

Lab Exercise 12– Terraform IAM User Setting

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
```

A screenshot of a Windows PowerShell terminal window. The title bar shows "powershell" and standard window controls. The terminal has tabs labeled "PROBLEMS", "OUTPUT", "TERMINAL", and "...". The "TERMINAL" tab is active. The command prompt shows the user is in the directory "C:\Users\ASUS\Terraform-Demo". The output displays the process of initializing the Terraform backend and provider plugins, specifically mentioning hashicorp/aws v5.31.0. It notes that Terraform has made changes to the provider dependency selections recorded in the .terraform.lock.hcl file. A green message states "Terraform has been successfully initialized!". Further instructions suggest running "terraform plan" to see required changes and reinitializing if modules or configuration change. The prompt ends with "PS C:\Users\ASUS\Terraform-Demo>". The status bar at the bottom indicates "Ln 15, Col 1 Spaces: 4 UTF-8 CRLF {} Plain Text" along with icons for Go Live and other features.