The repository contains of the following files

**1. main.tf**

**2. Provider.tf**

**3. dev.tfvars**

**4. variables.tf**

**5. testpipeline.yml**

**main.tf**

This is the main configuration file written in Terraform. This file creates Resource Group, Storage Account, KeyVault , App Service Plan, Managed Identity for Function App and the Function app

**Provider.tf**

This file contains the provider information which terraform will use to deploy the resouces

**dev.tfvars**

This is the file which is used to define variable values for the Terraform configurations.

They allow us to provide specific values for variables used in your Terraform modules and configurations.

\*\* We have specifically created dev.tfvars file for dev environment. We can create multiple tfvars file for multiple environment and can select the environment during runtime

**variables.tf**

This file in Terraform is used to define and declare variables that the Terraform configuration will use.

This file specifies what variables are available, their types, descriptions, and any default values they might have.

**testpipeline.yml**

This is the YML pipeline to run the terraform code to deploy azure resources automatically in azure cloud.

\* this is a multistage pipeline where the environment can be selected for which the pipeline need to be run

\* the state file is stored in the backend which is Azure Blob Storage in this case to make it more secure

\* The service connection is made using SPN

\* Before the terraform apply to run that has to go via PR approval

\* Terraform plans are stored in a artifact in text file to make it human readable