1. Tell us about yourself?

This is Sridhar .I have 4 years of experience in cloud & DevOps.I have core experience in infrastructure & also automate the resources that can relaying the infrastructure through DevOps tools.

Previously when I start my carrier at my first stage I was handling mainframes, after that I have to be shifted to cloud & also nearby DevOps automation. My core expertise on all the tools of DevOps, stand-alone tools . Azure, AWS, azure+DevOps, AWS+DevOps core understanding & in depth understanding about all tools how these work integrating & penetrating in to architecture & in the system.

So coming to cloud side I deal services which all part of infrastructure windows, networking, storage, IAM, security, database, migration from onprem to cloud & cloud to onprem migration. So anything related to azure active directory & also app services, function apps anything related to infra side I worked.

Coming to automation side

We use terraform as a service to automate the infrastructure provisioning.

For the application configuring we are using Ansible ,so we already integrated azure + DevOps right.

Azure already integrated all these tools through that we have option pipelines CICD pipeline.

Here we go with all these things.

I am very much confident with all these things on handling critical business servers by propagating or provisioning with these tools on cloud.

1. Where is Terraform Used in DevOps?

Terraform is a popular infrastructure as code (IaC) tool that is widely used in DevOps

Infrastructure provisioning:

Continuous integration and delivery (CI/CD):

Infrastructure as code (IaC)

Multi-cloud deployment

1. What is IAC

In Terraform, IAC stands for Infrastructure as Code. IAC is a process of managing and provisioning infrastructure resources using code instead of manual configuration.

1. What is module in terraform

Terrafrom modules are reusable terraform template,there are lot lot of community modules on terrafrom registry. A module can contain any number of resources, as well as input and output variables, and can be reused in different parts of your infrastructure code.

1. What steps should be followed for making an object of one module to be available for the other module at a high level?
2. What is State File Locking?

Terraform state file locking means which locks the state file so that it can prevents operations on a state file being performed by multiusers so once lock relesed from one user than any other user has taken lock that user perform operation and to get staate file from backend is called backend operation.It prevents state file corruption.

1. What is a Remote Backend in Terraform?

Remote backend is used to store terraform's state remote backend so which run operations on terraform cloud by using multiple commands like terraform init,plan,validate,apply,destroy,version,show,state..etc.

1. What is a Tainted Resource?

Tainted resource is used to destroy/terminate resource and recreate with modifications when we run **terraform apply**.

1. Does Terraform support multi-provider deployments?

Yes, terraform is supports for multi-provider deployements because it is not tied and also it manages large scale insfrastructure with same configurations on mutli cloud provider service.

1. Define Resource Graph in Terraform.

Terraform creates dependency graph by using terraform graph command which gives details of terraform configuration files in graphical representation.

1. How can you define dependencies in Terraform?

There are few resources which are created after target resource,for that we use dependencies.

We can use depends\_on implicitily declare the dependency & we can also declare the multiple resources in depends\_on argumens.

1. What happens when multiple engineers start deploying infrastructure using the same state file?

State file will get corrupted ,to avoid this we use state locking.

1. Which value of the TF\_LOG variable provides the MOST verbose logging?
2. Which command can be used to preview the terraform execution plan?

To preview the Terraform execution plan, you can use the **terraform plan** command.

1. What is the benefit of Terraform State? What is the benefit of using modules in terraform?

Terraform state it keeps tracks everything build in cloud which is created by infra provisioning as IAC infrastructure as code so terraform state stores bindings between remote systems and resources instances specified in your configuration.

A log file is a computer-generated data file that contains information about usage patterns, activities, and operations within an operating system, application, server or another device.

1. What’s a null resource in Terraform?

Null resource neither create nor destroy the resouces. The null\_resource can be used to execute any local actions or commands that are required during the deployment process.