MHALUSHA BANNE

DEVOPS ENGINEER

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Professional Summary:

➤ Having 4+ years of experience in the IT industry with the ability to accomplish all aspects of Software Configuration Management (SCM), DevOps, AWS, and System Administration.

➤ **Designed and implemented Kubernetes cluster** for managing containerized applications in QA and staging environments.

➤ Experience in configuring and maintaining **Jenkins** to implement the CI process for major releases and in integrating the tool with **Maven** to schedule the builds.

➤ Experienced in using build tools like **Maven** for building the deployable artifacts

➤ Experience in working in **Agile** teams, including facilitating Agile ceremonies, such as daily stand-ups, sprint planning, and retrospectives.

➤ Successfully provisioned a scalable and resilient infrastructure on **AWS** using **Terraform**, meeting the requirements for supporting a web application.

➤ Installed and configured **Jenkins**, creating **master** and slave nodes for handling multiple builds, and installing plugins as needed.

➤ Configured and managed **Kubernetes namespaces** for logical separation of resources across environments.

➤ Proficient in using **Ansible** for automation and configuration management.

➤ Integrated Jenkins with various DevOps tools such as GIT, and Maven and developed Jenkins jobs to automatically manage, test and deploy code and applications.

➤ Worked on troubleshooting the issues when the build jobs failed and when something went wrong with the servers.

➤ Provisioned and managed cloud infrastructure on AWS using Terraform, reducing infrastructure deployment time by 50%.

Core Competencies

Configuration management	Version Control	Cloud Infrastructure
Linux System Administration	Scripting & Automation	CI/CD Pipeline Management
Project Management	Reporting	Agile Methodologies

Tools

Ansible	Terraform	Yamal, python, Groovy
Jenkins	Linux Shell Scripting	Git, GitHub, Gitlab
Docker, Kubernetes	AWS, S3, IAM, ELB, EC2, SNS	ASG, Route 53, VPC, EFS,
Putty, Jira,	Maven, Tomcat	CloudWatch, CloudTrail,
GitLab CI/CD	Airflow	Aws SecretManager
Cloud mapper	Jupyter Notebook	Nginx

WORK EXPERIENCE

DevOps Engineer

Nexus Software
Project: Buildteam
(April 2024 - Present)

Role: DevOps Engineer

Technologies Leveraged: Ansible, Terraform, AWS, Jenkins, Linux

Responsibilities:

- Created IAM users with least privilege access and established secure connections between EC2 instances and AWS services using IAM roles, enhancing user access security.
- Implemented backup and restore procedures for PostgreSQL and Redis databases, ensuring data resilience and reliability.
- Utilized AWS Secret Manager for secure storage and retrieval of database passwords, ensuring a centralized and secure approach to sensitive information management.
- Automated repetitive tasks and facilitated the rapid deployment of critical applications using **Ansible** as a configuration management tool, employing **Ansible** Playbooks, Modules, and Roles.
- Enhanced cloud security by configuring **IAM roles** and ensuring secure access to AWS resources.
- Created VPC peering connections between QA and UAT networks for private subnets
- Integrating Maven with Continuous Integration/Continuous Deployment (CI/CD) pipelines to automate the build, test, and deployment process.
- Managed the deployment of Docker containers into **Kubernetes** clusters, enabling faster, consistent, and automated delivery cycles.

DevOps Engineer

SG Analytics
Project: Kvantum
(July 2023 - March 2024)

Role: DevOps Engineer

Technologies Leveraged: Gitlab, Terraform, Aws, PostgreSQL, Redis, Shell

Responsibilities:

- Integrated **Kubernetes deployments** into automated CI/CD pipelines using tools like Jenkins to streamline application updates and releases.
- Managed and automated the deployment of microservices-based applications using

Kubernetes Deployment resources.

- ➢ Ensured high availability and scalability by configuring **ReplicaSets** for workloads.
- ➢ Developed Jenkins jobs to automatically manage, test, and deploy code and applications.
- ➢ Implemented best practices for **infrastructure as code** (IaC) and automated provisioning processes for improved efficiency and consistency.
- ➢ Automated configuration management using **Ansible**, reducing manual intervention and ensuring system consistency.
- ➢ Hosted a static website using Nginx and configured a reverse proxy for efficient traffic redirection, ensuring effective content delivery.

DevOps Engineer
Ltech Solutions

Project: CarePaths & Comtalk

(May 2020 - July 2023)

Role: DevOps Engineer

Technologies Leveraged: Aws, Docker, Jenkins, Tomcat, Git, Maven, Jira, Ansible, Terraform

Responsibilities:

- ➢ Created alarms and monitored environments using CloudWatch and set up SNS (Simple Notification Service) topics for notifications.
- ➢ Leveraged AWS cloud services including EC2, auto-scaling, and VPC to build secure, highly scalable, and flexible systems capable of handling expected and unexpected load bursts.
- ➢ Ensured high durability and availability of data by utilizing S3 data store, versioning, and lifecycle policies.
- ➢ Provided technical support and troubleshooting for AWS infrastructure and applications
- ➢ Implemented Docker containers to create various environments for application deployment.
- ➢ Created, tested, and deployed end-to-end CI/CD pipelines for multiple applications using Jenkins.
- ➢ Deployed WAR files on the Tomcat server to facilitate web application deployment and management.
- ➢ Configured application load balancers by creating target groups and setting up targets.
- ➢ Worked on S3 bucket replication and also the S3 bucket lifecycle to make sure the data lifecycle is optimal.

EDUCATION

BE	Mechanical Engineer	80%	2020