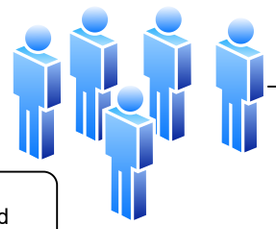
Interview Preparation



HR ka Jhund

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HR

call

Sab jante hai...

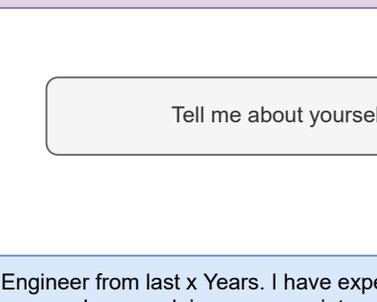
Interview Call

Interviewer

Tell me about yourself?

I am working as a DevOps Engineer from last x Years. I have experience on terraform, azure, azure pipeline, deployments. If you say, I can explain you a very interesting recently completed devops project be me.

Recently, I have worked on a project named Geneglobe, That was an ecomerrece Website that used to sell Genomic Research Producs and Services. Our Customers were Sciencists



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 architecure.

Adani Solar Plant Automation Project

Solar Plant
2lakh solar panel - Manually Maintain

For this requirement, There was a hardware team, they created one IOT device that was installed on each solar panel, and that was sending the temperature, voltage and current to azure cloud (Azure Queues/ Kafka / Azure Service Bus)

Temperature, Voltage, Current

If Dust - then clean

So now, The project requirement was to create a portal which will show warning and notifications for the maintenance of solar panels.

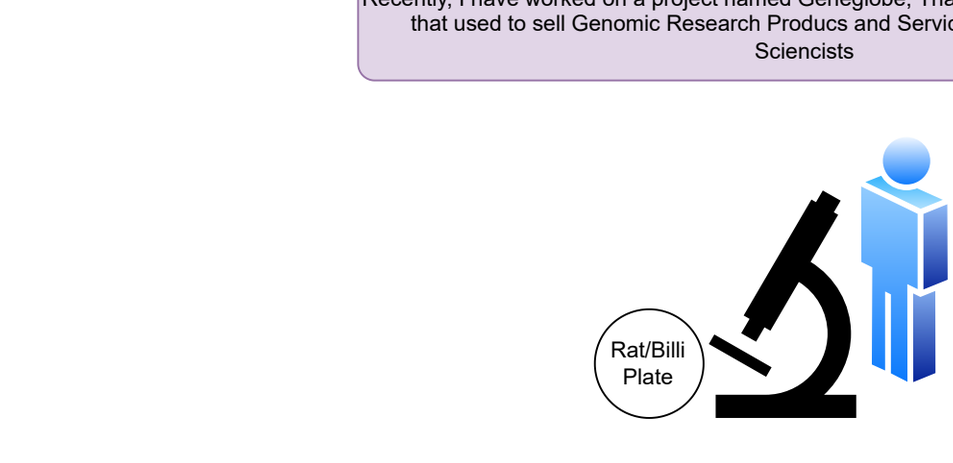
So for this, The client wanted to create a monolithic application for this portal.

There were 34 developers woprking on frontend (react), backend (python).

I was the part of devops team and My role was to create the deployment arcitecture and the cicd architecture.

deployment architecture

CICD architecture



The entrypoint of our application was Application Gateway, There we enabled WAF and we were having a public IP on that. We also used the SSL Offloading feature of appgateway. Behind the appgw, We were having 3 VM for Frontend and those vms were calling the internal loadbalancer of backend vms for communicating with backend. There was a Azure SQL SB which was coneected to Backend using Connection Strings.

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, dynamic blocks. and in environemnt we were having dev, test, and prod environment folders.

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.