

Lab Exercise 3– Terraform IAM User Setting

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Batch- 2

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

AWS Credentials: Ensure you have AWS credentials (Access Key ID and Secret Access Key) configured. You can set them up using the AWS CLI or by setting environment variables.

Exercise Steps:

Step 1: Create a New Directory:

Create a new directory for your Terraform configuration:

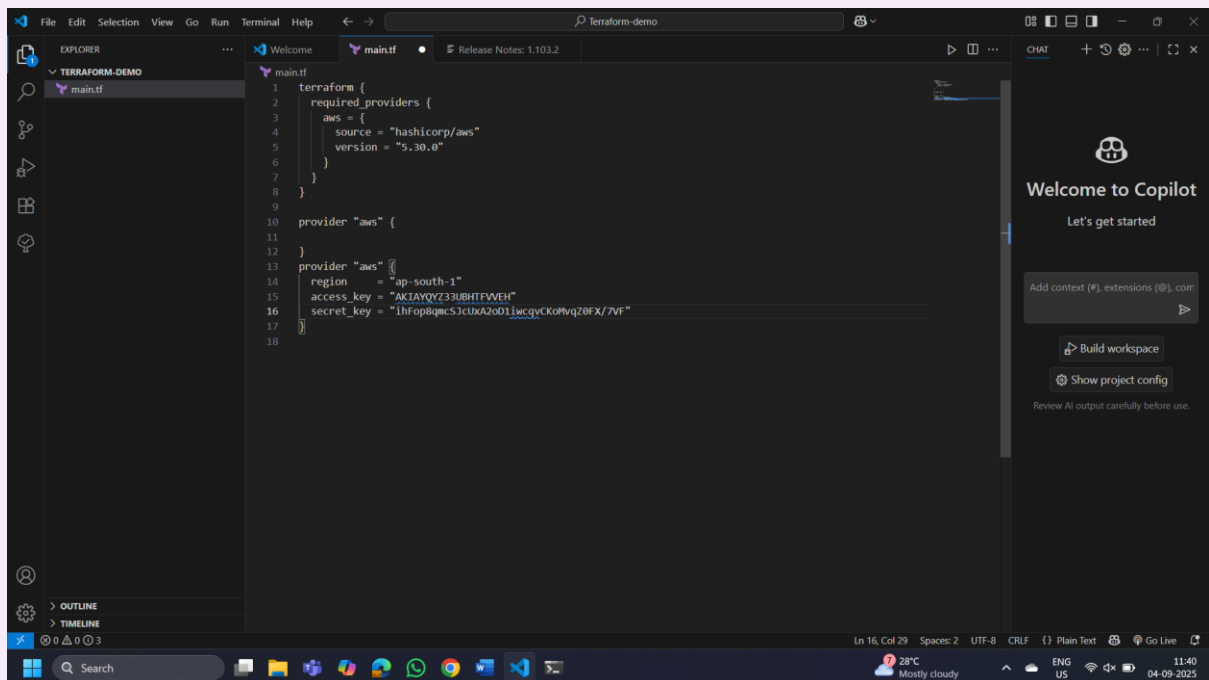
“Terraform-Demo”

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

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

```
terraform {  
  
  required_providers {  
  
    aws = {  
  
      source = "hashicorp/aws"  
  
      version = "5.31.0"  
  
    }  
  
  }  
}
```

```
}  
  
}  
  
provider "aws" {  
  
    region = "ap-south-1"  
  
    access_key = "your IAM access key"  
  
    secret_key = "your secret access key"  
  
}
```

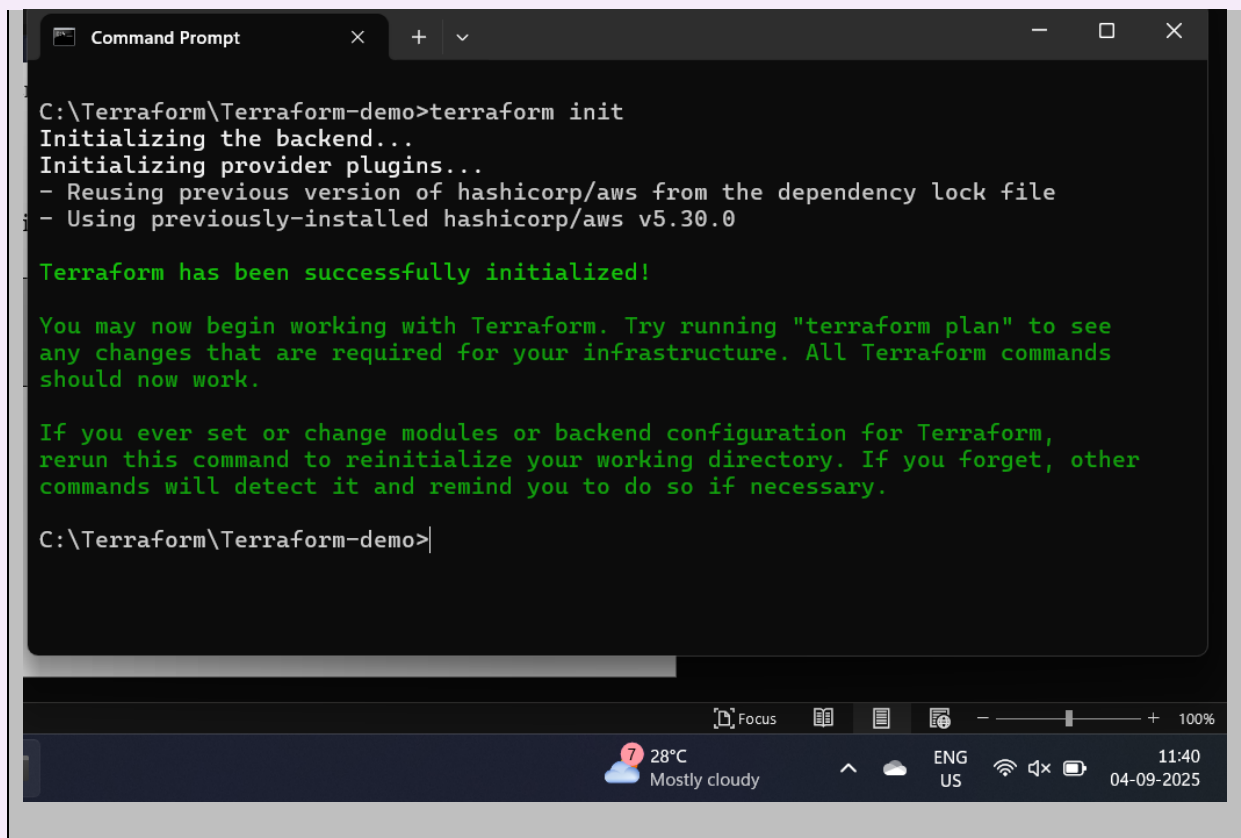


This script defines an AWS provider and provisions an EC2 instance.

Step 3: Initialize Terraform:

Run the following command to initialize your Terraform working directory:

```
terraform init
```



The image shows a Windows Command Prompt window titled "Command Prompt". The prompt is at the directory `C:\Terraform\Terraform-demo`. The user has entered the command `terraform init`. The output shows the initialization process: "Initializing the backend...", "Initializing provider plugins...", and two status messages: "- Reusing previous version of hashicorp/aws from the dependency lock file" and "- Using previously-installed hashicorp/aws v5.30.0". A green message states "Terraform has been successfully initialized!". It then provides instructions: "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." and "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." The prompt is now at `C:\Terraform\Terraform-demo>`. The taskbar at the bottom shows the system tray with weather (28°C, Mostly cloudy), language (ENG US), and date/time (11:40, 04-09-2025).

```
C:\Terraform\Terraform-demo>terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.30.0

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.

C:\Terraform\Terraform-demo>
```