

Muhammad Umar

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Professional Summary

DevOps Engineer with a strong background in DevOps and proven expertise in Bash, k8s, Jenkins, Docker, ELK, and GitHub. Known for designing and optimizing robust infrastructure solutions. Holds a BS in IT from the University of Education (PK). Committed to driving operational excellence through innovation.

1. Senior DevOps Engineer at Avanza Solutions

[Dec 2021 – Present]

Responsibilities

- Lead a DevOps team in designing, implementing, and managing Kubernetes clusters tailored for blockchain applications, ensuring optimal performance, scalability, and security.
- Spearheaded the orchestration of infrastructure using Terraform, streamlining deployment processes and enhancing infrastructure as code practices.
- Successfully implemented Docker Compose for local development environments, improving consistency across development, testing, and production environments.
- Established and maintained an on-premise Kubernetes cluster, optimizing resource utilization and minimizing downtime for critical applications.
- Implemented and maintained robust CI/CD pipelines, automating build, test, and deployment processes, resulting in increased efficiency and faster time-to-market for software releases.
- Orchestrated the end-to-end infrastructure setup on **azure** by crafting comprehensive Terraform scripts, automating the creation of Kubernetes clusters, Azure Resource Group, Virtual Network (VNet), and Subnet, Docker Registry, and databases, fostering a streamlined and reproducible environment.

- Experience in building automated CI and CD pipeline with AWS Code Pipeline, Jenkins and AWS Code Deploy
- Configured and managed databases such as MySQL, PostgreSQL, and MongoDB
- Developed and maintained blockchain applications using Hyperledger and Cipher

2. DevOps Engineer (Team Lead) at Code Informatics

[Oct 2020 –Dec 2021]

Responsibilities

Leading development and operations processes inside team

- Development CI/CD roadmap and implementation as per the project
- Set up a complete application on azure cloud
- Implication of CI/CD on azure cloud application
- Write clean and well documentation of new deployment
- Using Jenkins CI/CD pipelines for automation
- Docker Container for Consistent and Isolated Environment for each application
- Monitor analyses and report performance statistics for cloud host environment
- Using gradlew and grunt to compile the code and make zip and war file
- Elasticsearch, Logstash, and Kibana for Real-Time Data Analysis & Visualization

Experience

3. DevOps Engineer at Mercurial Minds

[Oct 2018 – May 2020]

Responsibilities

- Established and running service including live commentary by managing and monitoring more than 40 Linux Servers
- Responsible for automation to make services running smoothly and self-healing.

- Conducted regular testing of backup and recovery procedures to guarantee their effectiveness in various scenarios, contributing to a resilient and disaster-ready infrastructure.
- Led the setup and configuration of databases, implementing best practices to enhance data integrity, availability, and performance.
- Spearheaded automation initiatives by creating and deploying Bash scripts to streamline testing processes, significantly reducing manual effort and improving overall system efficiency.
- Demonstrated proficiency in system administration by effectively managing and monitoring Linux servers, ensuring optimal performance, security, and reliability.

Skills and Tools

Scripting Languages

- Python(Basic)
- Bash
- Groovy
- YMAL

Operating System

- Linux
- Windows
- VMware

DevOps

- Jenkins
- Docker
- Ansible(Basic)
- Kubernetes
- Terraform

Databases

- MySQL
- Maria DB
- PostgreSQL(Basic)
- Mongo(Basic)

Software Version Control

- GitHub
- Git-Lab
- Bit Bucket

Monitoring Tool

- Nagios
- Application Manager
- ELK

Qualification

[2014 - 2018]

BS (Hons) in Information Technology

University of Education Lahore

Final Year Project

Twitter-Sentiment-Analysis-Using-Python

- Extracted data from Twitter API
- Read the trending tweets
- Downloaded tweets for analysis
- Normalized the tweets from JSON to data frame
- Performed a sentiment analysis on the tweets
- Plotted the sentiment based on polarity

Reference:

Reference will be provided when needed.