Lesson 13 Demo 03

Working with Private Registry on Terraform Cloud

Objective: To demonstrate how to work with a private module registry on Terraform Cloud, enabling the use and management of modules within a private organization

Tools required: AWS Account, Terraform, VS Code

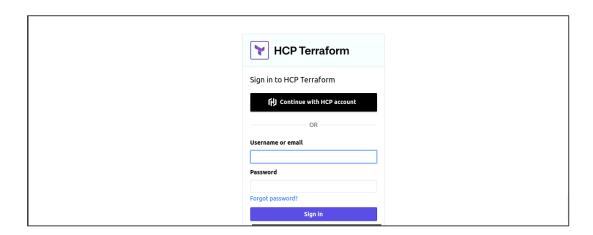
Prerequisites: None

Steps to be followed:

- 1. Set up a Terraform Cloud account and organization
- 2. Create and publish a module to the private registry
- 3. Initialize the Terraform configuration repository

Step 1: Set up Terraform Cloud account and organization

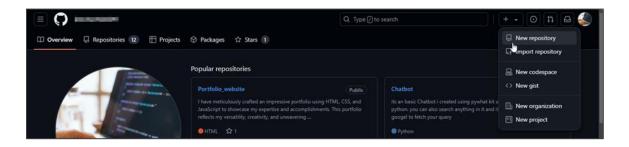
1.1 Go to Terraform Cloud to create an account and organization:



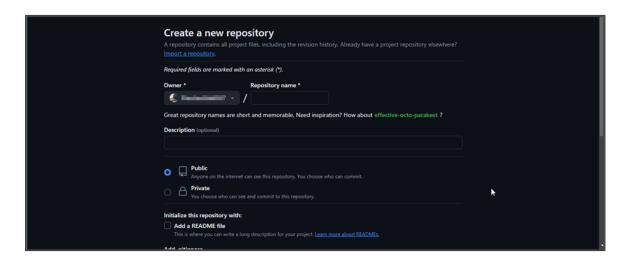
Note: Refer to demo 01 of lesson 13 for creating a Terraform Cloud account and organization

Step 2: Create and publish a module to the private registry

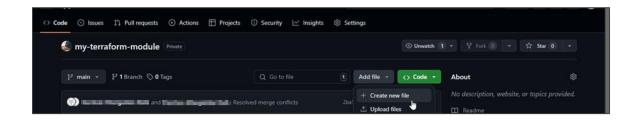
2.1 Create a new repository on GitHub



2.2 Give a name for your repository



2.3 Create three files main.tf, variables.tf, and output.tf in your repository



2.4 Add the following script in the **main.tf** file and commit the changes:

```
resource "aws_instance" "example" {
  ami = var.ami
  instance_type = var.instance_type
  tags = {
   Name = "ExampleInstance"
  }
}
```



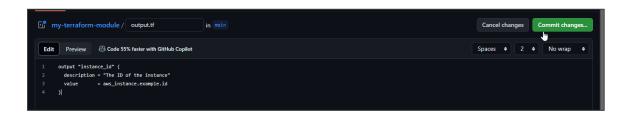
2.5 Add the following script to the **variables.tf** file and commit:

```
variable "ami" {
  description = "The AMI to use for the instance"
  type = string
}
variable "instance_type" {
  description = "The instance type to use"
  type = string
}
```

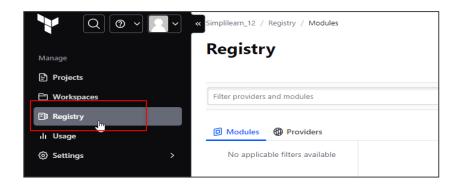


2.6 Add the following script to the **output.tf** file and commit:

```
output "instance_id" {
  description = "The ID of the instance"
  value = aws_instance.example.id
}
```



2.7 Go to Terraform Cloud, navigate to your organization, and go to the Registry tab



2.8 Click on **Publish** to publish your module from your VCS.



Step 3: Initialize the Terraform configuration repository

3.1 Run the following command to create a new directory for your Terraform configuration and navigate to that directory:

mkdir my-terraform-configuration cd my-terraform-configuration



3.2 Execute the following command to initialize a Git repository: git init

```
PS C:\Users\SLP13366\Desktop\Terraform1\my-terraform-configuration> git init
>>
Initialized empty Git repository in C:/Users/SLP13366/Desktop/Terraform1/my-terraform-configuration/.git/
```

3.3 Run the following command to add and commit the configuration files: git add .

git commit -m "Initial commit of the Terraform configuration

```
PS C:\Users\SLP13366\Desktop\Terraform1\my-terraform-configuration> git add .
>> git commit -m "Initial commit of the Terraform configuration"
>>>
[master (root-commit) 1aa96f7] Initial commit of the Terraform configuration
Committer: Darshan Mangaldas Naik <SLP13366@blrsimplilearn.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 main.tf
PS C:\Users\SLP13366\Desktoo\Terraform1\my-terraform-configuration>
```

3.4 Execute the following command to link the local repository to the remote repository: git remote add origin https://doi.org/10.1001/j.j.gov/remote-add-origin <a href="https://doi.org/10.1001/j.j.gov/remote-add-origin-add-ori

```
PS C:\Users\SLP13366\Desktop\Terraform1\my-terraform-configuration> git remote add origin https://github.com/lamble_lamble_lamble_lamble.ps c:\Users\SLP13366\Desktop\Terraform1\my-terraform-configuration> [] +
```

3.5 Run the following command to push the changes to the remote repository: git push -u origin master

By following these steps, you will successfully set up a private module registry on Terraform Cloud, publish a module, and use it in a Terraform configuration.