

Raghavendra Reddy B N

Experienced professional with expertise in DevOps Build & Production Deployment

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Profile Summary

- An organized individual with over 5 years of experience in **DevOps-Build & Release and CI & CD Set-up & Process**
- Strong expertise in **AWS Cloud Services** including EC2, VPC, IAM, AUTOSCALING, CloudWatch, and S3 for building secure and high-availability environments.
- Proficient in writing **Infrastructure as Code (IaC)** using **Terraform** to provision and manage complete cloud environments
- Expertise in **CI (Continuous Integration)** and **CD (Continuous Deployment)** methodologies with **Jenkins** established **Maven**, and Jenkins on the build server
- Skilled in source control management concepts such as **Branching, Merging, Labelling/Tagging**, and Integration in version control systems
- Integrated **SonarQube** into Jenkins pipelines to perform **static code analysis**, ensuring code quality and enforcing security and coding standards across all environments.
- Integrate **Nexus** to Jenkins and push the artifacts to **Nexus Repository**
- Experienced in deploying JAR and WAR in **Tomcat Application** servers in Linux/windows
- Expert in **Docker** containerization and deploying applications on **Kubernetes** clusters
- Wrote **Ansible playbooks** to install software and manage services.
- Designed and developed reusable **Ansible roles** to automate configuration management and application deployments across multiple environments.
- Created and maintained **Kubernetes YAML manifests** for **Deployments, Services, ConfigMaps, Secrets, and Ingress**.
- Monitored system health and application metrics using **Prometheus** and **Grafana**, with custom alerting to reduce downtime.
- Resolved critical production issues including **pod failures, CI/CD pipeline errors, and Terraform state conflicts** with **minimal downtime**.
- A forward-thinking person with **strong communication**, analytical & organizational skills; well-organized with a track record that demonstrates self-motivation & creativity to achieve corporate goals
- Worked on setting up the **metrics to monitor the applications**
- Collaborated with **cross-functional teams** to resolve high severity incident swiftly and efficiently
- Developed and maintained **Root cause analysis** documentation to prevent future incidents

Technical Skills

- **Operating Systems:** Linux (RHEL, Ubuntu)
- **Scripting & Automation:** Shell Scripting, Python, YAML
- **Build Tools:** Maven
- **Application/Webs Servers:** Tomcat
- **Containerization:** Docker
- **Cloud Platforms:** Amazon Web Services (EC2, S3, ELB, AUTOSCALING, VPC, EBS, CLOUDWATCH)

- **Build & Code Quality Tools:** SonarQube, Nexus
- **Version Control:** Git, GitHub
- **Continuous Integration:** Jenkins
- **Config. Management Tools:** Ansible, Terraform
- **Containerization:** Docker
- **Container Orchestration:** Kubernetes, Helm Charts
- **Monitoring & Logging:** Prometheus, Grafana
- **Bug Tracking and Documentation:** Jira

Work Experience:

Since 2020 with Wipro, Bangalore.

Domain: BFSI.

Project: PSG – Pdf Statement Generation - which includes daily, monthly, quarterly, and intraday Credit/Debit report generators.

Tools Used: Linux, AWS, Ansible, Jenkins, shell script, GITHUB, GIT, Maven, JIRA, Docker, Apache Tomcat, Docker, Kubernetes, Prometheus, Grafana, IAC – Terraform,

Environment: Production, QA, SIT, UAT, PRE-PROD, Development, Linux, Windows

Key Result Areas:

- Spearheading the development & implementation of procedures for system troubleshooting & maintenance, establishing milestones for necessary contributions from departments and developing processes to facilitate their collaboration.
- Working closely with engineering professionals within the company to maintain hardware & software needed for projects to be completed competently.
- Writing, modifying & tuning existing shell scripts and creating VPC, Subnets & setting up EC2 instances, adding instances to respective subnets.
- Working on S3, Cloud Watch, EBS, AMI & IAM and deploying applications using Kubernetes, attending management meetings, and client meetings, reporting on overall quality status, escalating issues, and conducting post mortem on projects across domains Testing system integrity, implementing designs, application developments & other processes related to infrastructure and making improvements as needed.
- Specifying, documenting & developing new product features, and writing automation scripts, analyzing technology utilized within the company and developing steps & processes to improve & expand upon them
- Importing & managing multiple corporate applications into GIT repositories and giving access rights to the authorized developers; setting up the automatic build & deployment automation for Java-based projects by using JENKINS & Maven; administering Jenkins for continuous integration & deployment into Tomcat/WebSphere Application Servers, testing in build environment & releasing to test team on scheduled time
- Delivering large-scale, complex programs with a focus on technology transformation; collaborating with leadership teams to evaluate technology challenges
- Performing configuration management & release engineering in multiple projects & multiple-branches environment
- Creating Jenkins pipeline jobs, and declarative pipeline scripts, and declaring the agent, parameters,

environment, options, stages, and steps in the declarative pipeline script; managing declarative script for triggering the multiple jobs and configuring Jenkins as a common CI engine to build & promote applications to DEV, QA, STAGE & UAT environments.

- Performing detailed analysis of business requirements and formulating comprehensive plans to define project requirements
- Preparing Docker to compose file, Docker Images & Containers, creating the Docker file, managing the Docker images and removing the Dangling Images; creating the Docker volumes & attaching to containers
- Integrating the SonarQube, Maven & some of the tools with Jenkins; installing & configuring the SonarQube and integrating with the projects
- Analyzing & understanding solution requirements; facilitating solution development projects throughout the solution cycle from requirements gathering to implementation for business continuity.
- Worked on Kubernetes Cluster to manage containers and deployments.
- Good Experience in Managing PODs and performing Rolling Deployments.
- Manage production application deployments in the Kubernetes cluster using Kubectl.
- Responsible for developing manifest files.
- Writing manifest file definitions for different K8s components like configmaps, secrets and mounting these resources as volume mount and environment variables for application.
- Worked on Daemon sets, Cron job and Job.
- Responsible for Kubernetes services like ClusterIP, NodePort, and Load Balancer exposure with respect to application.
- Worked on different Kubernetes deployment strategies like Deployment, Blue-green and Canary.
- Written multiple ansible playbooks to deploy application to multiple instances.
- Created multiple ansible playbooks to manage infrastructure.
- Created ansible roles for many requirements like EC2 instances creation, Application configuration, deployments.
- Leveraging SQL skills to retrieve data from DB and use it to monitor pdf reports, generation status, failure reason.
- Worked to improve observability: Involved in actively monitoring and analyzing system performance data (logs, metrics, and traces) to gain deep insights into application health, quickly identify issues, and proactively address potential problems within the infrastructure, allowing for faster troubleshooting and improved system reliability.

Education

B. Tech from Reva University in 2020

Personal Details

Languages Known: English, Kannada and Hindi

Address: Bangalore, Karnataka