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MANOJ R K
Dev Ops Engineer

PROFILE SUMMARY

- Having **4+ years** of experience in IT Infrastructure with **DevOps and Cloud Management** as a DevOps Engineer, Proficient in **Git, Maven, Jenkins, Nexus, Ansible, Kubernetes, Docker, Jira**.
- Experience in setting up the enterprise infrastructure on **Amazon Web Services (AWS) like VPC, EC2 instance, ELB, S3 Bucket, Security Groups, Auto Scaling, AMI, RDS, IAM, Route 53 services**.
- Experienced in various source code management activities using tools like **GIT** involving **Branching and merging strategies.**
- Good experience in version control tools like Git and working on migration part on **GitHub to GitLab**.
- Extensively worked on **Jenkins** for Continuous Integration and for End to End automation for all build and deployments.
- Good experience in creating and configuring new **Build jobs, Plug-ins Management, distributed builds** using Master/Slaves and other administration tasks in Jenkins.
- Knowledge on manage cloud Software development swith a focus on **Continues Integration and Deployment** using GitHub, Jenkins.
- Deployed applications using Jenkins server and **Troubleshoot build & release job failures, resolve, work with developers on resolution**.
- Worked on **Configuration and Administration** of Jenkins for Continuous Integration.
- Experience on writing **Jenkins Pipeline script** (Jenkins file).
- Extensively worked on **Continuous Integration and deployment using CI Tools** like Jenkins
- Experience in **running Jenkins jobs** in a distributed environment using master-slave.
- Experience on **build and management** tool Maven.
- Experience in using Nexus Artifactory Repository and Nexus Repository Managers for **Maven builds**.
- Having Good experience on **code quality tool SonarQube**.
- Experience in working with **configuration management tools like Ansible**.
- Experience in managing **Ansible Playbooks with Ansible roles**. Used file module in Ansible playbook to copy and remove files on remote systems. **Created inventory** in Ansible for automating the continuous deployment.
- Experience with Configuration Management automation tool Ansible and has worked on integrating Ansible YAML Scripts. Used Ansible for configuring and managing multi node configuration management over SSH.
- Performed automation tasks on various Docker components like **Docker Hub, Docker Engine, Docker Machine, Compose and Docker Registry**.
- Experience in administrating, deploying and managing **RedHat, Ubuntu and CentOS servers**.
- Proficient in **Shell and Bash**.
- Define build workflow, it includes, SonarQube.
- Knowledge of **Routers and Switches, Subnet, VLAN, TCP/IP, Ethernet, VPN, OSI model, Firewall**.
- Good understanding of **OSI Model, TCP/IP protocol suite DNS, IP, ARP, TCP, UDP, SMTP and FTP**.
- Experienced in using **Tomcat servers** for deployment.
- Creating CI/CD Automation and CI/CD pipelines by integrating **Git, GitHub, maven, Jenkins, Ansible and AWS (provisioning)**.
- Expertise in **Creating Docker images and Docker files**.
- Expertise in **Container orchestration using Kubernetes**.
- Worked on **Kubernetes installation and application deployment** in a container using full automated CI/CD pipeline
- Experienced in setting up the **Kubernetes cluster setup** on premise datacenter using kubespray
- Strong experience in working with **Kubernetes API Primitives**.
- Good knowledge of programming concept, OS related issues, Server configuration and builds and release process.
- Prepare relevant documentation for releases such as Build/Release process document, Build Reports and Release Notes
- Responsible for proper functioning **DEV/QA/STG/PRO**D environments for these applications.
- Ability to learn new technologies and also to deliver outputs in short deadlines.
- Ability to work between multiple projects and priorities while maintaining a high level of responsiveness. This requires the ability to track, manage, and execute on a large number of competing activities.

Operating Systems	Red hat Linux (Ubuntu, centos), Windows
Scripting	Bash
Version control system	GIT
CI/CD	Jenkins
Automated Build Tool	Maven
Configuration Management Tool	Ansible
Virtualization/Orchestration	Docker, Kubernetes (K8's)
Cloud Technology	AWS (Amazon Web Services)
Databases	MYSQL
Monitoring Tools	AWS CloudWatch, Nagios
Load Balancer	Nginx
Code/Artifactory repository	Nexus
Application servers/Web Servers	Apache Tomcat, Apache Http Server (HTTPD)
Ticketing Tool	Jira
Code Analysis	SonarQube

PROFESSIONAL EXPERIENCE

Webstem Software Solutions Pvt Ltd   **Sept2017 – Till date**

Project #2
Project Name   **: Damiler**
Role/Period   **: DevOps Engineer**
Duration   **: August 2019 – Till date**

Responsibilities:
- Maintained high availability cluster and standalone server environment and refined automation components with scripting and configuration management (Ansible) and experienced in writing Ansible scripts.
- Configuring the Docker containers and creating Docker files for different environment.
- Worked as a system administrator for the build and deployments process on enterprise servers and responsible for user management, administration, group management, slave management, new job setup in Jenkins.
- Manage code repositories in GIT by creating, deleting, merging and securing projects in a proper structure for all releases.
- Experience with version control, branches, pull requests, branch policies and automated build processes in Jenkins.
- Developed CI/CD release pipeline using Jenkins 2.0 Pipeline feature.
- Created Jenkins job for automation of build and deployment process as part of continuous integration strategy.
- Installed Jenkins on a Linux machine and created a master and slave configuration through a build farm for implementation of multiple parallel builds.
- Responsible for continuous integration(CI) and continuous delivery(CD) process implementation using Jenkins along with Shell scripts to automate routine jobs.
- Integrated maven with GIT to manage and deploy project related tags and performed necessary day to day GIT support for different projects.
- Managed central repositories and implemented Atlassian stash along with GIT to host GIT central repositories for source code across products, facilitate code reviews and log audits for security compliance.
- Involved in designing and deploying applications utilizing almost all AWS stack like EC2, Route53, S3, ELB, EBS, VPC, RDS, Dynamo DB, SNS, SQS, IAM and focusing on high availability, fault tolerance and auto-scaling in AWS Cloud formation.

- Setting up and building AWS infrastructure resources such as VPC, EC2, S3, IAM, EBS, Elastic Search, Security Group, Auto Scaling, Lambda and RDS in Cloud Formation and involved in deploying the content to Cloud platform on AWS using EC2, S3, EBS.
- Hands on experience with IAM to set up user roles with corresponding user and group policies using JSON.
- Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
- Extensive experience with containerization and related technologies like Docker a kubernetes.
- Developing Docker images to support development and testing team and their pipelines.
- Jenkins implementation and configuration resulting full CI to integration environment on commit.
- Configured the LDAP as a Docker container and created user profiles.
- Have configured Tomcat application server as a container and automated the deployment.
- Actively manage, improve, and monitor cloud infrastructure on AWS, EC2, S3, and RDS, including backups, patches, and scaling.
- Built and deployed Docker containers to break up monolithic app into micro services, improving developer workflow, increasing scalability, and optimizing speed.

Project #2
Project Name   **: Optum Rally Integration (ORI).**
Role/Period   **: Software Engineer**
Duration   **: September 2017 – July 2019**

Responsibilities:
- Installing/Configuring/Managing Jenkins CI Automation.
- Jenkins is used as a continuous integration tool for automation of daily process.
- Created Ansible Automation tools and builds, and do an overall process improvement to any manual processes
- Installed/Configured and Managed Nexus Repository.
- Creating CI/CD pipelines by integrating Git, GitHub, maven, Jenkins, Ansible and AWS (provisioning).
- Building and implementing new projects builds framework using Jenkins & Maven as build framework tools as Continuous Delivery framework using Jenkins, Ansible and Maven in Linux environment.
- Managed Maven project dependencies by creating parent-child relationships between projects.
- Building and deploying scripts using Maven as build tool in Jenkins to move from one environment to other environments.
- Efficient in Maven for the build process and Jenkins as continuous integration build tool and worked on build failures on trouble shooting.
- Used Jenkins to streamline CI/CD process, automated Master-Slave configurations using temporary slaves.
- Built Ansible Development workflow and best practices around configuration management as well as building a strong and diverse internal Ansible community.
- Designed and built a continuous integration and deployment framework for Ansible Code using test driven development.
- Setting up EC2 instances and deployment of client applications on AWS EC2 instances.
- Configuring S3 bucket permissions, versioning, and logging.
- To take back up in S3 Buckets and snapshots.
- Setting up and managing containerized system using docker and kubernetes
- Expertise in container orchestration using kubernetes.

EDUCATIONAL QUALIFICATION

M.Tech from MV Jayaraman College Of Engineering - Bengaluru, VTU

Manoj R K