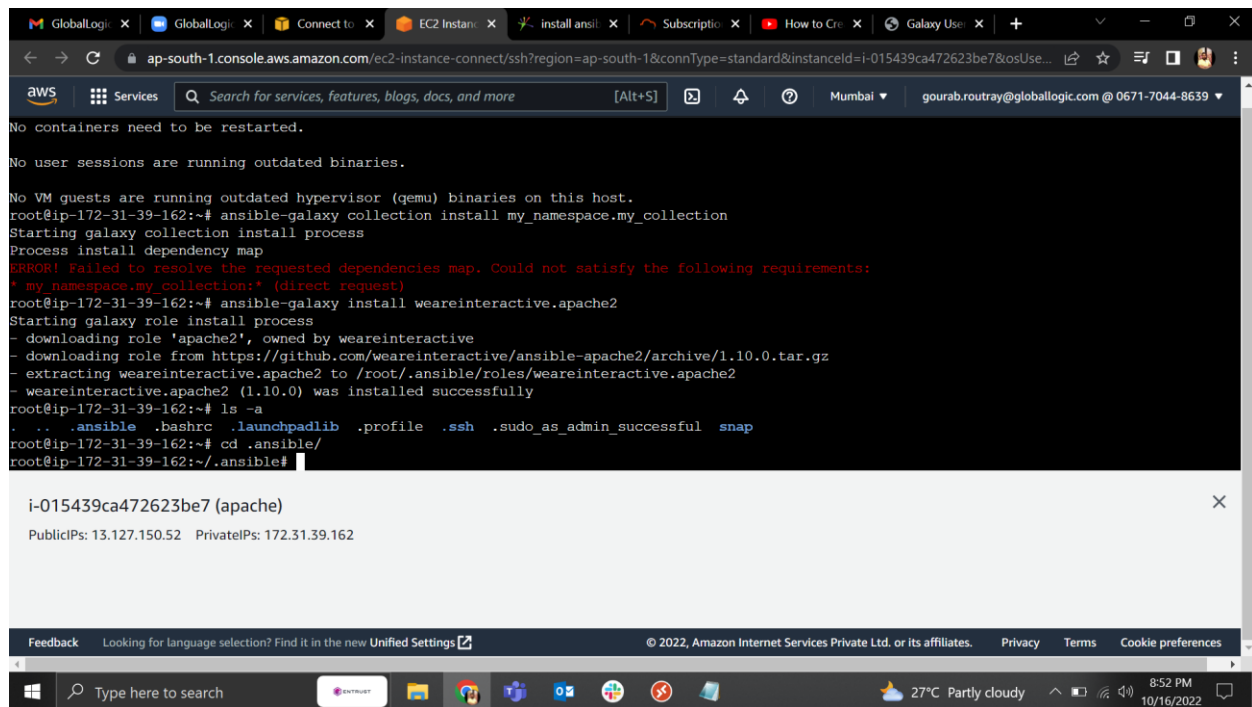


# ASSIGNMENT-3

## 1-Create an EC-2 instance and install ansible on it

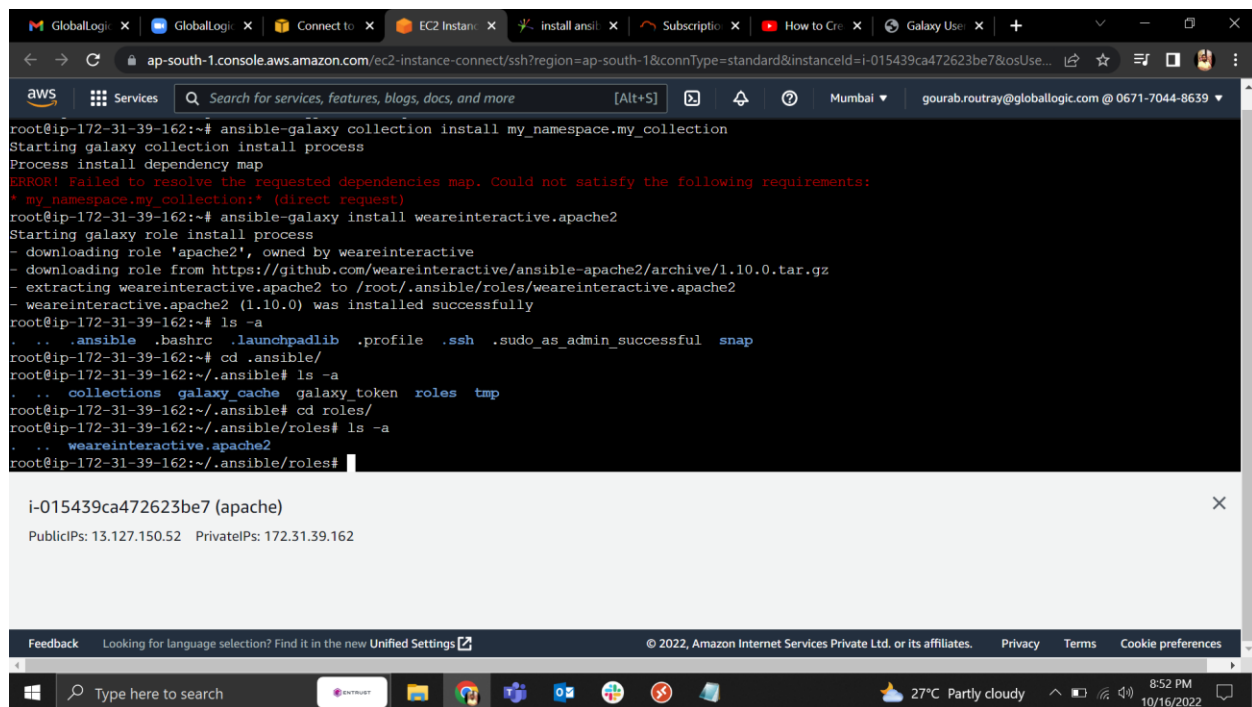


The screenshot shows the AWS Management Console for an EC2 instance named 'i-015439ca472623be7' in the 'ap-south-1' region. The instance is a 't2.micro' type with an 'Ubuntu 20.04 LTS' AMI. The terminal output shows the following commands and results:

```
root@ip-172-31-39-162:~# ansible-galaxy collection install my_namespace.my_collection
Starting galaxy collection install process
Process install dependency map
ERROR! Failed to resolve the requested dependencies map. Could not satisfy the following requirements:
* my_namespace.my_collection:* (direct request)
root@ip-172-31-39-162:~# ansible-galaxy install weareinteractive.apache2
Starting galaxy role install process
- downloading role 'apache2', owned by weareinteractive
- downloading role from https://github.com/weareinteractive/ansible-apache2/archive/1.10.0.tar.gz
- extracting weareinteractive.apache2 to /root/.ansible/roles/weareinteractive.apache2
- weareinteractive.apache2 (1.10.0) was installed successfully
root@ip-172-31-39-162:~# ls -la
. . . .ansible .bashrc .launchpadlib .profile .ssh .sudo_as_admin_successful snap
root@ip-172-31-39-162:~# cd .ansible/
root@ip-172-31-39-162:~/.ansible#
```

The instance details show the public IP as 13.127.150.52 and the private IP as 172.31.39.162.

## 2- Install apache2 ansible role on it



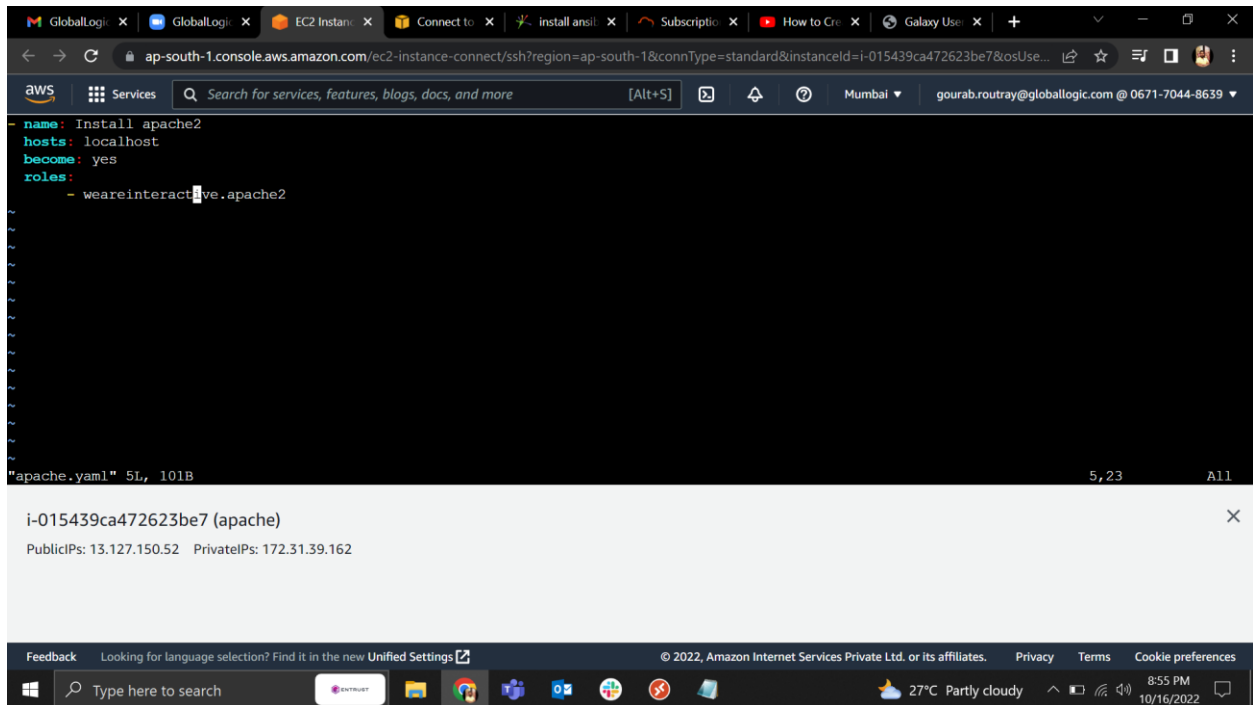
The screenshot shows the AWS Management Console for the same EC2 instance. The terminal output shows the following commands and results:

```
root@ip-172-31-39-162:~# ansible-galaxy collection install my_namespace.my_collection
Starting galaxy collection install process
Process install dependency map
ERROR! Failed to resolve the requested dependencies map. Could not satisfy the following requirements:
* my_namespace.my_collection:* (direct request)
root@ip-172-31-39-162:~# ansible-galaxy install weareinteractive.apache2
Starting galaxy role install process
- downloading role 'apache2', owned by weareinteractive
- downloading role from https://github.com/weareinteractive/ansible-apache2/archive/1.10.0.tar.gz
- extracting weareinteractive.apache2 to /root/.ansible/roles/weareinteractive.apache2
- weareinteractive.apache2 (1.10.0) was installed successfully
root@ip-172-31-39-162:~# ls -la
. . . .ansible .bashrc .launchpadlib .profile .ssh .sudo_as_admin_successful snap
root@ip-172-31-39-162:~# cd .ansible/
root@ip-172-31-39-162:~/.ansible# ls -la
. . . collections galaxy_cache galaxy_token roles tmp
root@ip-172-31-39-162:~/.ansible# cd roles/
root@ip-172-31-39-162:~/.ansible/roles# ls -la
. . . weareinteractive.apache2
root@ip-172-31-39-162:~/.ansible/roles#
```

The instance details show the public IP as 13.127.150.52 and the private IP as 172.31.39.162.

# ASSIGNMENT-3

3- Go the directory `./ansible/roles` and create a playbook “`apache.yaml`”

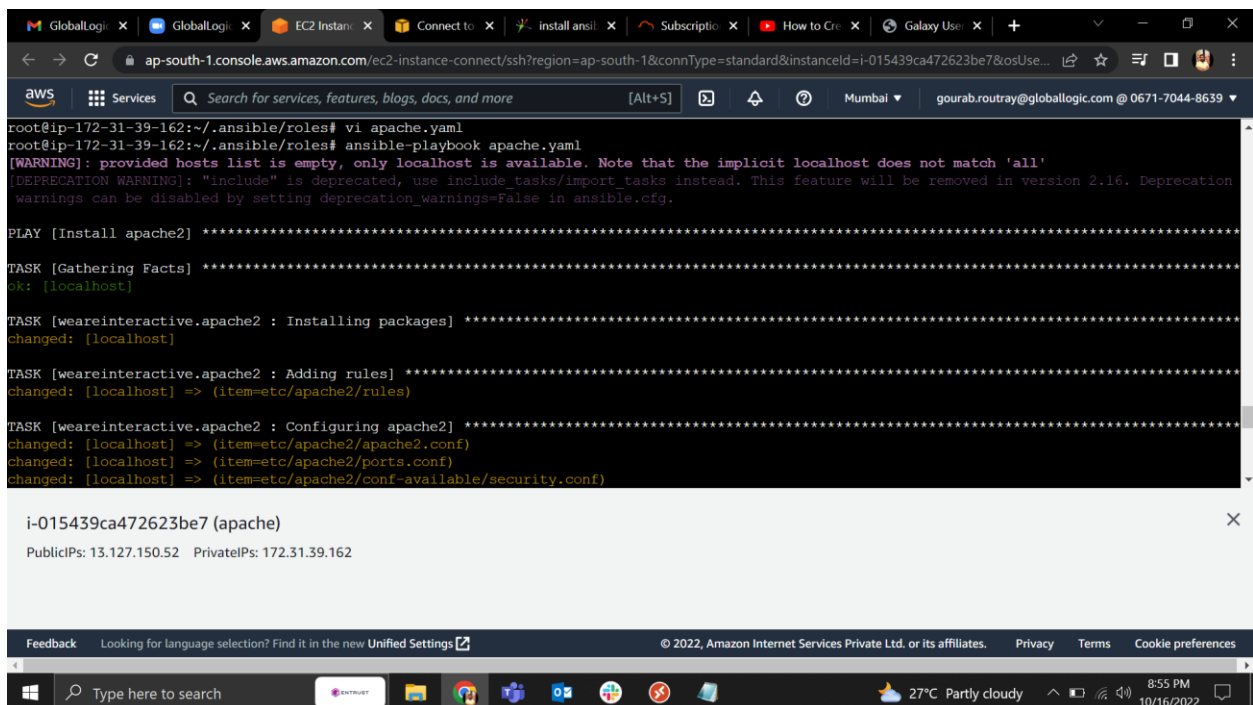


The screenshot shows a terminal window within the AWS Management Console. The terminal is connected to an EC2 instance named 'i-015439ca472623be7' (apache). The user is in the directory `./ansible/roles` and has created a file named `apache.yaml`. The content of the file is as follows:

```
- name: Install apache2
  hosts: localhost
  become: yes
  roles:
    - weareinteractive.ve.apache2
```

The terminal output shows the file was created successfully: `"apache.yaml" 5L, 101B`. The AWS console interface at the top shows the user is logged in as 'gourab.routray@globallogic.com'.

4-Execute the playbook by using command “`ansible-playbook apache.yaml`”



The screenshot shows the same terminal window as before, but now the `ansible-playbook apache.yaml` command has been executed. The output shows the following steps:

```
root@ip-172-31-39-162:~/.ansible/roles# vi apache.yaml
root@ip-172-31-39-162:~/.ansible/roles# ansible-playbook apache.yaml
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'
[DEPRECATION WARNING]: "include" is deprecated, use include_tasks/import_tasks instead. This feature will be removed in version 2.16. Deprecation
warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.

PLAY [Install apache2] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [weareinteractive.apache2 : Installing packages] *****
changed: [localhost]

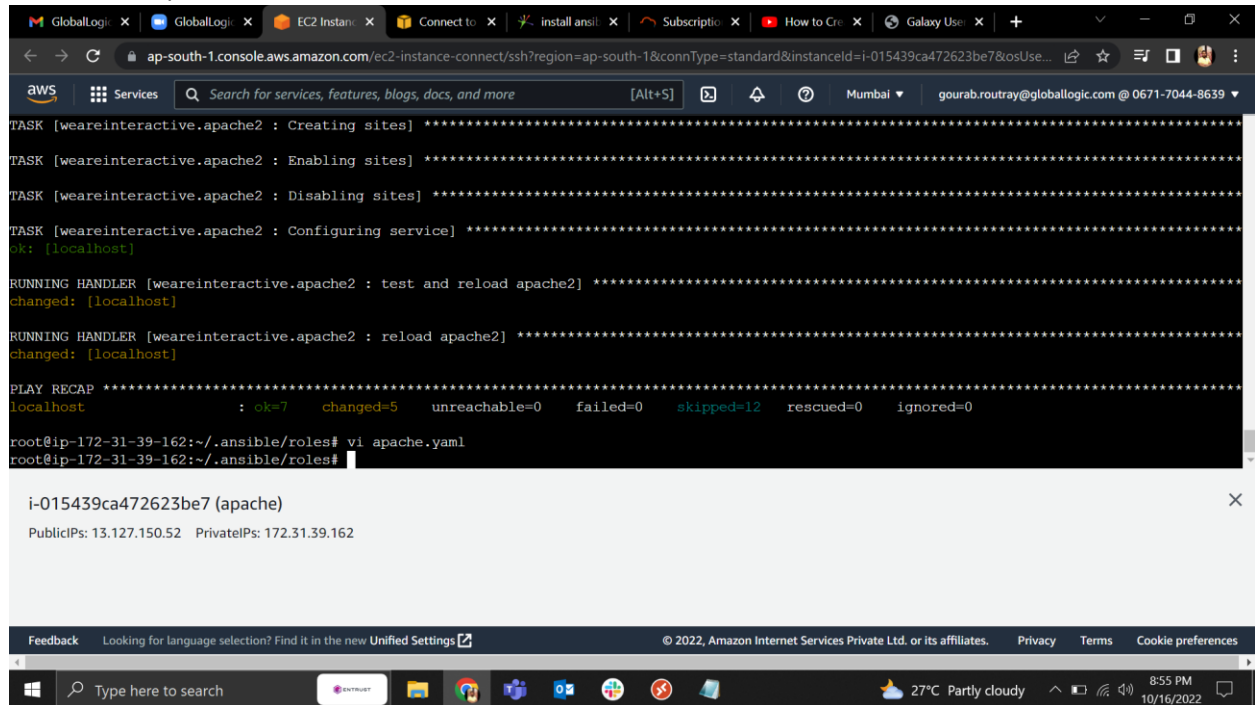
TASK [weareinteractive.apache2 : Adding rules] *****
changed: [localhost] => (item=etc/apache2/rules)

TASK [weareinteractive.apache2 : Configuring apache2] *****
changed: [localhost] => (item=etc/apache2/apache2.conf)
changed: [localhost] => (item=etc/apache2/ports.conf)
changed: [localhost] => (item=etc/apache2/conf-available/security.conf)
```

The terminal output shows the playbook was executed successfully. The AWS console interface at the top shows the user is logged in as 'gourab.routray@globallogic.com'.

# ASSIGNMENT-3

5- It installs apache on the vm "localhost"



The screenshot displays the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and user information for 'gourab.routray@globallogic.com'. The main content area shows the output of an Ansible playbook executed on an EC2 instance. The output is as follows:

```
TASK [weareinteractive.apache2 : Creating sites] *****
TASK [weareinteractive.apache2 : Enabling sites] *****
TASK [weareinteractive.apache2 : Disabling sites] *****
TASK [weareinteractive.apache2 : Configuring service] *****
ok: [localhost]

RUNNING HANDLER [weareinteractive.apache2 : test and reload apache2] *****
changed: [localhost]

RUNNING HANDLER [weareinteractive.apache2 : reload apache2] *****
changed: [localhost]

PLAY RECAP *****
localhost                : ok=7    changed=5    unreachable=0    failed=0    skipped=12    rescued=0    ignored=0

root@ip-172-31-39-162:~/.ansible/roles# vi apache.yaml
root@ip-172-31-39-162:~/.ansible/roles#
```

Below the terminal output, a summary for the 'apache' role is shown:

```
i-015439ca472623be7 (apache)
PublicIPs: 13.127.150.52  PrivateIPs: 172.31.39.162
```

The bottom of the screenshot shows the Windows taskbar with the search bar, application icons, and system tray information indicating a temperature of 27°C and the date 10/16/2022.