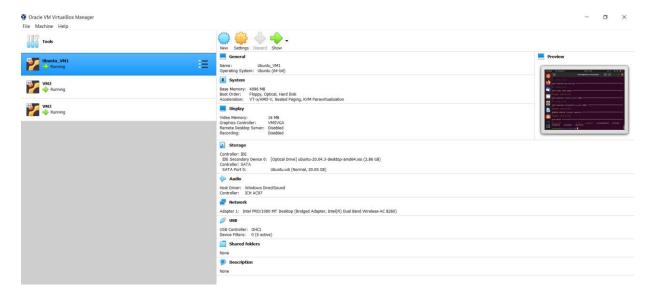
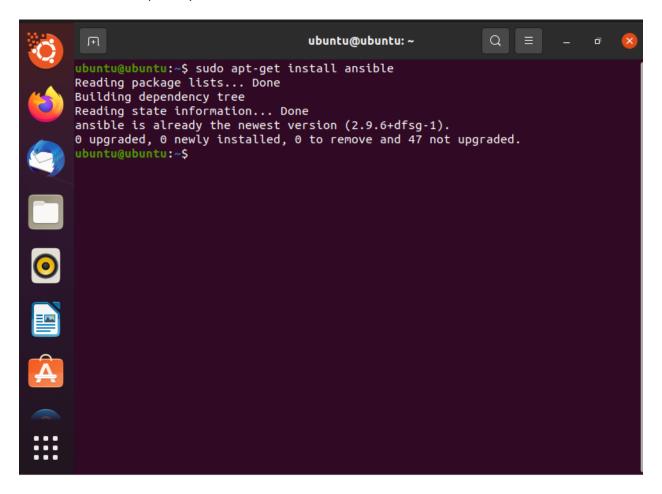
ASSIGNMENT 1: ANSIBLE

GitHub Repo: https://github.com/charucheema/CMPE272 AssignmentOne Ansible

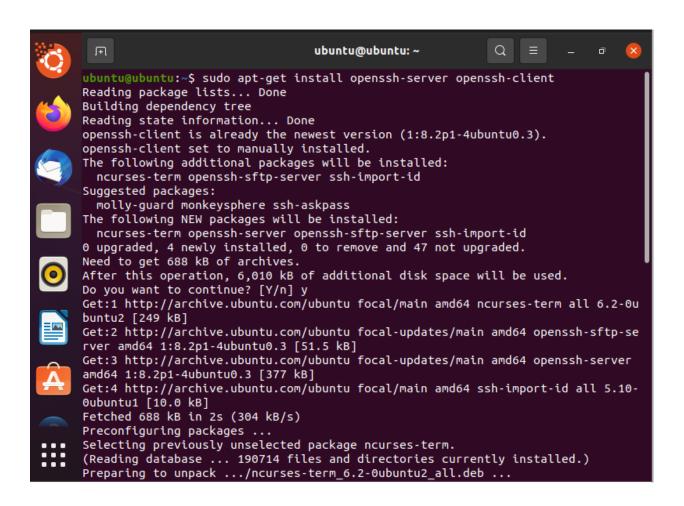
1. Provision 3 VMs: Ubuntu_VM1, will be acting as primary/deployer VM in this exercise and rest two VMs are going to be client VMs on which webservers will be deployed.



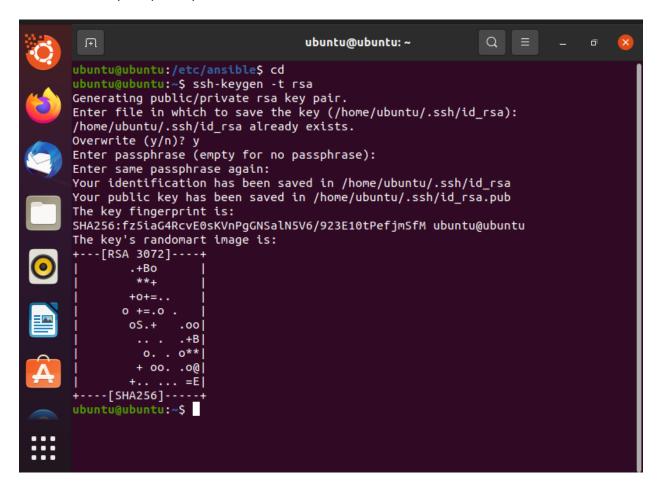
2. Install Ansible on primary VM.



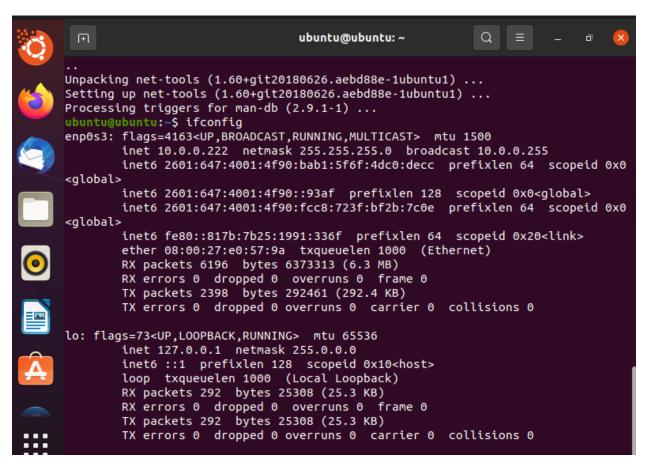
3. Install openssh server and client on all VMs.

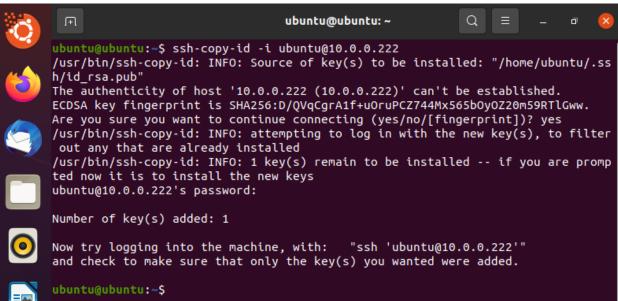


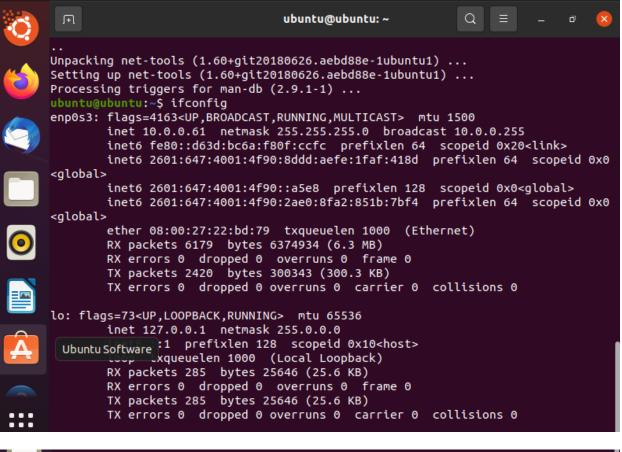
4. Generate keys on primary VM.



5. Determine IPs of client machines (VM2 and VM3) using ifconfig command and copy primary machine's ssh key into client machine's authorized keys.

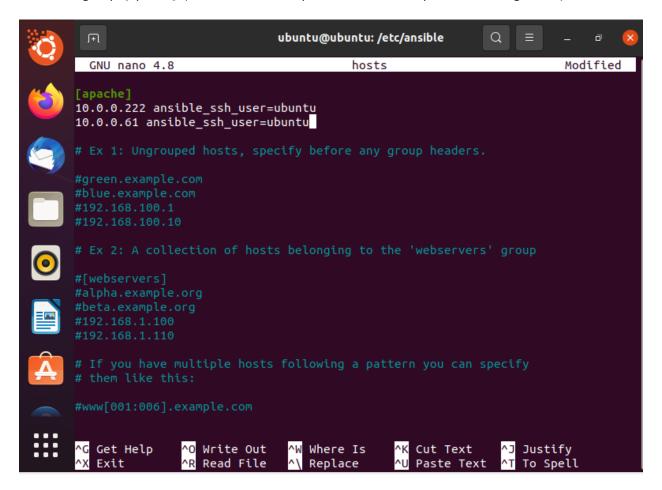








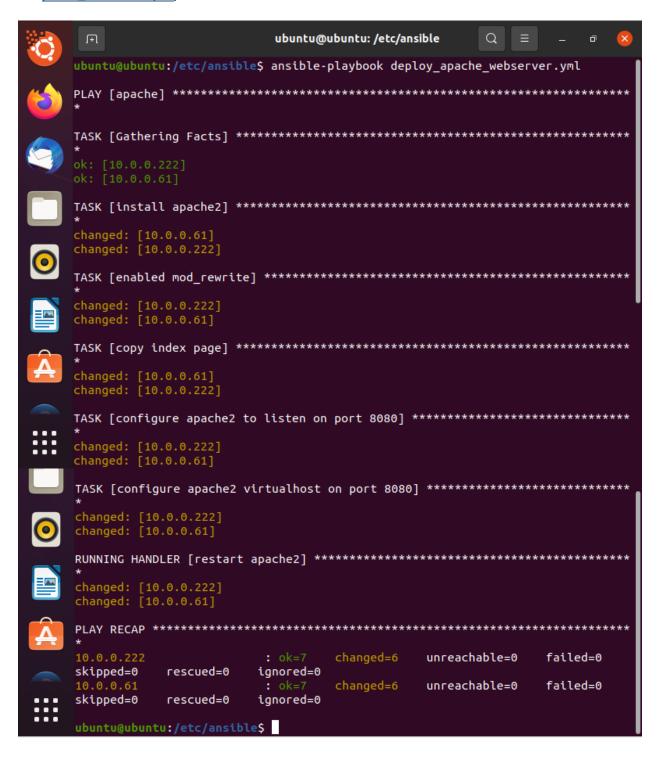
6. Update the hosts file in /etc/ansible directory to specify our client VMs IP address as part of a new group '[apache]' (Since I have used Apache webserver as part of this assignment).



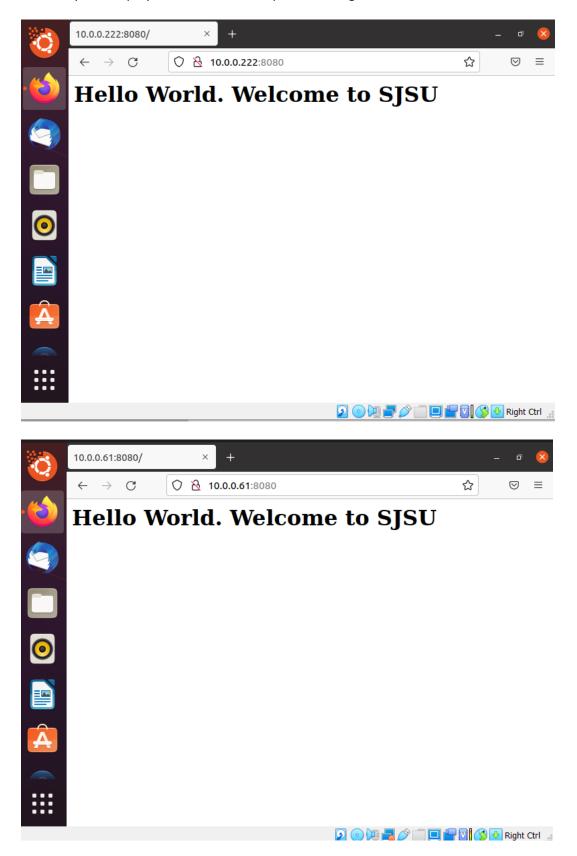
7. Verify that ansible inventory is updated to reflect newly added server group and make sure that all the host in '[apache]' group are pingable.

8. Deploy Apache webserver on both client machines by means of the curated playbook "deploy_apache_webserver.yml"

(https://github.com/charucheema/CMPE272 AssignmentOne Ansible/blob/main/deploy a pache webserver.yml).



9. Verify that deployed webservers are up and running.



10. Un-deploy Apache server from client VMs by means of second curated playbook "undeploy_apache_webser.yml" (https://github.com/charucheema/CMPE272 AssignmentOne Ansible/blob/main/undeploy apache webserver.yml).

```
ubuntu@ubuntu:/etc/ansible$ sudo nano undeploy_apache_webserver.yml
ubuntu@ubuntu:/etc/ansible$ ansible-playbook undeploy_apache_webserver.yml
changed: [10.0.0.222]
changed: [10.0.0.61]
TASK [Remove leftover Apache2 packages] *********************
changed: [10.0.0.222]
changed: [10.0.0.61]
changed=2
                             unreachable=0
                                        failed=0
skipped=0
       rescued=0
               ignored=0
                      changed=2
                             unreachable=0
                                        failed=0
10.0.0.61
skipped=0
               ignored=0
       rescued=0
ubuntu@ubuntu:/etc/ansible$
```

11. Verify that webserver are not responding anymore. (i) Problem loading page C i 10.0.0.61:8080 ☆ \odot Unable to connect Firefox can't establish a connection to the server at 10.0.0.61:8080. • The site could be temporarily unavailable or too busy. Try again in a few moments. • If you are unable to load any pages, check your computer's network connection. • If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access the Web. Try Again 2 O H P P P Right Ctrl (i) Problem loading page C① 10.0.0.222:8080 ☆ Unable to connect Firefox can't establish a connection to the server at 10.0.0.222:8080. • The site could be temporarily unavailable or too busy. Try again in a few moments. • If you are unable to load any pages, check your computer's network connection. • If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access the Web. Try Again

Q O W Right Ctrl ...