DevOps Engineer

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Professional Summary:

- Having 4+ years of experience in Devops Engineer in the fields of automation, configuration management, cloud services and container orchestration.
- Experience in using Kubernetes, Docker, Jenkins, Shell scripting and Ansible that reduce the effort of developers and operation teams in performing maintenance and daily operations.
- Building pipeline for continuous integration and continuous deployment by using Jenkins.
- Developing Seed Jobs to create Multibranch Pipelines with Webhooks.
- Created Docker private registry for managing the Images for both stack and application.
- Setting up Logging aggregation with EFK (ElasticSeacrh, Fluentd and Kibana) for log monitoring purpose.
- Set up Gitea as a Git service standalone application to store and manage the code to deploy the stack and application.
- Created startup scripts to pass Variables and run JAVA applications on the docker containers.
- Working on AWS services EC2, VPC, IAM, S3 and ELB for creating highly available infrastructure for the application
- Installing and configuring SonarQube with quality gates for continuous code quality analysis.
- Creating Inventory files for addressing remote machines to be administered. Running ad-hoc commands, playbooks and roles to get the desired state on the remote machines.
- Created the Docker-compose file for setting up application in development environment.
- Experienced in creating the Kubernetes objects such as Pods, Deployments, Services, Secrets, Configmaps and Namespaces.
- Developing High available Kubernetes-master, Logging server environments.
- Experienced in manging users, groups, Back up files, Cron jobs, Bash scripts for System Administration on Linux machines.
- Good communicator with exceptional analytical, client management, relationship management and coordination skills.

Technical Skills:

CI/CD	Jenkins
Containerization Tool	Docker, Docker-compose
Orchestration Tool	Kubernetes
Configuration Management Tool	Ansible and Terraform
Operating Systems	RedHat, Centos and Ubuntu
Code Quality Analysis	SonarQube
Cloud Technologies	Amazon Web Services, Azure DevOps
Version Control Systems	Bitbucket, Git and Gitea
Logging Aggregation and Monitoring	EFK

Professional Experience:

- ❖ Working as a Senior Engineer with Moonstone Info Tech Private Limited, Hyderabad from Jan 2017 to till date.

Projects:

Project 1   : MC IT Modernization

Client   : Marsh & Mclennan

Location   : Pune

Role   : DevOps Engineer

Tools   : Jenkins, Docker, BitBucket, Kubernetes, Maven, Bash Script, Sonarqube, postman and SericeNow.

Responsibilities:

- This role is responsible for deploying the application into docker environments with the Jenkins Pipeline
- Writing the Dockerfile for the application based on the existing application requirement.
- Working on bitbucket to configure application variables to pass them to the Jenkinsfile.
- Working closely with Developers to deploy the application to various environments like Dev, QA, UAT, PERF and PROD respectively.
- Supporting the Application team for conducting Dry Run to test the application before Go Live.
- Setting up HAProxy docker containers with proper configuration to point the backend application containers.
- Configuring ACLs in the HAProxy configuration file to enable different context paths for various applications.
- Raising Change Orders and Change Incidents to different teams (such as change management team, CyberOps team and NetworkOps Team) implement LB VIPs & Firewall port openings.
- Working on deployment pipeline failure issues to resolve them.
- Creating Credentials and Secrets in Jenkins to pass sensitive data to the Jenkins pipeline.
- Retrieving the applications logs from the containerization platforms and sharing those logs with the application teams to analyze the application failure issues.

Project 2   : JioMoney

Client   : Jio

Location   : Mumbai

Role   : Stack Engineer

Tools   : Jenkins, Docker, BitBucket, SaltStack, Kubernetes, Maven, EFK, postman and Bash Script.

Responsibilities:

- Got an important role in setting up stack for JioMoney replica environment as India's counterpart. This stack **holds highly available salt-masters and kubernetes masters** with highly available logging cluster.
- Successfully created the stack environment cluster through **salt stack and Kubernetes** to develop the platform for the application.
- Experienced in bootstrapping salt-master and minion architecture using **salt-ssh service in a docker container.**
- Adapted to both **salt push and pull mechanisms** through salt-ssh and salt-master-minion architecture.
- Able to satisfy client's requirements through salt ad-hoc commands and and salt state files (.sls files).
- Created salt states for updating the repositories, installing the packages and configuring the applications.
- Created the generic salt Pillars in salt stack and the reusability of them for various Projects.
- Enabling salt to respond dynamically through the use of Grains.
- Supporting the application integration team to develop the manifests such as deployments and services definitions (Yaml files).
- Setting up Logging aggregation **with EFK (ElasticSeacrh, Fluentd and Kibana)** for monitoring purpose.
- Created High available logging file system with the distributed file system tool, **GlusterFS**.
- Have a good knowledge on **creating Kubernetes Objects** such as Pods, Deployments, Secrets, Configmaps, Services and namespaces.
- Created Docker private registry with database using docker-compose for managing the Images for both stack and application.
- Set up **Gitea as a Git service standalone application** to store and manage the code to deploy the stack and application.
- Configured Salt-masters with Git fileserver backend to make the salt code changes available in no time

Project 3   **:** SPay

Client   **:** Samsung (Poland)

Location   **:** Pune

Role   **:** DevOps Engineer

Tools   : Jenkins, Docker, Docker-Compose, BitBucket, SaltStack, Kubernetes, Maven, EFK and Bash Script.

Responsibilities:

- Working on **Git** and performed operations like pull, making code changes, push and Merge after code changes being approved.
- Created **startup scripts** to pass Variables and run JAVA applications on the docker containers.
- Created **Jenkins Pipeline** for building the application along with Docker images and running the static code analysis to make the application less vulnerable.
- Configured the Jenkins pipeline with quality gates so that the pipeline will be broken if the code quality doesn't meet the required levels.
- Worked on **Jenkins Job Builder (**JJB) to create the Pipeline through the yaml definitions. Configuration changes also done with JJB yaml files.
- Creating the **kubernetes manifests** for the application and deploying them to the BDD and QA environments.
- Experienced in creating the **kubernetes objects** such as Pods, Deployments, Services, Secrets, Configmaps and Namespaces.

- Updating the kubernetes manifests with latest releases and pushing them to the **bitbucket** repository from which the BDD and QA environments will deploy the new changes.
- Working with Developers and Testers to understand and accomplish the tasks.
- Created the **Docker-compose file** for setting up application in development environment.

(Jayaram R)