Ansible - Assignment 5

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Tasks:

1. Create a new deployment of ansible cluster of 5 nodes

2. Label 2 nodes as test and other 2 as prod

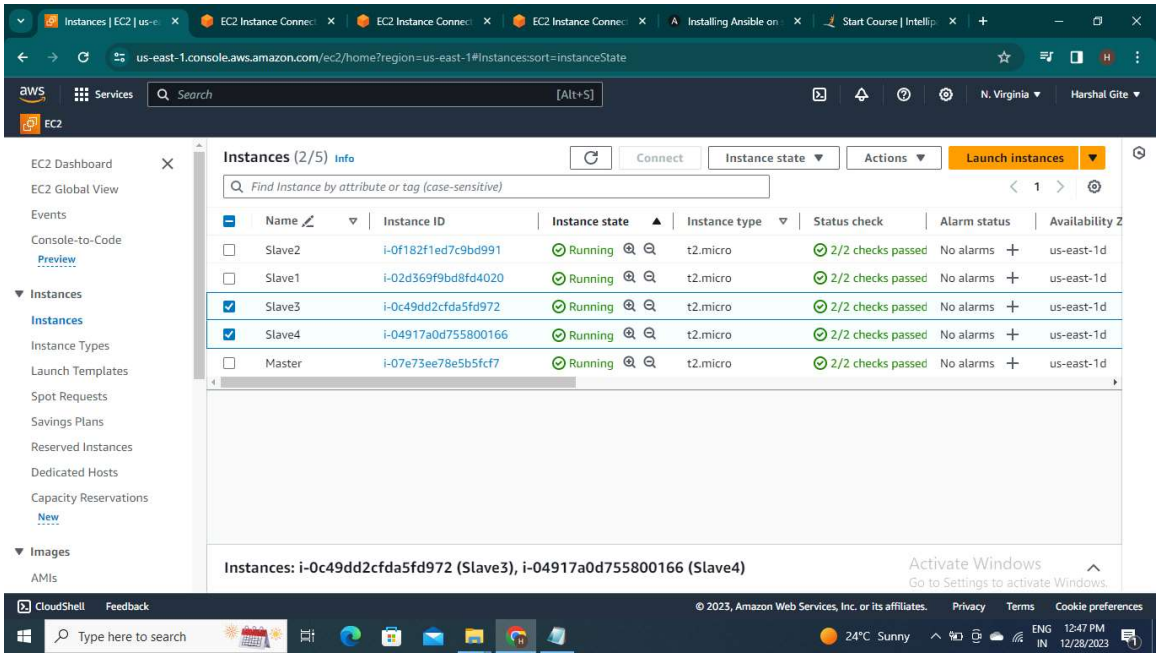
3. Install java on test nodes

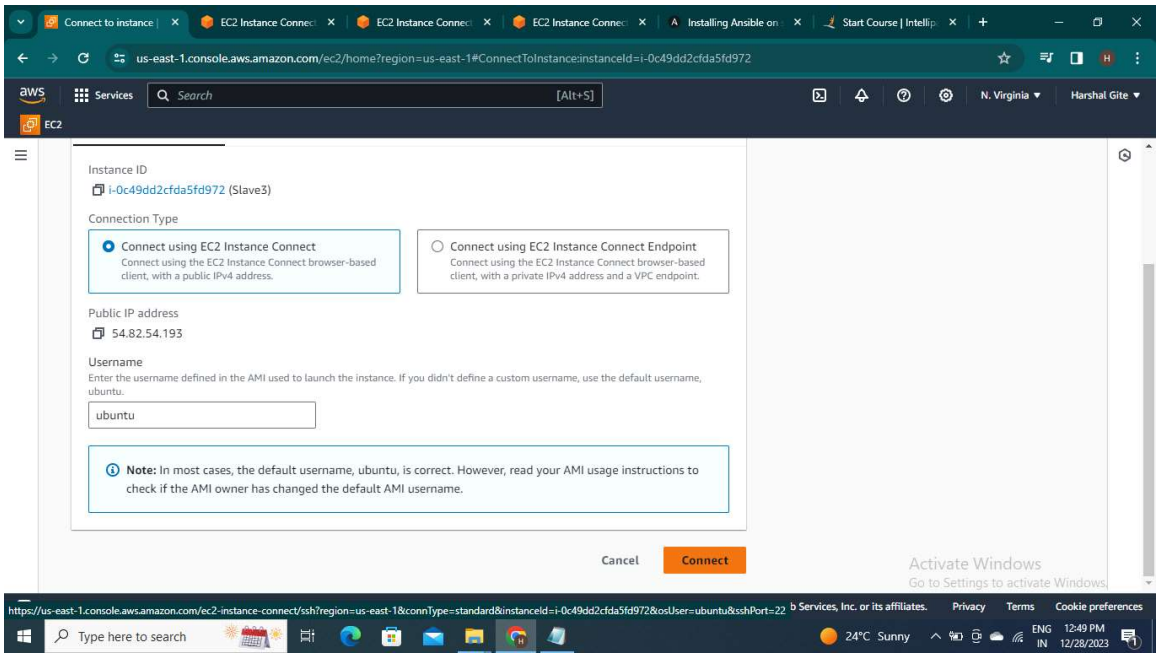
4. Install mysql-server on prod nodes

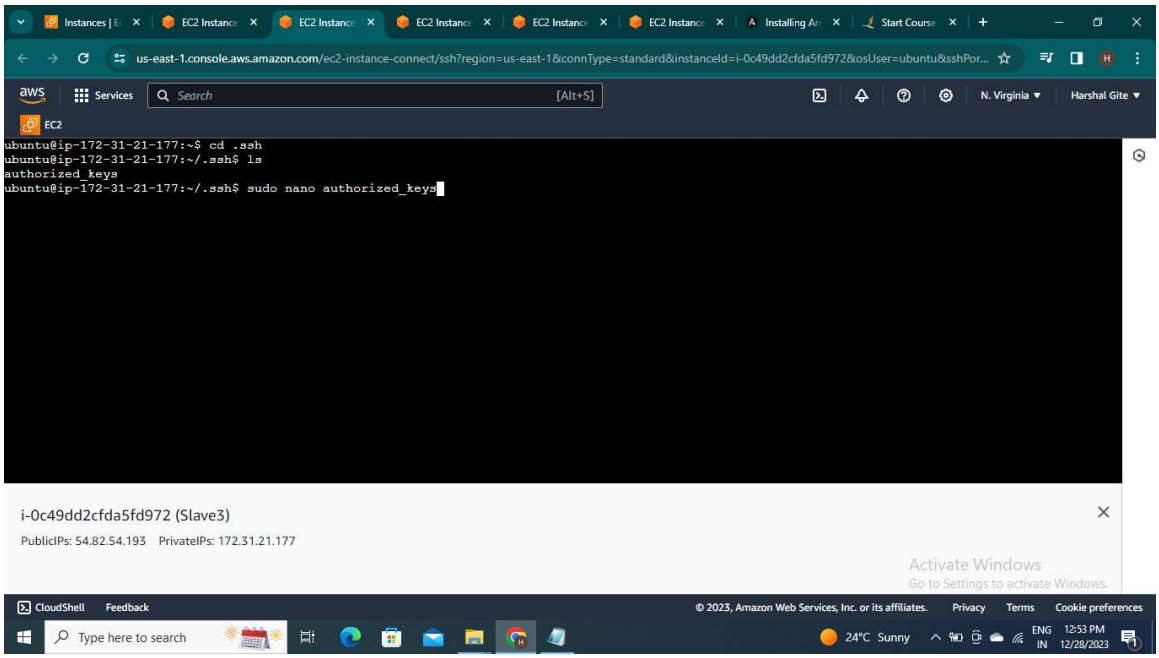
Use Anisble roles for the above, group the hosts under test and prod

Solution:

Steps:




Connect to instance
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0c49dd2cfda5fd972
Services
Search
[Alt+S]
N. Virginia
Harshal Gite
EC2
Instance ID
i-0c49dd2cfda5fd972 (Slave3)
Connection Type
Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.
Public IP address
54.82.54.193
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.
ubuntu
Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel
Connect
Activate Windows
Go to Settings to activate Windows.
Privacy
Terms
Cookie preferences
Type here to search
24°C Sunny
ENG
IN
12:49 PM
12/28/2023


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0c49dd2cfda5fd972&osUser=ubuntu&sshPort=22
Services
Search
[Alt+S]
N. Virginia
Harshal Gite
EC2
ubuntu@ip-172-31-21-177:~$ cd .ssh
ubuntu@ip-172-31-21-177:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-21-177:~/.ssh$ sudo nano authorized_keys
i-0c49dd2cfda5fd972 (Slave3)
PublicIPs: 54.82.54.193 PrivateIPs: 172.31.21.177
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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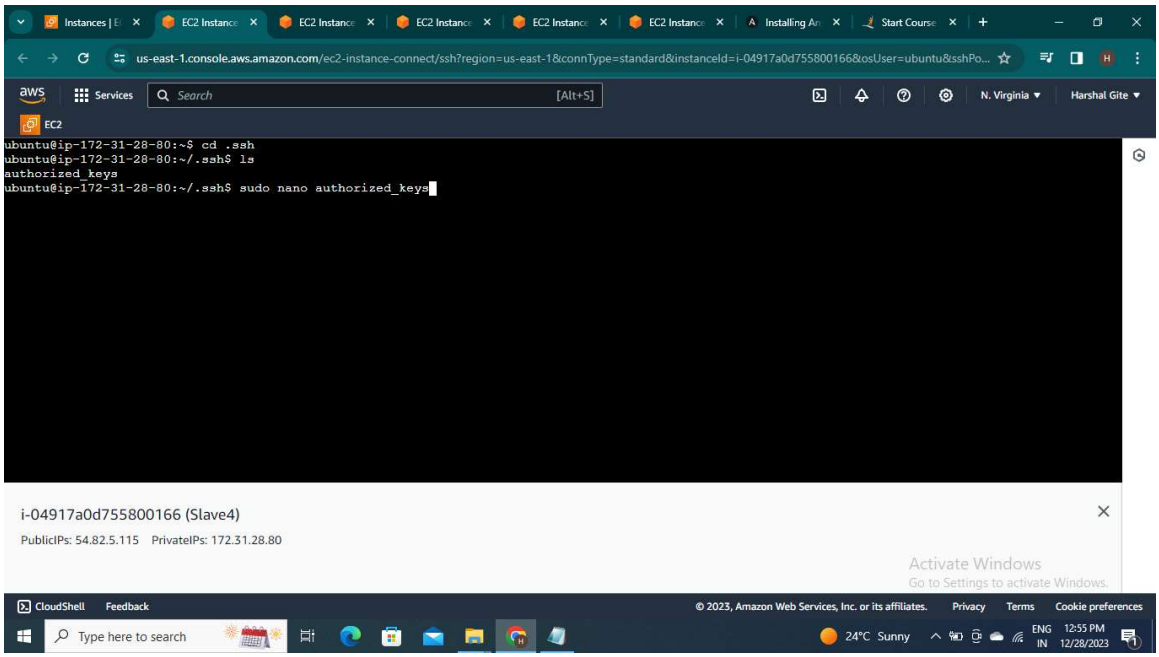
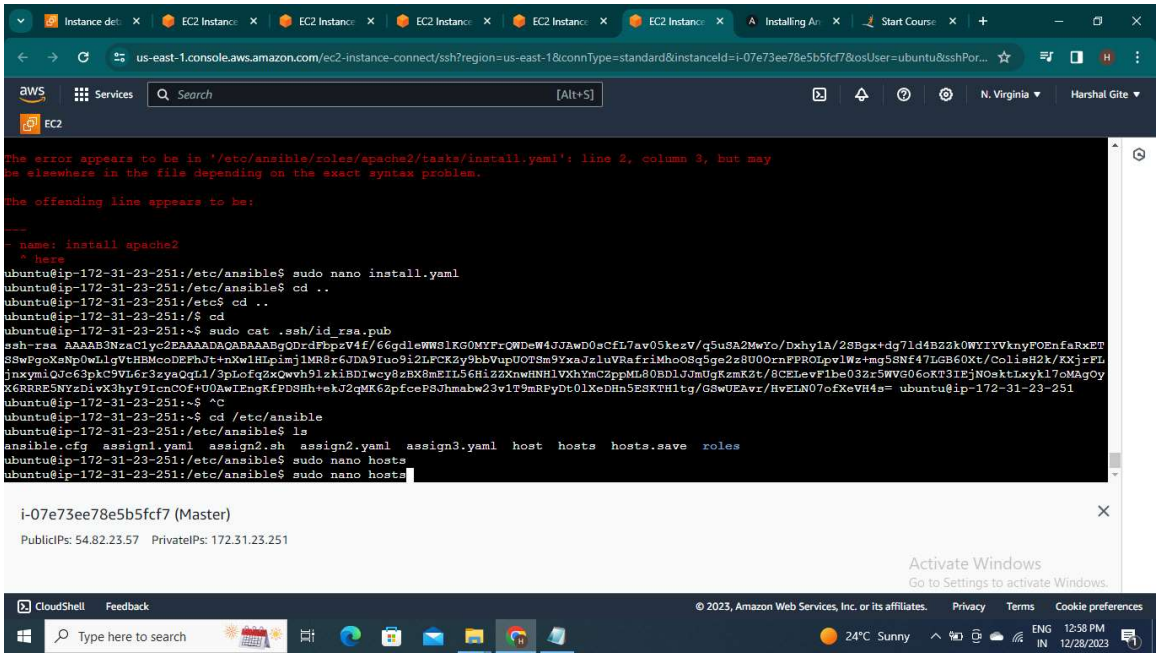
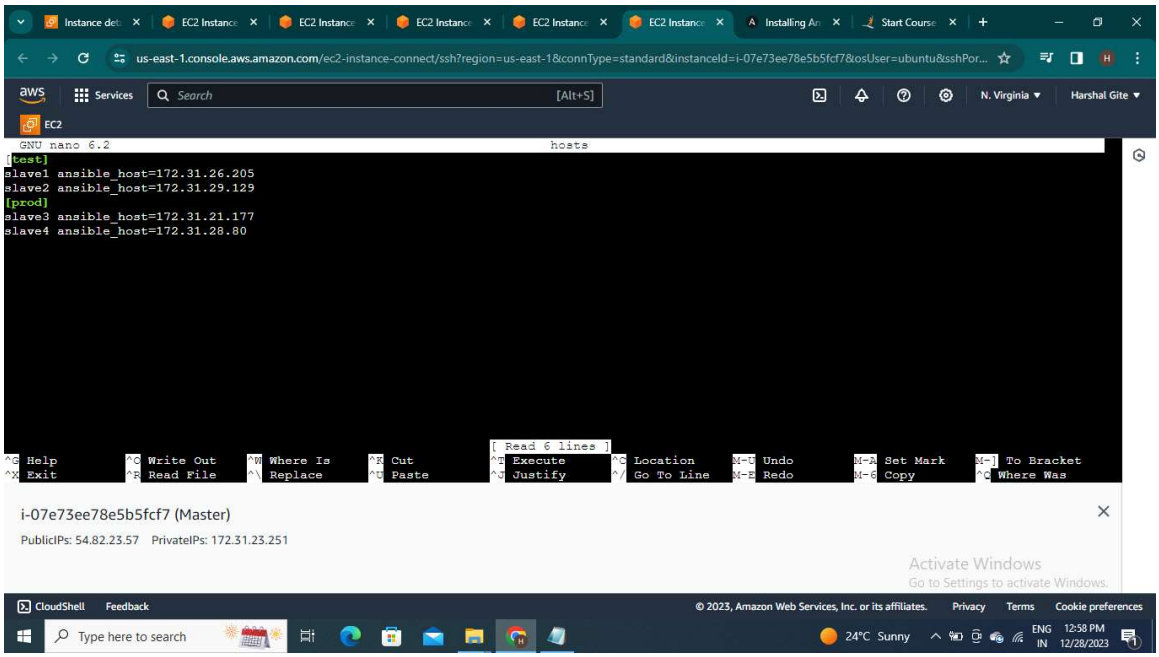
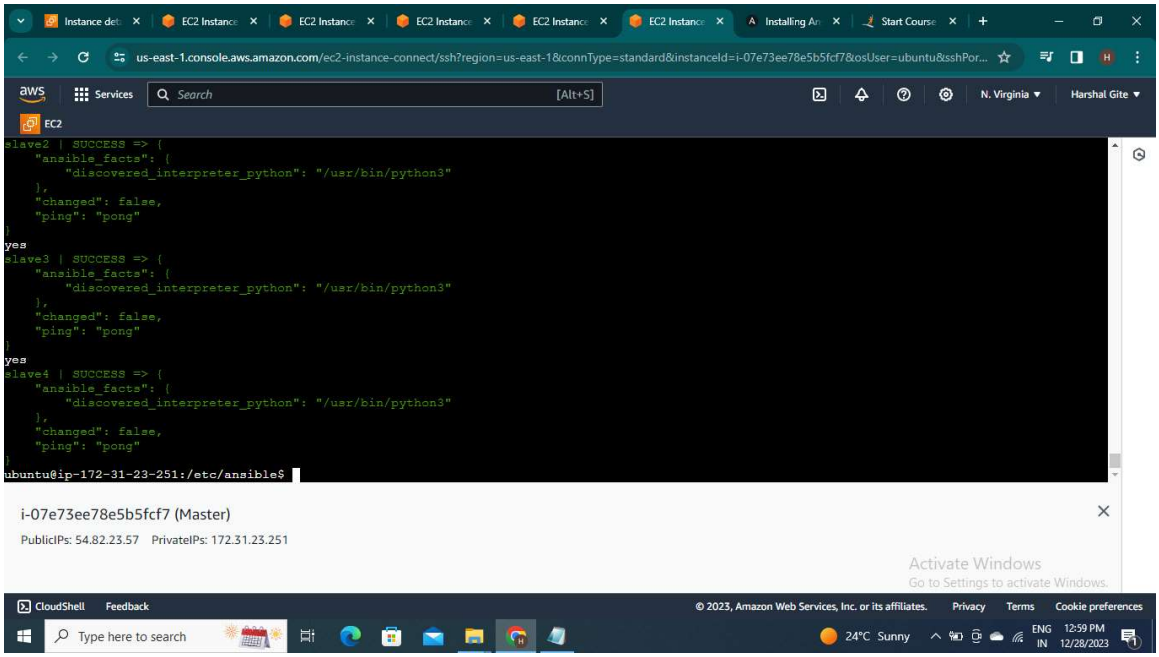
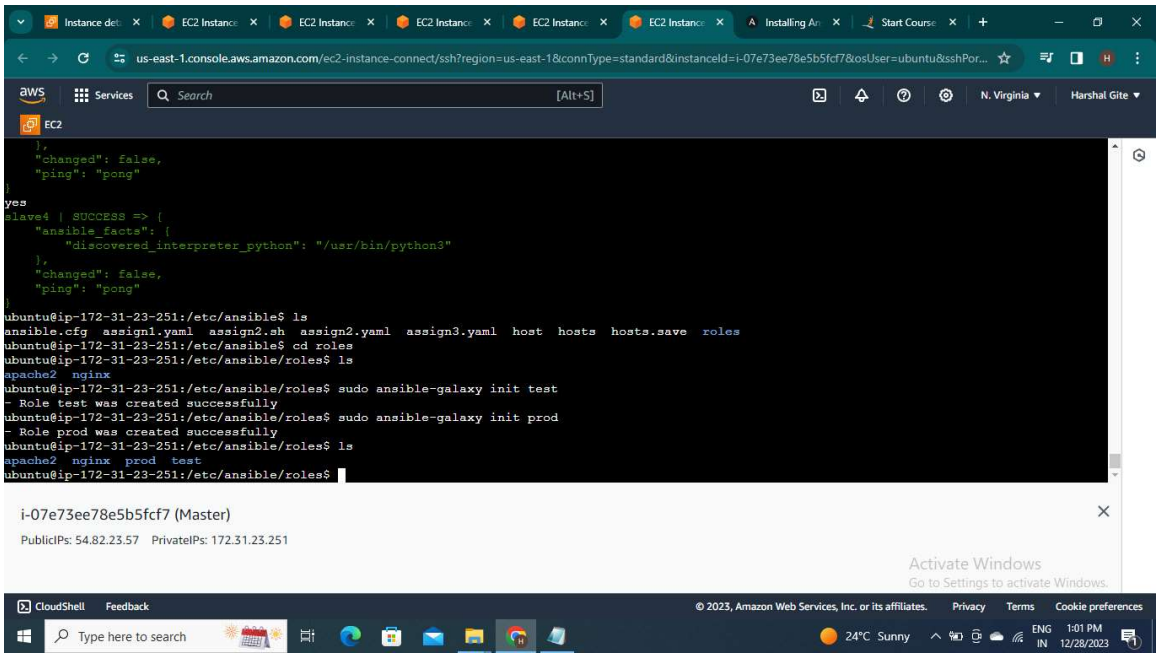

ubuntu@ip-172-31-28-80:~$ cd .ssh
ubuntu@ip-172-31-28-80:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-28-80:~/.ssh$ sudo nano authorized_keys
i-04917a0d755800166 (Slave4)
PublicIPs: 54.82.5.115 PrivateIPs: 172.31.28.80


The error appears to be in '/etc/ansible/roles/apache2/tasks/install.yaml': line 2, column 3, but may
be elsewhere in the file depending on the exact syntax problem.
The offending line appears to be:

- name: install apache2
  ^ here
ubuntu@ip-172-31-23-251:/etc/ansible$ sudo nano install.yaml
ubuntu@ip-172-31-23-251:/etc/ansible$ cd ..
ubuntu@ip-172-31-23-251:/etc$ cd ..
ubuntu@ip-172-31-23-251:/$ cd
ubuntu@ip-172-31-23-251:~$ sudo cat .ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDrdFbpzV4f/66gdleWWSlKG0MYFrQWDeW4JJAwD0sCfL7av05kezV/q5u8A2MwYo/Dxhy1A/2SBgx+dg7ld4BZZk0WYIYVknyFOEnfaRxET
SSwPgoXsNp0wLlgVtHBMcoDEFhJt+nXwlHLpimj1MR8r6JDA9Iuo9i2LFCK2y9bbVupUOTSm9YxaJzluVRafriMhoOSq5ge2z8U0OrnFPROLpvlWz+mg5Nf47LGB60Xt/ColisH2k/KXjrFL
jnxymiQJc63pkC9VL6r3zyaQqL1/3pLofq2xQwvh9lzkiBDIwcy8zBX8mEIL56HiZZXnwHNHlVXhYmCZppML80BDlJmUgKzmKZt/8CELevFlbe03Zr5WVG06oKT3IEjNOsktLxykl7oMAgOy
X6RRRE5NYzDivX3hyI9IcnCOf+UOAwIEngKfPDSHh+ekJ2qMK62pfceP8JhmabW23v1T9mRPyDt0lXeDHn5E8KTH1tg/GSwUEAvr/HvELN07ofXeVH4s= ubuntu@ip-172-31-23-251
ubuntu@ip-172-31-23-251:~$ ^C
ubuntu@ip-172-31-23-251:~$ cd /etc/ansible
ubuntu@ip-172-31-23-251:/etc/ansible$ ls
ansible.cfg assign1.yaml assign2.sh assign2.yaml assign3.yaml host hosts hosts.save roles
ubuntu@ip-172-31-23-251:/etc/ansible$ sudo nano hosts
ubuntu@ip-172-31-23-251:/etc/ansible$ sudo nano hosts
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251


GNU nano 6.2 hosts
[test]
slave1 ansible_host=172.31.26.205
slave2 ansible_host=172.31.29.129
[prod]
slave3 ansible_host=172.31.21.177
slave4 ansible_host=172.31.28.80
[Read 6 lines]
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251


slave2 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
yes
slave3 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
yes
slave4 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
ubuntu@ip-172-31-23-251:/etc/ansible$
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
Services
Search
[Alt+S]
N. Virginia
Harshal Gite
EC2
"changed": false,
"ping": "pong"
yes
slave4 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
ubuntu@ip-172-31-23-251:/etc/ansible$ ls
ansible.cfg assign1.yaml assign2.sh assign2.yaml assign3.yaml host hosts hosts.save roles
ubuntu@ip-172-31-23-251:/etc/ansible$ cd roles
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ ls
apache2 nginx
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ sudo ansible-galaxy init test
- Role test was created successfully
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ sudo ansible-galaxy init prod
- Role prod was created successfully
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ ls
apache2 nginx prod test
ubuntu@ip-172-31-23-251:/etc/ansible/roles$
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251
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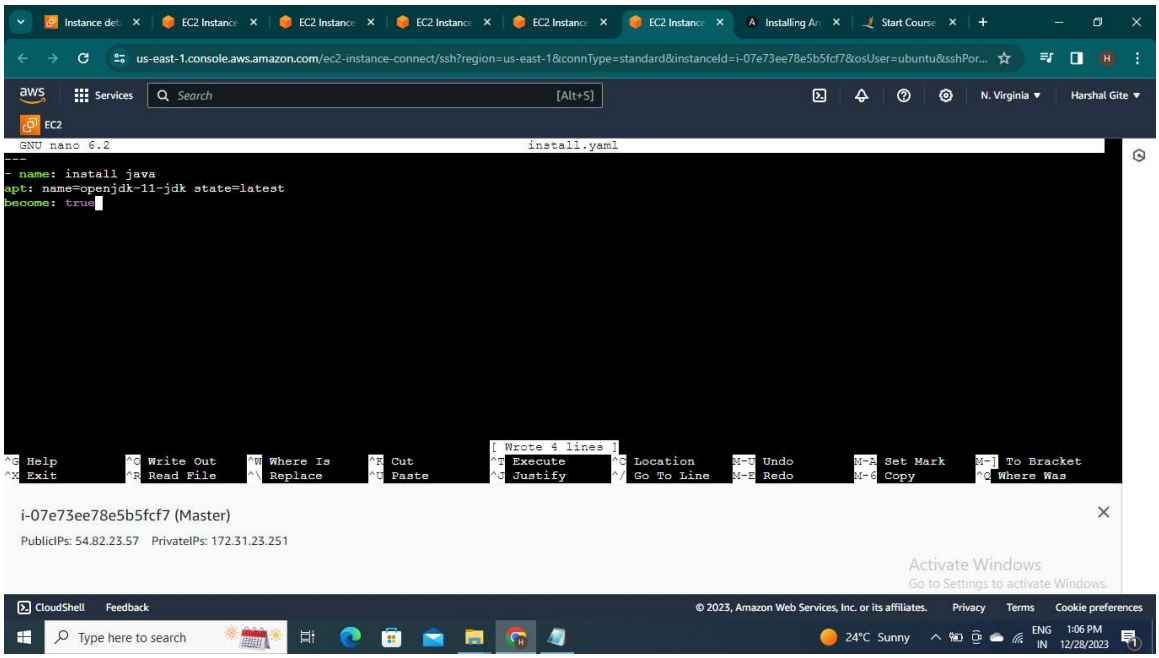
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
Services
Search
[Alt+S]
N. Virginia
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EC2
GNU nano 6.2
install.yaml

- name: install java
apt: name=openjdk-11-jdk state=latest
become: true
[Wrote 4 lines]
^G Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
^K Cut
^U Paste
^T Execute
^J Justify
^C Location
^/ Go To Line
M-U Undo
M-E Redo
M-A Set Mark
M-6 Copy
M-] To Bracket
^Q Where Was
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251
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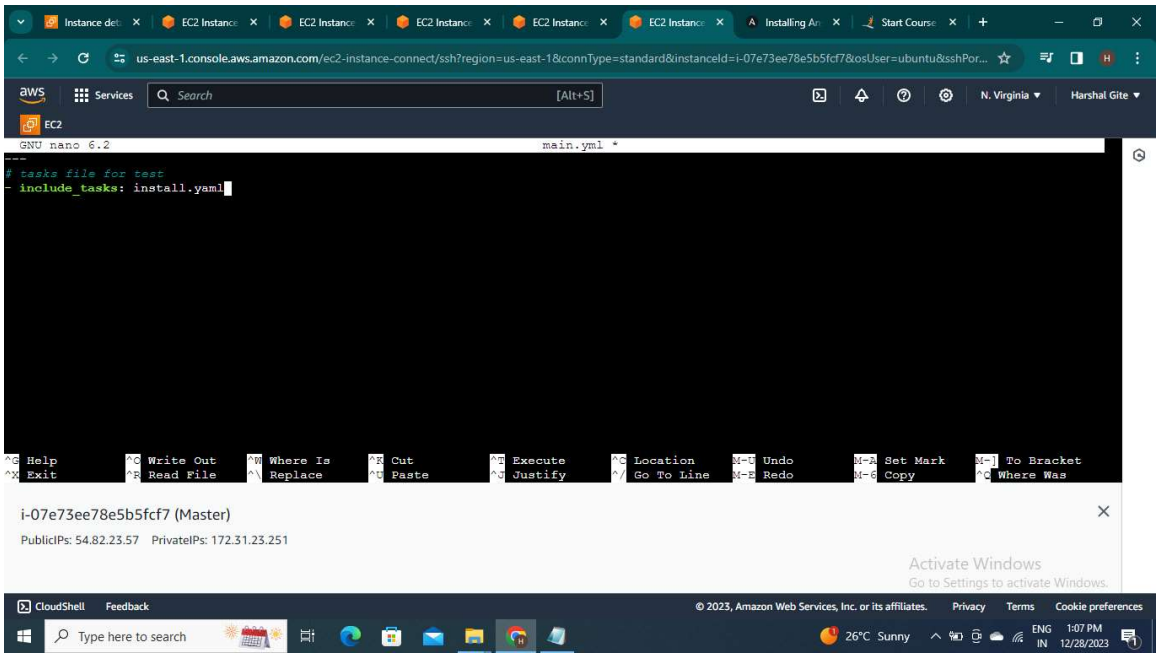
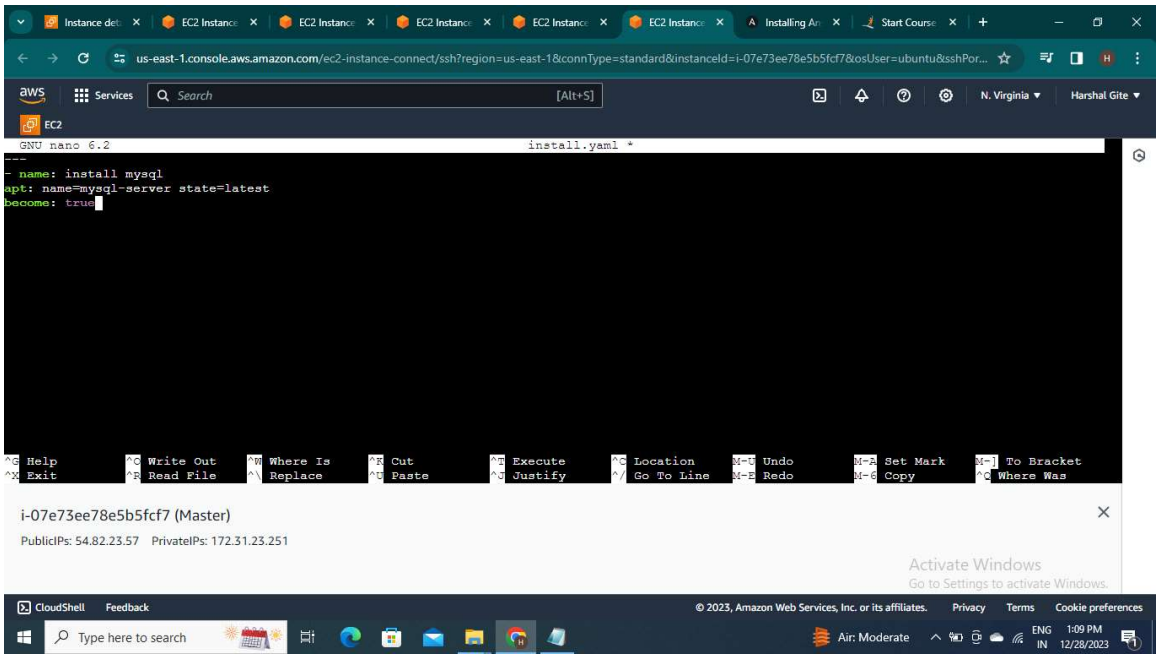
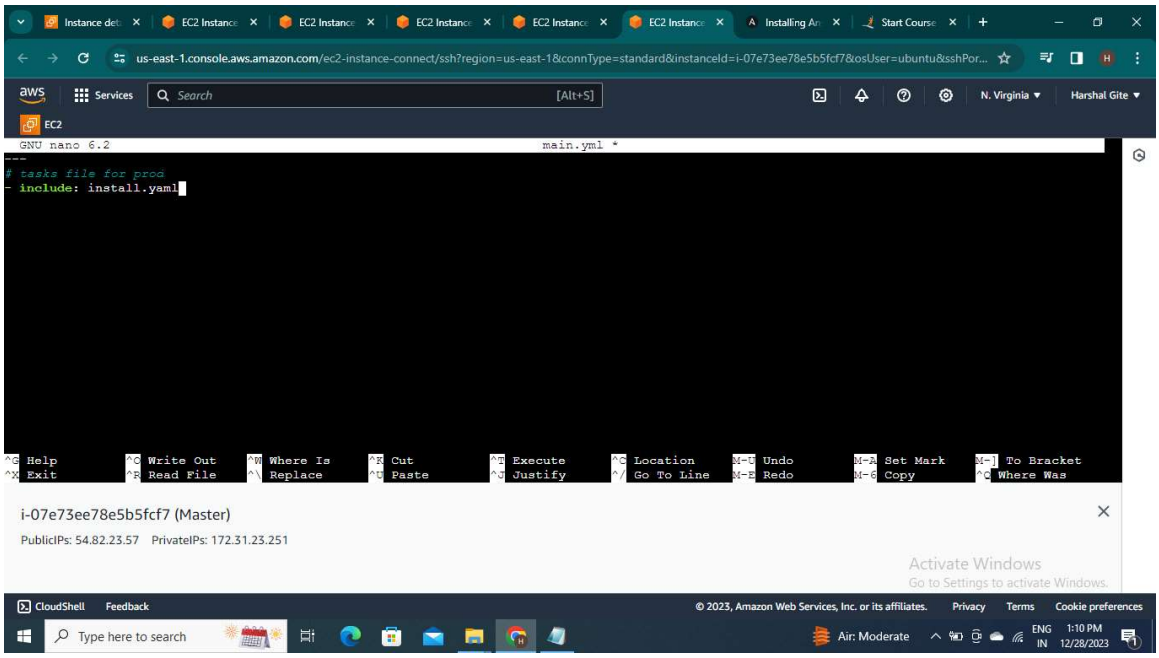
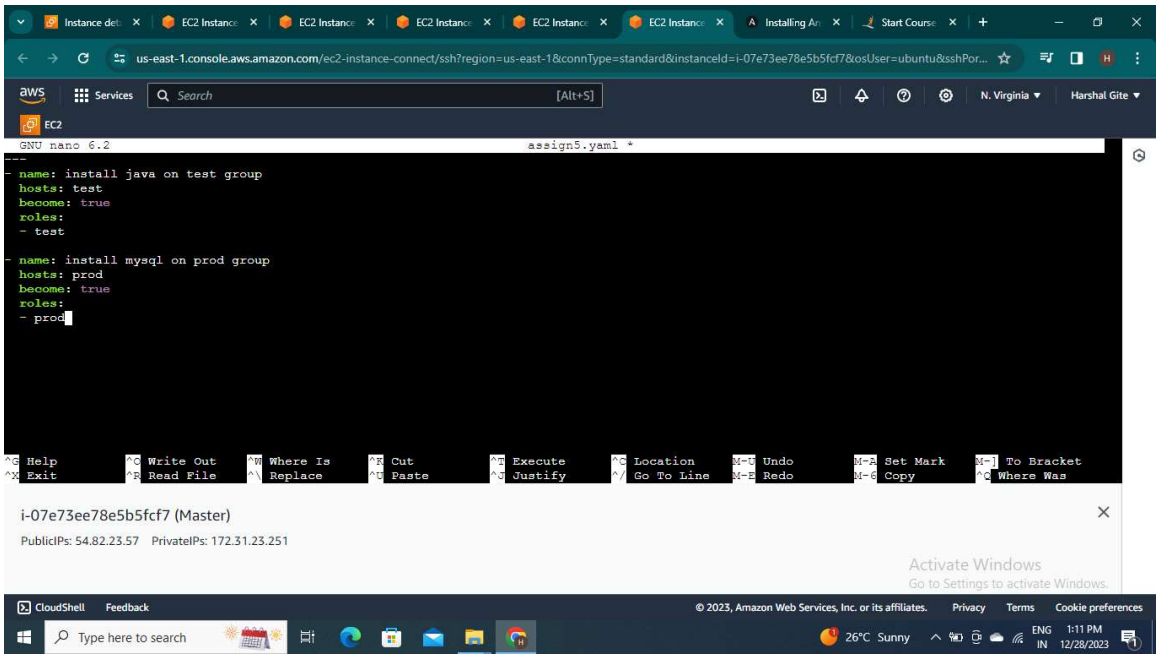
1:06 PM
12/28/2023


GNU nano 6.2 main.yml *
---
tasks file for test
- include_tasks: install.yaml
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251

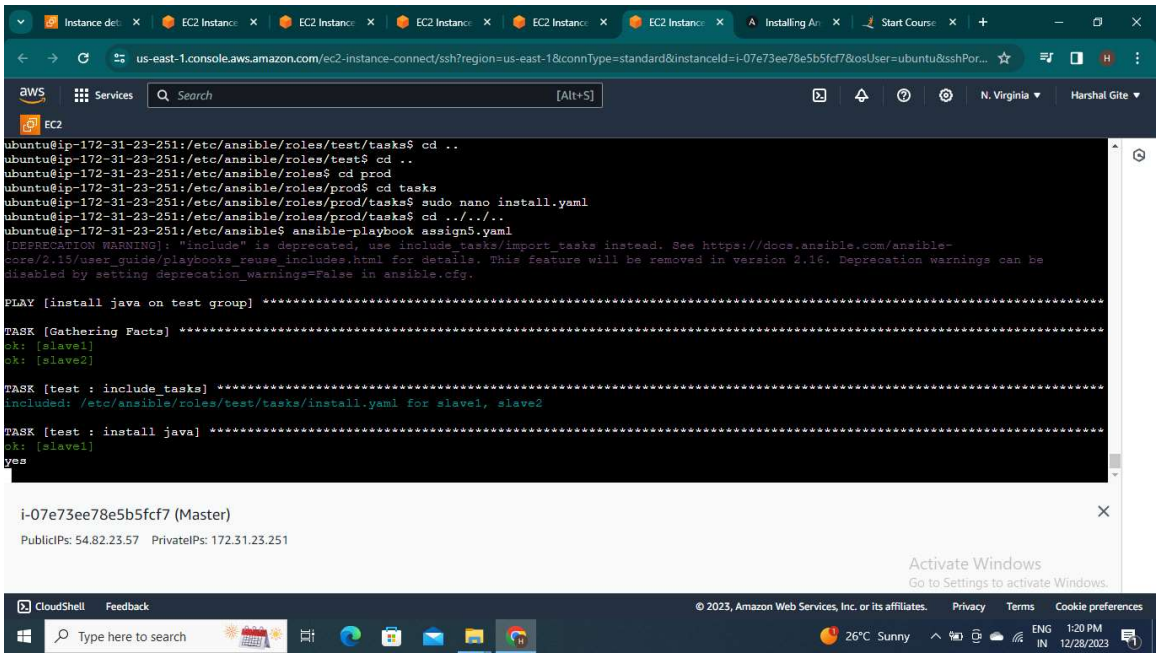

GNU nano 6.2 install.yaml *

- name: install mysql
apt: name=mysql-server state=latest
become: true
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251


GNU nano 6.2 main.yml *
---
tasks file for prod
- include: install.yaml
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251


GNU nano 6.2 assign5.yaml *

- name: install java on test group
hosts: test
become: true
roles:
- test
- name: install mysql on prod group
hosts: prod
become: true
roles:
- prod
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251


ubuntu@ip-172-31-23-251:/etc/ansible/roles/test/tasks$ cd ..
ubuntu@ip-172-31-23-251:/etc/ansible/roles/test$ cd ..
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd prod
ubuntu@ip-172-31-23-251:/etc/ansible/roles/prod$ cd tasks
ubuntu@ip-172-31-23-251:/etc/ansible/roles/prod/tasks$ sudo nano install.yaml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/prod/tasks$ cd ../../..
ubuntu@ip-172-31-23-251:/etc/ansible$ ansible-playbook assign5.yaml
[DEPRECATION WARNING]: "include" is deprecated, use include_tasks/import_tasks instead. See https://docs.ansible.com/ansible-core/2.15/user_guide/playbooks_reuse_includes.html for details. This feature will be removed in version 2.16. Deprecation warnings can be disabled by setting deprecation_warnings=False in ansible.cfg.
PLAY [install java on test group] ***
TASK [Gathering Facts] ***
ok: [slave1]
ok: [slave2]
TASK [test : include_tasks] ***
included: /etc/ansible/roles/test/tasks/install.yaml for slave1, slave2
TASK [test : install java] ***
ok: [slave1]
yes
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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Privacy
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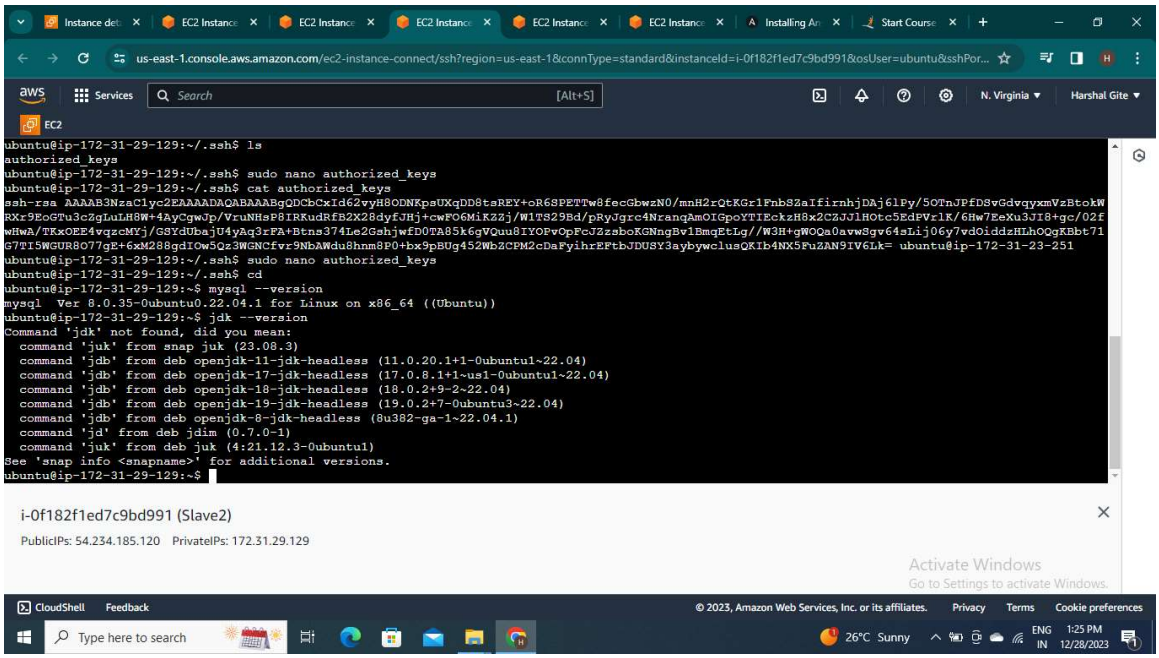
Type here to search
26°C Sunny
ENG IN
1:20 PM 12/28/2023


ubuntu@ip-172-31-29-129:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-29-129:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-29-129:~/.ssh$ cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDCbCxId62vyH8ODNKpsUXqDD8tsREY+oR6SPETTw8fecGbwzN0/mnH2rQtKGr1FnbS2aIfirnhjDAj6lPy/5OTnJPfD8vGdvqyxmVzBtokW
RXr9EoGTu3cZgLuLH8W+4AyCgwJp/VruNHsP8IRKudRfB2X28dyfJHj+cwPO6MiKZzj/W1TS29Bd/pRyJgrc4NranqAmOIGpoYTIEckzH8x2CZJJlHOtc5EdPVrlK/6Hw7EeXu3JI8+gc/02f
wHwA/TKxOEE4vqzcMYj/G8YdUbajU4yAq3rFA+Btns374Le2GshjwfD0TA85k6gVQuu8IYOPvOpFcJ2zsboKGNnqBv1BmqEtLg//W3H+gWOQa0avw8gv64sLij06y7vdOiddzHIhOQgKBbt71
G7TI5WGUR8O77gE+6xM288gdIOw5Qz3WGNCfvr9NbAWdu8hnm8P0+bx9pBUg452WbZCPM2cDaFyihrEFtbJDU8Y3aybywclusQKIb4NX5FuZAN9IV6Lk= ubuntu@ip-172-31-23-251
ubuntu@ip-172-31-29-129:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-29-129:~/.ssh$ cd
ubuntu@ip-172-31-29-129:~$ mysql --version
mysql Ver 8.0.35-0ubuntu0.22.04.1 for Linux on x86_64 ((Ubuntu))
ubuntu@ip-172-31-29-129:~$ jdk --version
Command 'jdk' not found, did you mean:
  command 'juk' from snap juk (23.08.3)
  command 'jdb' from deb openjdk-11-jdk-headless (11.0.20.1+1-0ubuntu1~22.04)
  command 'jdb' from deb openjdk-17-jdk-headless (17.0.8.1+1~us1-0ubuntu1~22.04)
  command 'jdb' from deb openjdk-18-jdk-headless (18.0.2+9-2~22.04)
  command 'jdb' from deb openjdk-19-jdk-headless (19.0.2+7-0ubuntu3~22.04)
  command 'jdb' from deb openjdk-8-jdk-headless (8u382-ga-1~22.04.1)
  command 'jd' from deb jdim (0.7.0-1)
  command 'juk' from deb juk (4:21.12.3-0ubuntu1)
See 'snap info <snapname>' for additional versions.
ubuntu@ip-172-31-29-129:~$
i-0f182f1ed7c9bd991 (Slave2)
PublicIPs: 54.234.185.120 PrivateIPs: 172.31.29.129
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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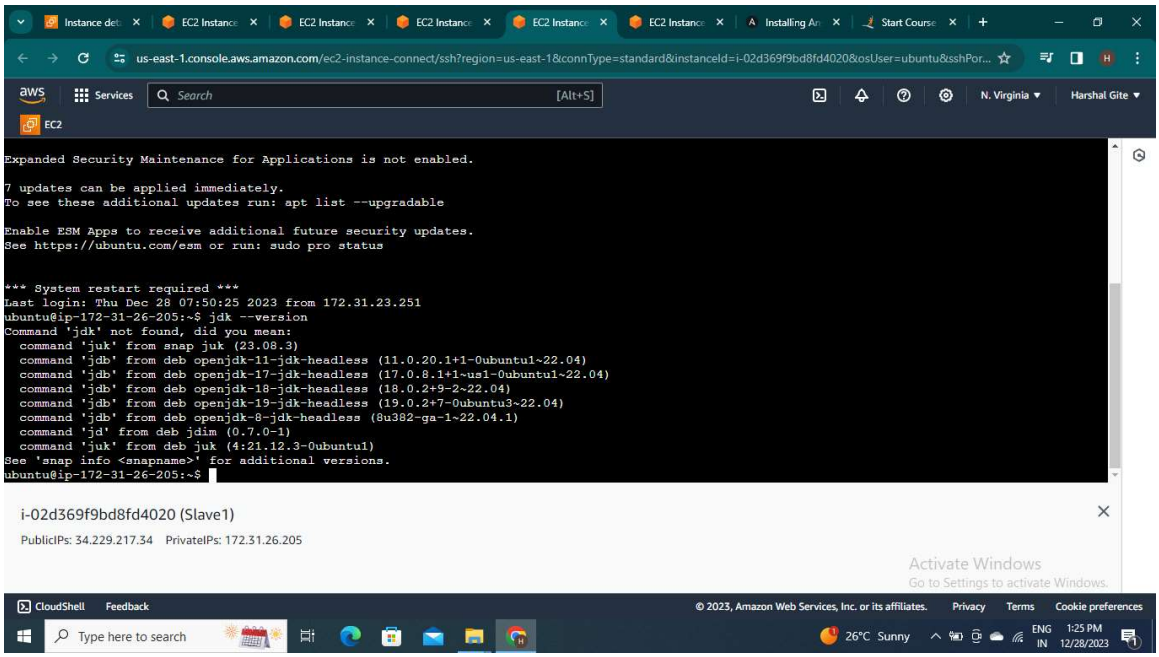
Privacy
Terms
Cookie preferences
Type here to search
26°C Sunny
ENG IN
1:25 PM 12/28/2023


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-02d369f9bd8fd4020&osUser=ubuntu&sshPor...
Expanded Security Maintenance for Applications is not enabled.
7 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
*** System restart required ***
Last login: Thu Dec 28 07:50:25 2023 from 172.31.23.251
ubuntu@ip-172-31-26-205:~$ jdk --version
Command 'jdk' not found, did you mean:
command 'juk' from snap juk (23.08.3)
command 'jdb' from deb openjdk-11-jdk-headless (11.0.20.1+1-0ubuntu1~22.04)
command 'jdb' from deb openjdk-17-jdk-headless (17.0.8.1+1~us1-0ubuntu1~22.04)
command 'jdb' from deb openjdk-18-jdk-headless (18.0.2+9-2~22.04)
command 'jdb' from deb openjdk-19-jdk-headless (19.0.2+7-0ubuntu3~22.04)
command 'jdb' from deb openjdk-8-jdk-headless (8u382-ga-1~22.04.1)
command 'jd' from deb jdim (0.7.0-1)
command 'juk' from deb juk (4:21.12.3-0ubuntu1)
See 'snap info <snapname>' for additional versions.
ubuntu@ip-172-31-26-205:~$
i-02d369f9bd8fd4020 (Slave1)
PublicIPs: 34.229.217.34 PrivateIPs: 172.31.26.205
Activate Windows
Go to Settings to activate Windows.
CloudShell Feedback
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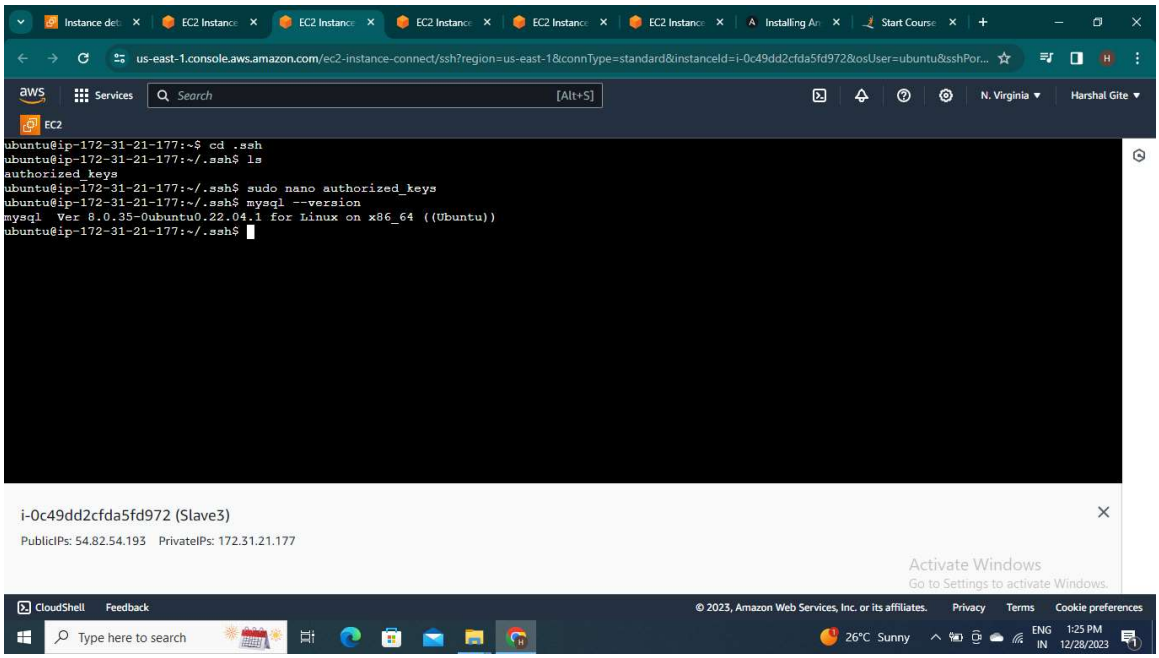
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0c49dd2cfda5fd972&osUser=ubuntu&sshPor...
ubuntu@ip-172-31-21-177:~$ cd .ssh
ubuntu@ip-172-31-21-177:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-21-177:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-21-177:~/.ssh$ mysql --version
mysql Ver 8.0.35-0ubuntu0.22.04.1 for Linux on x86_64 ((Ubuntu))
ubuntu@ip-172-31-21-177:~/.ssh$
i-0c49dd2cfda5fd972 (Slave3)
PublicIPs: 54.82.54.193 PrivateIPs: 172.31.21.177
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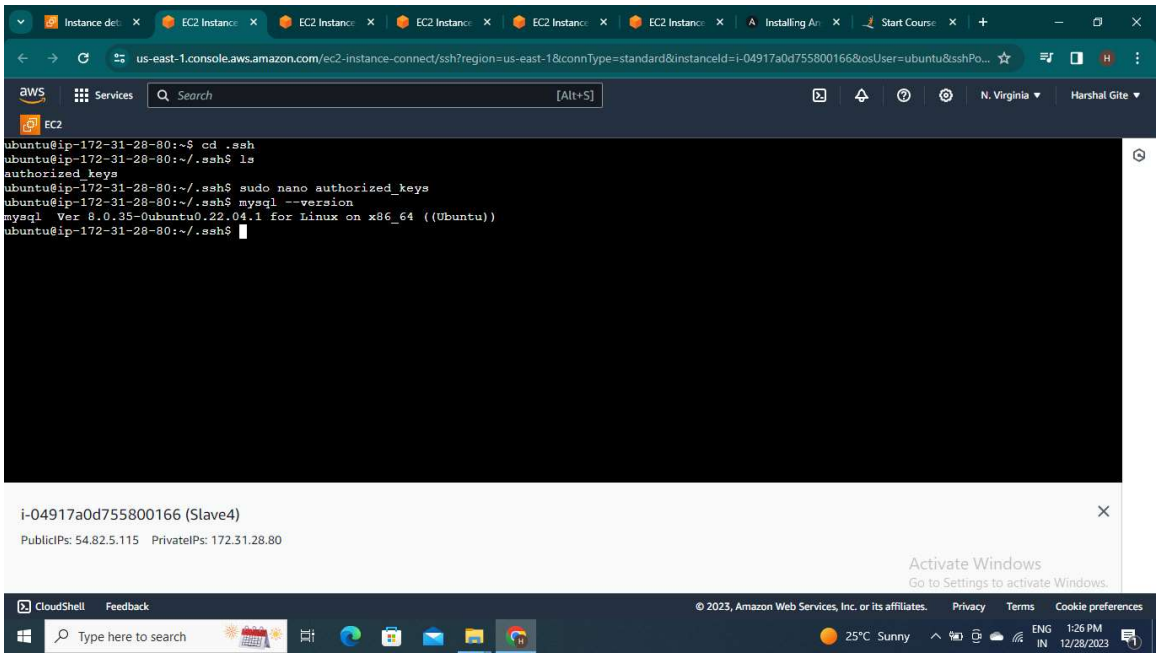
ENG IN 1:25 PM 12/28/2023


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-04917a0d755800166&osUser=ubuntu&sshPo...
Services
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N. Virginia
Harshal Gite
EC2
ubuntu@ip-172-31-28-80:~$ cd .ssh
ubuntu@ip-172-31-28-80:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-28-80:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-28-80:~/.ssh$ mysql --version
mysql Ver 8.0.35-0ubuntu0.22.04.1 for Linux on x86_64 ((Ubuntu))
ubuntu@ip-172-31-28-80:~/.ssh$
i-04917a0d755800166 (Slave4)
PublicIPs: 54.82.5.115 PrivateIPs: 172.31.28.80
Activate Windows
Go to Settings to activate Windows.
CloudShell
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