Lab Exercise 11– Creating a Objective:

Objective:

Learn how to use Terraform to create a basic Virtu

Prerequisites:

- Terraform installed on your machine.
- AWS CLI configured with the necessary creden

Steps:

1. Create a Terraform Directory:

- Create Terraform Configuration Files:
- Create a file named main.tf:

```
resource "aws_vpc" "gfg-vpc" {
cidr _block = "10.0.0.0/16"
resource "aws_subnet" "gfg-subnet" {
vpc_id
= aws_vpc-gfg-vpc. id
cidr_block = "10.0.1.0/24"
tags = {
Name = "gfg-subnet"
resource "aws_internet_gateway" "gfg-gw" {
vpc_id = aws_vpc-gfg-vpc.id
tags = {
Name = "gfg-IG"
resource "aws_route_table" "gfg-rt" {
vpc_id = aws_vpc.gfg-vpd
```

Verify and apply

Terraform init terraform apply

```
(base) → terraform-vpc-lab11 git:(main) × terraform i
Initializing the backend...
Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.68.0"...
- Installing hashicorp/aws v5.68.0...
- Installed hashicorp/aws v5.68.0 (signed by HashiCorp
Terraform has created a lock file .terraform.lock.hcl
selections it made above. Include this file in your ve
so that Terraform can guarantee to make the same selec
you run "terraform init" in the future.
Terraform has been successfully initialized!
You may now begin working with Terraform. Try running
any changes that are required for your infrastructure.
should now work.
If you ever set or change modules or backend configura
rerun this command to reinitialize your working direct
```

commands will detect it and remind you to do so if nec

(base) → terraform-vpc-lab11 git:(main) ×

3. Verify Resources in AWS Console

- Log in to the AWS Management Console and naviga
- Verify that the VPC and subnets with the specified created.

