**rentzone-infrastructure-ecs repository:** https://github.com/Silas-cloudspace/rentzone-infrastructure-ecs

**terraform-modules repository:** https://github.com/Silas-cloudspace/terraform-modules

**Create and Clone a Repository for storing Terraform Modules**

Create a new repository in GitHub and call it “terraform-modules”

Make it private

Clone it to your desired location.

**Create Terraform Module for VPC**

Open VS Code and navigate to the “terraform-modules” directory

Create a new folder: mkdir vpc

Create 3 new files in the “vpc” folder: touch main.tf variables.tf outputs.tf

Copy the terraform files from the shared repository into them.

Run:

* git add .
* git commit -m “created vpc module”
* git push

**Create and clone a Terraform Infrastructure Code Repository**

Create and clone to your computer a new repository for the project that we will use to deploy our application.

I’ve named mine “rentzone-infrastructure-ecs”

**Create a S3 bucket and a Dynamodb table**

For storing the Terraform state in the S3 and for locking Terraform state in the Dynamodb

Go to VS Code and create a new folder and name it “remote\_backend” in the “rentzone-infrastructure-ecs” directory

* mkdir remote\_backend

Navigate to this new folder and create a new file: “backend”

* touch backend

Copy the terraform file from the shared repository into it.

Run: terraform init and terraform apply

**Create Terraform Provider**

Navigate to the “rentzone-infrastructure-ecs” directory

touch providers.tf variables.tf

Copy the terraform files from the shared repository into them.

**Create Terraform backend**

touch backend.tf

Copy the terraform file from the shared repository into it.

Run: terraform init

**Create a 3 tier VPC**

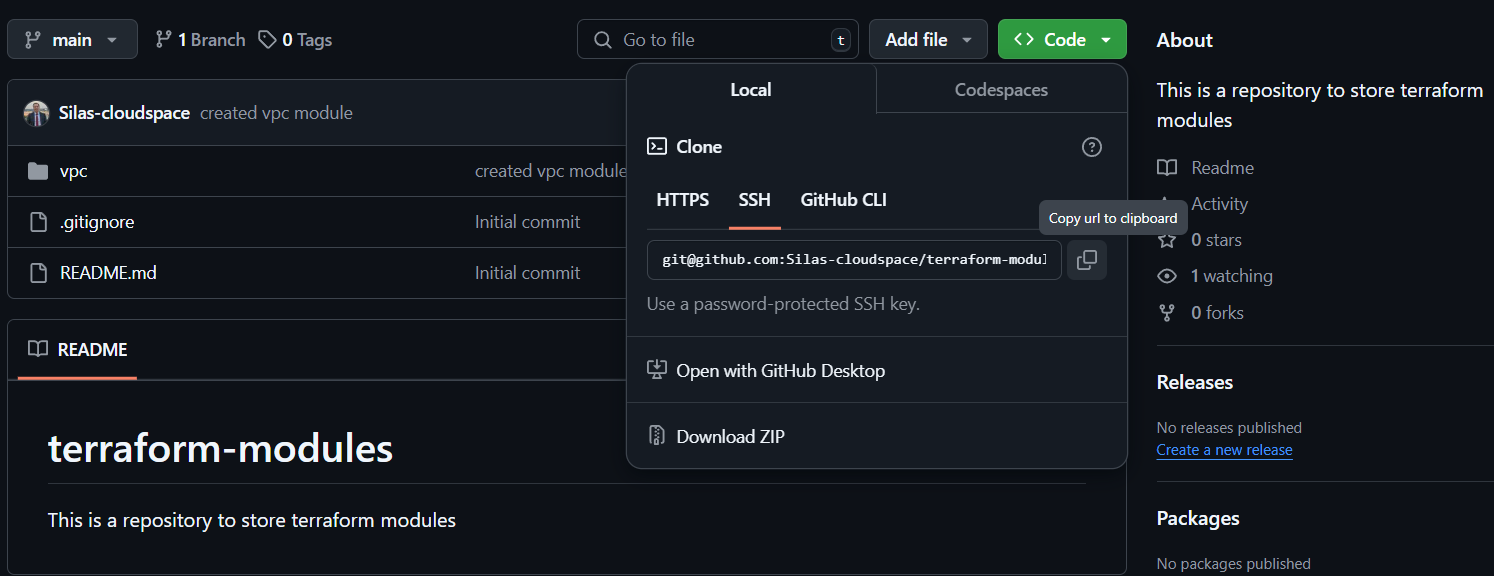
touch main.tf

Copy the terraform file from the shared repository into it.

Replace the source with the SSH URL of your terraform-modules repository in your GitHub account

We add //vpc to the end of the SSH URL because the module is located in the vpc folder

You need to do the same for the following modules that we create



touch terraform.tfvars

Copy the terraform file from the shared repository into it.

create a .gitignore.tf file and add the”terraform.tfvars” into it

Run:

* terraform fmt
* terraform init
* terraform apply

**Create Terraform Module for Nat Gateway**

Navigate to the “terraform-modules” directory

mkdir nat\_gateway

cd nat\_gateway

touch main.tf variables.tf

Copy the terraform files from the shared repository into them.

Run:

* git add .
* git commit -m “created nat gateway module”
* git push

**Create a NAT Gateway for the VPC**

Navigate to the “rentzone-infrastructure-ecs” directory

Go to the main.tf file

Replace the source with the SSH URL of your terraform-modules repository in your GitHub account

Add //nat\_gateway to the end of the SSH URL because the module is located in the GitHub “nat\_gateway” folder we recently created

Run:

* terraform fmt
* terraform init
* terraform apply