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DevOps Engineer

## Professional Summary:

- I have 4+ years of IT experience in AWS, DevOps and Cloud Infrastructure.
- Hands on Experience in creation of AWS Infrastructure with Terraform.
- Developed Templates for AWS Infrastructure as a code using Terraform to build non- prod and production environments.
- Hands on Experience on AWS Services like: IAM, EC2, S3, VPC, ALB, ROUTE53, RDS Cloud Watch, Cloud Front, Cloud Trail, LAMBDA, Auto Scaling, EBS.
  - ➢ Hands on Experience on Auto scaling in EC2.
  - ➢ Infrastructure AWS service in ALB creation that I have created different target groups.
  - ➢ In ALB have created Routed the traffic both paths based and host based routing policies.
  - ➢ Created different buckets in S3 service.
  - ➢ Hands on Experience on Static Website Hosting.
  - ➢ Created hosted zone in Route53, created different type of Record Set within the Name servers.
  - ➢ Registering new domain names and Route internet traffic to the resources for domains by using AWS Route53.
  - ➢ For database accessing purpose we used AWS Service in RDS (MYSQL).
  - ➢ Create visualization of monitoring AWS service in CloudWatch.
  - ➢ Created Lambda function to start and stop instance at specific time for that i have used crontab expression.
- Experience in DevOps tools like Git, GitHub, Jenkins, Maven, Apache Tomcat, and Docker.
  - ➢ I have used to GIT tool to connect with SCM.
  - ➢ For the SCM (Source Code Management) purposes we use GitHub.
  - ➢ Created different branches (main, develop, feature) in repo.
  - ➢ Configured Jenkins integration tool for automating the deployment on the target server.
  - ➢ Generated different CICD pipelines (Single, Multi branch) in Jenkins.
  - ➢ Working with multiple deployment servers like Apache, Tomcat.
  - ➢ In Jenkins we used MAVEN as a build tool.
  - ➢ Having good knowledge about Docker images.
  - ➢ Working with Docker in created multiple containers and images also had experience on writing the Docker file.
  - ➢ For code quality checking purpose, we are using SonarQube.
  - ➢ In Jenkins we used different plugins like: Jacoco, Cobertura, Safe Restart, Thin backup.
  - ➢ For artifactory purpose we used to S3 in Jenkins.

- ➤ Having good knowledge Monitoring tool like Prometheus, Grafana and Cloud Watch.
- ➤ Having good knowledge Logging tool like ELK (Elastic search, Kibana). ➤ Writing different types of Shell Scripts like Apache, Tomcat and Jenkins. ➤ Basic knowledge on Python language.
- ➤ Having good experience in python scripting.
- Support on-call 24/7 for all DevOps activities.

**Technical Skills:**

| Core Skills | Cloud-Technology, DevOps-Tools, Linux, Containerization-Technology. |
|---|---|
| Cloud Platform | AWS. |
| AWS | EC2, ALB, VPC, IAM, Auto Scalling, Route53, S3, Cloud Watch,SNS, EBS, Lambda, ECS. |
| Version Control Tools | GIT. |
| CICD Tool | Jenkins. |
| Containerization Tool | Docker. |
| Build Tool | MAVEN. |
| Web Servers | Apache, Tomcat. |
| Scripting Language | Shell Scripting |
| Logging Tools | ELK (Elastic search, logstash, Kibana) |
| AWS Infrastructure Provision | Terraform |
| Monitoring Tools | Cloud Watch, Grafana (Prometheus) |
| Operating Systems | Linux, Ubuntu. |

**Educational Qualification:**

- B.Tech from Jawaharlal Nehru Technological University,  Ananthapur.

**Professional Experience:**

- Currently working as DevOps engineer at GE Digital from SEP 2018 to till date.

**Project #2:**

**Client**        : **GE Digital**

**Project**       : **E-Commerce (jabong)**

**Role**      : **DevOps Engineer**

**Duration**   : **JAN 2020 to Till Date**

**Description**: This Project deals with an e-commerce website for online sale. It provides a user with catalog of different products available for purchase in the site. In order to facilitate online purchase a shopping cart is provided to the user. The system is implemented using a 3-tier approach, with a back-end data base, a middle tier of micro services and JAVA and web browser as the front-end client.

**Responsibilities**:

➢ Designing and architecting cloud infrastructure with AWS services like EC2, VPC, RDS, S3 and Route53 etc as per client requirements.

➢ Maintaining EC2 services like launching Instances, attaching Volumes,

Configuring Security Group, Monitoring EC2 instance metrics like CPU Utilization,

Disk read/write operation And Networking performance of the EC2 servers.

➢ Monitoring the metrics of the EC2 through Grafana with customized

dashboards.

➢ Maintaining S3 services like uploading/downloading files, configuring/editing bucket to policies.

➢ Having good experience in to create infrastructure for low environments like dev, stage, QA and pre-prod by using the terraform.

➢ Launching Virtual Private Cloud (VPC), Creating Subnet in the VPC, Launching EC2 instance and RDS Database Instances, Configuring and maintaining the Route Table, Internet Gateway within the VPC.

➢ Cloud Front- Configuring and Marinating the Cloud Front distribution to deliver the content to edge locations.

➢ Route53 - Configuring domain name, Creating Record sets within the Name servers.

➢ IAM- Creating and Managing users, Groups and Roles, the roles assigning to the services

➢ SNS - Creating an SNS topic for receiving alerts from an Email, HTTP and HTPS protocol for application status.

➢ Cloud Watch -Monitoring and Configuring the Cloud Watch metrics.

➢ Supporting and managing client Infrastructure with high traffic application on AWS.

➢ Suggesting and implementing Cost Optimization techniques on AWS for multiple clients.

➢ Optimizing MySQL Database Access.

➢ Installed Jenkins in Ubuntu and Linux Ami and created new jobs by configuring GIT, Automated the Build.

➢ Writing the some python scripts like to fetch the s3 buckets in the all accounts and list the how many ec2 are in running state and stopped state.

**Environment**: Maven, Jenkins, AWS, GitHub, Apache Tomcat, Docker, Terraform.

**Project#1** :

**Client**           : GE Digital

**Project**        **: Telecom (Vodafone)**

**Role**             **: DevOps Engineer**

**Duration**        : SEP 2018 to DEC 2019.

**Description**: Vodafone Group, a worldwide telecommunication company, is reimagining the customer Experience by broadening its offerings. Vodafone turned into Amazon Web Services to free its workforce from repetitive work. Working with AWS on edge computing means we are making simpler for both independent software vendors and our customers to experiment with this emerging technology.

**Responsibilities**:

➢ Involving in Implementation of various AWS cloud Application using Amazon EC2, S3, ELB, ALB, Auto Scaling, EBS, Cloud Watch, IAM, implementing virtual platforms using VPC.

➢ I have created the infrastructure for low environments by using the terraform modules.

➢ Experience in AWS provisioning by creating EC2 Instances and Configuring all necessary services like Security Group, EBS and S3.

➢ Implemented CICD process using Jenkins along with shell scripts to automate jobs.

➢ Setup GitHub repositories, creating branches, creating users and groups and assign permissions.

➢ Configuring and setting up Jenkins created jobs for automating the build process.

➢ Installing and Configuring of Apache Tomcat as web server to deploy web applications.

➢ Installing and Configuring of Devops tools like GIT, Maven, Jenkins, Tomcat and Docker.

➢ Used Maven as build tool for Java based projects and having knowledge on Pom.xml.

➢ Creating new jobs in Jenkins and managing the build related issues.

➢ Experience in deploying WAR, EAR files in Apache Tomcat servers.

➢ Co-ordinating with the Development team to fix the Build related issues.

➢ Created Jenkins pipelines jobs by using Jenkins file also enabling build triggers to automate Jenkins jobs.
➢ Implemented the setup for Master Slave architecture to improve the performance of Jenkins.
➢ Creating CICD pipelines by integrating GIT, GitHub, Maven and Jenkins.

**Environment**: Maven, Jenkins, AWS, GIT, Apache Tomcat, Terraform.

**Declaration**:

I hereby declare that the information furnished above is true to the best of knowledge.

(Raviteja Bandi)