

# Bala Madhukar Guptha

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## Carrer Objective:

DevOps Engineer with 5.2 years of deep hands-on experience in multiple IT infrastructure technologies, solution infra architect, and orchestrator for legacy, monolithic, microservices, and containerized applications with **CI/CD** automation using **Jenkins** pipelines. Proficient in container platforms using **Docker & Kubernetes** and 4+ **AWS** managed services, configuration management automation using **Ansible & Shell scripting** and infrastructure as code using **Terraform**, and skilled **Linux** and dedicated production & release support and continuous monitoring of mission-critical applications

## Technical Skills:

Versioning Tools	<b>Git, GitHub</b>
CI	<b>Jenkins</b>
Build Tools	<b>Maven</b>
Containerization Tool	<b>Docker, Kubernetes.</b>
Amazon Web Services	<b>Amazon EC2, EBS, S3, VPC, RDS, SNS, SQS, ELB, Auto scaling, Cloud Watch, Cloud Trial.</b>
Database	<b>MySQL</b>
Configuration Management Tool	<b>Ansible</b>
IAC Tool	<b>Terraform</b>
Scripting	<b>Bash Scripting</b>
Webserver	<b>Apache Tomcat</b>
Operating System	<b>Windows, Linux</b>

## 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.

### Project-3

**Client:** Axtria

**Role:** AWS DevOps Engineer

**Technologies/Tools:** GitHub, Jenkins, Maven, Docker, Kubernetes, Terraform, Jfrog, SonarQube, AWS.

**Project Description:** Axtria SalesIQ™ empowers the field teams to make intelligent decisions and reach the right customers at the right time with flexibility and agility. Axtria Sales IQ™ is a cloud-based sales planning and operations platform with embedded analytics. It enables effective and motivated sales teams resulting in higher commercial success. The Axtria SalesIQ automated installer is a utility for setting up or upgrading an org for all the SalesIQ modules, (A&R, IC, S&T, DATAMAX and MOBILE).

#### Responsibilities:

- Created **CI/CD** pipelines by integrating **Git, GitHub, Maven, Jenkins**, Monitoring tools, and AWS (provisioning). implement End-to-End Automation
- Implemented Maven builds to automate **JAR and WAR**
- Administered Kubernetes resources such as **workloads, pods, deployments, RBAC, probes, services, storage, networking, ELB, ingress, logging and troubleshooting nodes, application, cluster component failures**, etc.
- Developed and maintained Kubernetes manifest files using templates and **helm** packages & Rollout K8s deployments, widely used **kubectl**
- Automated continuous build, Artifactory Repo, test, and release the **deployments CI/CD** systems using **Jenkins** pipelines with a combination of DevOps tools such as SCM, **SonarQube, Docker, Kubernetes, Ansible, Terraform**, AWS & integrate, release and operational support for many critical applications of types such as microservices, containerized, web, monolithic, 3-tier and legacy applications.
- Worked on AWS services **VPC, EC2, ECS, S3, ELB, Auto Scaling Groups (ASG), EBS, RDS, IAM, Route 53, Cloud Watch, Cloud Front, and Cloud Trail**.
- Designed and implemented a container orchestration solution using **Kubernetes** on both on-prem and **AWS EKS**.
- Automated the configuration management using **Ansible playbooks** and developed many Ansible roles for repetitive tasks, quickly deploying the packages and configuration changes.
- Leveraged and developed own Terraform manifest files, and modules for building and versioning infrastructure against different **Terraform** providers mainly with AWS resources **VPC**, subnets, **EC2**, security groups, **IAM** policies roles, **EKS** Cluster, etc, and well maintained the remote backend for Terraform state. Used **Git**, and **GitHub**, as source code management, maintained artifacts using J-Frog Artifactory, and built docker images and stored Docker Hub at container registries.
- Built servers using AWS, importing volumes, launching EC2, creating Security groups, **Auto-scaling, Load balancers (ELBs)** using Cloud formation templates & AMI's using Infrastructure as a Service (IaaS).
- Designed, built, and deployed a multitude of applications utilizing almost all the AWS stack (Including **EC2**, and **S3**), focusing on high availability, fault tolerance, and auto-scaling

### Project-2

**Project:** Hilton

**Role:** AWS DevOps Engineer

**Technologies/Tools:** GitHub, Jenkins, Maven, Docker, Kubernetes, Terraform, Jfrog, SonarQube, AWS.

**Project Description:** Hilton Hotels & Resorts is Hilton World wide's flagship brand and one of the largest hotel brands in the world. The brand is targeted at both business and leisure travelers with locations in major city centers, near airports, convention centers, and popular vacation destinations around the world. Hilton provides an authentic and contemporary experience for our guests worldwide. Members who book directly through Hilton-owned channels receive exclusive discounts and amenities such as free Wi-Fi, digital check-in, keyless entry, and the ability to select the room they'd like using the Hilton Honors app.

### **Responsibilities:**

- Continuous monitoring of firewalls like security groups as well as **network ACLs** in AWS cloud and sharing the vulnerability report with the security teams and network teams.
- Created **RDS** instances as per database team requirement and enabled multi-AZ, read replicas as per demand.
- Defined **AWS Security Groups** which acted as virtual firewalls that controlled the traffic allowed reaching one or more AWS EC2 instances.
- Responsible for creating Amazon Machine Images (**AMI**) that can be utilized while implementing the Elastic load balancer (**ELB**) and Auto Scaling.
- Configure Elastic Load Balancer (**ELB**) for distribution of incoming application traffic across multiple **EC2** instances.
- Created Elastic IPs, attaching and detaching to instances as per client request.
- Skilled in creating alarms in **Cloud watch**, a service for monitoring the server's performance, CPU Utilization, disk usage, etc., and also in other AWS features such as **EBS, AMI, Cloud Front, IAM, and S3**.
- Maintaining S3 services like uploading/downloading files, and configuring/editing bucket policies.
- SNS- Creating an **SNS** topic for receiving alerts from an email, SMS, HTTP, and HTTPS protocol for application status.
- Account management for workplace environment users. Setting up user accounts, assigning privileges and user permissions Build servers using AWS: Importing volumes, launching **EC2, RDS**, creating security groups, auto-scaling, and load balancers (**ELBs**) in the defined virtual private connection.
- Stopping, Starting, and Terminating an Amazon EC2 instance as per the requirement
- Attaching and removing the **EBS** volumes to the **Ec2** instances as per client requirements
- Created **Auto Scaling Groups** to Dynamically Upgrade and Dynamically Downgrade your instances based on OnDemand.

### **Project-1**

**Project:** Corning Inc

**Role:** Software Engineer

**Project Description:** Corning is a glass manufacturing company, they are in the multiple domains like life sciences, gorilla glass, television and paramedical. Here they are dealing with different kinds of data which includes sales, inventory and master data using different applications.

### **Responsibilities:**

- Having hands on experience in creating jobs and pipeline job in Jenkins.
- Coordinated and assisted developers with establishing and applying appropriate branching, **labeling/naming** conventions using **Git source control**.
- Responsible for the **Plug-in Management**, User Management, **Build/Deploy** Pipeline Setup and End-End Job Setup of all the projects.

- Experience with container-based deployments using **Docker**, working with **Dockerimages**, **Docker Hub** and **Docker- registries**.
- Understanding the client environment, Adminstrating and creating solutions using **CI/CD, GIT, Docker**
- Deploying and managing in **Jenkins** using different branches like Develop, Master to **HF**, Release, Feature.
- Created and maintained Jenkins jobs that execute **Shell scripts** for automation
- Everyday Release the binaries for testing.
- Performing deployments to multiple environments like Dev & Production Environments
- Experience in using build utilities like **Maven** for building of jar and **war files**
- Maintain **GIT Repositories**, Handling Releases and Branching activities for GitHub
- Taking periodic backups of Jenkins job, restoring in case of there is any issue withJenkins.
- Creating and Managing **Ec Pipeline** for **Automating Build** and deploy in Dev Environment
- Worked on CI/CD tools Jenkins and GIT version control system for continuous smoothcode release proces
- **Integrated Jenkins with GitHub** private repositories, build Automation tools (Maven), and **Artifact repository** for pushing successful build code.
- Have built Docker images and written Docker files which can be used to automate alldveloper tasks.
- Worked with **IAM** to manage the users and groups **using IAM by assigning individual** policies and roles.
- Based on the testing report, Code promotions using GIT from developer's workspacet to the Integration workspace (if the test cases are successful).
- Change the configurations in servers if required.
- Preparing the Change management (high level summary plan) for prod deployments.
- Maintaining the **all the production servers** health status.
- Helping developers in **creating branches, labels and merging** strategies.
- **Troubleshooting** the views problem and deleting corrupted views.
- Used **Jira** for tracking bugs and issues. Also partially administered it by designingcustom workflow.
- Supported on call schedule for Production support.
- Starting, stopping Managed servers, Admin servers as per the monitoring status
- **Cluster Configuration** – Single Cluster, Multiple Clusters and Deployment over clusters.
- Involved in tracking and managing vendor support tickets and work with a team to resolve urgent application issues.
- **Advanced knowledge to manage the project**, coordinate between departments, create test plans, and provides timely and accurate status reports
- Coordinate with and provide guidance to developers on their development environments with team members to determine how the application is supported in production, including back-ups, disaster recovery and system performance.

