

# Bala Madhukar Guptha

**Phone:** +91 9030288955

**Email:** bala.kotha32@gmail.com

## **Professional Summary**

- Having around 5+ years of experience as a DevOps and Aws Cloud engineer, Support and Maintenance in environments like Red Hat Enterprise Linux, and Centos and focus on DevOps tools and AWS Cloud Architecture.
- Experience with DevOps essential tools like GIT, Jenkins, Maven, Ansible, Docker and AWS
- Managed Services like EC2, S3, Route53, ELB, and EBS.
- Good Hands-on experience in creating Jenkins jobs, plug-in installations, and setting up distributed builds using master/slave concepts.
- Automated deployment of builds to different environments using Jenkins.
- Jenkins administration.
- Hands-on experience with configuration Management tools like Ansible
- Experienced in using Build Automation scripting like Maven as build tools for building of deployable artifacts (JAR, WAR) from source code.
- Experience in using Tomcat and Apache web servers for deployments.
- Experience in Docker like creating Docker images, containers, Docker files, tagging, and publishing to Docker Hub.
- Experience in working on AWS and its services like IAM,VPC, EC2, EBS, S3, ELB, Autoscaling, RDS, Elastic Beanstalk, Route 53, and SNS and creating custom-sized VPC, subnets, NAT, EC2 instances, ELB, and Security groups.
- Designed highly available, cost-effective, and fault-tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balancer, and AMIs.
- Establishing connectivity to AWS Resources in another VPC in another region using AWS VPC Peering.
- Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to Storage classes based on requirements.
- Creating alarms in Cloud watch service for monitoring the server performance, CPU Utilization, and disk usage.

## **Technical Skills:**

Versioning Tools	<b>Git, GitHub</b>
Operating Systems	<b>Windows, Linux-Redhat,Ubuntu</b>
CI	<b>Jenkins</b>
Build Management Tools	<b>Maven</b>
Containerization Tool	<b>Docker, Kubernetes.</b>
Virtualization Tools	<b>Terraform, Vagrant.</b>
Database	<b>MySQL</b>
Configuration Management Tool	<b>Ansible</b>
IAC Tool	<b>Terraform</b>
Scripting	<b>Bash Scripting</b>

Webserver	Apache Tomcat
Cloud Technology	Amazon Web Services -Elastic Compute Cloud(EC2), Simple Storage Services (S3), Route 53, Virtual Private Cloud(VPC), Elastic Load Balancer(ELB), Auto-Scaling, IAM, Elastic IP's, EBS, RDS.

### **Education:**

- Prakasam Engineering College-Mechanical Engineering -2017

### **Work experience:**

- Working as an **Senior Software Engineer** in Coforge Pvt Ltd from May 2022 to till date
- Worked as **Senior Software Engineer** at Alchemy Techsol India from 29-01-2021 to 25-05-2022.
- Worked as **Software Engineer** at DLV Software Pvt Ltd from 13-08-2018 to 28-01-2021.

### **Projects:**

**1. Project Name :** Clarks

**Environment :** AWS, Linux, BitBucket, Docker, Maven, Jenkins, Cloudbees, Jfrog, Openshift

**2. Project Name :** Roanake Applications

**Environment :** AWS, Linux, Windows, Git, BitBucket, Maven, Jenkins, Jfrog, Ansible, Docker.

**3. Project Name :** Pagarbooks

**Environment :** Linux, Git, Maven, Jenkins, Nexus, Apache Tomcat.

### **Roles and Responsibilities:**

#### **DevOps:**

- Strong working knowledge on GIT.
- Performing the regular tasks that include cloning, pulling the repositories, branching and merging.
- Configured and managed Git plugins in Jenkins server.
- Used Git Hub repository to run Jenkins job for Continuous Integration.
- Responsible for creating Artifacts using Maven and deploying those artifacts into Tomcat Server.
- Automated deployment of builds to different environments using Jenkins.
- Responsible for configuring the slave nodes in Jenkins.
- Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins plugins to automate continuous builds and publishing Docker images to the Nexus repository.
- Installing and Configuring Jenkins, Installing plug-in, configuring security, creating a master and slaves for implementation of multiple parallel builds.
- Installed and configured Nexus repository manager for sharing artifacts between internal teams.
- Created Roll based access control to users in Jenkins.
- Managing Continuous Integration and Continuous Delivery (CI/CD) using Jenkins and release management using SonarQube
- Managing and Configuring the Day and Night Builds for the sprint teams in Jenkins.
- Build engineering automation and productivity tools to streamline deployment pipeline.

- Writing Playbooks and modules to automate infrastructure using Ansible.
- Worked on Ansible Playbooks to bring the required infrastructure changes.
- Configuring CRON Jobs for executing daily activities such as Backup/Archive etc.
- Automated the deployments to DEV and QA Environments by picking up builds from Jenkins using ansible.
- Created docker files for easier replication of DEV, QA Environments in local machines.
- Created docker containers using docker images for deploying applications for DEV, and QA Environments.
- Copying packages from Nexus repo to Windows servers for deployment.
- Setting up local test environments if required on the engineer's machine using Vagrant and VirtualBox.
- Setting up and maintaining monitoring & alert systems for servers.
- Configured filebeat to fetch the logs from the machine and to showcase on Kibana dashboard.
- Setup and maintain log monitoring using Elastic Search, LogStash, and Kibana.
- Troubleshoot and resolve issues related to application deployment and operations
- Working with a cross-functional, distributed team to provide 24X7 deployment support across multiple environments.
- Managing patches/software upgrades in servers.
- Used Maven dependency management system to deploy SNAPSHOT and RELEASE artifacts to Nexus to share artifacts across projects.

## **AWS**

- Setting up EC2 instances and prerequisites on the instances for deploying the applications.
- Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
- Working on Multiple AWS instances, setting the security groups, Elastic Load Balancer(ELB) and AMIs, and Auto scaling to design cost-effective and highly available systems.
- Designing and deploying AWS solutions using EC2, S3, Elastic Load balancer (ELB), auto-scaling groups.
- Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
- Experienced in creating multiple VPC's, public, and private subnets as per requirement and established connectivity to AWS Resources in another VPC in another region using AWS VPC Peering.
- Used security groups, network ACLs, internet gateways, and route tables to ensure a secure zone for the organization.

## **Signature**

Bala Madhukar Guptha