

Overview

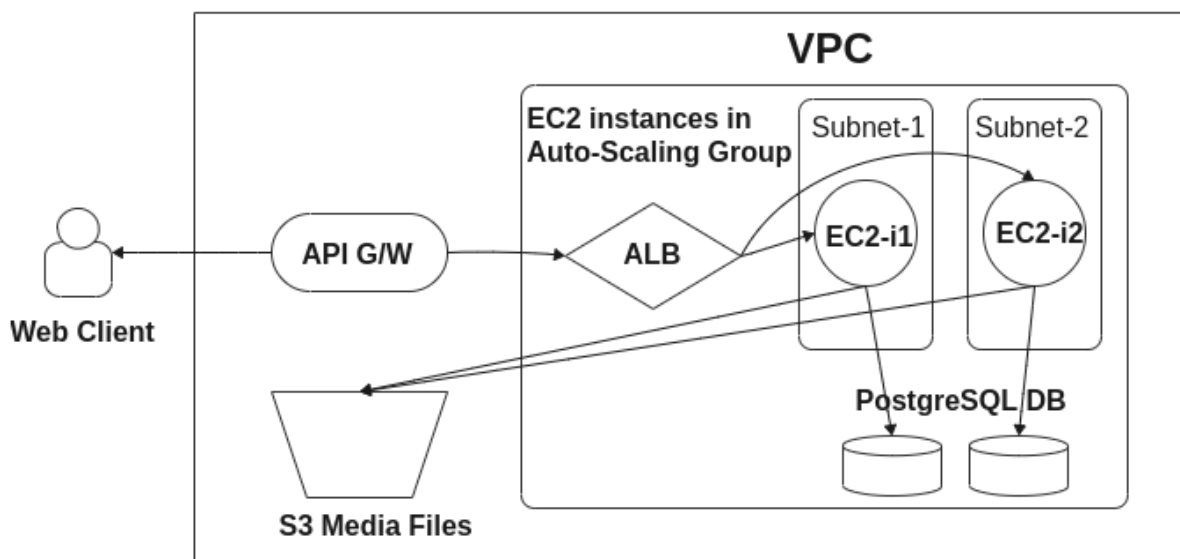
This is the Servian DevOps Tech challenge. It uses a simple application to help measure a candidate's technical capability and fit with Servian. The application itself is a simple GTD Golang application that is backed by a Postgres database.

Servian provides the Tech Challenge to potential candidates, which focuses on deploying this application into a cloud environment of choice.

Pre requisites for your deployment solution.

- AWS Access key and Secret Key stored in Vault.
- Vault access credentials to deploy and setup AWS Infra components.
- Jenkins build server.
- Webhook access to the Github repo in Jenkins.

High level architectural overview of your deployment.



Process instructions for provisioning your solution.

1. As soon as developer pushes any commit and raise the PR to master branch, a build trigger to the Jenkins server will get executed for development environment.
2. All the code quality checks and code coverage report via unit-test case execution are included in this pipeline.
3. Also, Artifacts before deploying to AWS Cloud Infra are stored in Nexus repository.
4. Once, all the checkpoints are passed the build package is deployed in the AWS Infra setup created & configured using CloudFormation IaC to specific selected environment.
5. CloudFormation Infra setup scripts & modules are part of a separate repo.
6. CloudFormation init, plan, and apply are the three basic stages of this Infra-pipeline.
7. After deploying the build packages to respective environment, users can start accessing/testing the single-page website.