

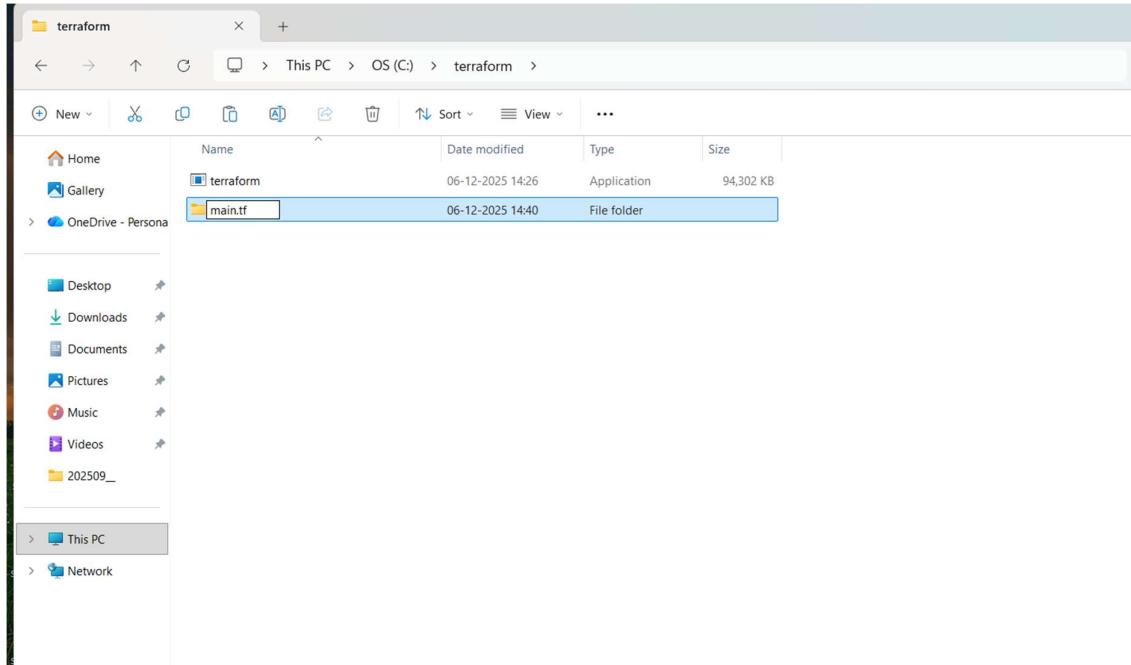
## Lab Exercise 2 – Terraform AWS Provider Configuration

**Prerequisites:** Terraform Installed: Make sure you have Terraform installed on your machine. Follow the official installation guide if needed.

### Exercise Steps:

#### Step 1: Create a New Directory:

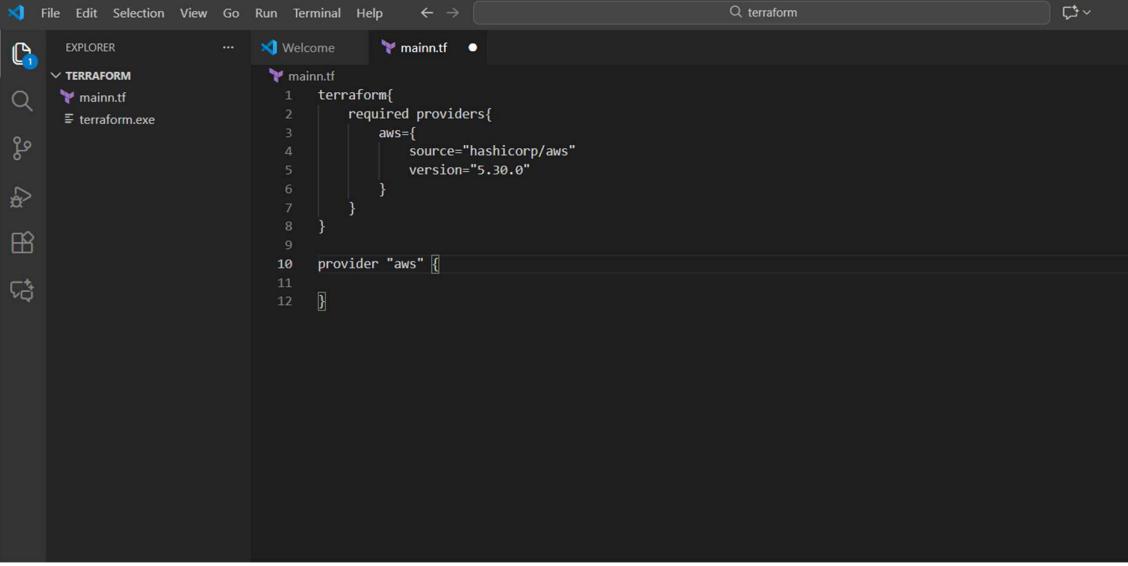
Create a new directory for your Terraform configuration:



#### “Terraform-Demo”

#### Step 2: Create Terraform Configuration File (main.tf):

Create a file named main.tf with the following content:



The screenshot shows the Visual Studio Code interface with a dark theme. On the left is the Explorer sidebar, which has a 'TERRAFORM' section containing 'mainn.tf' and 'terraform.exe'. The main editor area shows the following Terraform code:

```
1  terraform{  
2      required_providers{  
3          aws={  
4              source="hashicorp/aws"  
5              version="5.30.0"  
6          }  
7      }  
8  }  
9  
10 provider "aws" []  
11  
12 }
```

### **Step 3: Initialize Terraform:**

Run the following command to initialize your Terraform working directory:

```
terraform init
```

The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER**: Shows a tree view with a folder named "TERRAFORM" containing "mainn.tf" and "terraform.exe".
- TERMINAL**: Displays the output of the "terraform init" command:
  - PS C:\terraform> **terraform init**
  - Initializing the backend...
  - Initializing provider plugins...
  - Terraform has been successfully initialized!**
  - You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.
  - If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.