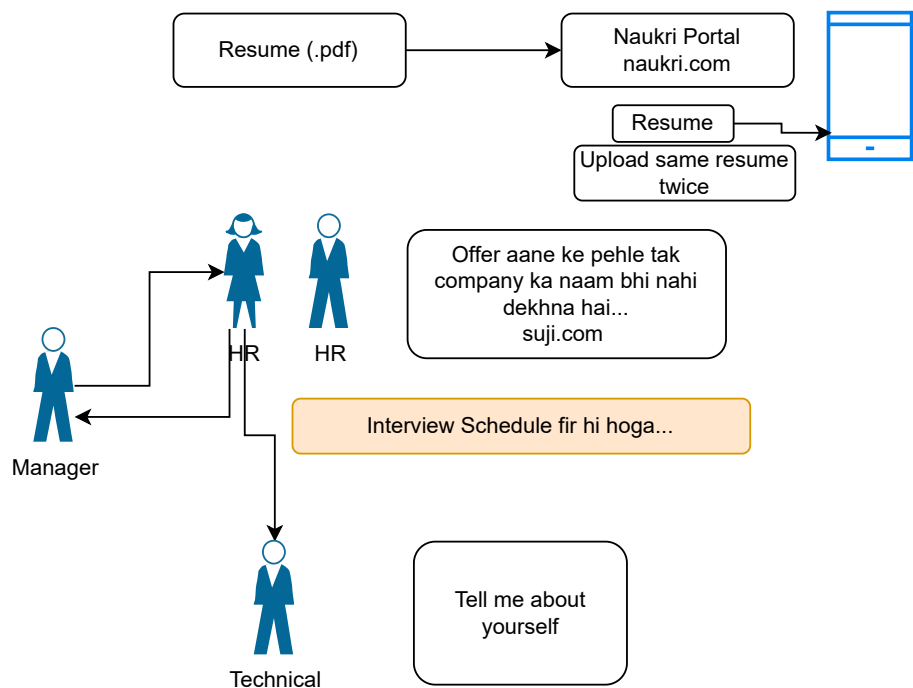


Interview Preparation Session 1



I am Suji.. I am having around 6 years experience in DevOps.

I am currently working on the below tools in the current project... Azure, Terraform, Pipelines, Docker, Kubernetes, SonarQube, CheckOv, ArgoCD

If you allow me I can explain you the complete project on which I am working on...

1. Business Use Case

Currently working with US based customer I am working on a Industrial IOT Project...

There are so many petroleum Refineries of our client in the world...

and in each refinery there are so many mechanical equipments, like motors etc...

So, For that, Our Client developed a IOT device that is connected to the mechanical equipments and it collects the metrics like RPM, Temperature and it will send this data to Azure Event Hub.

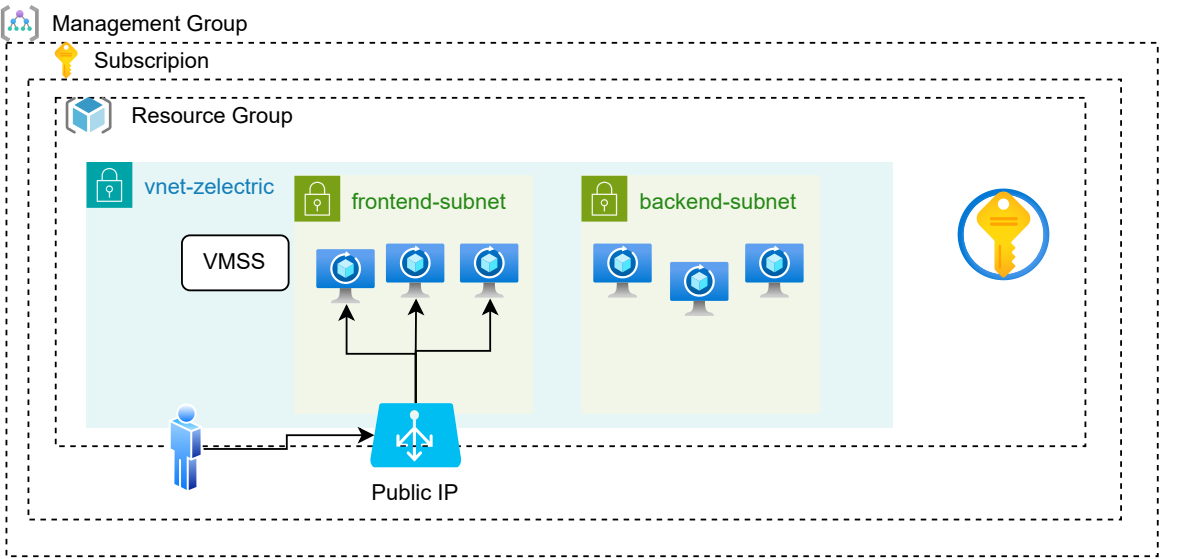
Our Project starts from here and we need to consume this data and need to create a dashboard which will show the alerts, and uptime of the equipments.

So for this we had 10 frontend developers , 5 backend developprs and 2 database engineers.

I was the part of devops team and our role was to create the deployment architecure and the cicd pipelines for the application

So, let me explain you the deployment architecture of the application first..

Monolithic 3 Tier Application



So, We have created a virtual network in the Azure, and inside that we had two subnets frontend subnet and backend subnet, Inside the frontend subnet we created 3 virtual machine and on those 3 vms, we have created a azure load balancer to balance the traffic. And for storing the passwords and secrets we have used a azure key vault

All the infra was created through terraform... In our terraform folder, We have created two main folders... modules and environments... In the modules folder we have created individual modules for every component in azure... and in the environment folder we have created dev, qa and prod folder as we were having 3 environemtns of our application