Lab 1. Introduction to Terraform

Background:

This is our first look at Terraform. You should already have the following:

1. An Amazon AWS EC2 instance running Ubuntu Linux Version 18.04

2. Terraform pre-loaded and installed on your instance.

3. A keypair file and a pre-loaded putty ssh session available to allow you to connect to the instance. Note that you will have to change the name of the instance to one provided to you by the instructor.

Tasks:

1. Make a directory called ‘labs’ underneath the home directory.

2. Change into the directory.

3. Make a directory called lab1

4. Change into the lab1 directory.

5. Create the following file *ec2.tf*.

Here is the source code:

```
provider "aws" {
    access_key = "AKIAIZAHH7GJN6ASXVVA"
    secret_key = "YFV3j/blEhzzP7HlhNXWk+RmPrbehBdA47VdBvi7"
    region = "us-east-1"
}


resource "aws_instance" "example" {
    ami = "ami-0ac019f4fcb7cb7e6"
    instance_type = "t2.micro"
    region = "${var.region}"
    key_name = “terraform-course-keypair”
}
```

6. Run the following command:

```
> terraform init
```

Note that the '>' refers to the bash shell prompt and is not part of the command.

This command initializes the terraform directory structure.

7. Run the following command:

```
> terraform plan
```

This should print out what actions terraform will take.

8. Run the following command:

```
> terraform apply
```

Assuming that this works correctly, AWS will create

9.. Run the following:

```
> terraform destroy
```

This will now destroy the formerly created AWS vpc, and all subnets.