**Lesson 11 Demo 4**

**Implementing the Remote-Exec Provisioners**

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| **Objective:** To implement the remote-exec provisioners    **Prerequisites:** You need to have Python 2.7 or higher, minimum 8 GB RAM, and SSH or SCP communicator. EC2 Instance    **Tools required:** Ubuntu terminal and terraform |

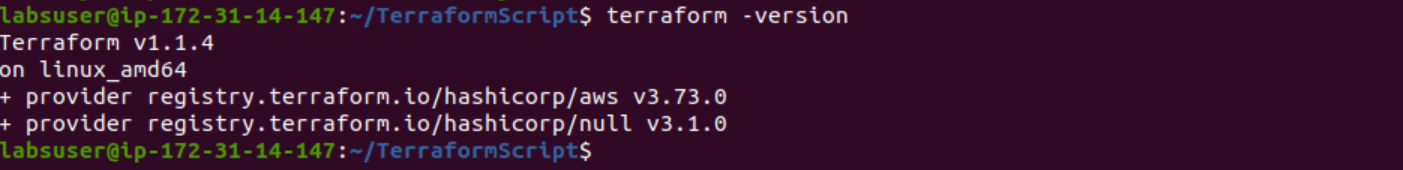
**Steps to be followed:**

1. Verifying the terraform installation
2. Using remote-exec provisioners
3. Initializing and deploying terraform

**Step 1: Verifying the terraform installation**

1. You can verify the terraform installation using the command given below:

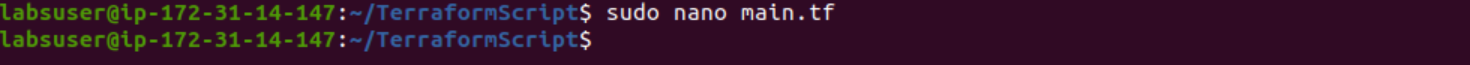
***terraform -version***



**Step 2: Using remote-exec provisioners**

* 1. Use the following command to set up **main.tf**:

***sudo nano main.tf***



* 1. Add the following code in **main.tf**:

***provider "aws" {***

**region     = "us-east-1"**

**access\_key = "aws\_access\_key"**

**secret\_key = "aws\_secret\_key"**

**token = “aws\_token\_here”**

***}***

***resource "aws\_instance" "web" {***

***ami = "*** ***ami-08e4e35cccc6189f4"***

***instance\_type = "t2.micro"***

***key\_name = "AJJ"***

***tags = {***

***Name = "Tuts test"***

***}***

***connection {***

***type = "ssh"***

***host = self.public\_ip***

***user = "ubuntu"***

***private\_key = file("/home/labsuser/AJJ.pem")***

***# Default timeout is 5 minutes***

***timeout = "4m"***

***}***

***provisioner "remote-exec" {***

***inline = [***

***"touch /home/ubuntu/tuts-remote-exec.txt"***

***]***

***}***

***}*** Text

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Note 1: Replace **access\_key, secret\_key,** and **token** with your AWS credentials.

Note 2: Replace **ami**, **instance\_type**, and **key\_name** with your AMI.

**Step 3: Initializing and deploying terraform**

* 1. Initiate the terraform using the below command:

***terraform init***

Text

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* 1. Execute the main file using the below commad:

***terraform apply -lock=false***

Text

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AMI file is successfully created using the remote-exec provisioners.