

Ra'ad Aldakhil

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EXPERIENCE

Software Engineer

Sept 2019 – Present

Saudi Aramco

Dhahran, KSA

- Developed an application in **Python** to provide vendor-agnostic Storage as a Service to over *80,000+ users* for CIFS and NFS shares reducing deployment time by *98%* saving *1200+ man-hours per year*
- Developed multiple **Ansible** playbooks to automate storage NFS mount discovery, synchronisation jobs, mount switchover for NFS migrations, and other routine tasks
- Participated in creating a **Powershell** tool to perform NAS Windows share (SMB) migrations, added features to monitor failed robocopy of files and prune false failures from log files and to send a completion email of successful migration to users to perform the final switchover to the new storage path
- Created a **Bash** tool to simplify NAS Linux share (NFS) migrations for team to reduce human error and reduce time to complete migration efforts, the tool centralizes rsync logs from multiple migration jobs and sends completion emails and failed files to administrators to resolve before performing the final switchover to the new storage path

IT Systems Specialist

Sep 2019 – Present

Saudi Aramco

Dhahran, KSA

- Architected and maintained multi-petabyte storage infrastructure, performing complex SAN/NAS operations including zoning, masking, mapping, and local/remote mirroring while ensuring 24/7 system availability for business-critical operations
- Led comprehensive data security initiatives, including implementation of data-in-transit protocols for SMB/NFS shares, data-at-rest encryption testing and deployment, vulnerability remediation, and system hardening
- Orchestrated and led multiple disaster recovery drills and real-time incident response operations, successfully maintaining business continuity during critical outages through on-call support and rapid problem resolution
- Developed and implemented extensive automation frameworks using Ansible, streamlining system patching, data migrations, and routine operational tasks including automated removal of deprecated packages and space management
- Managed enterprise-wide Linux infrastructure, providing critical system maintenance, resolving service interruptions, and ensuring continuous operation of mission-critical systems across the organization
- Led the commissioning and deployment of multiple new storage systems, including comprehensive SAN network layout design, system configuration, and integration with existing infrastructure
- Implemented and configured Cloudera Data Science Platform (CDP Private Cloud Base), preparing enterprise-wide rollout for data scientists while ensuring optimal performance and security
- Developed VR Digital Twin experiences for Data Centers and Compliance, Health, and Safety courses, integrating virtual reality technology with practical applications
- Performed multiple successful large-scale data migrations with zero data loss, ensuring seamless transition and minimal business and user impact

EDUCATION

University of Manchester

Manchester, UK

Master of Engineering with Honours - MEng (Hons) in Software Engineering

Sep. 2015 – June 2019

PROJECTS

Homelab | *Python, Go, Kubernetes, Docker, Terraform, Ansible*

Sep. 2019 – Present

- Running NAS and SAN (iSCSI) storage with scheduled backups
- Managing Kubernetes cluster with 3+ nodes, running dozens of pods

CERTIFICATIONS

Unity Certified Professional: Programmer

Udacity Site Reliability Engineer Nanodegree

Udacity Data Engineer Nanodegree