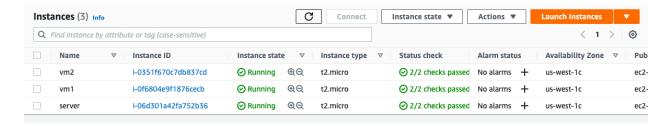
Assignment1-Ansible

Deploying three (3) Virtual Machines

Deployed three VM's with OS as ubuntu using Amazon EC2 instances in Aws portal and naming one the server and the other 2 machines as vm1 and vm2 and generating keypair in order to access the other vm's from the server



Installing Ansible on the server

- (i) cd .ssh
- (ii) sudo apt-get update && apt-get upgrade
- (iii) sudo apt install ansible
- (iv) ansible -version

```
📵 🔵 🜅 272 — ubuntu@ip-172-31-20-20: ~/.ssh — ssh -i keypair.pe...
Running kernel seems to be up-to-date.
Restarting services...
Service restarts being deferred:
 /etc/needrestart/restart.d/dbus.service
 systemctl restart networkd-dispatcher.service
 systemctl restart systemd-logind.service
 systemctl restart unattended-upgrades.service
 systemctl restart user@1000.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
   ntu@ip-172-31-20-20:~/.ssh$ ansible --version
ansible 2.10.8
  config file = None
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/us
r/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  executable location = /usr/bin/ansible
  python version = 3.10.6 (main, Aug 10 2022, 11:40:04) [GCC 11.3.0]
```

Uploading the keypair.pem file into the server for further connections with the remaining VM's

scp -i desktop/sanjay/272/keypair.pem -r desktop/sanjay/272/keypair.pem ubuntu@ ec2-50-18-5-43.us-west-1.compute.amazonaws.com:/home/ubuntu/.ssh/keypair.pem

Generating a hosts file

It contains the details of the two VM's into which we need to install apache and send the message

Hosts file

```
[apache] vm2 ansible_host=13.57.242.177 ansible_ssh_private_key_file=keypair.pem vm3 ansible_host=3.101.63.112 ansible_ssh_private_key_file=keypair.pem [all:vars] ansible_python_interpreter=/usr/bin/python3
```

Generating an index file to display message

```
Index.html
```

Creating a playbook for deploying the Apache server on the VM's

Install.yml

```
    hosts: apache
become: true
tasks:
```

- name: install apache2

apt: name=apache2 update_cache=yes state=latest

- name: Copy your index file

template:

src: "index.html"

dest: "/var/www/html/index.html"

Running the playbook

ansible-playbook -i hosts install.yml

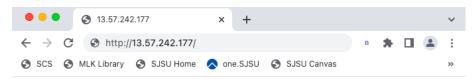
```
272 — ubuntu@ip-172-31-20-20: ~/.ssh — ssh -i keypair.pem ubuntu@ec2-52-53-124-239.us-west-1.compute.amazonaws.co...

**Description of the continue connecting (yes/no/[fingerprint])? ok: [vm2]

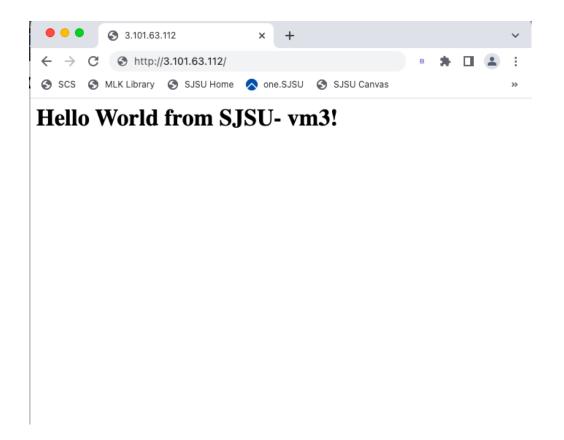
**PLAY [copy your index file]

**Copy your index fil
```

Output from VM2



Hello World from SJSU- vm2!



Creating a playbook for Un deploying the Apache server on VM's

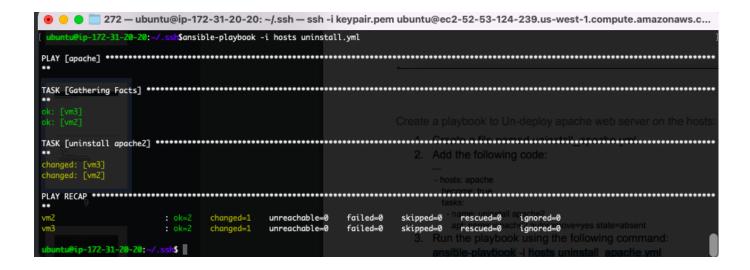
Uninstall.yml

 hosts: apache become: true

tasks:

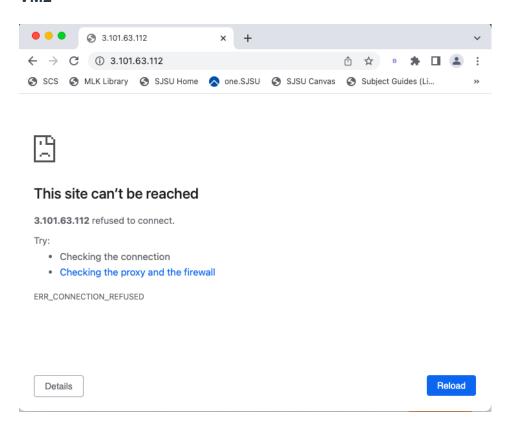
- name: uninstall apache2

apt: name=apache2 autoremove=yes state=absent



VM's after Un deploying Apache server

VM2



VM3

