Bala Madhukar Guptha

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

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 :** Hilton
   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
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