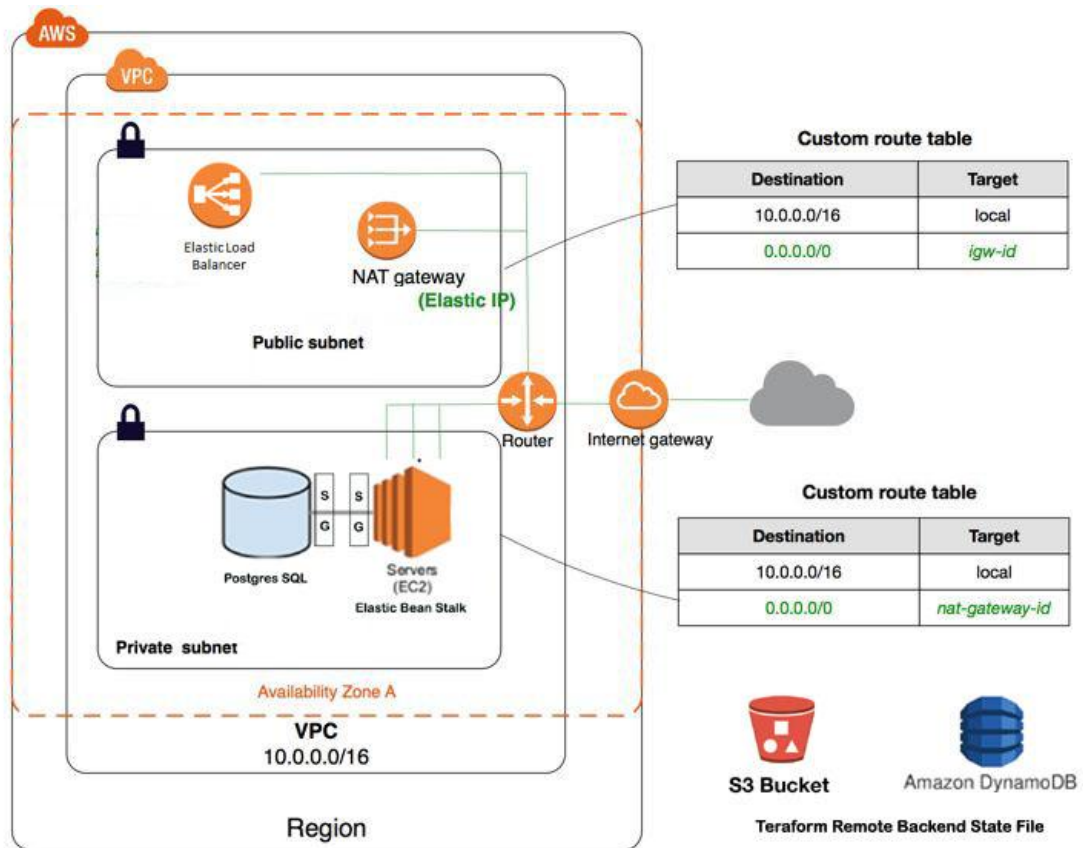


ARCHITECTURE



For Rest API

- Spring boot java application deployed to AWS ElasticBeanstalk
- Database is AWS RDS (PostgreSQL)
- Configure Spring profiles for dev, test, prod

Terraform (Infrastructure As Code)

Backend -Remote state file

Terraform State file is stored in S3 bucket.

AWS Dynamo DB to maintain locks.

AWS Elastic bean stalk - To deploy web applications to development environment

use free tier and default configurations. Consider the below options for high availability and resilient environment.

Load Balancer options (default Classic Load balancer)

- Enable cross zone Load balancer

- Enable path patterns

Autoscaling Policies

- Scale up and down based on metrics like CPU utilization

CloudWatch

- Monitor metrics

- Alarms to send notifications

- Configure rolling updates for any platform updates

Postgres SQL - for DB

- Multi Availability zones

- Enable retention for backups

Jenkins Pipeline As Code

- Build Spring boot applications

- Create/Destroy Infrastructure

- Deploy Spring boot applications