API Gateway).
 - Provisioning, operation, and administration of `AWS` and `Azure` clouds.
 - Support in configuration management using `Ansible`.
 - Development of custom `Ansible` modules using `Python`.
 - Creation, maintenance, and management of Infrastructure-as-Code using `Terraform`.
 - Expansion of the local `Microservice` platform (serverless architecture).

- Support with `Istio` service mesh deployment.
- 10/2019 - 12/2019 [3 Months]: **Join GmbH - Azure Consultant**
 - Design of the `Kubernetes` cluster with Azure Kubernetes Service (`AKS`).
 - Setup of VMs using `Terraform` and configuration with `Ansible`.
 - Creation of manifests and `Helm` chart files per application container.
 - Configuration of Kubernetes administration (`Kubernetes` RBAC).
 - Adjustments and customization of existing application containers for Kubernetes.
 - Deployment of containers in the Kubernetes cluster via `CI/CD` pipeline.
 - Ensuring data persistence and high availability (cluster) for relevant storage containers (e.g., graph database).
 - Configuration of public service access (`Nginx` Ingress Controller).
 - Support in setting up a complete development environment and build pipelines based on `Azure DevOps`.
- 06/2019 - 12/2019 [6 Months]: **EOS Holding GmbH - OpenShift Consultant**
 - Automation of `OpenShift` setup with `Ansible`.
 - Scaling of `Machine Learning` models on `OpenShift`.
 - Setup of `Ansible AWX` for automated tests and deployments.
 - Infrastructure provisioning on `vSphere VMware` using `Ansible`.
 - Setup of `Graylog` and `Grafana` for monitoring and logging.
 - Automation of certificate management for clusters on `OpenShift`.
- 05/2019 - 10/2019 [5 Months]: **TUI InfoTec GmbH - AWS Consultant**
 - Cloud migration of applications and microservices to `AWS`.
 - Setup and configuration of `AWS` accounts (dev, test, prod).
 - Development of build pipelines.
 - Operation and further development of the infrastructure.
 - Design and implementation of "Infrastructure as Code" with `Terraform`.
 - Development of `Terraform` modules for automation on `AWS`.
 - Setup of the `Kubernetes` cluster with Amazon `EKS` - Managed Kubernetes Service.
 - CI/CD pipeline development with Jenkins Helm Charts in Kubernetes.
 - Development of `AWS AMI` build pipelines (CloudFormation StackSet, CodeBuild, CodeCommit).
 - Setup and continuous improvement of monitoring tools - Datadog.

- Deployment of Amazon Aurora, MSK, S3 buckets, Lambda functions, Amazon Elasticsearch Service, Network Access Control Lists, and Elastic File System (EFS).
 - Automation with boto3 Python AWS SDK.
- 01/2019 - 04/2019 [4 Months]: **ING-DiBa AG - OpenShift Consultant**
 - Implementation of a local OpenShift environment.
 - Upgrade of openshift from version 3.9 to 3.11.
 - Continuous deployments using Ansible Tower.
 - Performance measurements with Kubernetes and OpenShift APIs in Python on Docker.
- 06/2018 - 05/2019 [1 Year]: **Hermes Germany GmbH - DevOps Platform Engineer**
 - Migration of applications to otc (Open Telekom Cloud).
 - Development of tools and services related to containers, CI/CD, and automation.
 - Migration to Bitbucket.
 - Automation using Ansible for OpenShift and OpenStack.
 - Environment setup with Docker on Linux.
 - Supporting other teams with cloud technologies and cloud principles.
 - Deployment of a splunk cluster for logging (Master and Forwarders setup).
 - Infrastructure provisioning with otc and OpenStack APIs (Python OpenStack module).
 - Setup and automation of monitoring tools (ELK cluster, Grafana, and Prometheus).
- 11/2015 - 05/2018 [2 Years 6 Months]: **IBM Deutschland Research & Development GmbH - DevOps Engineer** (Systems Performance)
 - Design and concepts for optimizing the software portfolio on mainframes (IBM Z Mainframes).
 - Application deployments and configuration on AWS.
 - Prototype implementation of new solutions with a focus on analytics, cloud, and Linux.
 - Customer support for performance issues.
 - Script automation using bash, Python, and Ansible.
 - Executing projects with customers to validate new concepts on mainframes.
 - Load testing and performance benchmarking for applications on mainframes: MongoDB, MariaDB, Cassandra, Docker, Spark, TensorFlow, and Nginx.