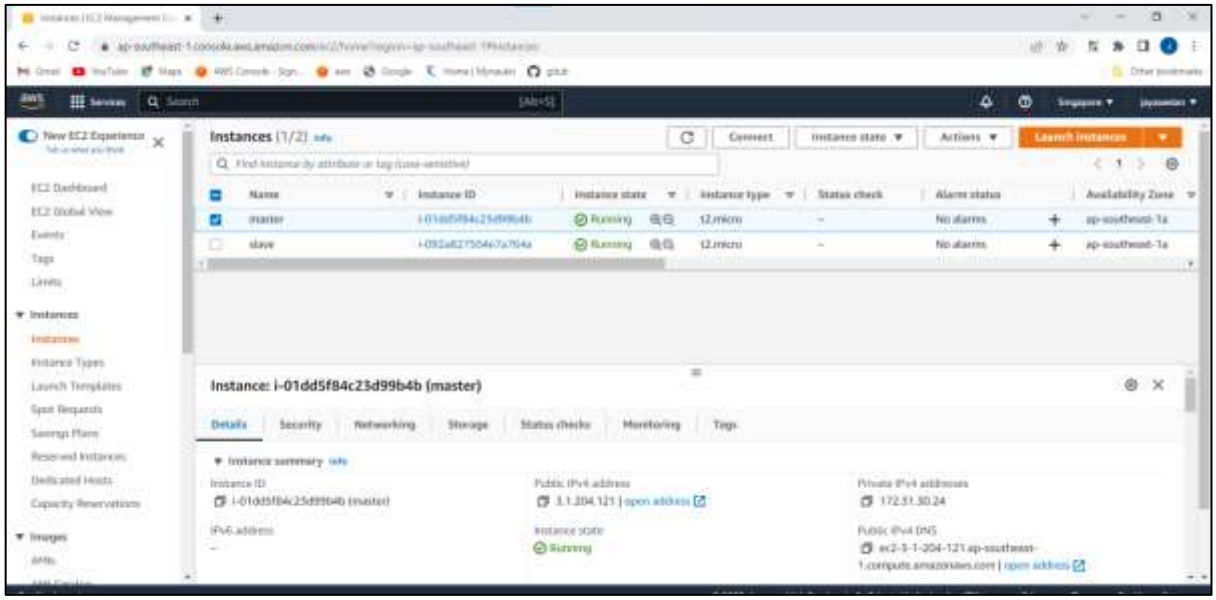
ANSIBLE PLAYBOOK

Execute multiple tasks at the same time in the slave servers using .yml scripts

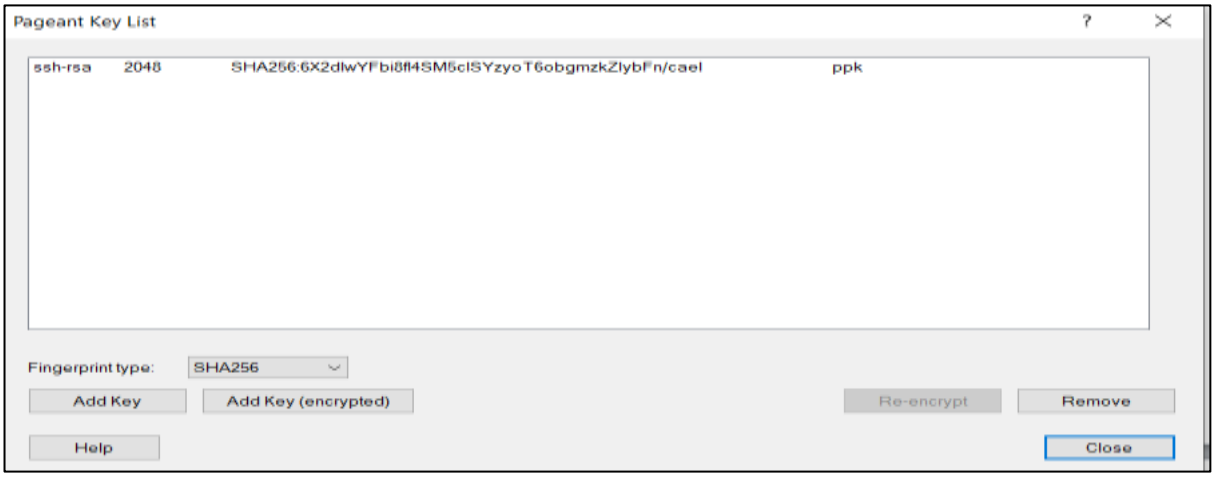
Steps To Create Playbook

Step1: Launch Two Ec2 Linux Server At A Time

1.name(master),2.name(slave)--->key (ppk)--->security (all tcp)--->launch instance

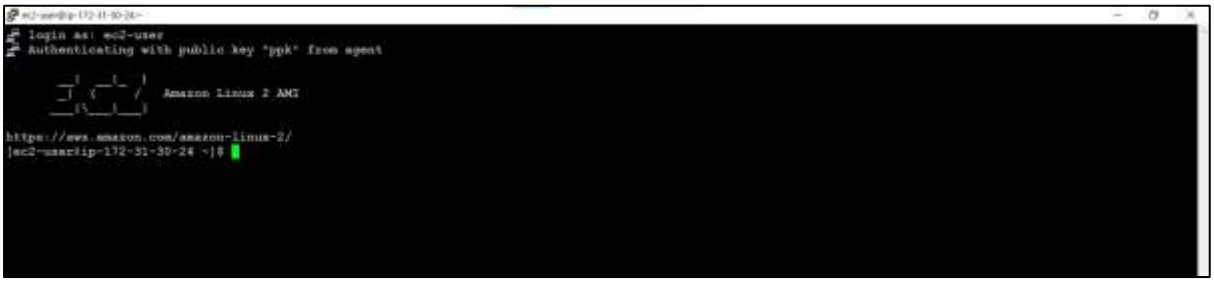


Step2:Key Add To Pagent



Step3:Login Master Server

Putty --->host(public ip) ---->auth(click allow agent forwarding) --->open



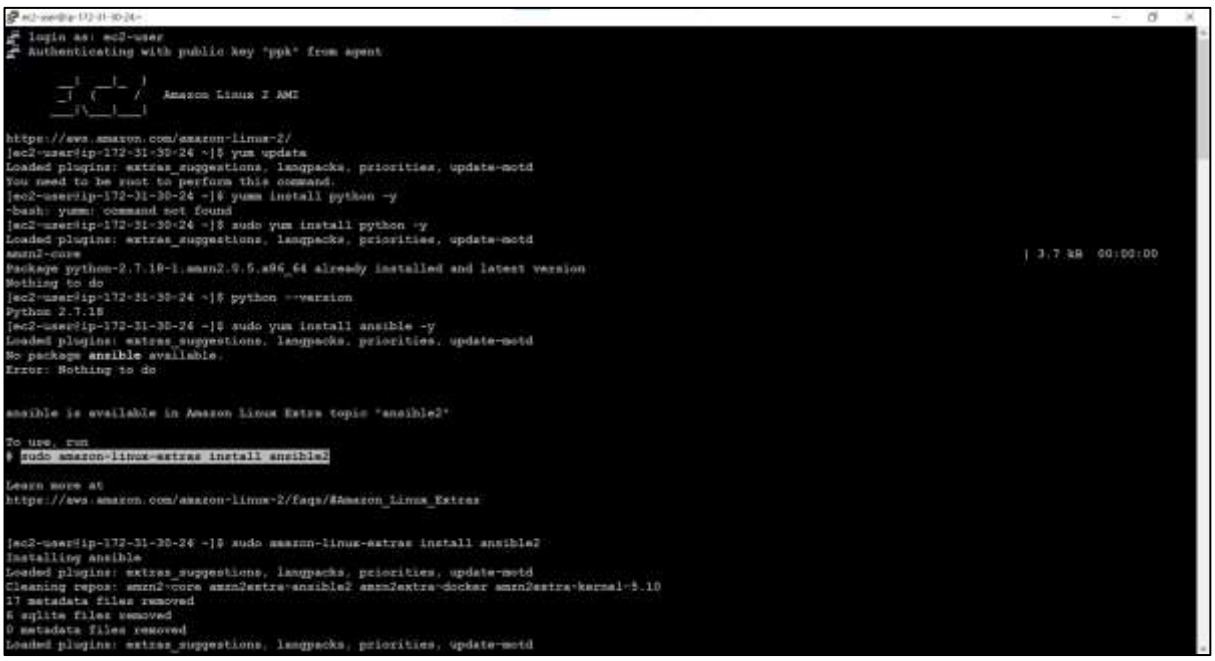
Step4:Install Python And Ansible Use Yum

#sudo yum install python –y --->it shown already install so version check

#python --version

#sudo yum install ansible –y --->can't install ansible it will shown alternate command to use install ansible

sudo amazon-linux-extras install ansible2



Ansible - -version --->check version

Now we get host inventory file and configuration file

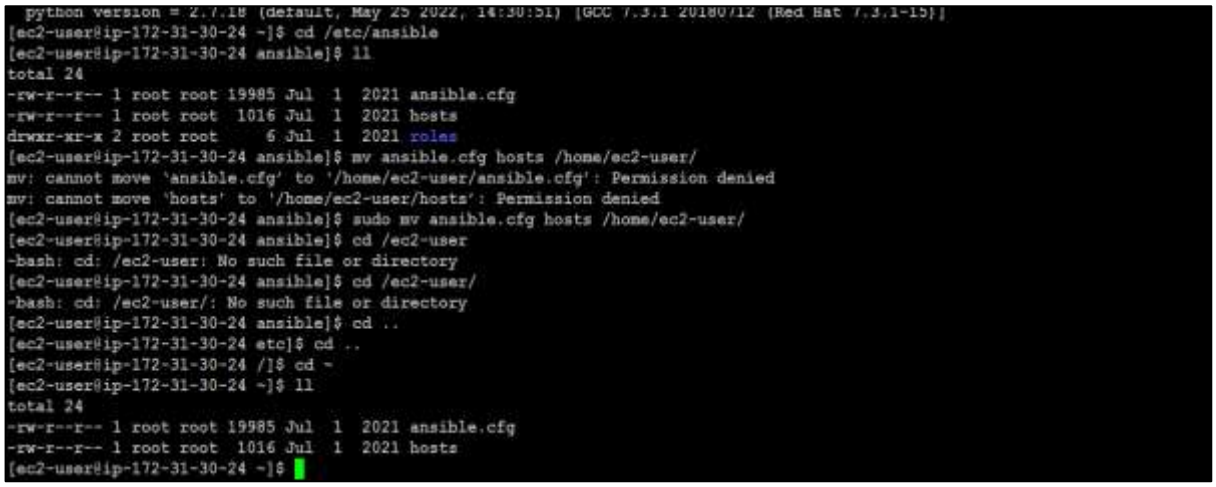
#cd /etc/ansible/

#ll ---->it will shown ansible.cfg and hosts that move to /home/ec2-user/

sudo mv ansible.cfg hosts /home/ec2-user/

#cd .. --->ec2-user

#ll --->shown ansible.cfg and hosts



Step4: Setup Slave With Python

#vi ansible.cfg ---> #host_key_checking = False

Remove # --->save:wq!

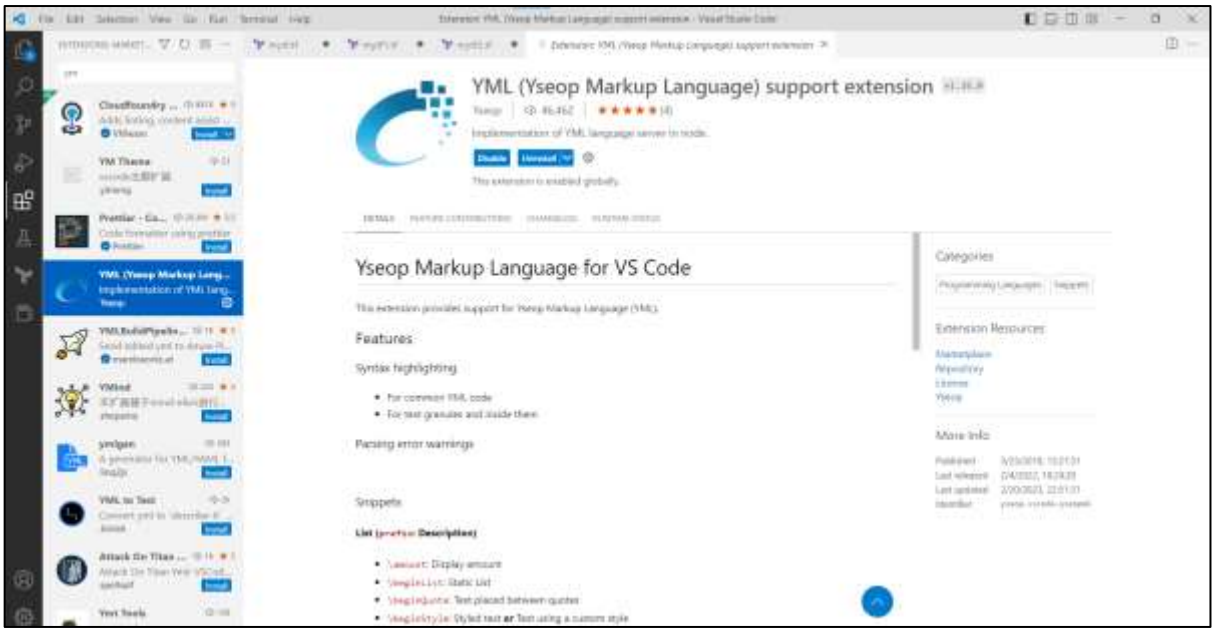
#vi hosts --->all line remove using esc+:+%d

---->add slave server private ip

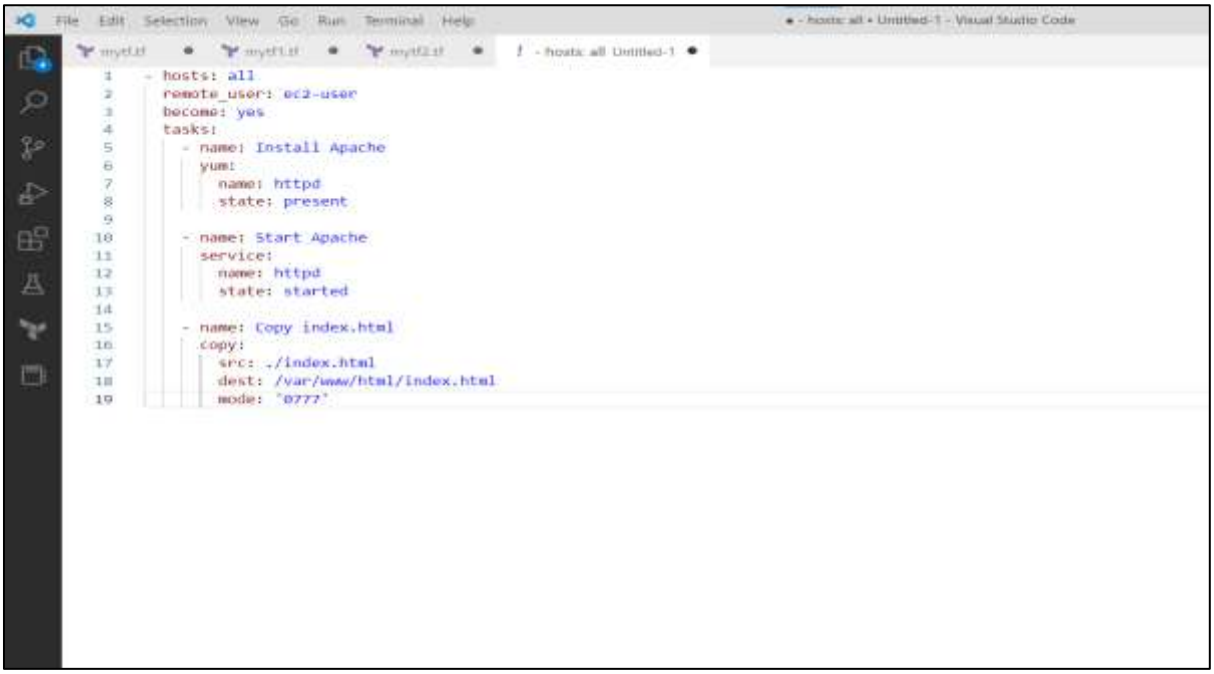
Step5:Create Playbook

1.install apache ,start apache and add index file

Open visual studio code install yml and ansible



File --->new--->select language --->yml-->put codes



Now code copy and put master server

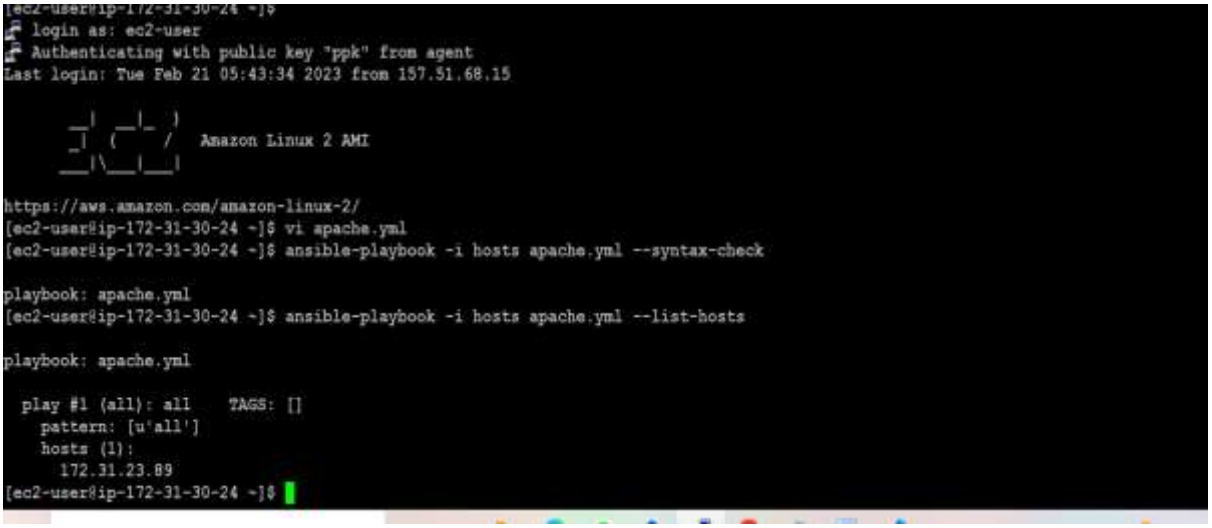
#Vi apache.yml --->put code and save :wq!

Syntax check

#ansible-playbook -i hosts apache.yml --syntax-check

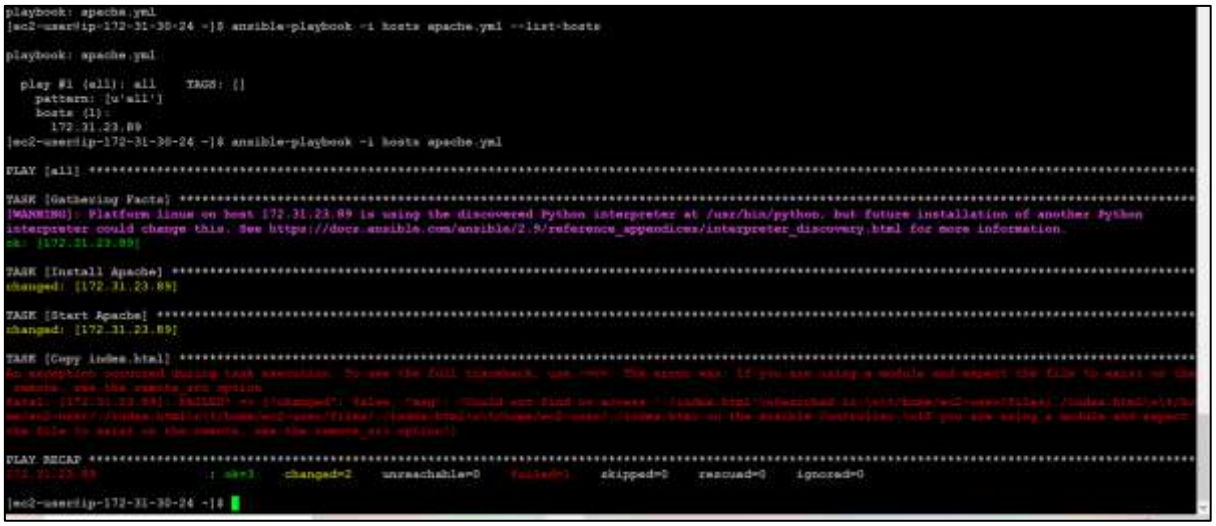
List of hosts check

#ansible-playbook -i hosts apache.yml --list-hosts --->it use for chec how many user in connect master server



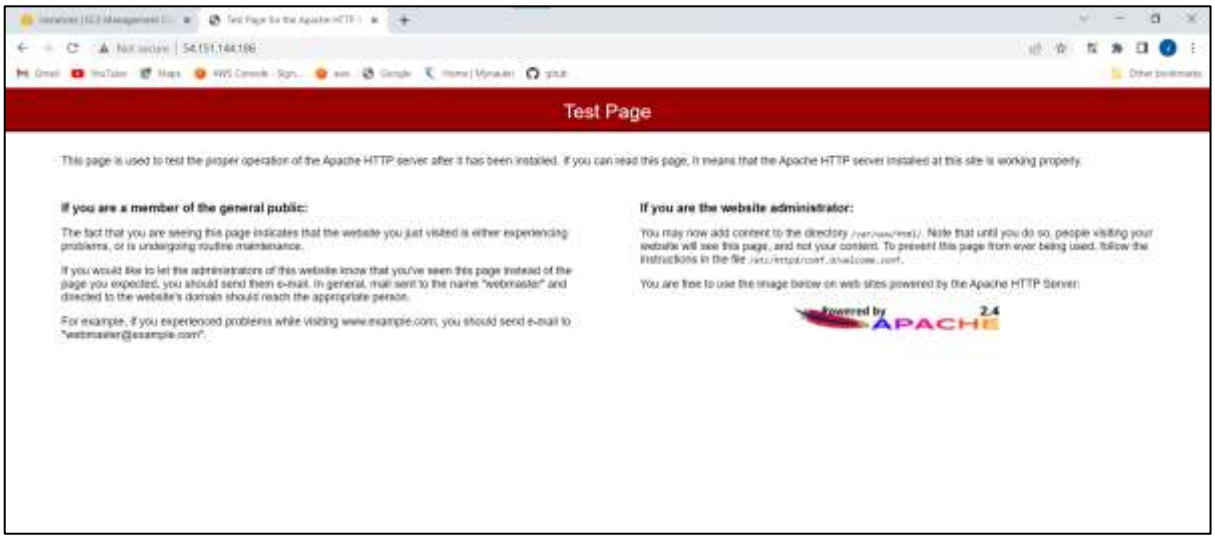
Run playbook

#ansible-playbook -i hosts apache.yml



One error will shown that error is can't create **index file**

Now slave server public ip put chrome apache page open



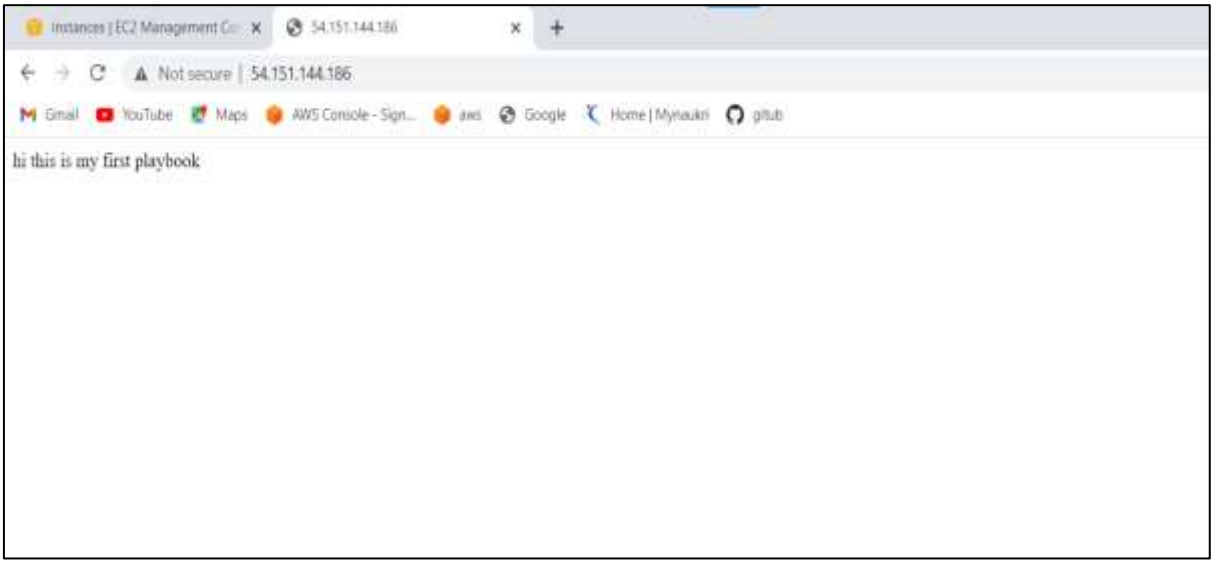
Now create index file

#vi index .html --->hi this is my first playbook --->save:wq!

Again run

#ansible-playbook -i hosts apache.yml

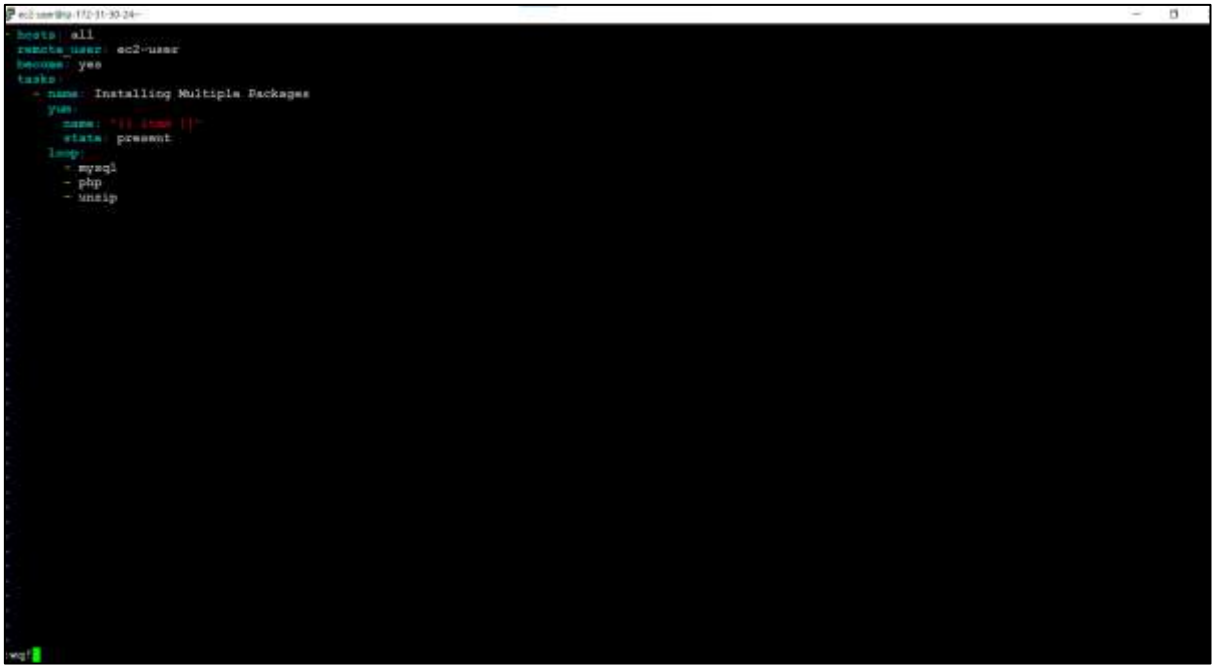
Now public ip put chrome



2. Installing Multiple Packages(mysql and php) at a time

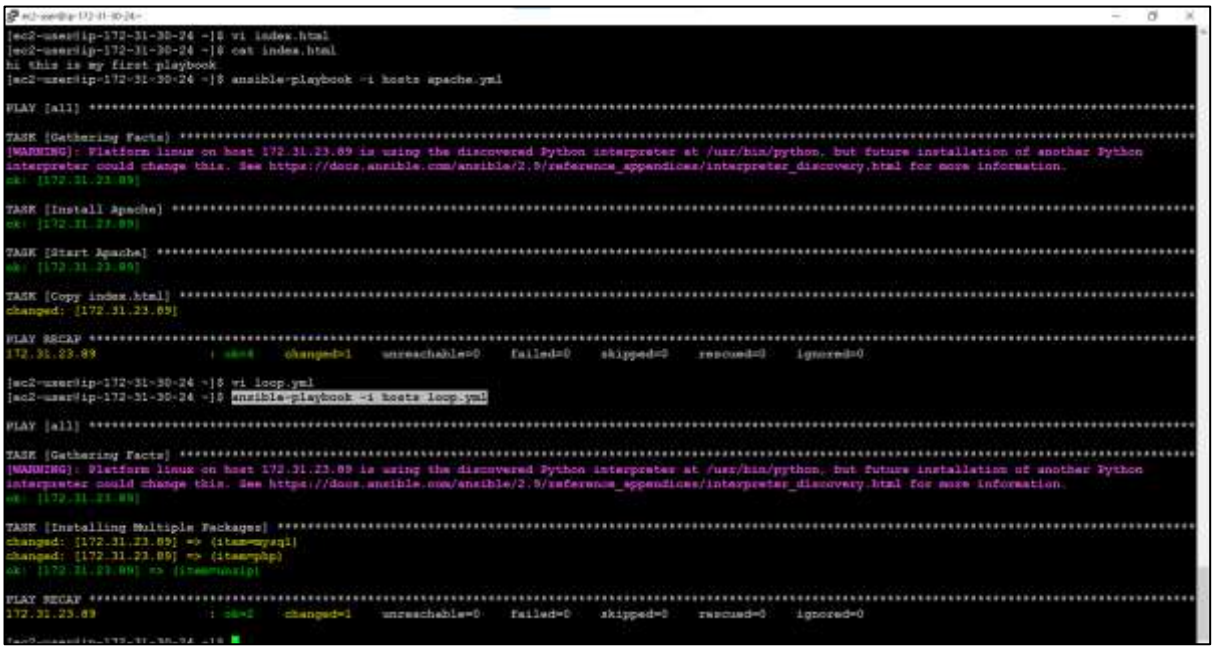
Copy code and put visual studio code

#vi loop.yml --->put code --->save:wq!



Run playbook

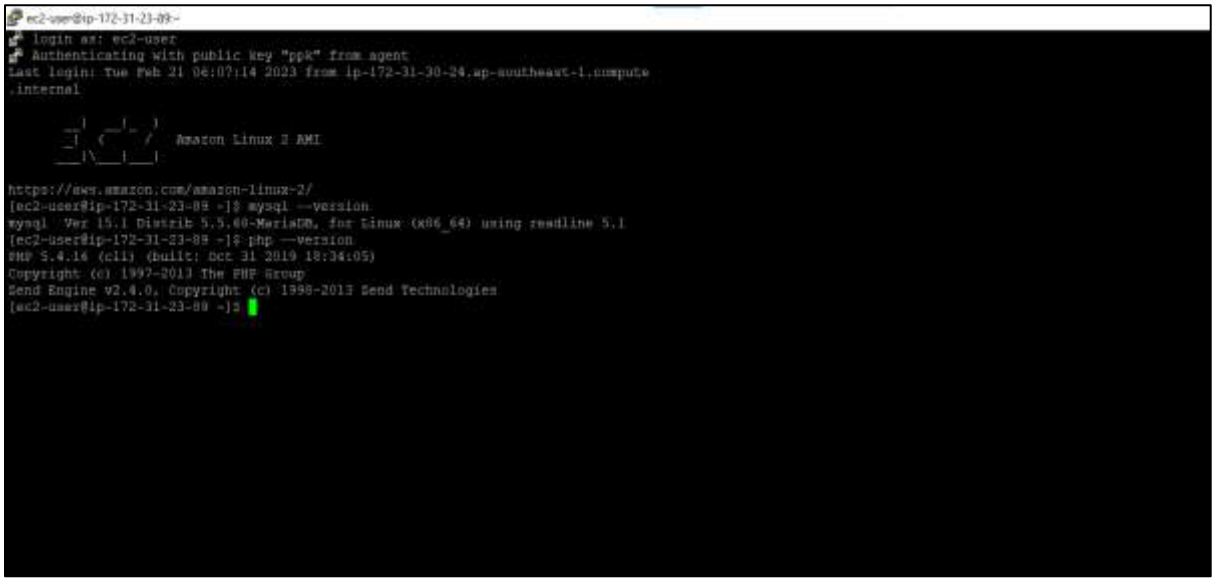
#ansible-playbook -i hosts loop.yml



Now login slave server and check install or not install

#mysql –version

#php --version

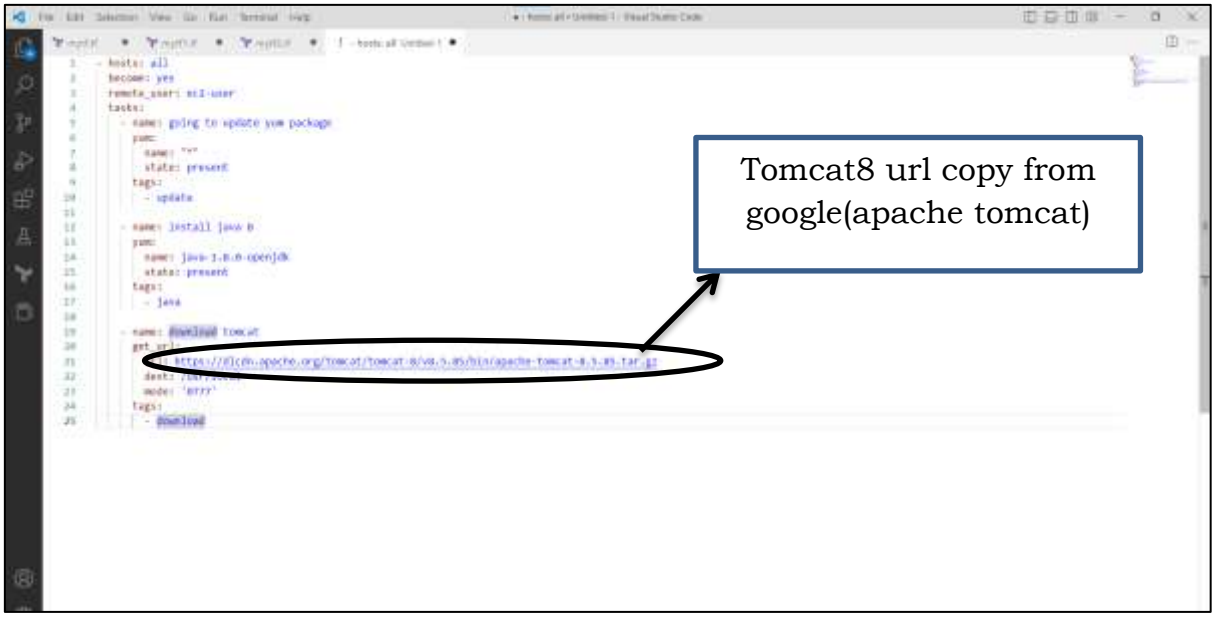


This playbook is running successfully.

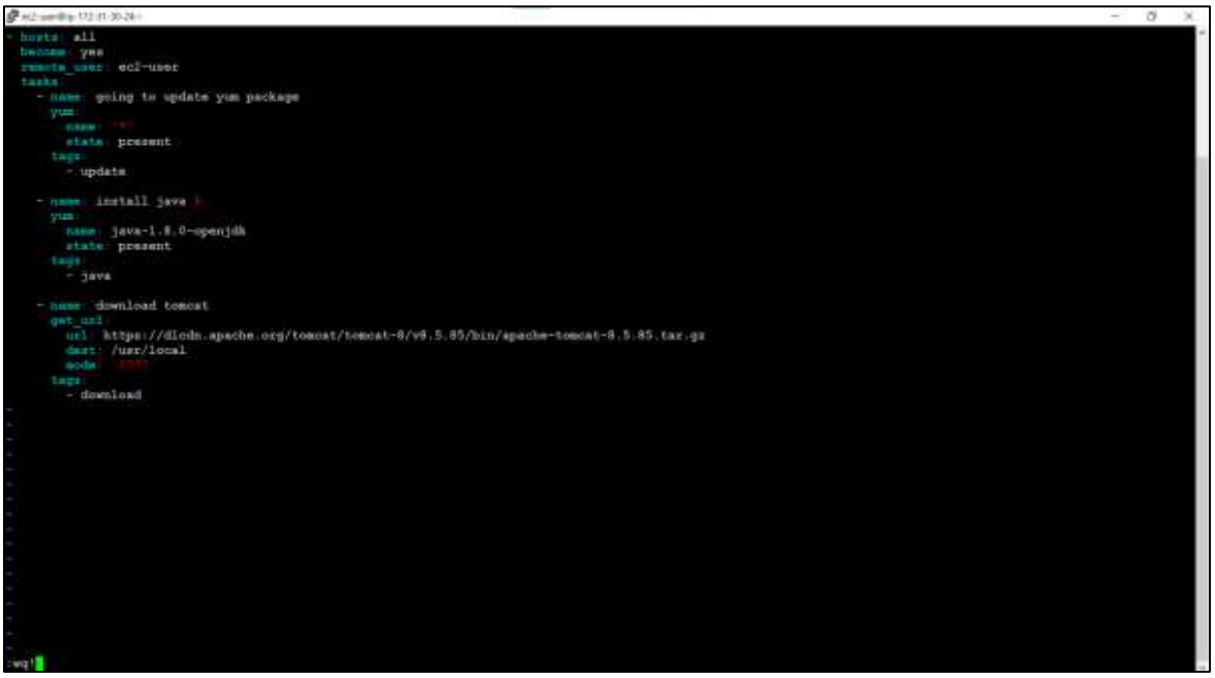
3. Run Particular tasks

3types in this code 1.java 2.yum update 3.tomcat download

Copy code and put visual studio code

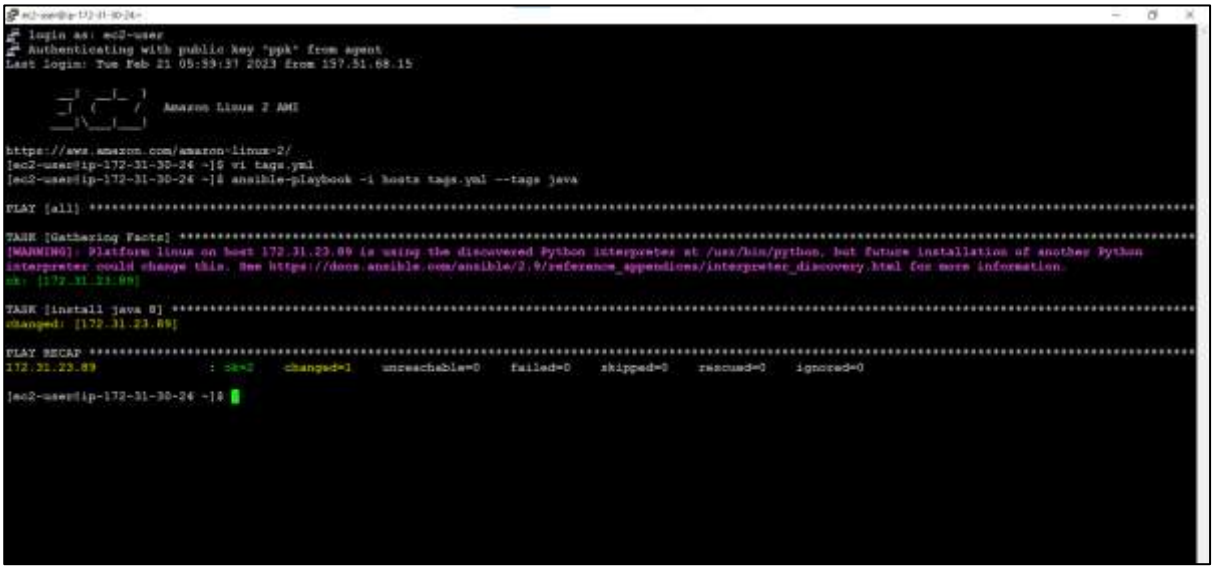


#vi tags.yml --->put code --->save:wq!



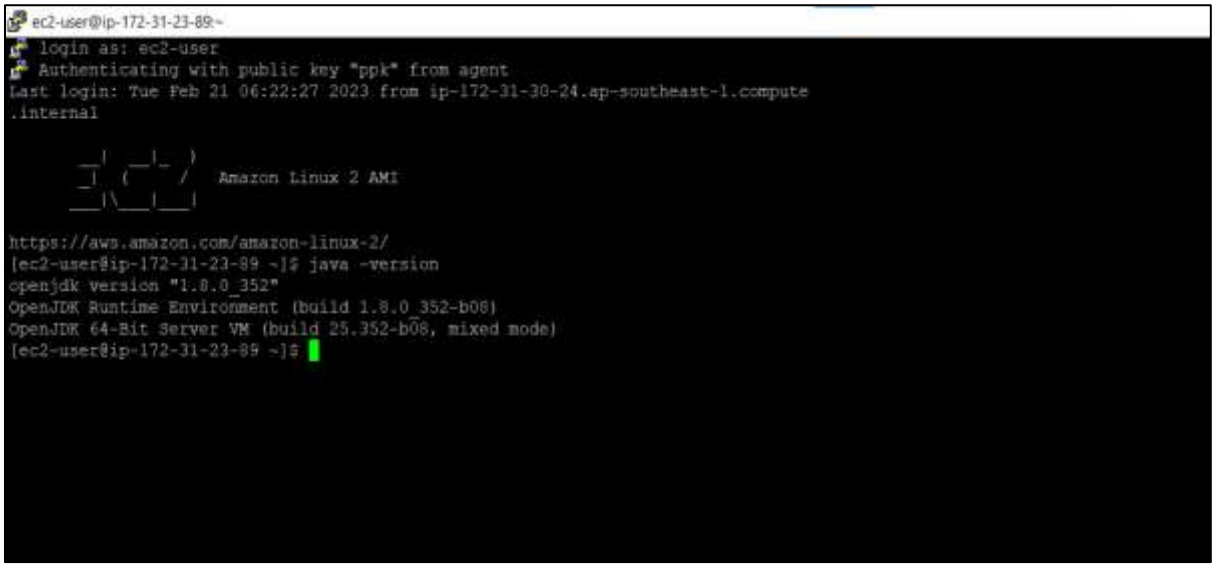
1.Now run only install java

ansible-playbook -i hosts tags.yml --tags java



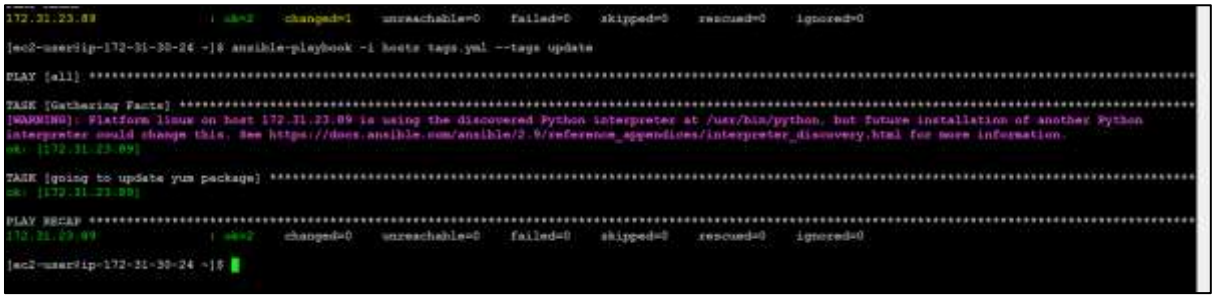
Now check slave server

#java -version



2.run only update

ansible-playbook -i hosts tags.yml --tags update

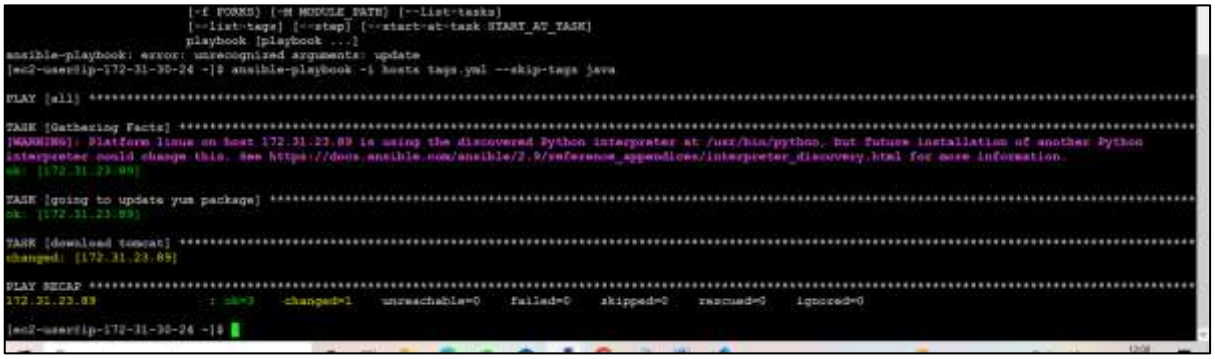


3.skip java and update code run only tomcat download code only

#ansible-playbook -i hosts tags.yml --skip-tags java

Or

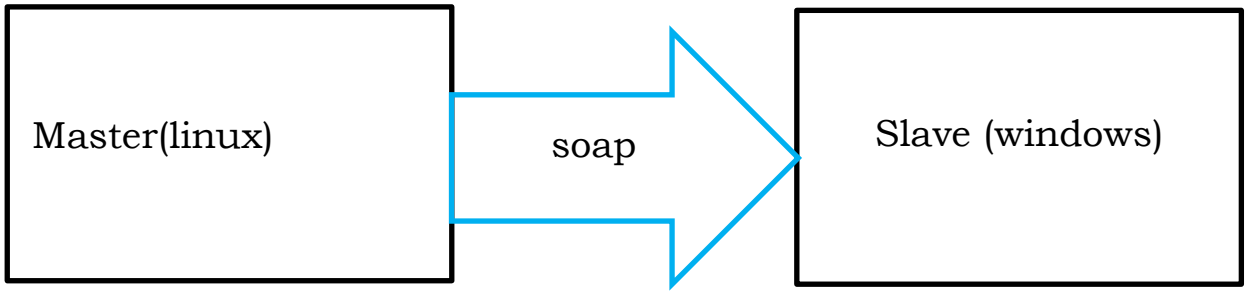
ansible-playbook -i hosts tags.yml --tags download



Tomcat download

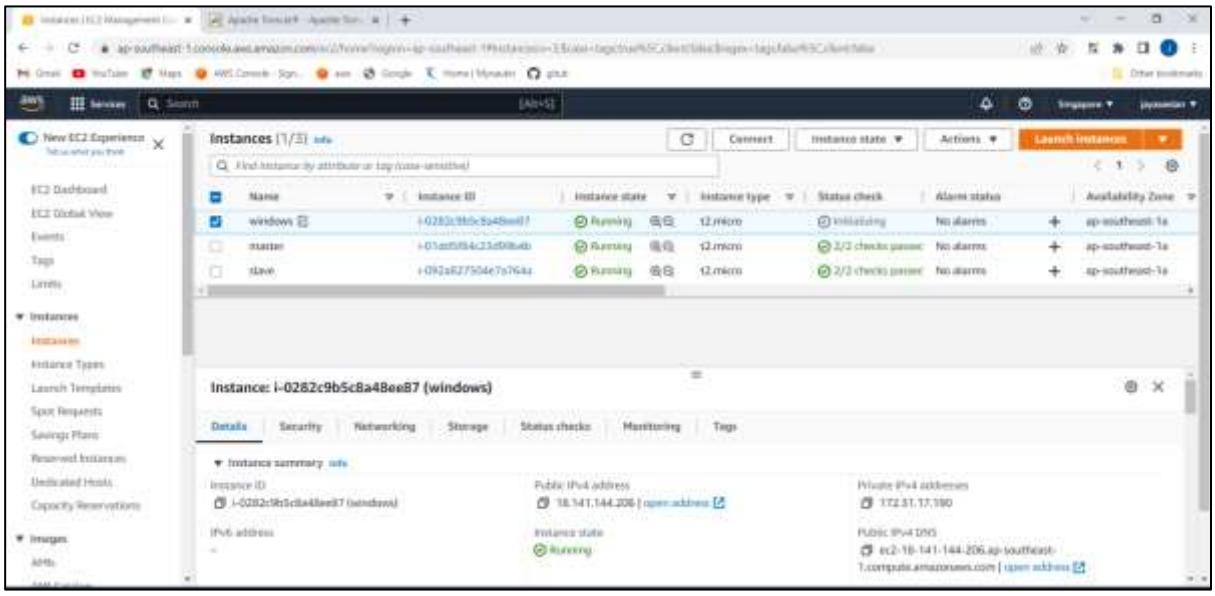
Check slave server

Ansible With Windows Slave



Step1:Launch Ec2 Windows Server

Key(pem)---->security (all tcp)--->launch instance



Step2: Add Windows Public Ip On Master Server Host Configuration With

login master server

#vi hosts ----> [windows]

18.141.144.206

[windows:vars]

ansible_user=Administrator

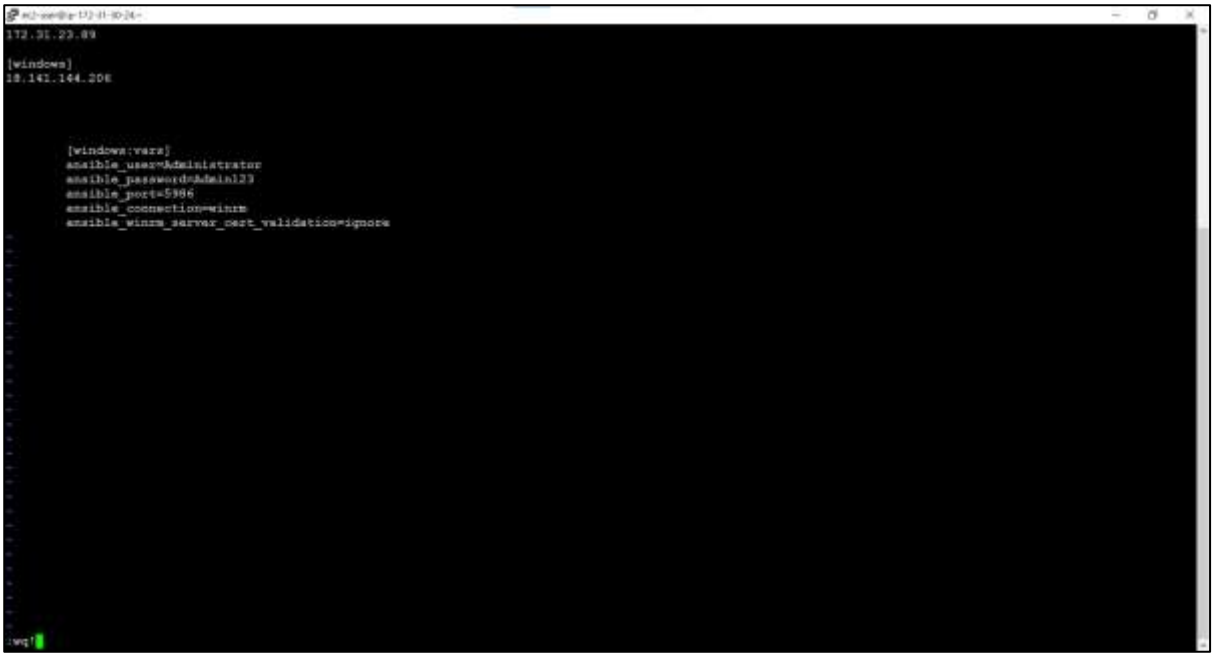
ansible_password=Admin123

ansible_port=5986

ansible_connection=winrm

ansible_winrm_server_cert_validation=ignore

--->wq!

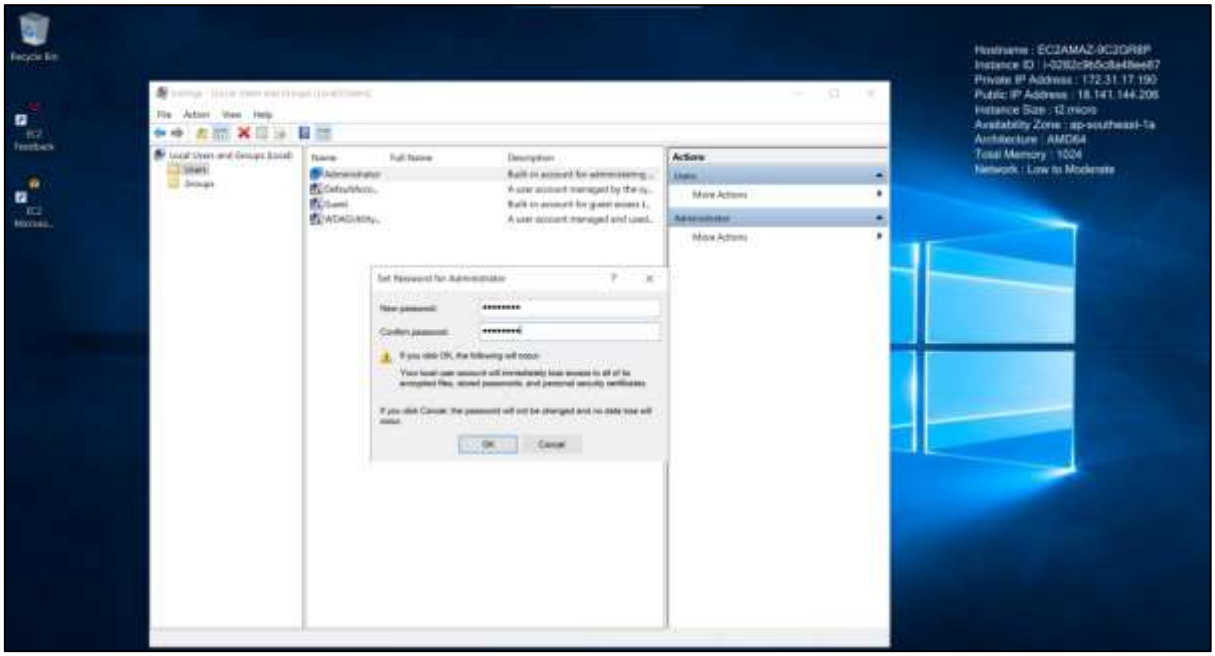


Step3:Connect Windows Server

Purpose :Change password

Searchbar ---> lusrmgr.msc (Local user manager)

User--->administrator(right click)---->set password --->proceed--->Admin123 --->ok

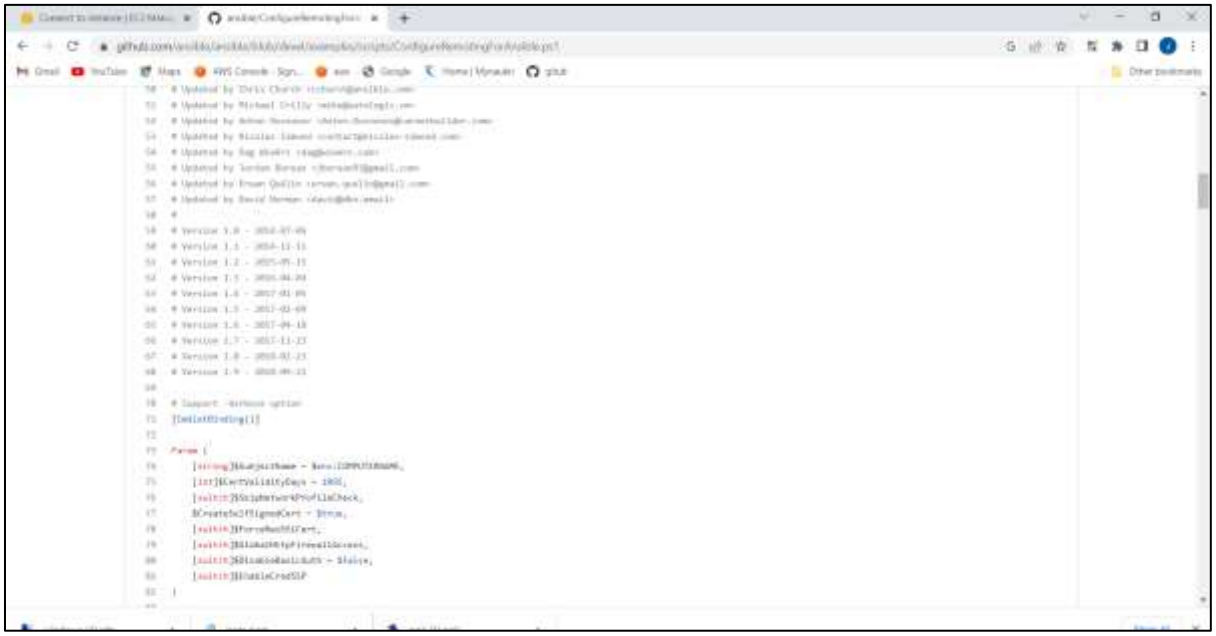


Now server close and open again use password(Admin123)

Step4:Set Configuration For Windows Server

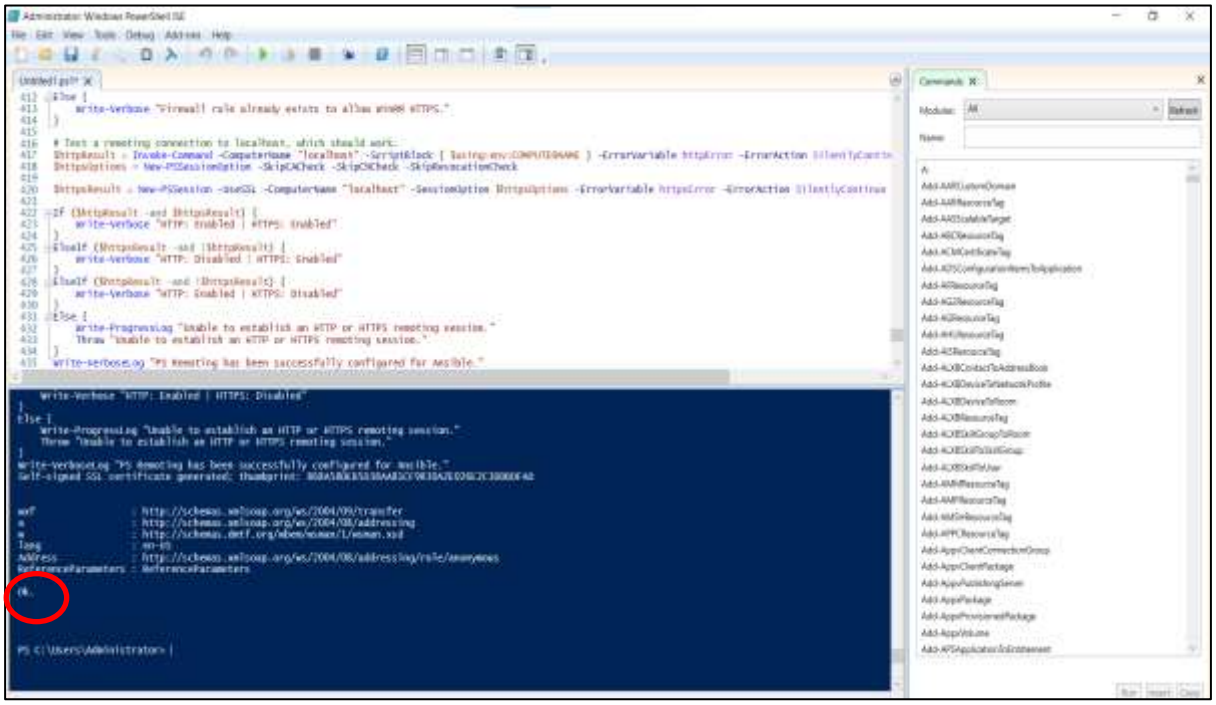
Configuratin file download

https://github.com/ansible/ansible/blob/devel/examples/scripts/ConfigureRemotingForAnsible.ps1



Windows search bar ---> Powershell ISE --->open --->put the code --->debug (run) or f5

Finally it will come **ok**



Master server login

Install pip using python and winrm

#sudo yum install python-pip -y

pip install pywinrm

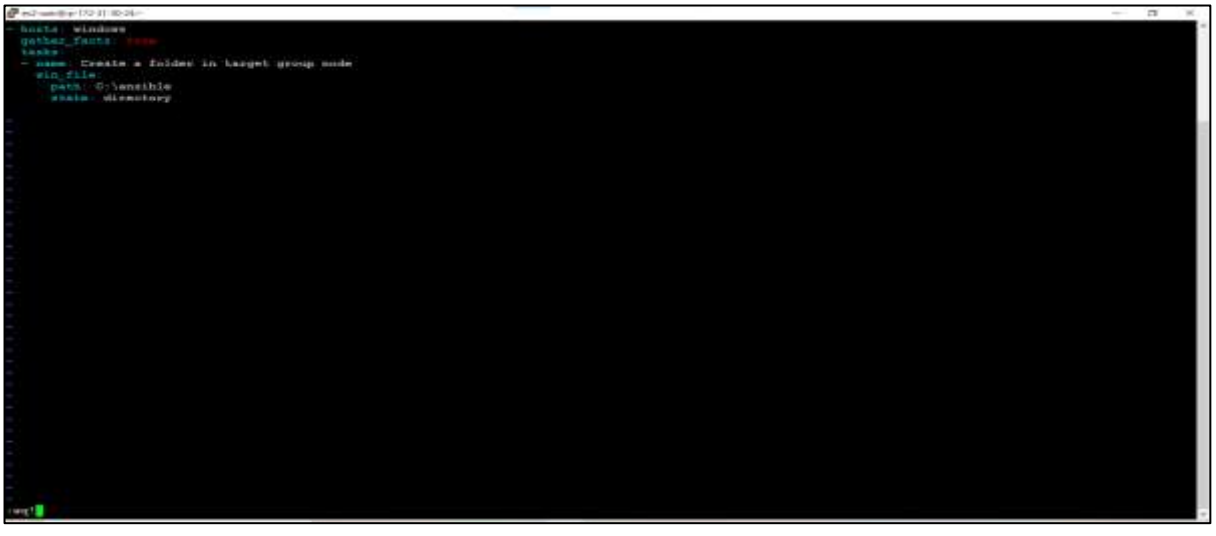
Now ping windows server

ansible windows -i hosts -m win_ping

1.Now create one folder in windows server

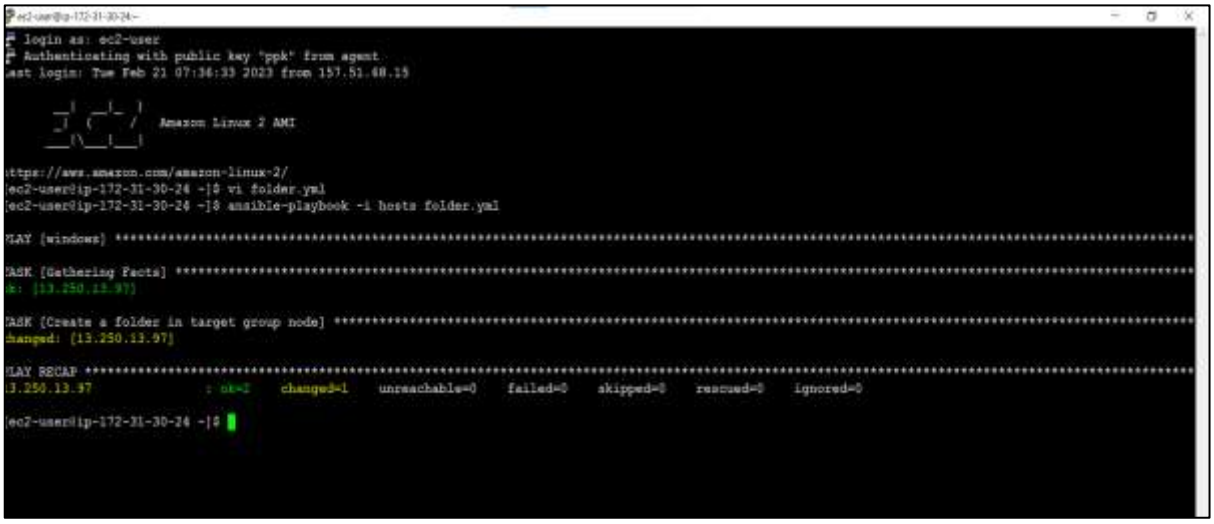
#Vi folder.yml --->put code ---->save:wq!

Windows --->:/c path---->ansible folder



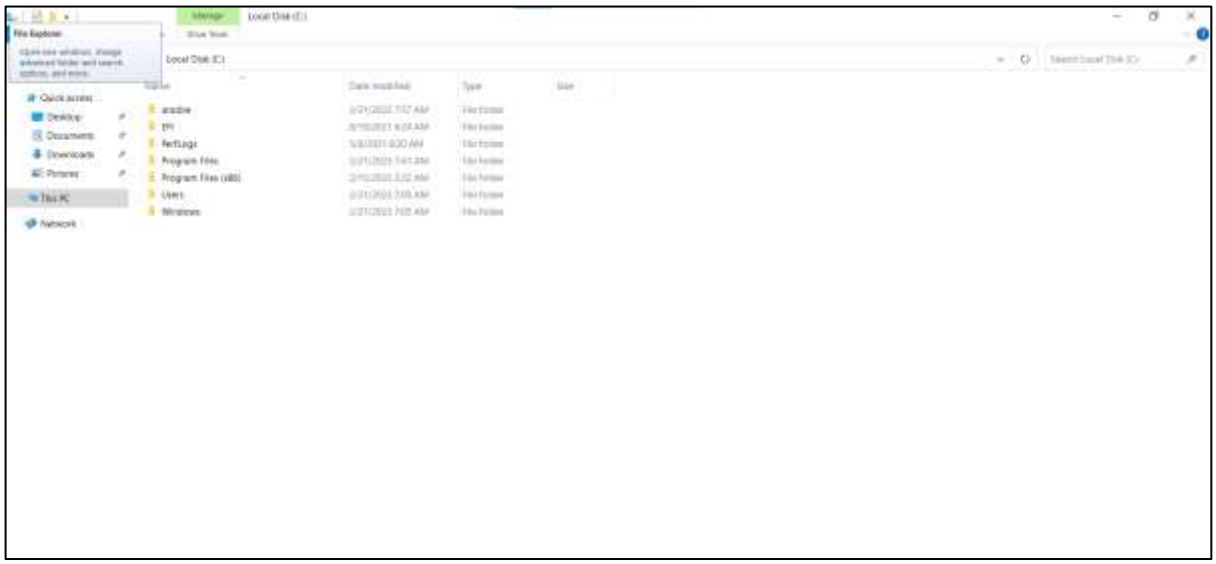
Run Playbook

#ansible-playbook -i hosts folder.yml



Now go windows server check c drive

Ansible Folder shown



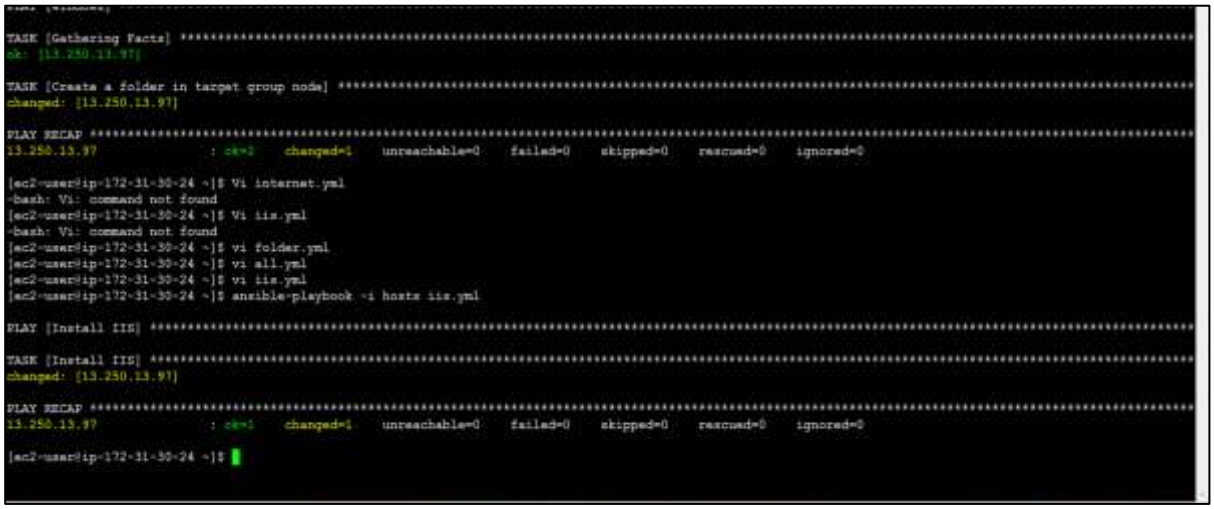
2.install IIS(internet information service)

Copy code visual studio

Vi iis.yml ---->put code --->save:wq!

Run playbook

#ansible-playbook -i hosts iis.yml



Iis install

Now windows server public ip copy put chrome.