

AWS DevOps Engineer

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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:

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

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)