Creating Main.tf and provider.tf files in the machine having Terraform installed

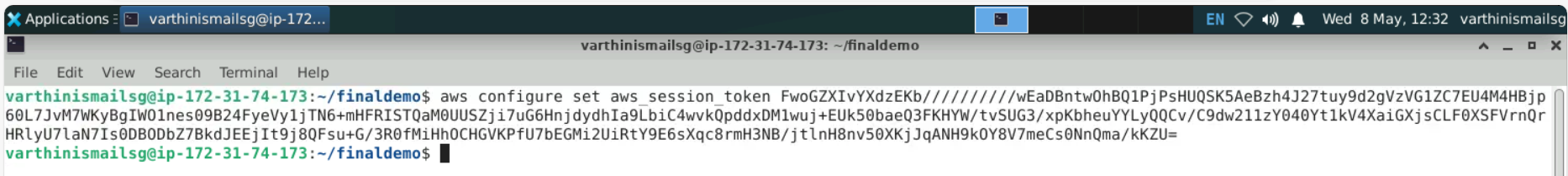


Using the **aws configure** command for authentication in AWS accountA screen shot of a computer

Description automatically generated

Set session token as well using command :

**aws configure set aws\_session\_token**

****

check the terraform code using command :

**terraform init**

**A screenshot of a computer error

Description automatically generated**

**terraform plan**

A screenshot of a computer

Description automatically generated

A screenshot of a computer program

Description automatically generated

A computer code with black text

Description automatically generated

Use command: **terraform apply**

to create an **EC2 instance** named **Jenkins-sr** with a **security group** named **Jenkins-Security Group**

A computer screen shot of a program

Description automatically generated

Enter **yes** to perform the action by terraform

A screenshot of a computer program

Description automatically generated

Login into AWS and see the created instance

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

SSH to the created instance and in the terminal execute **ansible-install.sh** shell file to install ansible in the instance.

A screenshot of a computer

Description automatically generated

check Ansible is installed using the command

**ansible --version**

A screenshot of a computer

Description automatically generated

Create a playbook named **jenkins-playbook.yml**

A screen shot of a computer

Description automatically generated

Execute the playbook using the command

**ansible-playbook -i localhost jenkins-playbook.ymlA screenshot of a computer

Description automatically generated**

A screen shot of a computer

Description automatically generated

To check Java installed use the command:

**java --version**

A computer screen with a black background

Description automatically generated

To check Jenkins is installed use the command :

**sudo systemctl status jenkins**

A computer screen shot of a computer screen

Description automatically generated

A screenshot of a computer

Description automatically generated

To check Jenkins is installed use the command :

**python3 --version**

A black screen with a black background

Description automatically generated

**Conclusion:**

In the above screenshots, I have demonstrated the **infrastructure provisioning** using **Terraform** and **installing software** using **Ansible**. I have provided the code files I used for this demo in the source code section.