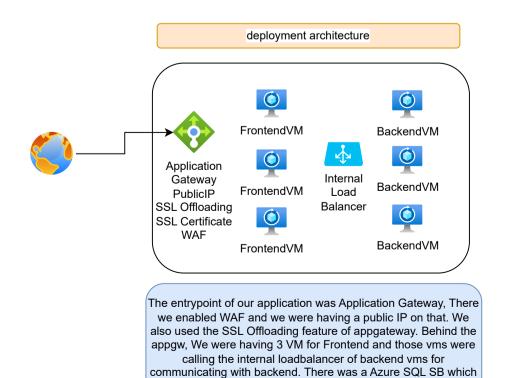


So, In this project, The Client Requirement was to deploy the monolitic Ecommerce application on Azure Cloud.

For this there were 28 Developers who worked on Frontend and the backend development. Frontend was developed in ReactJS, Backend was Python.

In this project, My Role was to create the deployment architecture and the cicd architecture.



We were managing our complete infra using terraform. For that we created one repo and in that repo we were having all the terraform code. We created two major folders environemtns and modules. In modules, We created multiple modules with foreach and map. and in environemnt we were having dev, test, and prod environment folders.

was coneected to Backend using Connection Strings.

## CICD architecture

We were having two kinds of CICD Pipelines in our environment.

1. Infra Deployment Pipeline - In this pipeline we were having the below stages - tfsec scan, Terraform init, plan, appoval, apply

Application CICD Pipeline - In this Pipeline, We were having the below stages,

SonarQube Stage - First we did sonarqube scan, Checkmarx Stage - For Security Scanning

Build Stage - We used to build the application. For ReactJS we used npm as the build tool, for python we used pip as the tool, dotnet we used msbuild as build tool, and for java we used maven as the build tool

**DeployStage** - We used to deploy directly on the azure vms using the ssh service connections created in the azure devops portal.

All our pipelines were running on Self Hosted agents, And those self hosted agents were also azure vms that we connected to azure devops portal.