

# AWS DevOps Engineer

## Rajesh Thothuka

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### SUMMARY:

- Having overall 5 years of experience in software industry as an **AWS/DevOps Engineer**.
- Configured and managed **AWS** infrastructure as code with **Terraform**.
- Deploy, maintain, and improve performance over containerized application in EKS.
- Configured Devops tools like **Gitlab, Jenkins, Docker, Terraform, SonarQube, Jfrog, Helm charts, etc.**
- Strong experience in building, configuring, and deploying **Java** applications in various infrastructural architecture.
- Experience using cloud providers and APIs for **AWS EC2, Auto Scaling, CloudWatch, Elastic Load Balancer, ECS, ECR, IAM, SNS, S3, VPC, RDS, Dynamo DB and Route 53.**
- Experience in Version Controlling systems like **GIT, GitHub, SVN, and Bitbucket.**
- Installed and configured **Jenkins** for Automating Builds and Deployments through the integration of Git into Jenkins to automate the code checkout, thus providing an **automation** solution.
- Experience in creating Jenkins **Master-Slave** Configuration and configured end-to-end build pipeline.
- Worked with build tools such as **Maven** for the building of deployable artifacts such as jar and war from source code.
- Experience in deploying artifacts to Web servers or Application Servers such as **Nginx, and Apache Tomcat.**
- Experience in writing **Terraform** scripts for managing AWS infrastructure.
- Experience in using **JFROG Artifactory** Repositories to manage Maven builds.
- Experience with container-based deployments using **Docker** created **Docker file**, worked with **Docker images, Docker Containers, Docker Hub, and Docker registries.**
- Created Instances in Apache Web Server Application server in QA and Production environment.
- Release Management Experience writing **Bash** and **shell** scripts to automate the deployments.
- Experience in working with Tracking Tools like **JIRA.**
- Extensive experience in **24x7** on-call **production support, trouble shooting, debugging** and root cause analysis.
- Exposed to all aspects of the software development life cycle (**SDLC**), understood, and worked in **Agile** and **Scrum** Methodologies.
- Implemented a Demo project as per client request with the help of Atlassian tools like **JIRA, and Confluence.**
- Worked well and Understood **Offshore\Onsite** Model.
- Excellent Communication Skills with **Proactive thinking** and can exhibit good **leadership skills** when needed.
- Efficient in working closely with teams to ensure high quality and timely delivery of builds and release.
- Experience in using bug ticketing tools like **JIRA**, experience in log analysis using **DATADOG.**
- Experience in creating the workflows and dashboard in **JIRA** and have experience in documenting the data in **Confluence.**

- Experience with **deployments, Maintenance** and **troubleshooting** applications on **AWS** platform.
- Expertise in maintaining **good communication** with other teams such as **DEV** and **QA**.

## TECHNICAL SKILLS:

<b>Operation Systems</b>	Centos 7 Linux (Red Hat 5.x, 6.x),
<b>Version Control Tools</b>	<b>GIT, GITHUB, Bitbucket</b>
<b>Build/Release/DevOps</b>	<b>Jenkins, SonarQube, JFrog, Nagios, Docker, Terraform</b>
<b>AWS Services</b>	<b>EC2, Auto-Scaling in launching EC2 instances, Elastic Load Balancer, S3, Cloud Front, RDS, VPC, Route 53, Cloud Watch, Cloud Formation, IAM, SNS</b>
<b>Languages/Scripting</b>	<b>YAML, Shell, Bash, Groovy and Terraform Scripts.</b>
<b>Application/ Web Servers</b>	<b>Application Server and Apache Tomcat, Angular Application</b>
<b>Issue Tracking Management</b>	<b>JIRA</b>
<b>Database</b>	<b>Mongo dB</b>

## Work Experience:

### 1) BigPerl Solutions Private Limited (Nov 2018- Present)

Role: DevOps/AWS Engineer

#### Responsibilities:

- Implemented various **AWS** solutions such as **EC2, S3, VPC, Elastic Load Balancer, EBS, Auto Scaling groups, RDS** and **DynamoDB**
- Launched **AWS EC2 instances** using **Terraform scripts** and **AMIs**.
- Provisioned AWS services like Ec2, Lambda, EKS, SNS, S3, VPC, ECR, Load balancers etc.as part of my Job.
- Handling DevTest, Staging, Production Servers. Maintaining local and Aws infrastructure
- Used Identity & Access Management (**IAM**) to create new users, roles, groups, and policies.
- Expertise in debugging the **VPC** network issues from end-end like checking the **security groups, network ACLs, Internet Gateways, NAT instances & Route tables** in AWS.
- Implemented DNS service (**Route 53**), Worked on Multiple **AWS** instances, set the security groups, Elastic Load Balancer, Auto scaling to design and achieve cost-effective, fault-tolerant, and highly available infrastructure.

- Configured the infrastructure using **Docker, Kubernetes, Terraform & CloudFormation**
- Created a **master** and **slave** configuration on **Docker Containers** to achieve load balancing for **Jenkins**
- Responsible for the **Plugin Management, User Management, and Automating Build** Management process with **CI Tool Jenkins**.
- Integrated **GIT** into Jenkins to automate the code checkout process.
- Configured the Docker containers and created **Docker files** for different environments.
- Virtualized the servers using **Docker** for the test and dev environments needs.
- Integrated Jenkins with Kubernetes and Deployed application as a Docker container in Kubernetes Cluster.
- Configured **Kubernetes** cluster and deployed application as **Docker** containers and maintained their pods and services.
- Developed build and deployment scripts using **MAVEN** as build tools in **Jenkins** Configured Jenkins **Build/Deploy Pipeline** to store the build artifacts in the **Artifactory** repository.
- Implemented a production-ready, load-balanced, highly available and fault-tolerant **Docker & Aws infrastructure**.
- Setting up Monitoring service **Nagios** to proactively identify the performance issues.
- **JIRA** is used as an issue and bug tracking tool.
- Coordinated with developers, Business Analyst and Managers to make sure that code is deployed in respective environments.
- Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems, and key processes, reviewing system and application logs, and verifying completion of scheduled jobs.

### **Educational Background:**

- B.sc (Computer Science) from Govt. Degree Collage (Osmania University).

### **Declaration:**

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

(Rajesh Thothuka)