Instructions for the demo

Create a directory backend and save the resource.tf, providers.tf and variables.tf file

First run and it will create the s3 bucket and dynamodb table and terraform state is stored locally.

```
terraform init
terraform validate
terraform plan -out "backend.tfplan"
terraform apply "backend.tfplan"
terraform show
```

Second run - Add the backend configuration to the resource_s3.tf file (resource_s3.tf.rename)

To tell terraform to use s3 for storing the state file, execute the following commands again.

```
terraform init
```

Note: Terraform will automatically detect that already there is a state file locally and prompt you to copy it to the new S3 backend. If you type in "yes," backend "s3 will get configured.

Add the outputs.tf file in the backend directory and execute the below commands.

```
terraform plan -out "backend.tfplan"
terraform apply "backend.tfplan"
```

Note: Points to highlight

- Explain terraform state in detail and discuss how to ensure that state file will be not be corrupted.
- Discuss how to share state file with multiple team members or use it for different environments like dev, QA, pre-prod etc.
- What is remote state storage or backends? Refer to https://www.terraform.io/docs/backends/index.html to understand backends
- How can s3 be used as remote state backend? Refer to https://www.terraform.io/docs/backends/types/s3.html to understand s3 backend.
- Explain what are workspaces and the pros and cons of it. Execute the commands for terraform workspace. Refer to https://www.terraform.io/docs/state/workspaces.html to understand workspaces