

Lab Exercise 3– 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"  
    }  
  }  
}
```

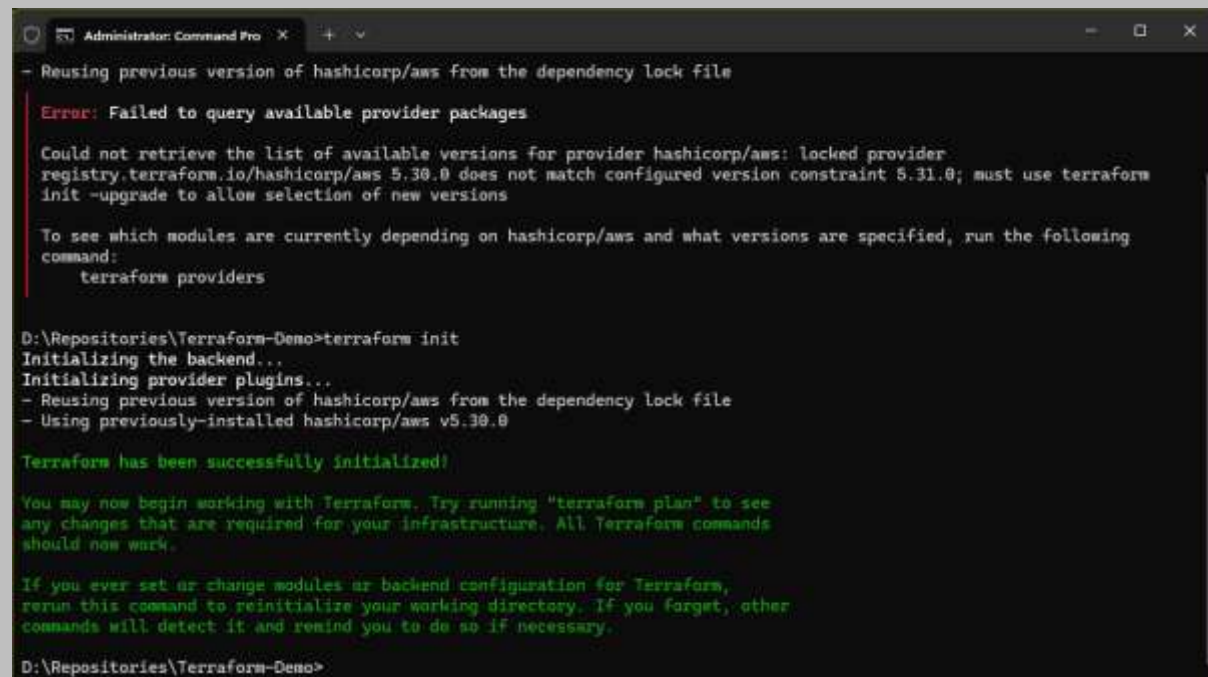
```
provider "aws" {  
    region    = "ap-south-1"  
    access_key = "your IAM access key"  
    secret_key = "your secret access key"  
}
```

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



```
Administrator: Command Prompt  
- Reusing previous version of hashicorp/aws from the dependency lock file  
Error: Failed to query available provider packages  
Could not retrieve the list of available versions for provider hashicorp/aws: locked provider  
registry.terraform.io/hashicorp/aws 5.30.0 does not match configured version constraint 5.31.0; must use terraform  
init -upgrade to allow selection of new versions  
  
To see which modules are currently depending on hashicorp/aws and what versions are specified, run the following  
command:  
    terraform providers  
  
D:\Repositories\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.  
  
D:\Repositories\Terraform-Demo>
```