Terraform Interview Questions for DevOps Engineers

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Terraform is a popular tool used to manage cloud infrastructure. If you are preparing for a Terraform interview, here are some common questions and answers that can help you:

1. Basic Questions

Q: What is Terraform?

Terraform is an open-source tool used to define and manage cloud resources using code.

Q: What is Infrastructure as Code (IaC)?

IaC is a method to manage IT resources using code instead of manual setups.

Q: What are the benefits of using Terraform?

- Automates cloud setup
- Reduces human errors
- Makes infrastructure easy to manage

Q: How does Terraform work?

Terraform reads your configuration files, connects to the cloud provider, and creates or updates resources accordingly.

2. Terraform Components

Q: What is a Terraform provider?

A provider allows Terraform to interact with cloud platforms like AWS, Azure, and Google Cloud.

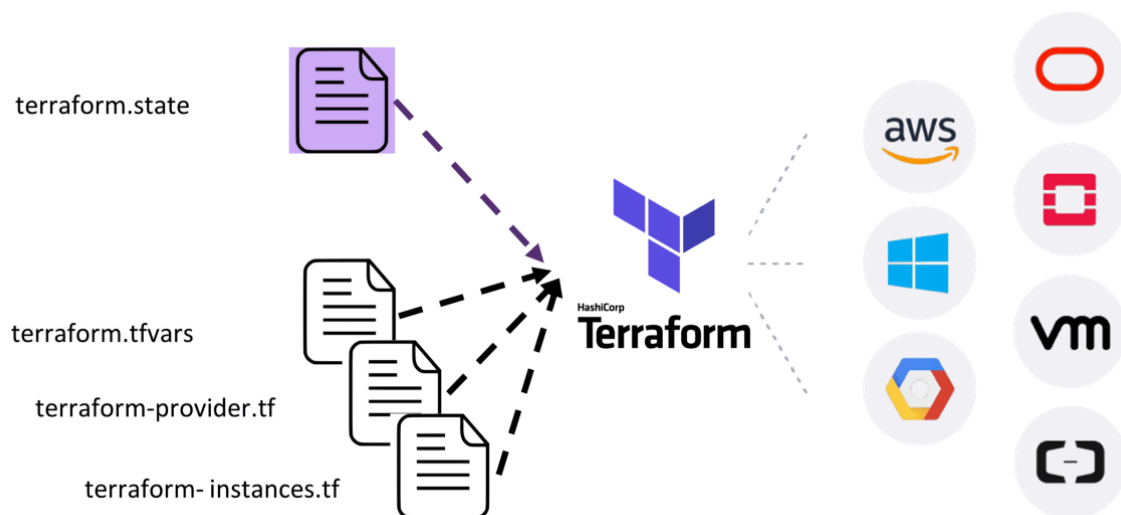### Q: What is a Terraform module?

A module is a collection of Terraform files that help reuse code.

Q: What is a state file in Terraform?

The state file (`terraform.tfstate`) stores information about your infrastructure.

Q: How does Terraform track changes?

Terraform compares the state file with the real-world setup and makes changes accordingly.

3. Terraform Commands

Q: What does `terraform init` do?

It sets up Terraform by downloading necessary providers.

Q: What is `terraform plan` used for?

It shows what changes Terraform will make before applying them.

Q: What does `terraform apply` do?

It creates or updates resources based on the configuration.

Q: How do you destroy infrastructure using Terraform?

By running `terraform destroy`, you can remove all resources defined in your configuration.

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4. Advanced Questions

Q: What is Terraform backend?

It is where Terraform stores the state file, such as in an S3 bucket or Azure Blob Storage.

Q: How can you manage sensitive data in Terraform?

By using environment variables, Vault, or Terraform's built-in secrets management.

Q: What is Terraform Cloud?

It is a service that helps teams manage Terraform workflows.

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5. Best Practices

- Use modules for reusable code
- Store the state file in a remote backend
- Use version control (Git) for Terraform code
- Test configurations before applying changes

These questions cover the basics and some advanced topics of Terraform. Practicing them will help you prepare for your interview!

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