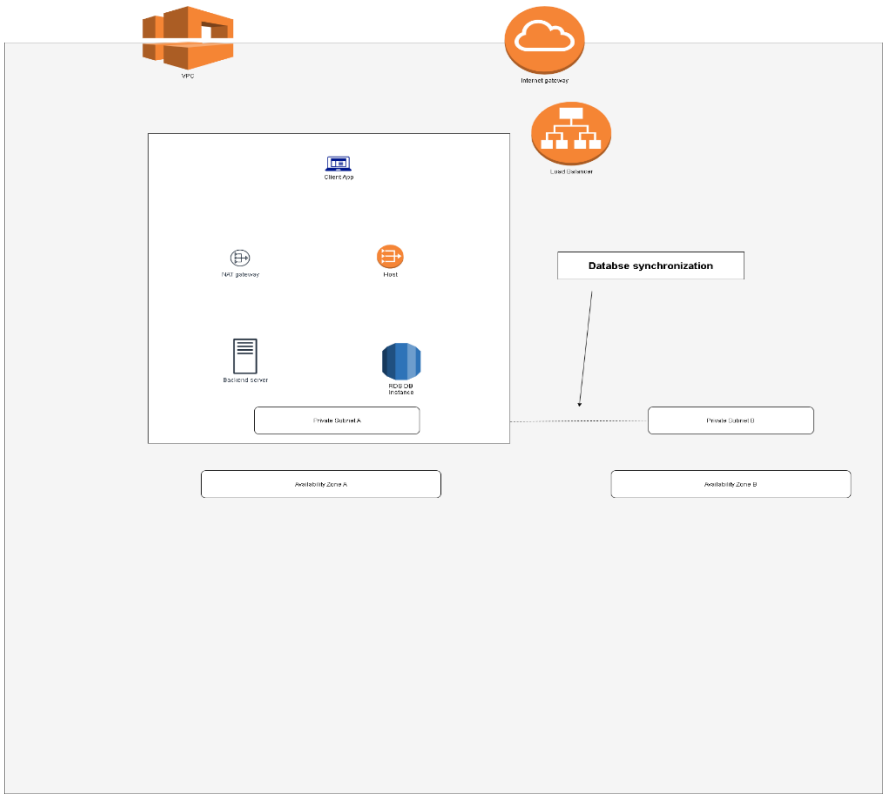
Building A web Application using AWS, set up is done using CloudFormation.

The main purpose of this project is to deploy a user management application built using React JS, Springboot, amazon RDS.



The project consists of CloudFormation templates to set up the environments needed for deployment.

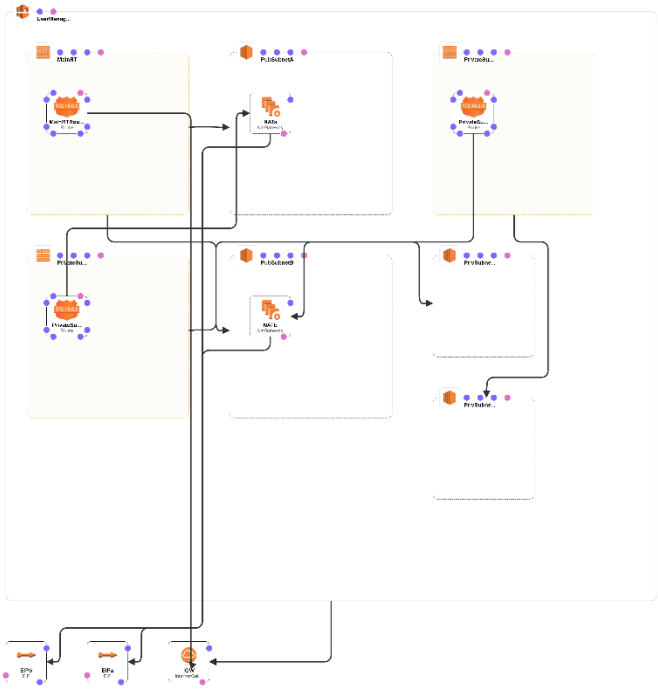
This includes:

Ec2 instance, connected to RDS for hosting the Springboot Jar files (server application), the Server template connects to the S3 bucket to fetch the file needed. It includes IAM role to give access to allowed instances to connect to s3 bucket.

The first one spins up is networking configuration of the infrastructure (scaffolded) **ca2_template2.json.**

By running the create-infra.ps1

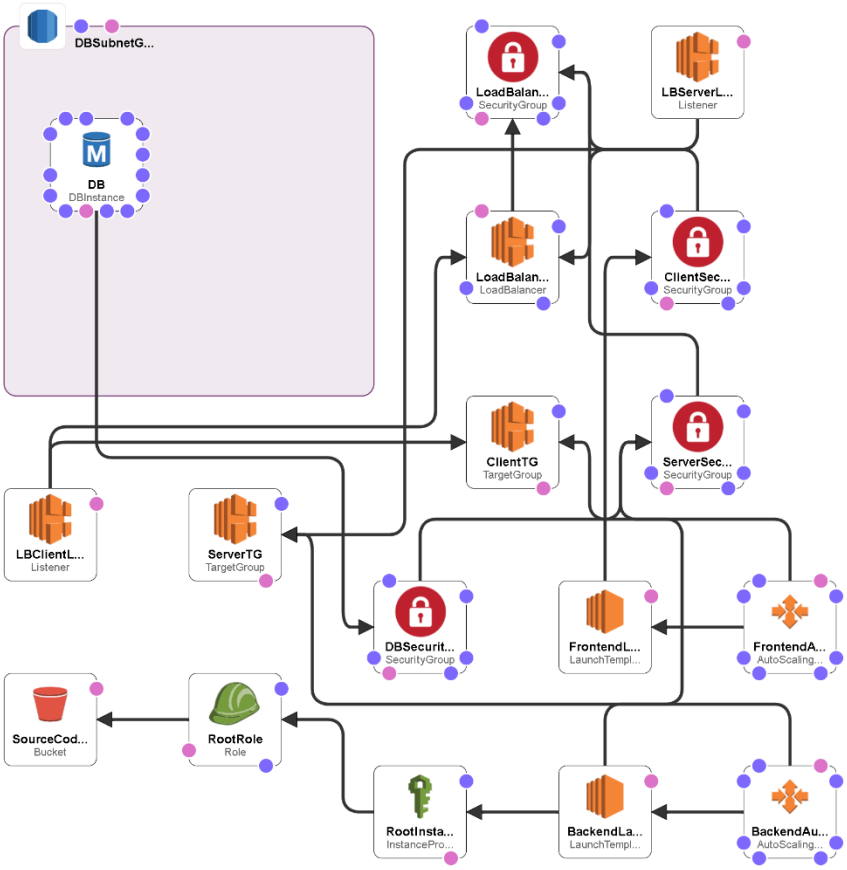
The template is spined up and set up the networking interface for the vm (ec2 instances) and DB instances to be created.



The second stack is responsible for booting up VMs (AWS EC2) & MySQL Database (AWS RDS) **ca_template.json**. Accordingly.

to start the stack, the create-vm-and-db.ps1 script is executed from the PowerShell Ise editor. Which creates the instances and the EDS?

Below is the design of the stacks used.



update-infra.ps1 and update-vm-and-db.ps1, is created to update stack in case there is a set up missing, in my case, there was a problem with launching the instances which IAM role and policy was not attached at first and the cloud init was also not included.