Interview Preparation Session 2(Advanced)

Dont's
Apne ghar ke baare me jyada bakar nahi karna hai...

Interviewer

Good Evening

Saurabh

Good Evening
How are you?

Interviewer

I am doing good.
How are you?

Saurabh

I am also doing good. Thanks for asking.

Interviewer

So, Let's start by introducing ourselfs. I will introduce myself then you can introduce yourself.

Saurabh

Sure.

Interviewer

Interviewer apna kuch kuch btaega...

Saurabh

Ab Saurabh ki baari...

Myself Saurabh, Working in TCS from 3.8 years. Total IT experience around 8 years and working in devops from last 5 years.

Pehle ke jhande ka value khatm... Nae jhande ki baat karna hai... har saal ke nae jhande gadna hai...

Currently we are working with a US region customer. In my current engagement the use case is related to turbine engines. So if the temperature goes above a given threshold then there is a breakdown and its a big loss for the customer for for that we have created a monitoring product and from development side we have more than 15 people are working on the same project.

In our setup we have monolithic and microservice application are there and we are in process of migrating the monolithic to microservice app. Curretly 80% is running as monolithic only 20% as microservices.

So, We have a frontend in react, in backend we have few java and few dotnet apps and a database where the database is in the onprem datacenter of the client and the vnet of azure and the on prem vnet is connected through site2site vpn connections.

When I joined the project 3 years back, There was a microsoft architect , along with that from customer side there was one more architect. I have also working on the design so I can also create the design the architecture for monolithic app as well as microservice apps.

So once the HLD is finallised, It was created according to Cloud adoption framework as per microsoft. It contains governance,Compliance, IAM, Monitoring, Backup, and DR.

As part of devops implemented, We have done everything with end to end automation. We have used IAC tool terraform due to its multicloud features.

We are doing everything using terraform, starting from managment group creation, subscription creation, association, resource gorup, vnet, subnet, vnet peering, vpn gateway, azure bastion, azure key vault, Network security Group, ASG, Firewall, User Defined Route, Virtual Machines, VMSS, App Service Plan, Web Apps, Loadbalancers for dev and stage , application gateways for prod. For Microservices, We have ACR, AKS, Azure Container Instance, For Monitoring Log Analytics Workspace, Alerts, Microsoft Defender, Security Center. Azure Functions, Event Hub, Data Factory etc... Private Endpoint, Databases, Storage Acounts We have created generic modules for each resource....

We have stored the modules in a multi repo concept. All the modules are in separate repositories.

We are calling the modules as per the requirement in different folders sandbox(Balu ka box.. Hahaha...), dev, qa, beta, and prod environments.

We are using trunk based branching strategy for all the terraform repos.

So once the terraform code is completed, we have a azure pipeline to deploy the terraform. Whenever we commit anything in the repo, A pipeline runs that will do the sanity check, which have tfsec, checkov, superlinter for linting purpose, when everything is fine it will generate the plan or it will break the pipeline and will send an email alert to the developer working on the same.

How webserver is installed, and how application is setup.... To be continued...

Ye sab roles me ye story kaam kar jaegi...
• Systems Engineer
• Production Engineer
• Software Engineer - Reliability
• Software Engineer - Observability
• Software Engineer - Cloud Platform
• Site Reliability Engineer
• Infrastructure Engineer
• DevSecOps Engineer
• Cloud Analyst
• Cloud Administrator
• Automation Engineer
• GitOps Engineer
• SecOps Engineer
• Forward Deployed Engineer
• Build & Release Engineer

How to attach a disk on a VM?

Azure Migration Strategy... Azure migrate tool, rehost, replatform

What is Vnet Integration?

What is ASR? Azure Site Recovery

How to make storage account highly available? Use GRS

How to backup a VM and database, using backup vaults

Jb bhi windows machine banaenge to admin rights chahiye hi chahiye for few things...

DDOS Protection and Sentinal

How to use Customer Managed Key (CMK) for Disk Encryption and Data Encryption in Storage Account?

How many ways to give access to Key Vault? Why there is two types of auth system?

What is managed identity in azure? and how many types are there?

How we can access storage account and key vault and databases securly using private endpoints/service endpoints?

When we create a private endpoint, How many resources are created? NIC, DNS Zone, etc...

Difference betwen ASG and NSG

Types of Firewall and what is UDR

LoadBalancer, Application Gateway, traffic Manager, frontdoor - learn 5 points each.