DEVOPS ENGINEER

Mangesh Madhukar Takale

DevOps Engineer

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Professional Experience:

- Having **2 years of experience as DevOps Engineer** with exposure to Software Configuration Management, Build and Release Management, continuous Integration and Deployment.
- Hands on exp**erien**ce with deployment and orchestration technologies **Kubernetes**.
- Strong **experience** on creating the **Kubernetes deployment scripts** on various deployment approaches like **Blue green** and **Canary deployment approach**.
- Implemented a **Blue green** deploy approach for the non-prod environments by using service selectors.
- Experienced on creating the Kubernetes Control plane Master-worker (node) by using **kubeadm**.
- Very widely used **Helm-Chart 3.0 package manager for Kubernetes**.
- Implemented **readiness probe** and **liveness probe** for the Kubernetes deployments.
- Used **Horizontal pod AutoScaler for autoscaling the pods**.
- Good knowledge on various Kubernetes objects **like Pod, Namespace, Replication Controller (RC), Replication set (RS), Deployment Controller, Stateful Sets, Daemon Sets, Ingress, Service, Volumes, ConfigMaps**.
- Good Experience in creating **Docker Images** and running **Docker Containers.**
- Install Docker on ubuntu machine, Created Dockerfile to create containers and integrated Docker with **Jenkins** and **GitHub** to do build **Docker Containers** and to achieve Continuous Delivery goal on high scale environment.
- Used **Docker Compose tool** for running the multi container Docker applications.
- Working Experience on **GitHub, Git, Jenkins**.
- Strong experience on creating the **Jenkins declarative pipeline**.
- Created a Jenkins declarative pipeline and deploy the application into **EKS Cluster.**
- Experienced on Branching, Merging, and Tagging concepts in Version Control tool like GIT, GitHub.
- Strong experience on build tools and packaging the source code using **Maven.**
- Scheduled builds overnight to support development needs using Jenkins, **Git, and Maven**.
- Good experience on **Amazon Web-services** (**AWS**), Creating **EC2** Instances and configuring all necessary services.
- Taking the backup of **S3** and attaching the **EBS** to instance.
- Having Good knowledge in **AWS** services i.e., **IAM**, **Autoscaling**, **ELB**, **Cloudwatch**.
- Working experience on operating systems like **Linux**.
- Used **Agile method** for project planning and execution.

- Having good working experience on the monitoring tools like **Prometheus**.

IT Forte

OS/Servers	Ubuntu, RHEL, CentOS
Containerization	Docker, Container d
CI/CD Tools	Jenkins
Orchestration	Docker Swarm, Kubernetes.
Artifactory Repository	Container registry AWS ECR, Nexus
Quality Management Tool	SonarQube
AWS Services	VPC, EC2, ELB, S3, IAM
Configuration Management	Ansible
Build Management Tools	Maven
Version Control Tools	GIT, GitHub
Application Server	Apache Tomcat
Web Server	Apache HTTP server, ngnix
Scripting Tools	Shell Scripting
Monitoring Tools	Prometheus, Grafana
NoSql Database	Mongo
S/W Development Methodologies	Agile Methodology
Remote Administration	SSH, SCP, FTP, SFTP
Other Tools	WinSCP, MobaXterm, Jira, Slack

Education

Bachelor of Engineering in Computer Science from Solapur University, Maharashtra, India.

Employment

Infinity Data Technologies Pvt Ltd, Pune from Feb ’21 till date.

PROJECT #1

Title : Digital Payment Services.
Technology : Java, Spring boot, Angular JS, Selenium, Rest, Docker, Kubernetes, Git, Linux, Tomcat, AWS and Agile.
Position Held : Jr. DevOps Engineer
Duration : June 2021 to Apr 2022

Description:

Digital Payment Services are the payment services. Customer uses the various payment services to pay the bills. Customers can pay the bills by using a cheque, credit card, debit card and also can enroll by using autopay. All the 80+ micro-services are running on the AWS Cloud and the goal is to migrate all the services into Kubernetes.

Responsibilities :

- Created CICD pipeline using **Jenkins** to automate the deployments.
- **Dockerized** the micro services and orchestrated the same on **Kubernetes** cluster.
- Design and Implemented **services** in Kubernetes.
- Established coding standards and enforced them through automated tools (**SonarQube**).
- Involved in development, testing, deployment, log monitoring and container monitoring.
- Setting up SCM/Build tools for Developers. Helping to resolve all SCM/Builds issues like merge conflicts, compilation errors, missing dependencies, Branching/Merging/Tagging/Rebasing.
- Developed and implemented Software Release Management strategies for various applications according to the agile process.
- Installation and Configuration of Jenkins.
- Implemented AWS solutions using EC2, S3, EBS, Elastic Load Balancer, Auto scaling groups.
- Used Maven as build tool on Java projects for the development of build artifacts on the source code.
- Performed and deployed Builds for various Environments like **Dev, QA, Pre-Prod and Production** Environments.
- Built and Deployed Java/J2EE to a web application server in an Agile continuous integration environment and automated the whole process.
- Installed/Updated packages using **Configuration Management Tool** like **Ansible**.
- Configuring and Networking of **Virtual Private Cloud (VPC).**
- Used **IAM** to create new accounts, roles and groups.
- Installation and Configuration of **Red hat Linux** and **Ubuntu Servers**.

PROJECT #2

Title **:** Mortgage Due Diligence
Technology : Linux RHEL, GitHub, Maven, SonarQube, Jenkins, Ansible, Shell script, Docker, Kubernetes, Prometheus and Grafana
Position Held **:** DevOps Engineer
Duration **:** June 2022 to Till now

Description:

It is web application that support mortgage related due diligence, file review, underwriting, quality control, litigation related research and data capture activities. All the 100+ micro-services are running on the AWS Cloud and the goal is to migrate all the services into EKS Cluster.

Responsibilities:

- Automated CI/CD process using **Jenkins**, build-pipeline plugin.
- Setting up the new build environment for various applications in **Linux** environment.
- Using **Maven** as a build tool, I could automate the process of building artifacts.
- Implementing **Jenkins** continuous integration tool including installing setting the jobs/plans and setting up the tool for deployment.
- Involved in installing **Jenkins** on a **Linux** machine and creating a **Master** and **Slave** configuration to implement multiple parallel builds through a build.
- Used **Docker Container** for running different individual services and optimizing the infrastructure cost.
- Primary responsibilities include Build and Deployment of the java applications onto different Environments like **Dev**, **QA, Stage** and **Prod.**
- Experience in integrating **Unit Tests** and Source code quality analysis tools like **SonarQube.**
- Having good experience on Installing and configuring DevOps tools.
- Participated in Bug review meeting and release the builds to pre-production and production servers.
- Worked in creating Docker images and pushing them to **AWS ECR**.
- Daily updating the task in **Jira** and attending the stand up call.
- Deploying Kubernetes application using **AWS EKS and ECR service**.
- Deployed **MongoDB as a Statefulset in Kubernetes cluster** by using **Helm 3.0 Package**.