A close up of a logo

Description automatically generated

**Lesson 10 Demo 4**

**Validating Terraform Configuration File**

**Objective:** To validate a Terraform configuration file

**Prerequisites:** You need to have Terraform installed in your lab environment. If it is not installed, refer to demo 1 of lesson 10 to install Terraform. This demo is incremental. Please ensure you have successfully executed demo 3 of lesson 10 before proceeding with this demo.

**Tools required:** Terraform and a Terraform script (.tf file)

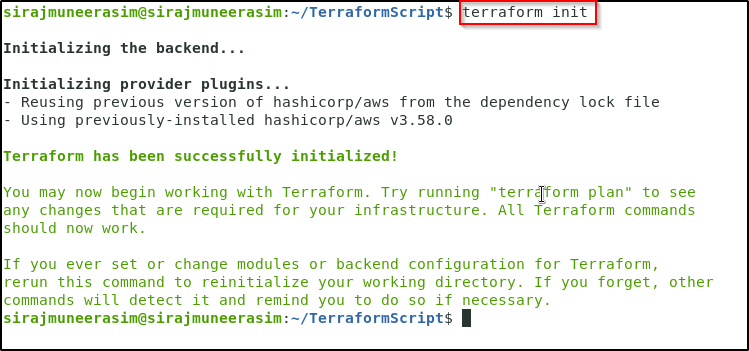
**Steps to be performed:**

1. Validating the Terraform script

**Step 1: Validating the Terraform script**

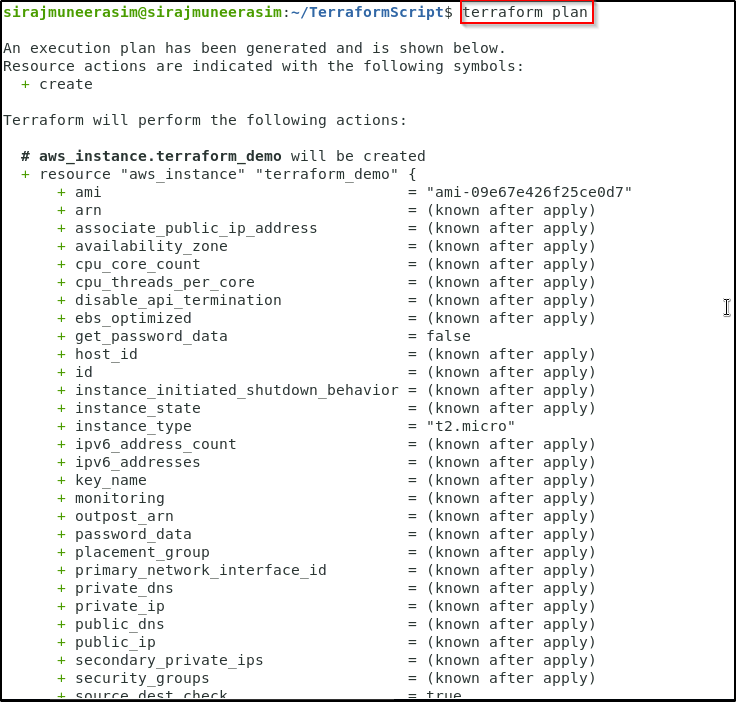
1. Use the following command to initialize Terraform

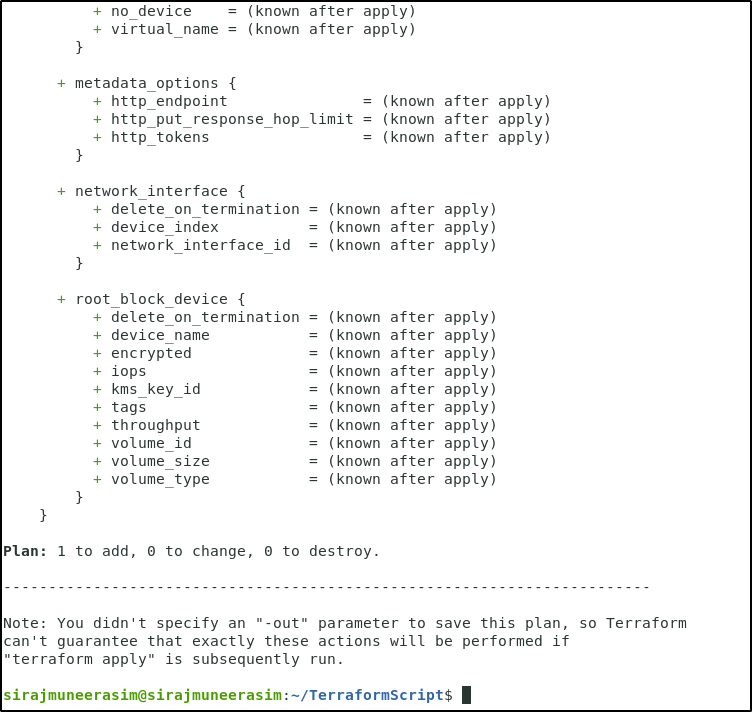
***terraform init***

******

1. Next is the plan stage; it will create the execution graph for creating and provisioning the infrastructure. Run the below command:

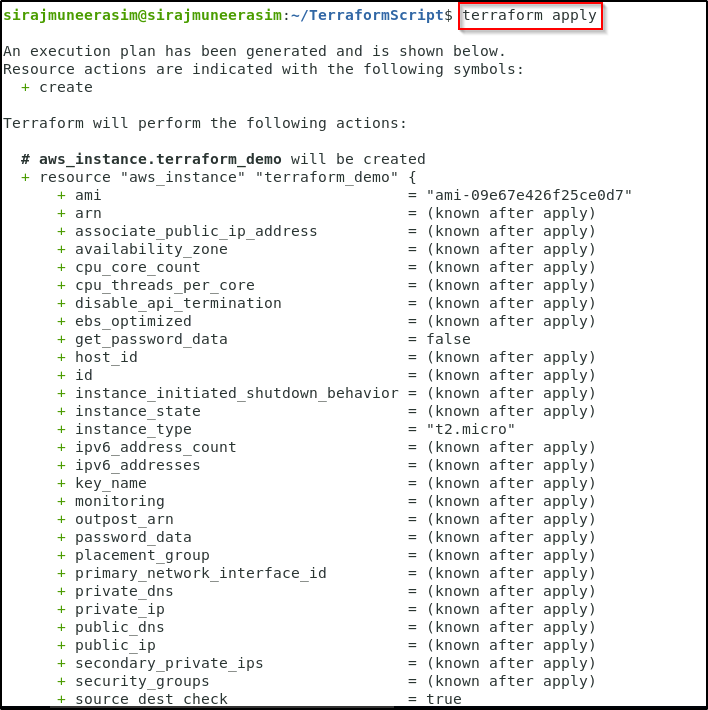
***terraform plan***



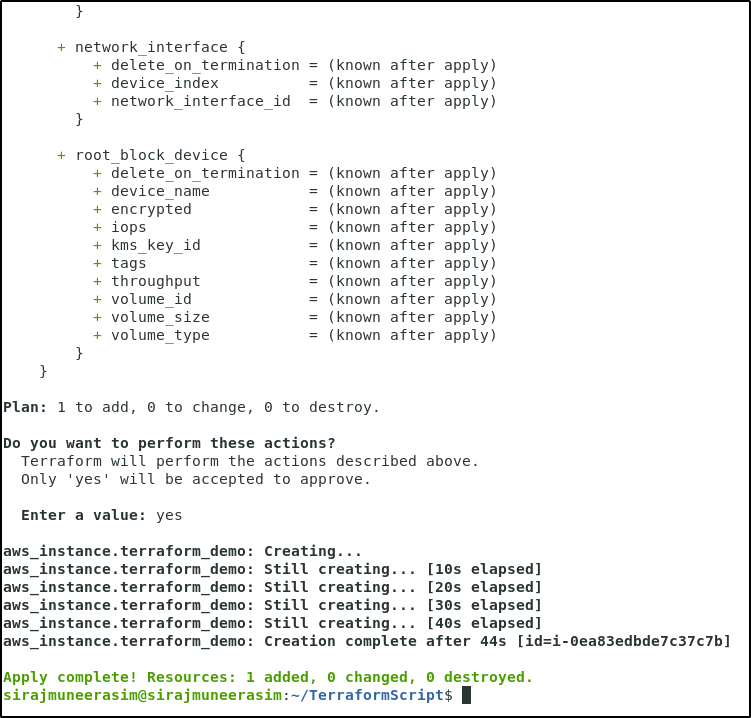


1. The apply stage will execute the configuration file and launch an AWS EC2 instance. Run the below command

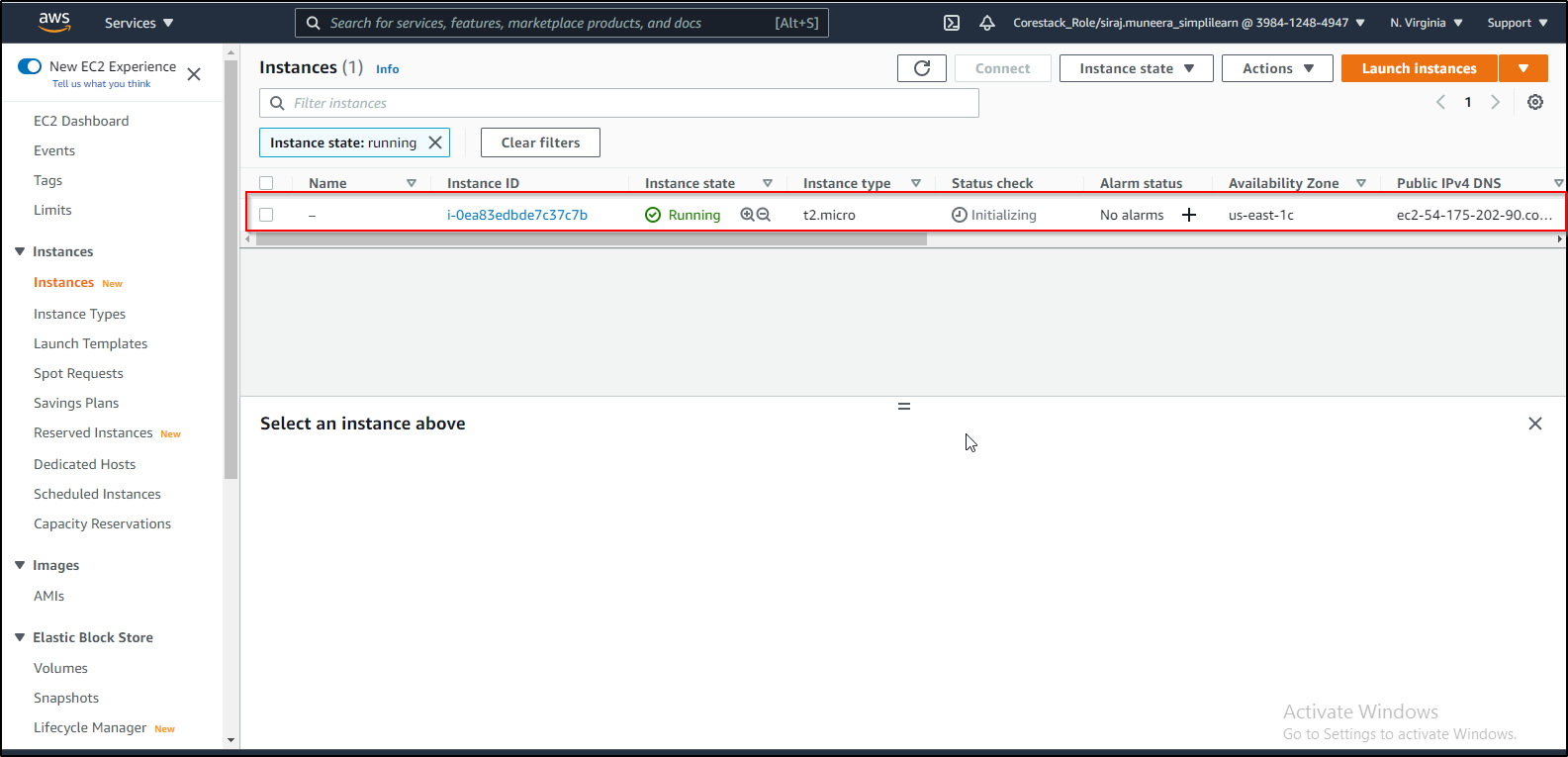
***terraform apply***

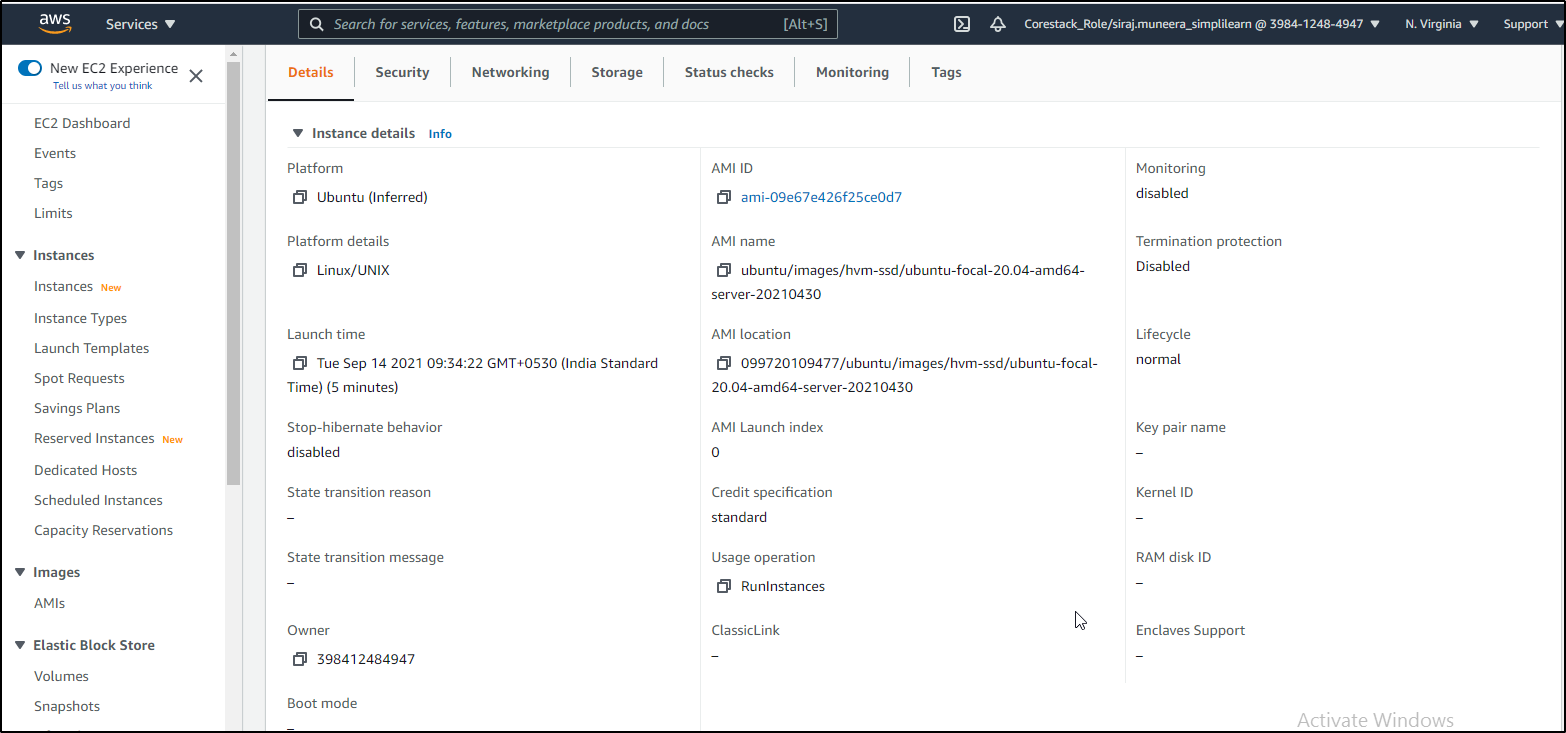
******

1. When you run the apply command, it will ask, “Do you want to perform these actions?”. You need to type **yes** and hit **enter**.

******

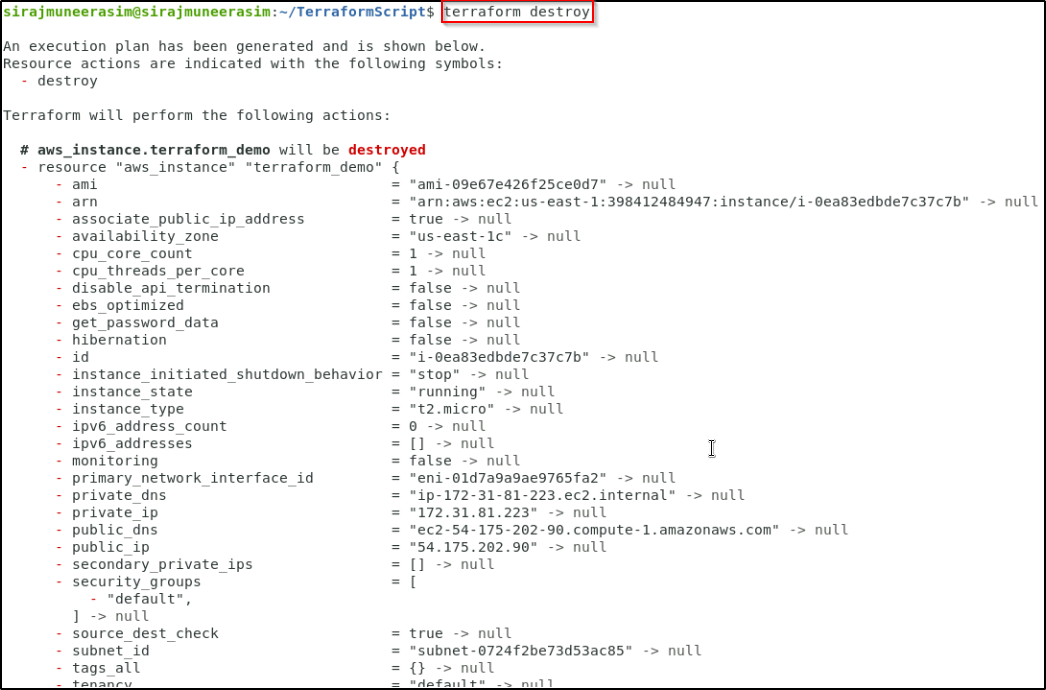
1. Go to your AWS EC2 dashboard, and you will see a new instance with the instance id mentioned at the end of **apply** command that has been created.

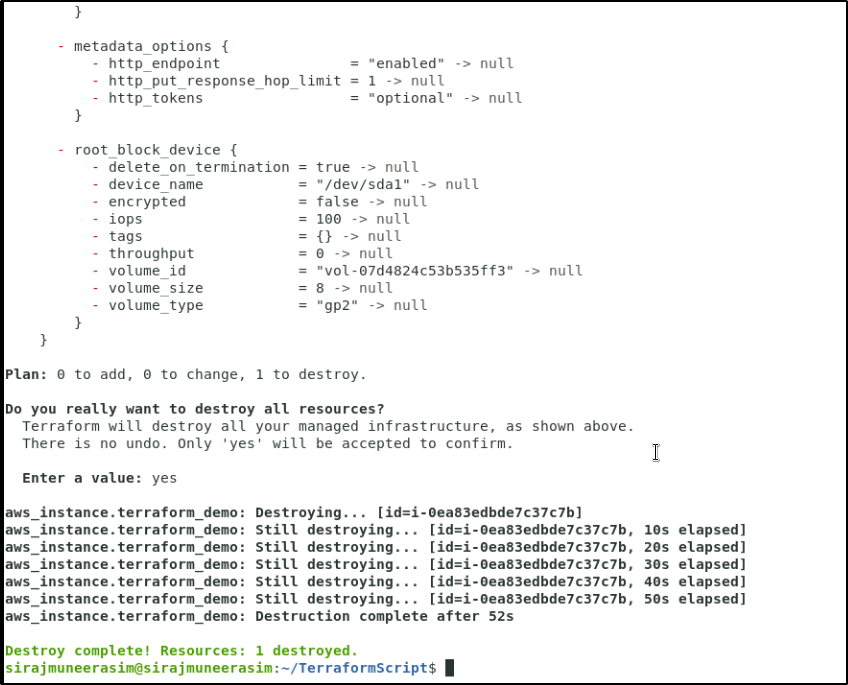


******

1. You have successfully launched an AWS EC2 instance using Terraform.
2. Finally, if you want to delete the infrastructure, you need to run the destroy command.

***terraform destroy***

******

******

1. If you recheck the EC2 dashboard, you will see that the instance got terminated.