BUSI PIETERSON

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A DevOps Engineer eager to leverage expertise in DevOps and AWS Cloud to contribute to innovative projects. Passionate about automating processes, enhancing efficiency, and streamlining workflows through the implementation of DevOps principles.

PROJECTS

1. **End-to-End CI/CD Implementation -** *Jenkins, Sonarqube, Nexus, ECS*

   - Implemented a comprehensive CI/CD pipeline for a Java-based application using Maven as the build tool.
   - Integrated SonarQube for code analysis and utilized Nexus repository for artifact storage.
   - Deployed the application using ECS and integrated Slack for real-time build notifications.

   Source Code: https://github.com/BusisiwePieterson/jenkins-artifactory-sonarqube

2. **Dynamic web application hosting -** *Kubernetes, EKS, ECR, AWS*

   - Successfully completed a project focused on setting up and hosting a dynamic application using Kubernetes and AWS Elastic Kubernetes Service (EKS).
   - Gained practical experience in deploying and managing containerized applications within a cloud-native environment.

   Source Code: https://github.com/BusisiwePieterson/kubernetes-eks-application

3. **DevSecOps** - Jenkins, Sonar, K8s, Prometheus, Grafana, Trivy, ArgoCD

   - Deployed a Java application utilizing a robust CI/CD pipeline with Jenkins, integrated code quality analysis with SonarQube
   - Containerization using Docker, and orchestration with Kubernetes
   - Implemented security scans with Trivy
   - Monitored application performance with Prometheus and Grafana
   - Streamlined deployments with Argo CD

   Source Code: https://github.com/BusisiwePieterson/devsecops-pipeline

4. **Three-Tier Architecture using Infrastructre as Code -** *Terraform, AWS*

   - Implemented a highly available and scalable three-tier architecture using Terraform on AWS.
   - Incorporated Route 53 for DNS routing and ensured robust infrastructure provisioning.

   Source Code: https://github.com/BusisiwePieterson/Dynamic-Website-on-AWS-with-Terraform

5. **Configuration Management Implementation -** *Ansible*

- Leveraged Ansible playbooks to streamline deployment processes and ensure consistency across environments.
- Tasks included provisioning virtual machines, configuring network devices, managing software installations

Source Code: https://github.com/BusisiwePieterson/ansible-config-mgt

6. **AWS Cost Optimization -** *Lambda, Boto3, AWS EC2 and EBS*

- Implemented an AWS Lambda function using Python to automate the identification and deletion of idle EBS snapshots.
- Leveraged AWS SDK (Boto3) to interact with AWS services, including EC2, EBS
- Assigned appropriate IAM roles and policies to the Lambda function, ensuring it had the necessary permissions to describe and delete snapshots while adhering to the principle of least privilege.

Source Code: https://github.com/BusisiwePieterson/lambda-cost-optimazition

SKILLS

TECHNICAL: AWS, Terraform, Ansible, Linux, Docker, Kubernetes, Bash, Jenkins, Promotheus, GitHub Actions, Git

SOFT SKILLS: Excellent communication, problem-solving, time-management skills. Collaborative, Growth mindset

Work Experience

Customer Support - Govassist (Remote, Global Team)	June 2021 - May 2023
Customer Support - Absa Instant Life	Jan 2017 - June 2018
Internal Sales Consultant - Oakhurst Insurance	Aug 2015 - Dec 2016

Education

DevOps Engineering - Darey.io
Linux, Git, Ansible, Terraform, Jenkins, Docker, K8s, Prometheus — 2023 - 2024

National Cert in IT (Systems Development - Umuzi
HTML, CSS. React, NodeJS, Javascript, MongoDB, Express — Jan 2019 - Feb 2020

Bcom Transport and Logistics — Jan 2010 - Feb 2012 (Incomplete)
University of Johannesburg