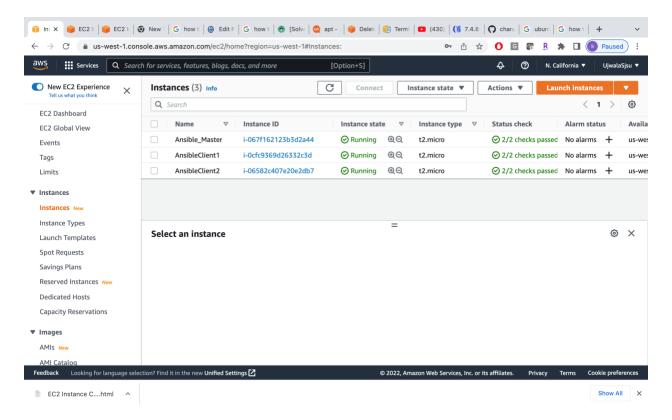
Name: UJWALA MOTE Student Id: 016711396

Github link: https://github.com/moteujjwala19/Ansible-CMPE-272

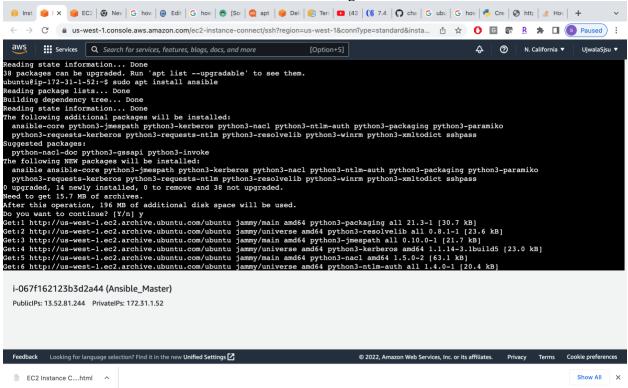
1. Created 3 EC2 instances in AWS named as Ansible_Master which is ansible server and AnsibleClient1 and AnsibleClient2 are hosts as shown below.



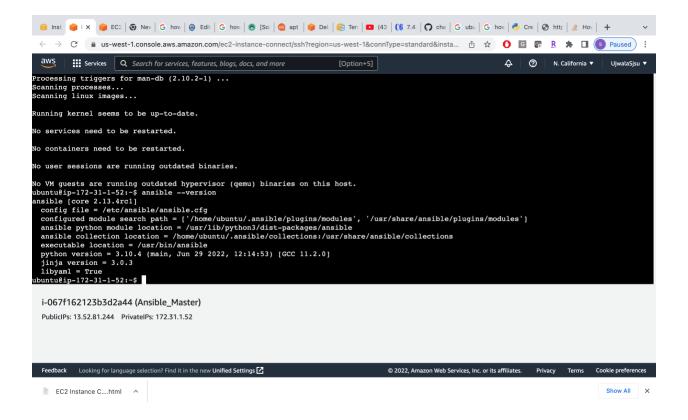
2. Updated all machines created in above step by using update command.



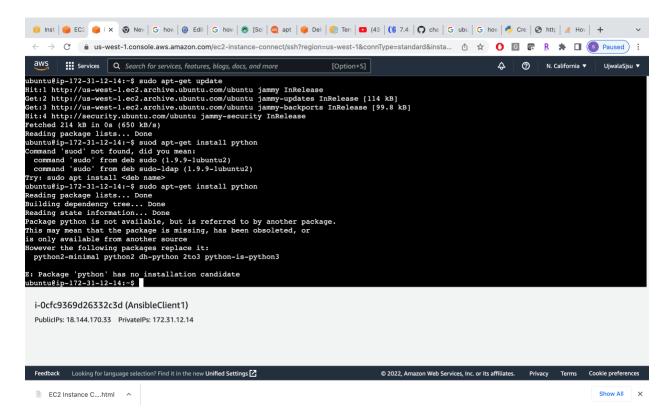
3. install ansible on ansible master machine using ansible install command.



4. Verified if ansible installation is successful using command: ansible --version

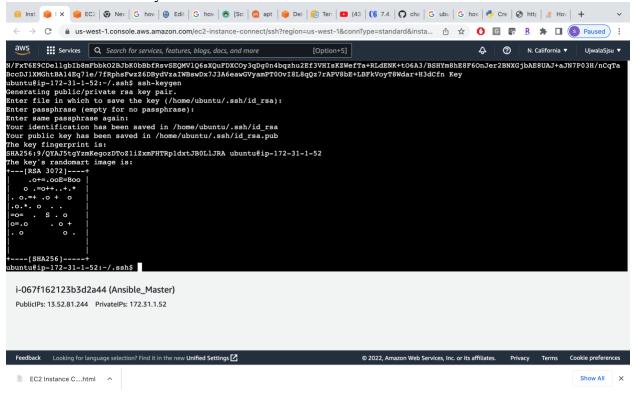


5. Installed python on both client VMs as python will be used for server deployment.

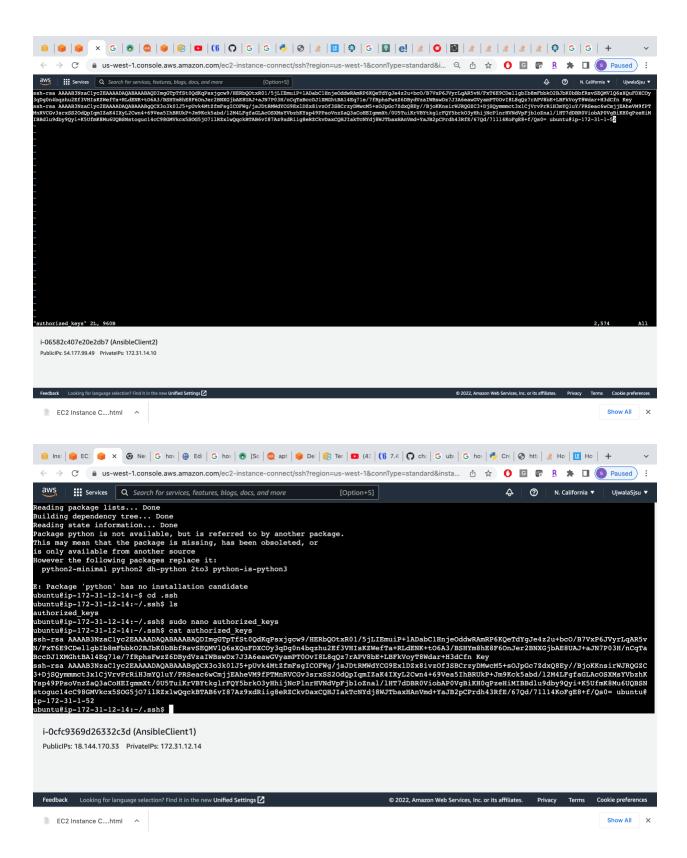


6. Next step is configuring SSH to establish a connection between clients and master VM

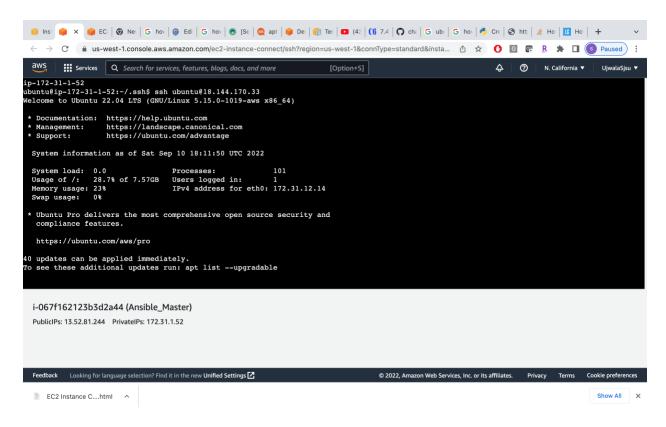
First, we need to generate a key on master as shown below which we will put in both client so that we don't need a key to communicate with clients.



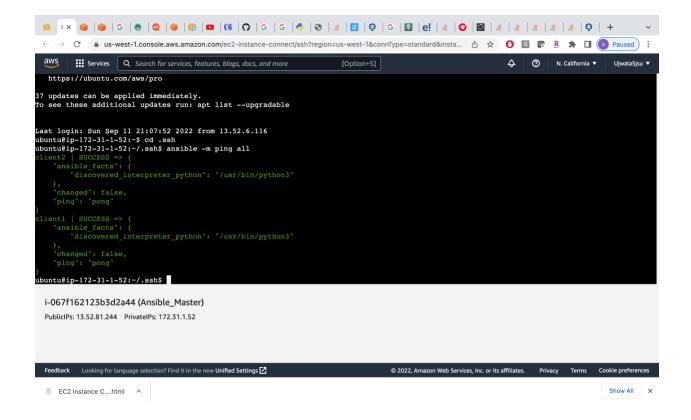
7. Added above-generated key on both client VM in authorized_key file which is located in .ssh folder using vi authorized_key command as shown below. And verified if key is saved using cat command.



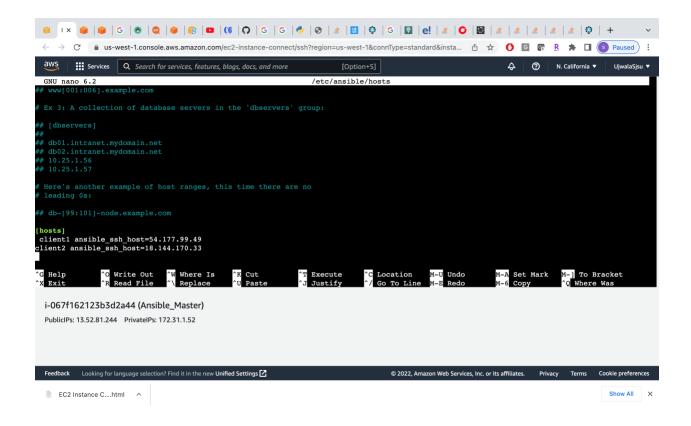
8. Verified if SSH successful as shown below.



9. Also, check the connection by using ping command. Success response from both clients as shown below after running the ping command.

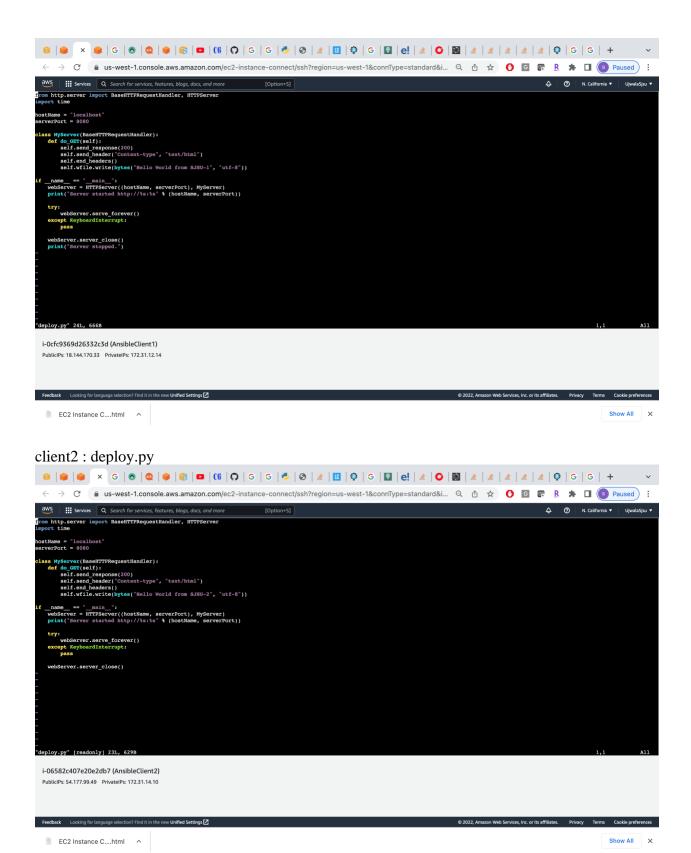


10. To set up an ansible host added host details in server's host file located under /etc/ansible repo.

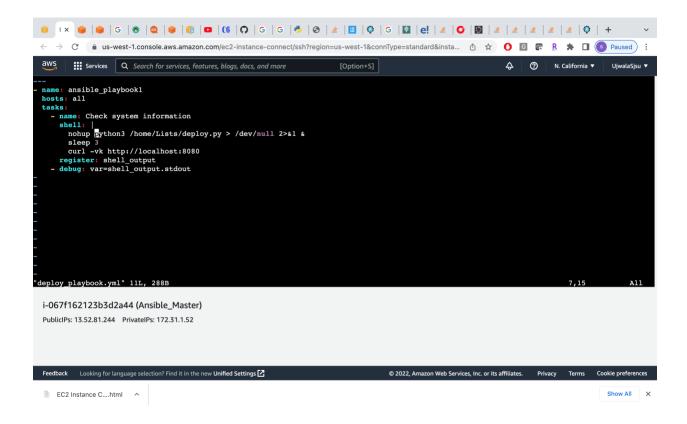


11. created below python file on both webservers to display msg on screen when it gets a request from ansible server via playbook.

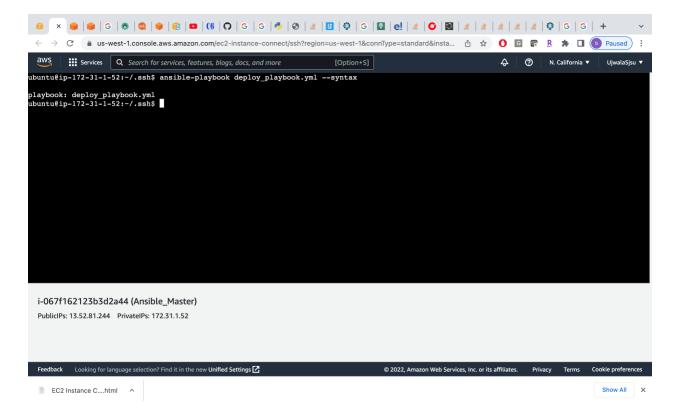
Client1:deploy.py



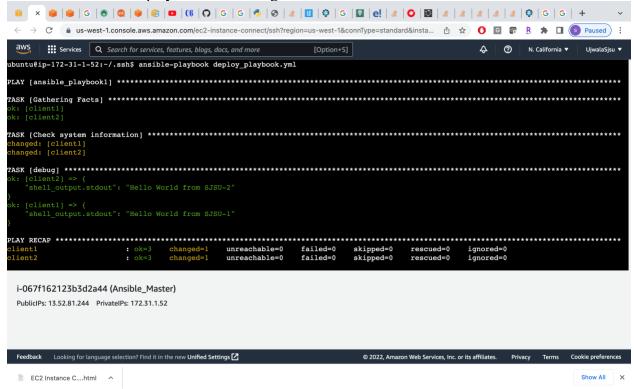
12. Created following deploy_playbook.yml which has a set of commands to run the python file on both the clients. As hosts value is 'all' in yml file it will include all the hosts added in ansible host config file which was done in earlier step.



13. check if syntax is correct by executing below command. If nothing comes on screen but the name that means there are no syntactical issues in file.



14. Next step is to execute deploy_playbook.yml which will deploy webserver on both clients and display the desired msg on screen as shown below.

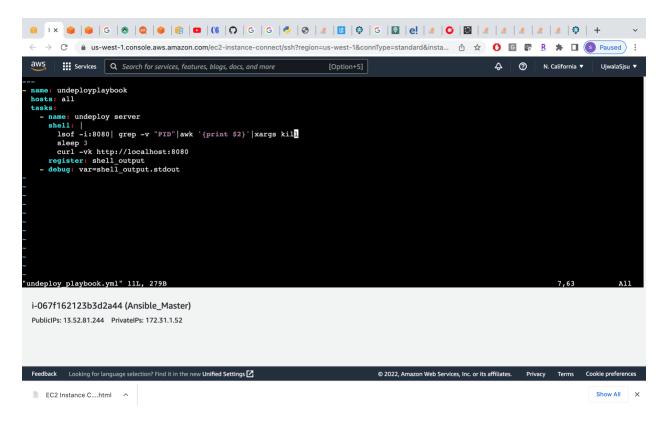


verifying if server is up on individual clients ← → C 🕯 us-west-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-west-1&connType=standard&i... Q 🐧 ☆ 🚺 🔞 🖫 🔲 🕦 Paused : untufip-172-31-12-14:/home/Lists@curl -vk http://localhost:8080 Trying 127.0.0.1:8080... Connected to localhost (127.0.0.1) port 8080 (#0) GET / HTTP1.1 Most: localhost:8080 ark bundle as not supporting multiuse TTP 1.0, assume close after body TTP/1.0 200 GK erver: BaseHTTP/0.6 Python/3.10.4 atte Sun, 11 Sep 2022 21:52:58 GMT ontent-type: text/html Closing connection 0 sllo World from SJSU-lubuntu@ip-172-31-12-14:/home/Lists\$ i-Ocfc9369d26332c3d (AnsibleClient1) PublicIPs: 18.144.170.33 PrivateIPs: 172.31.12.14 Feedback Looking for language selection? Find it in the new Unified Settings [2] © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences EC2 Instance C....html Show All X ← → C 🕯 us-west-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-west-1&connType=standard&i... Q 🐧 ☆ 🚺 🛭 🥷 🖟 🔲 🔕 Paused) : unitudep-172-31-14-10; Search for services, features, blogs, docs, and more
Trying 127-0.0.1:8080.
Connected to localhost (127.0.0.1) port 8080 (#0)
GRT / HTPT/1.1
Host: localhost:8080
JBer-Agent's curl/7.81.0
Accept: */* Mark bundle as not supporting multiuse ITTP 1.0, assume close after body ITTP/1.0 200 OK lerver: BaseHTTP/0.6 Python/3.10.4 hate; Sun. 11 Sep 2022 21:58:18 GMT Content-type: text/html Closing connection 0
llo World from SJSU-2ubuntu@ip-172-31-14-10:/home/Lists\$ i-06582c407e20e2db7 (AnsibleClient2) PublicIPs: 54.177.99.49 PrivateIPs: 172.31.14.10 Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

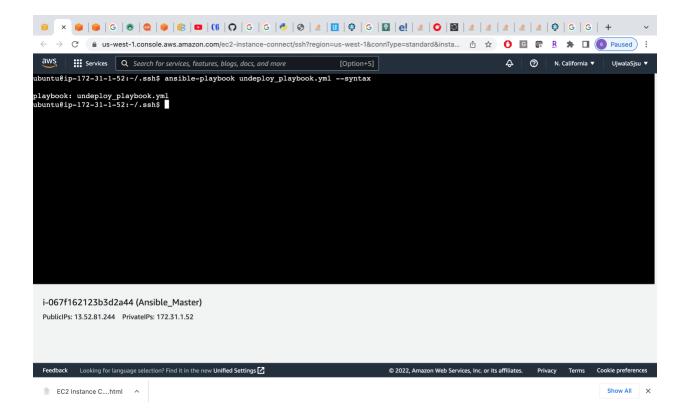
EC2 Instance C....html

Show All X

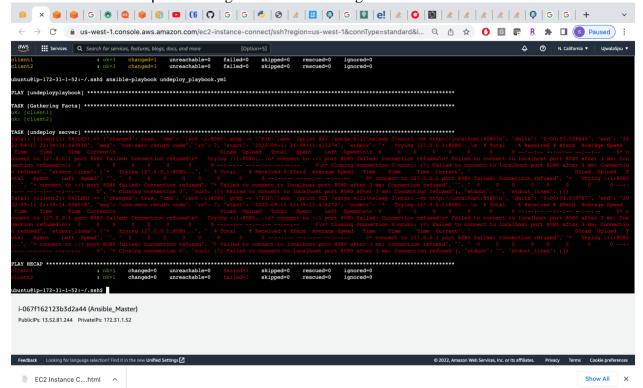
15. created undeploy_playbook.yml with commands to undeploy server as shown below



check syntax of undeploy_playbook.yml file using ansible syntax command



16. Once we run undeploy_playbook.yml it will kill the webserver and when we try to reach server with http GET using curl command we get an error as shown below.



screenshots from client machines showing connection refused after undeployment playbook execution

