

Harish Kumar B R
DevOps Engineer

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PROFESSIONAL EXPERIENCE

- Working as DevOps Engineer for TechMahindra Ltd., Bangalore from Feb 2019 to till date.
- Worked as a Application support Group in TechMahindra Ltd., Bangalore from March 2017 to Feb 2019

PROFESSIONAL SUMMARY

- Having around 5 years of IT experience, including 3.2 years as a DevOps Engineer with expose to DevOps tools such as Kubernetes, Jenkins, Docker, Ansible, Git Hub, Dynatrace + AWS experience.
- Experience on Installation of tools like GitHub, Jenkins, Maven, SonarQube, Nexus, Ansible, Docker, Kubernetes and Tomcat in Linux environment.
- Good knowledge in writing Shell Scripts to automate the several activities.
- Experienced in source control management concepts branching, tagging and maintaining the version across the environments using SCM tools like GitHub on Linux and windows platforms.
- Extensive experience using Maven as build tools for building of deployable artifacts (jar, war & ear) from the source code.
- Having experience on code review tools like SonarQube.
- Good experience in installing Nexus as artifactory repository.
- Extensively worked on Jenkins for continuous integration and for End to End automation for all build and deployments.
- Creating new Build jobs, Plugins installation and management, setting up Master/slaves using Jenkins.
- Experience in Jenkins administrative part like, Jenkins Backup and Jenkins Security.
- Good knowledge of AWS services like Amazon EC2, S3, ELB, Auto Scaling, VPC, EFS, Route 53, EKS, ECR and IAM.
- Setting up IAM for user, group and policies.
- Experienced in deploying the code in various servers like Apache Tomcat and WebLogic.
- Good experience in containerizing applications with Docker.
- Good Experience for writing Docker Compose File for Microservice Architecture.

- Hands on experience in Container Orchestration tools like Docker swarm & Kubernetes.
- Experience on writing K8s manifest files like Replicaset, Deployment.
- Good knowledge on configuration management tool Ansible.
- Knowledge on SQL Databases.

TECHNICAL SUMMARY (TOOLS)

Versioning Tools	GIT, GitHub.
CI Tools	Jenkins
Operating Systems	Windows, Linux (RHEL) and Ubuntu
Build Tools	Maven
Scripts	Shell Script
Cloud	AWS
App Servers	Apache Tomcat and WebLogic.
Web Servers	Apache HTTP, Nginx
Configuration Management	Ansible
Code Quality Tool	SonarQube
Artifactory Repository	Nexus
DataBase Tool	SQL Developer
Containerization	Docker
Container Orchestration	Docker Swarm & Kubernetes

EDUCATIONAL QUALIFICATIONS

- Bachelors in Computer Science and Engineering from Malnad College of Engineering, Hassan with 8.06 CGPA.

Certifications and Achievements:

- Archived Pat On The Back and Bravo Awards on completing deliverables as per timelines and SLA's

Professional Experience:

PROJECT # 1	
Project Name	Sales Quote Engine
Client Name	BT(British Telecomm)
Role	Support Engineer
Duration	Mar 2017 to April 2019
Work Location	Bangalore
Tools	WebLogic, Jenkins, Putty, Apache , Shell, Nexus, SQL Developer, Nagios

Description:

Sales Quote Engine (SQE) is a web based application built on open source and java technologies. SQE fulfils the Lead to quote scenario of the Lead to cash journey. The business functionalities that are built in SQE to support the quotation journey include the Product selection, Need Capture, Product availability, technical availability, configuration, pricing, discount and tax, configuration validation and bill of material generation. This tool is one of the major tools for BT.

Roles and Responsibilities:

- Installation, Configuration, Deployments, Troubleshooting and Maintenance of Tomcat Application server.
- Creating branches and provided branches access permission to dev team.
- Creating JAR/WAR files using build tool using Maven. Perform Build activities using Maven and Jenkins tool.
- Automate the build Process Using Jenkins jobs.
- Deploying the Jar, War, Ear files in WebLogic.
- Working Experience on GitHub, Git, Jenkins.
- Debugging issues if there is any failure in broken Jenkins build and maintaining Jenkins build Pipeline.
- Taking weekly back-ups by using thin backup plugin in Jenkins.
- Handling Tickets raised through JIRA and P1,P2 tickets in NG AUTO FIX tool
- Worked in Change Management and Problem Record Management areas.
- Handling deployment activities in Production environment and involved in troubleshooting in case of any issues faced in the deployment process.
- Wrote DB queries in cronjob scripts to automate the reports.

PROJECT # 2	
Project Name	Customer Inventory (BT)
Client Name	BT(British Telecomm)
Role	DevOps / Configuration Management.
Duration	May 2019 to Till Date
Work Location	Bangalore
Tools	GitHub, Maven, Jenkins, RHEL, Tomcat, Shell, SonarQube, Nexus, Ansible, Docker, AWS , Kubernetes , Dynatrace.

Description:

The sale quote engine (SQE) fulfils of the products ivpn2, MX ,the Lead to quote scenario of the Lead to cash journey. The business functionalities that are built in SQE to support the quotation journey include the Product selection, Need Capture Product availability, technical availability, configuration, pricing, discount and tax, configuration, validation and bill of material generation. SQE facilitates a smooth and automated processing of a quotation and placing of orders. It involves customer's confirmation to convert the drafted quote into an order and proceeds with the finalized order details.

Roles and Responsibilities:

- Good knowledge in Jenkins (CI/CD) methodologies, Installed and Managing Jenkins as part of project activities.
- Established coding standards and enforced them through automated tools (SonarQube).
- Created the repositories of Maven2 - hosted, Proxy, group and Docker.
- Uploading the artifacts in Nexus repository.
- Application/Web Server Log files analysis to troubleshoot application problems on application and web server side
- Written Shell scripts for build automation and deployment.
- Managing Git & GitHub operations related to the project.
- Configuring the Docker containers and creating Docker files.
- Experience in writing DockerFile.
- Responsible for configuring Docker private registries to maintain Docker images.
- Responsible for creating and configuring persistent volumes ,persistent volume claims.
- Responsible for Kuberentes administrations tasks like setting up StorageClasses, creating Roles, ClusterRole, RoleBindings.

- Strong experience in Kubernetes cluster setup and deploying applications in Kubernetes cluster.
- Implemented CI/CD using Jenkins, Docker & Kubernetes.
- Good Experience in AWS Cloud Services like EC2, ELB, VPC, EBS, S3, IAM, AutoScaling, ECR and EKS.
- Creating VPC and Load balancers as per client requirement.
- Responsible for taking backups of EBS volumes.
- Knowledge on creating and Managing AMI's/Snapshots and Volumes upgrade/downgrade AWS Resources CPU, Memory, EBS.
- Configured Ansible control machine and written Ansible playbooks with Ansible roles for reusability, Scalability and automating infra-structure and Application environments.

Declaration:

- I hereby declare that the information above is true to the best of my knowledge.

(Harish Kumar B R)