DevOps Engineer

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Objective

   To work in a challenging environment through which I can utilize my skills and knowledge for the development of the organization and in my career.

Summary of Experience:

- Having **3.4** years working experience as DevOps Engineer and working on different levels automation tools.
- Working on various version control systems like **Git**, SVN, Build tools like **Maven** ,Ant Continuous Integration Tools such as **Jenkins**, containerization tool **Docker**, Configuration management tool Chef and Shell scripting.
- Strong experience in Branching and Merging strategies.
- Good knowledge in using **Maven** scripts to automate the code compilation and deployments.
- Wrote **pom.xml** files for automating web applications builds, test cases and deployments.
- Coordinate/assist developers with establishing and applying appropriate branching, merging conventions using GIT source control.
- Working knowledge on merging code lines in the GIT and resolved all the conflicts raised during merges.
- Implemented & maintained the branching and build/release strategies utilizing GIT.
- Initiated C.I process in my project and setup Jenkins tool from scratch. Created new build jobs, setup master/slave concept to distribute the load and run different builds with different configurations.
- Created **Pipelines** using **Jenkinsfile**. Also worked on manual pipelines.
- Configuring pre and post build actions in Jenkins as per project requirements.
- Automate the build Process Using Jenkins jobs.
- Experience on setting up and managing **Docker** private repositories.
- Having experience in creating custom Docker Images using **Dockerfile**.
- Experience working on several Docker components like Docker Engine, Hub, Container and Docker Registry.
- Automated application containerization by writing Dockerfile and creating images. Application environment will be automatically built with a given number of containers with application setup out of box.
- Worked on various tools which include Build Tools-Maven, Continuous Integration ToolsJenkins and Servers-Apache **Tomcat**.
- Experienced in Build, Deployment, and Configuration and Release management.
- Proficiency with build and continuous integration system concepts.
- Experience on deploying artifacts like WAR and EAR into application servers Apache Tomcat and Web logic servers.
- Setup Chef in production environment. Good knowledge with end-to-end production Chef Environment.

- Experience in Writing Playbooks in **Ansible**.
- Developed playbooks for application deployments with tomcat, jdk, war file and post deployment configurations.
- Knowledge on AWS-EC2 instance, ELB, Auto-scaling.
- Responsible for installing and configuring **Kubernetes** in physical as well as cloud environments.
- Well aware of the advantages, architecture and complete work flow of Kubernetes.
- Good Knowledge in **Shell Scripting**, Experience in Writing Scripts.
- Good knowledge in each and every component of **Kubernetes**.
- Installed and configured K8S master and K8S nodes and established communication between them.
- Good experience in writing yaml manifest field for creating **Deployments** and **Services** in Kubernetes.
- Good experience in setting up **NodePort**, **ClusterIP** and **Load Balancer** type Kubernetes Services.
- Good experience in setting up Kubernetes cluster in AWS cloud using EKS Service.
- Deployed the application using **StatefulSet** Kubernetes API objects.
- Automated application deployments using **Ansible**. Good knowledge in writing Playbooks using Ansible.
- Basic knowledge in **Python**.
- Worked extensively on automation using **Shell scripting**.

<u>Working Experience:</u>

Working as a **DevOps Engineer** in **Proxytem Software Service Pvt.Ltd.** from **Oct 2019** to till date.

<u>Educational Qualification:</u>

Bachelor of Engineering (BE), from Visvesvaraya University (VTU), Karnataka.

Technical Skill:

Cloud Services	AWS EC2 ,S3, GKE,VMware
SCM Tools	GIT, GitHub
Build Tools	Maven, ANT
Continuous Integration tool	Jenkins
Configuration Management Tool	Chef, Ansible,Terraform
Monitoring Tool	Nagios
Web Server	Apache Tomcat, Nginix
Database	MySQL
Scripting Languages	Shell scripting, Python
Operating Systems	Windows, Redhat Linux, Ubuntu

Misc.	Jira
Containerization & Orchestration	**Docker, Kubernetes**

Project Profile:

Project #1:
Project Name: SEARS (E-commerce Online Portal)
Client: HCL Technologies
Role   : **DevOps Engineer**
Technology : **Ubuntu, GIT, Maven, Jenkins, Docker, AWS, Ansible, Nexus,**
                    Kubernetes, Shell Scripting
Duration   : Oct 2020 to Till Date
Description:
Project is about maintaining ecommerce website of Sears 24/7. As a major part of Sears business is based on Ecommerce, the website should be available all the time. Our team job is to build and release code for deployment on appropriate servers to the Deployment team. Site will be developed in 4 stages- Integration stage, testing (QA) stage, staging (advanced testing) stage and production.

Roles & Responsibilities:
- Installation, Configuration, Maintenance, experience of source code management systems Subversion, GIT.
- Administration/Maintenance experience of continuous integration build engines using Jenkins.
- Experience with build tools like Ant and Maven.
- Setup Docker in all QA environments and manage Docker private repositories.
- Created custom Docker Images using Docker file for deployments.
- Good knowledge in several Docker components like Docker Engine, Hub, Container and Docker Registry.
- Deployed containerized application in Kubernetes in on-premise and Google cloud using GKE service.
- Configured NodePort, ClusterIP and Load Balancer type Kubernetes services.
- Automated application containerization by writing Dockerfile and creating images. Application environment will be automatically build with given number of containers with application setup out of box
- Created pipelines for continuous integration builds and deployments in Jenkins.
- Good knowledge in writing Jenkinsfile.
- Written the Build Scripts using Shell Scripting.
- Responsible for creating branches, tags and merging the code from one branch to another.
- Playing the role of Release Engineer by supporting developers for subversion configuration spec creation, branching, and deliveries to the integration branch.
- Worked closely with Developers, QA and project management for smooth scheduled releases.
- Created build.xml, JAR,WAR, EAR Files through Ant.
- Written Shell scripts for deployment automation.
- Participated in the application builds and deployments to Dev, QA, STAGE and Prod environments.
- Having Knowledge on the AWS Services EC2, S3, VPC.
- Responsible for identifying, troubleshooting and resolving problems with the build process using Jenkins and ensures that the release has been accepted by all parties.

- Participated in Release meetings to finalize Release with developers/QA/Project Management and discuss backup plan.

Project #2

Project Name: **VallyMoni**

Client   : **Cognizant**

Role   : **D**evOps Engineer

Technology : GIT, Maven, Ant, Jenkins, Tomcat, Windows, Linux, Docker, Chef, Nginx, Apache, Shell Scripting, Jira **Duration**: **Sep 2019 to Sep 2020**

Project Description:
VallyMoni is an ERP based application used to maintain organization infrastructure. This application is used to keep track of internal business activities over different branches of Boyne valley group. This is an internal application used by BoyneVally group to know about the business status periodically over multiple branches across Ireland. BoyneVally group is running various businesses across Ireland as well as across the world in different domains.

Roles & Responsibilities:

- Develop and automated, continuous, build process that reviews the source code, identifies build errors and notifies appropriate parties to expedite/facilitate synchronization to the latest build using Jenkins
- Setup and configuring Plans in continuous integration tool Jenkins for project builds
- Performed GIT branching and merging activities.
- Automate&monitordailyprojectdevelopmentbuildsbyusingbuildtoolJenkins
- Building numerous applications for DEV/UAT/PROD Env.
- Experienceintroubleshootingandresearchingrootcauseanalysisforapplicationissues
- Creating branches, tags and merging the code from one branch to another.
- Providing solutions to developers build failure related issues.
- Integrated Maven-Jenkins-Nexus for continuous integration and deployment
- Setup a private Git repository over HTTP using Apache2 Server.
- Setup Git repository using GitHub.
- Written Shell scripts for deployment automation.
- Automated backup process using Maven resources inpom.xml
- DocumentingInstallationandDeploymentplanfordeployment/releaseofsourcesinallenvironments.
- For Build Automation we are writing scripts using Shell Scripting.

- Created Docker containers for testing environments using Docker images.
- Wrote recipes and cookbooks for configuring QA environments.
- Participated in installation & configuration of Apache/Tomcat servers
- Active participation in the Build and release process.

Place: **B**angalore   (**Akash**)