# Ansible - Assignment 1

Email - harshalgite888@gmail.com

Tasks:

1. Setup Ansible cluster with 3 nodes

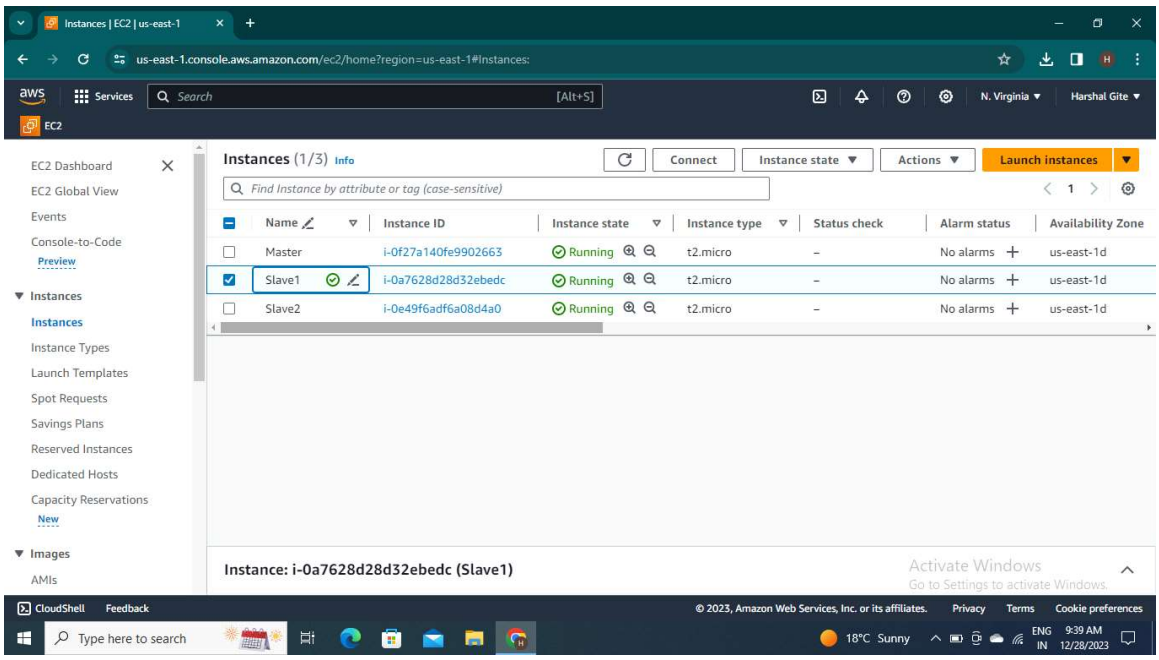
2. On slave1 install java

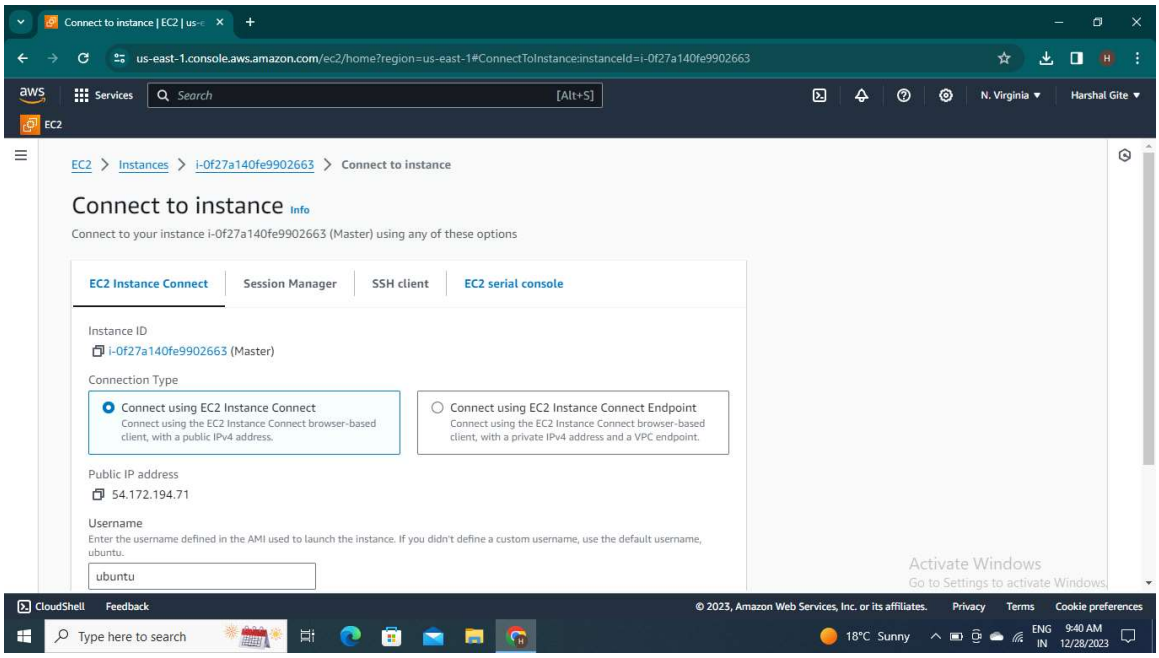
3. On slave 2 install mysql-server

4. Do the above tasks using Ansible playbooks

## Solution:

Steps:




Connect to instance | EC2 | us-e
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0f27a140fe9902663
Services
Search
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Harshal Gite
EC2
EC2 > Instances > i-0f27a140fe9902663 > Connect to instance
Connect to instance Info
Connect to your instance i-0f27a140fe9902663 (Master) using any of these options
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0f27a140fe9902663 (Master)
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
54.172.194.71
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
Activate Windows
Go to Settings to activate Windows.
CloudShell
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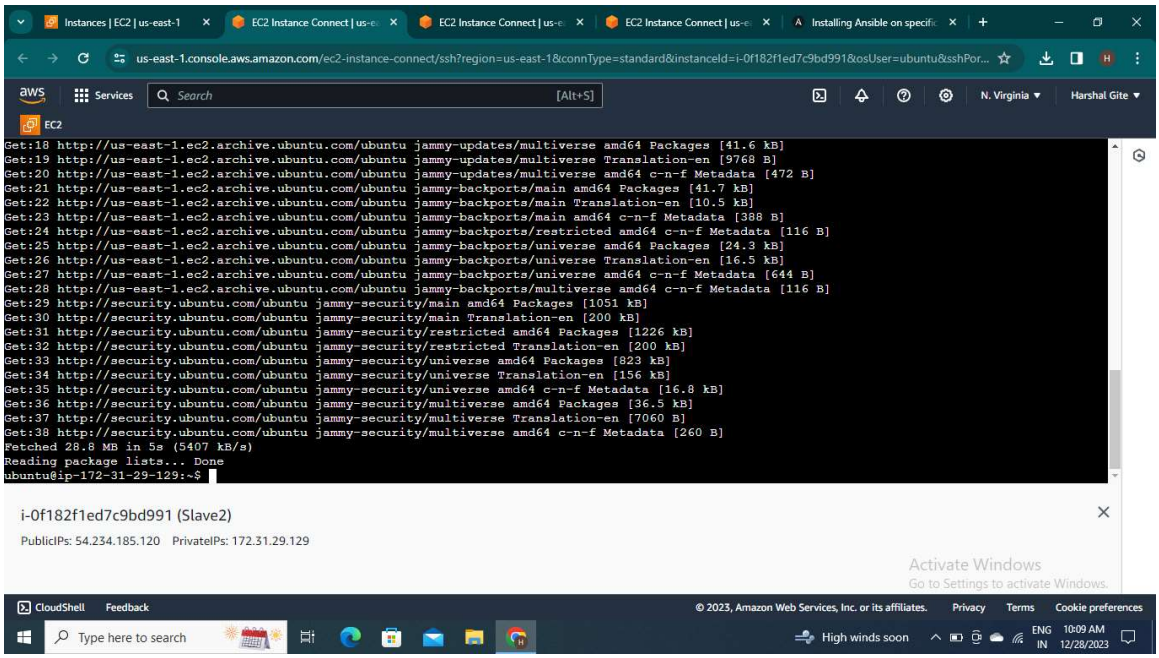
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EC2
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [41.6 kB]
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Fetched 28.8 MB in 5s (5407 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-29-129:~$
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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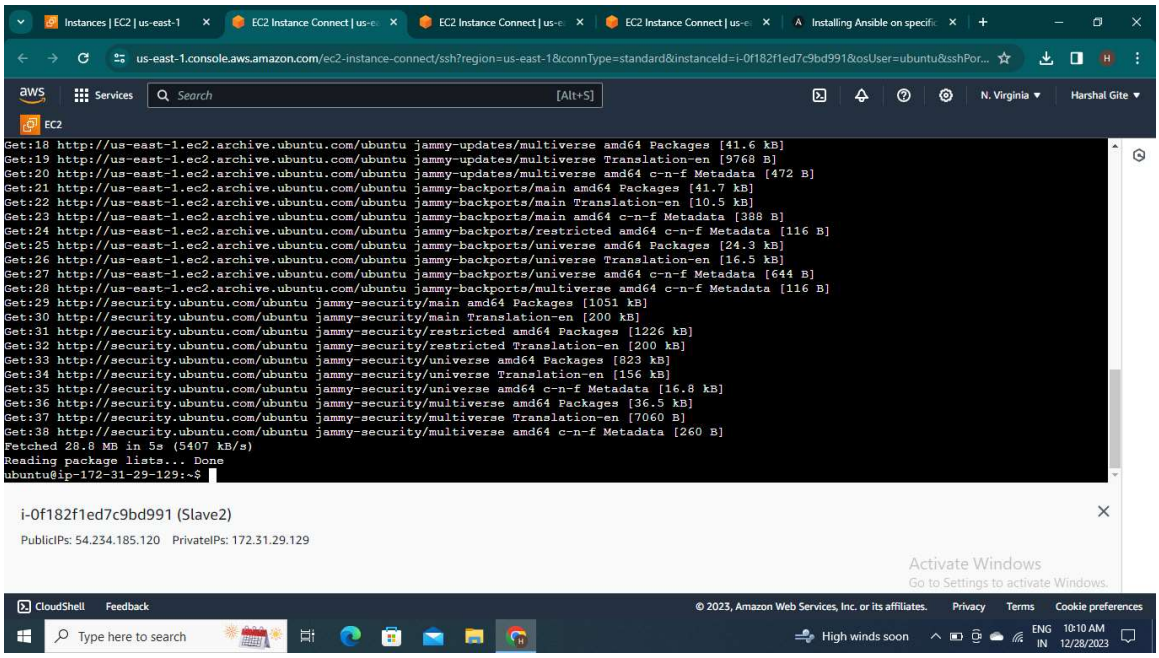
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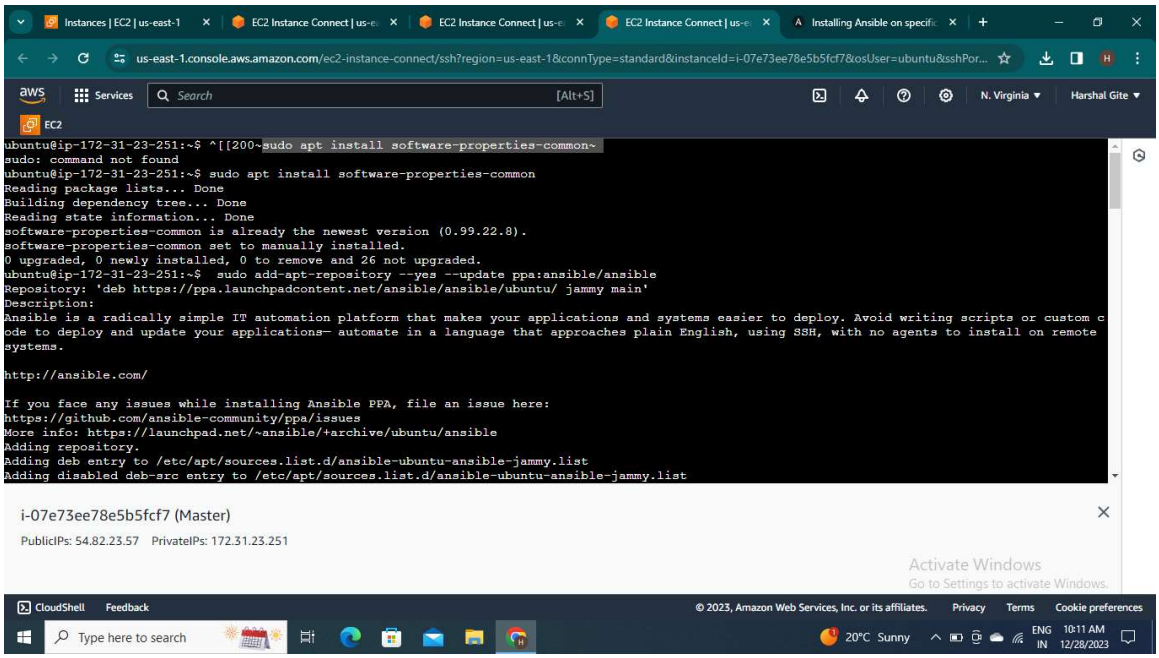
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Services
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EC2
ubuntu@ip-172-31-23-251:~$ ^[[200~sudo apt install software-properties-common~
sudo: command not found
ubuntu@ip-172-31-23-251:~$ sudo apt install software-properties-common
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
software-properties-common is already the newest version (0.99.22.8).
software-properties-common set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 26 not upgraded.
ubuntu@ip-172-31-23-251:~$ sudo add-apt-repository --yes --update ppa:ansible/ansible
Repository: 'deb https://ppa.launchpadcontent.net/ansible/ansible/ubuntu/ jammy main'
Description:
Ansible is a radically simple IT automation platform that makes your applications and systems easier to deploy. Avoid writing scripts or custom c
ode to deploy and update your applications— automate in a language that approaches plain English, using SSH, with no agents to install on remote
systems.
http://ansible.com/
If you face any issues while installing Ansible PPA, file an issue here:
https://github.com/ansible-community/ppa/issues
More info: https://launchpad.net/~ansible/+archive/ubuntu/ansible
Adding repository.
Adding deb entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/ansible-ubuntu-ansible-jammy.list
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251
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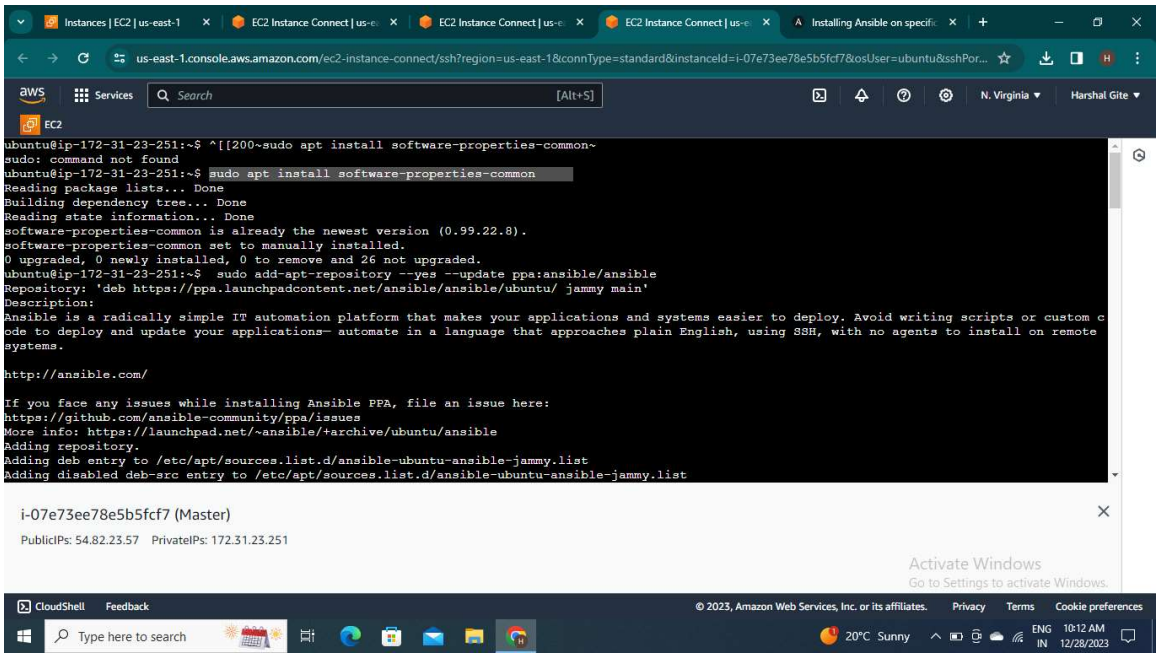
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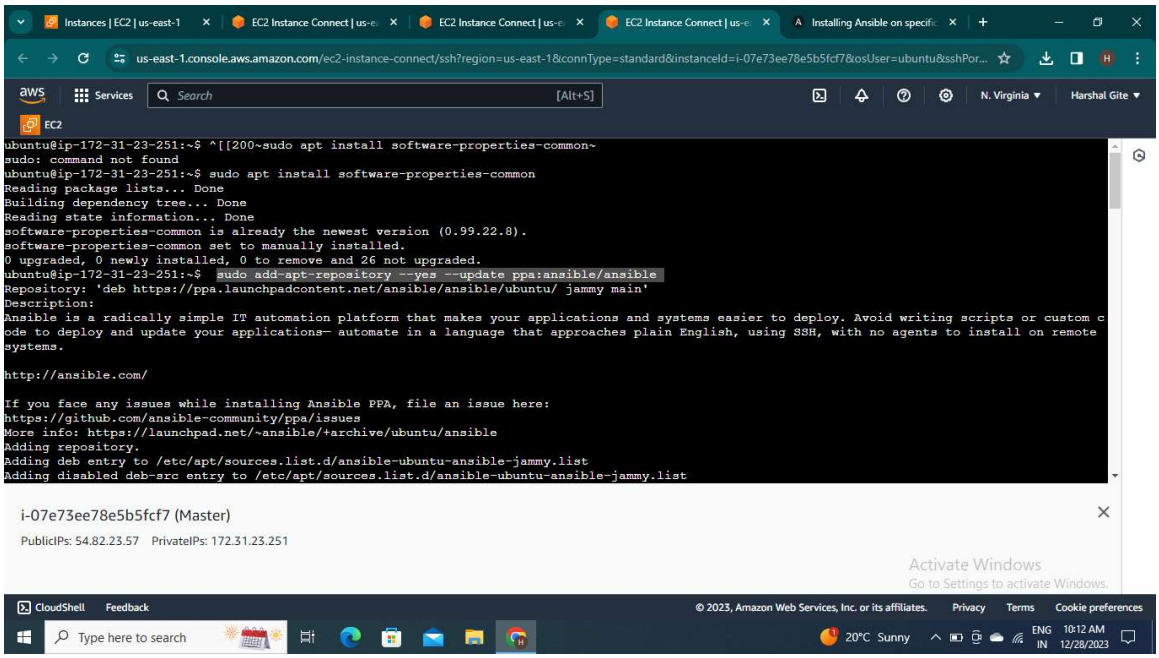
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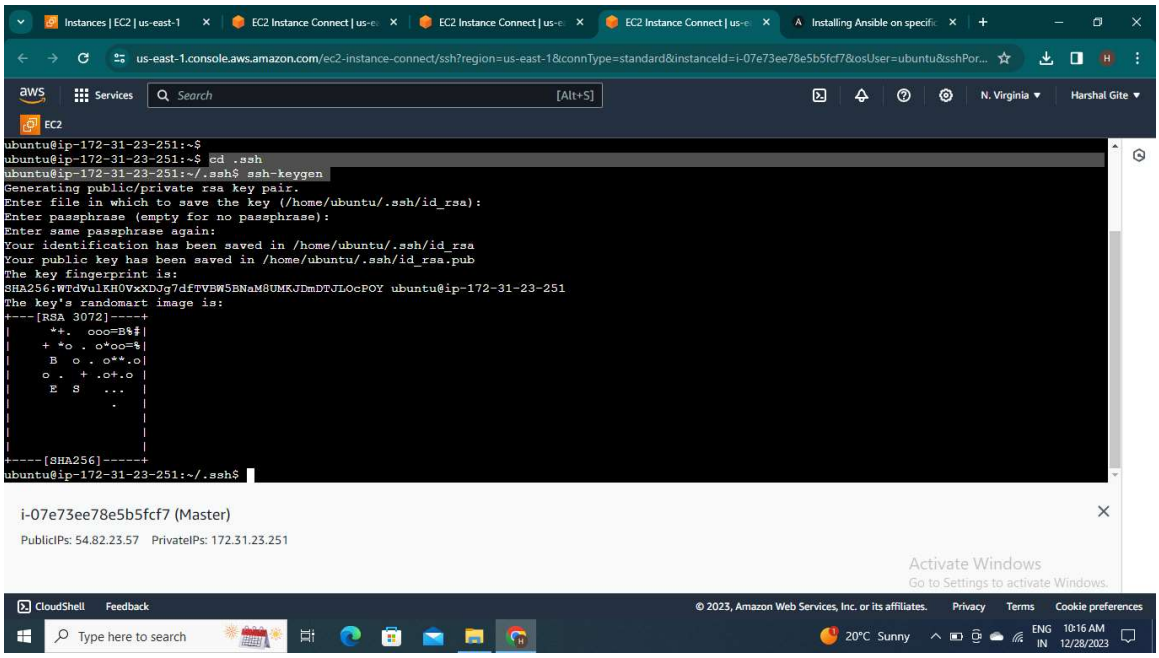
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Services
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EC2
ubuntu@ip-172-31-23-251:~$
ubuntu@ip-172-31-23-251:~$ cd .ssh
ubuntu@ip-172-31-23-251:~/.ssh$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ubuntu/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ubuntu/.ssh/id_rsa
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:WTdVulKH0VxXDJg7dfTVBW5BNaM8UMKJDmDTJLOcPOY ubuntu@ip-172-31-23-251
The key's randomart image is:
+---[RSA 3072]----+
|     *+.  ooo=B%$|
|    + *o . o*oo=%|
|     B  o . o**.o|
|    o .  + .o+.o |
|     E  S   ...  |
|              .  |
|                 |
|                 |
|                 |
+----[SHA256]-----+
ubuntu@ip-172-31-23-251:~/.ssh$
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251
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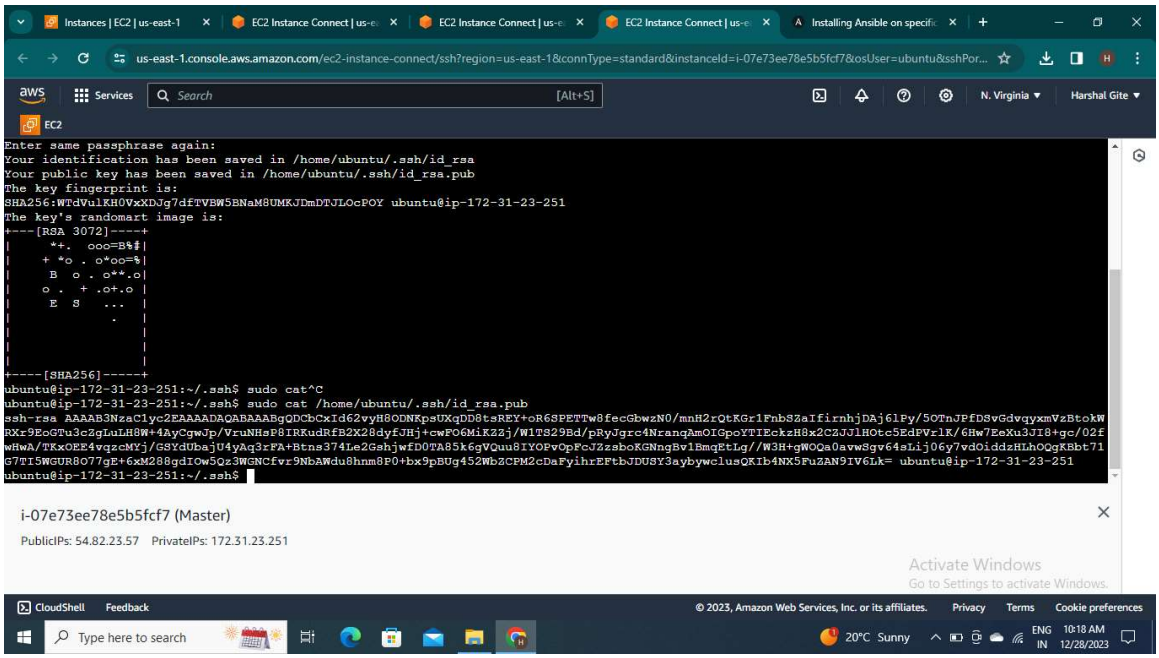
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Services
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EC2
Enter same passphrase again:
Your identification has been saved in /home/ubuntu/.ssh/id_rsa
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:WTdVulKH0VxXDJg7dfTVBW5BNaM8UMKJDmDTJLOcPOY ubuntu@ip-172-31-23-251
The key's randomart image is:
+---[RSA 3072]----+
|     *+.  ooo=B%$|
|    + *o . o*oo=%|
|     B  o . o**.o|
|    o .  + .o+.o |
|     E  S   ...  |
|              .  |
|                 |
|                 |
|                 |
+----[SHA256]-----+
ubuntu@ip-172-31-23-251:~/.ssh$ sudo cat^C
ubuntu@ip-172-31-23-251:~/.ssh$ sudo cat /home/ubuntu/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDCbCxId62vyH8ODNKpsUXqDD8tsREY+oR6SPETTw8fecGbwzN0/mnH2rQtKGr1Fnb3ZaIfirnhjDAj6lPy/5OTnJPfDSvGdvqyxmVzBtokW
RXr9EoGTu3czgLuLH8W+4AyCgwJp/VruNHsP8IRKudRfB2X28dyfJHj+cwFO6MiKZ2j/W1TS29Bd/pRyJgrc4NranqAmOIGpoYTIEckzH8x2C2JJlHOtc5EdPVrlK/6Hw7EeXu3JI8+gc/02f
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ubuntu@ip-172-31-23-251:~/.ssh$
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251
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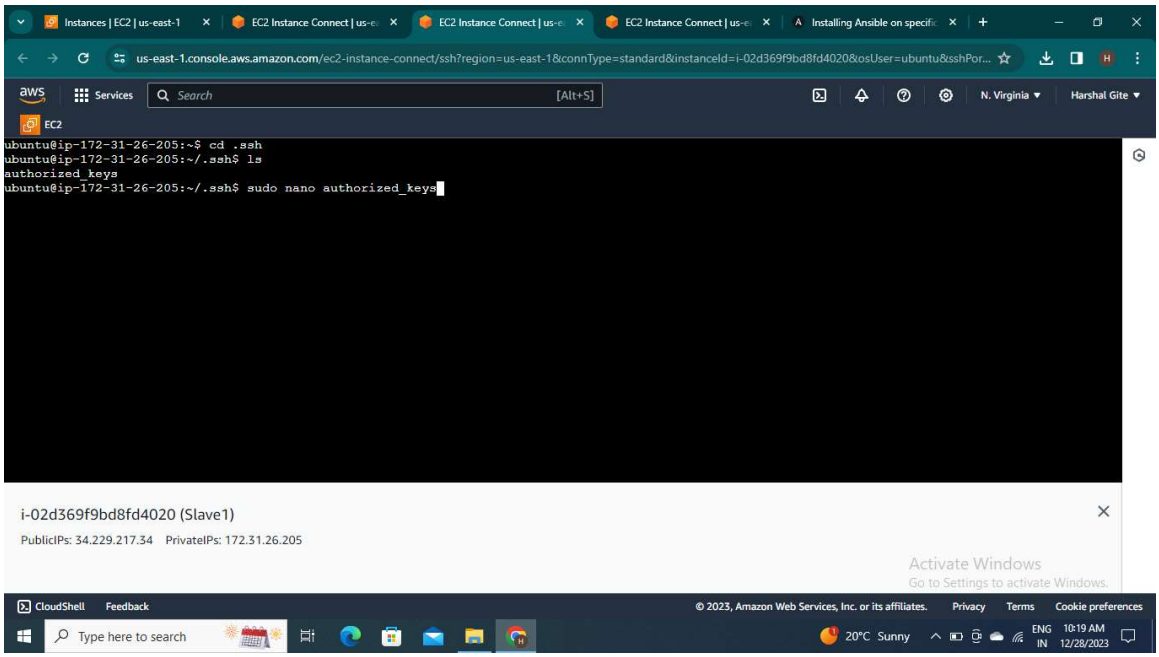
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aws
Services
Search
[Alt+S]
N. Virginia
Harshal Gite
EC2
ubuntu@ip-172-31-26-205:~$ cd .ssh
ubuntu@ip-172-31-26-205:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-26-205:~/.ssh$ sudo nano authorized_keys
i-02d369f9bd8fd4020 (Slave1)
PublicIPs: 34.229.217.34 PrivateIPs: 172.31.26.205
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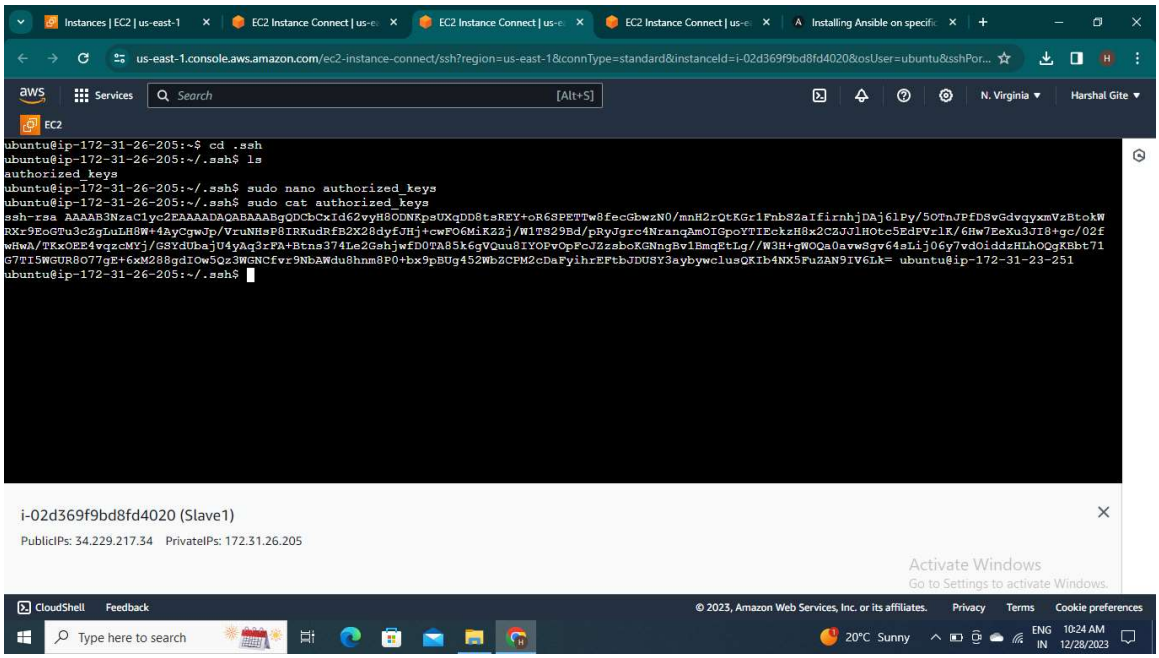
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EC2 Instance Connect | us-e
Installing Ansible on specific
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-02d369f9bd8fd4020&osUser=ubuntu&sshPor...
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EC2
ubuntu@ip-172-31-26-205:~$ cd .ssh
ubuntu@ip-172-31-26-205:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-26-205:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-26-205:~/.ssh$ sudo cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDCbCxId62vyH8ODNKpsUXqDD8tsREY+oR6SPETTw8fecGbwzN0/mnH2rQtKGr1FnbS2aIfirnhjDAj6lPy/5OTnJPfDSvGdvqyxmVzBtokW
RXr9EoGTu3c2gLuLH8W+4AyCqwJp/VruNHsP8IRKudRfB2X28dyfJHj+cwFO6MiKZzj/W1TS29Bd/pRyJgrc4NranqAmOIGpoYTIEckzH8x2CJJlHOtc5EdPVrlK/6Hw7EeXu3JI8+gc/02f
wHwA/TKxOEE4vqzcMYj/GSYdUbajU4yAq3rFA+Btns374Le2GshjwfD0TA85k6gVQuu8IYOPvOpFcJZzsboKGNngBv1BmqEtLg//W3H+gWOQa0avwSgv64sLij06y7vdOiddzHLhOQgKBbt71
G7TI5WGUR8O77gE+6xM288gdIOw5Qz3WGNCfvr9NbAWdu8hnm8P0+bx9pBUg452WbZCPM2cDaFyihrEFtbJDUSY3aybywclusQKIb4NX5FuZAN9IV6Lk= ubuntu@ip-172-31-23-251
ubuntu@ip-172-31-26-205:~/.ssh$
i-02d369f9bd8fd4020 (Slave1)
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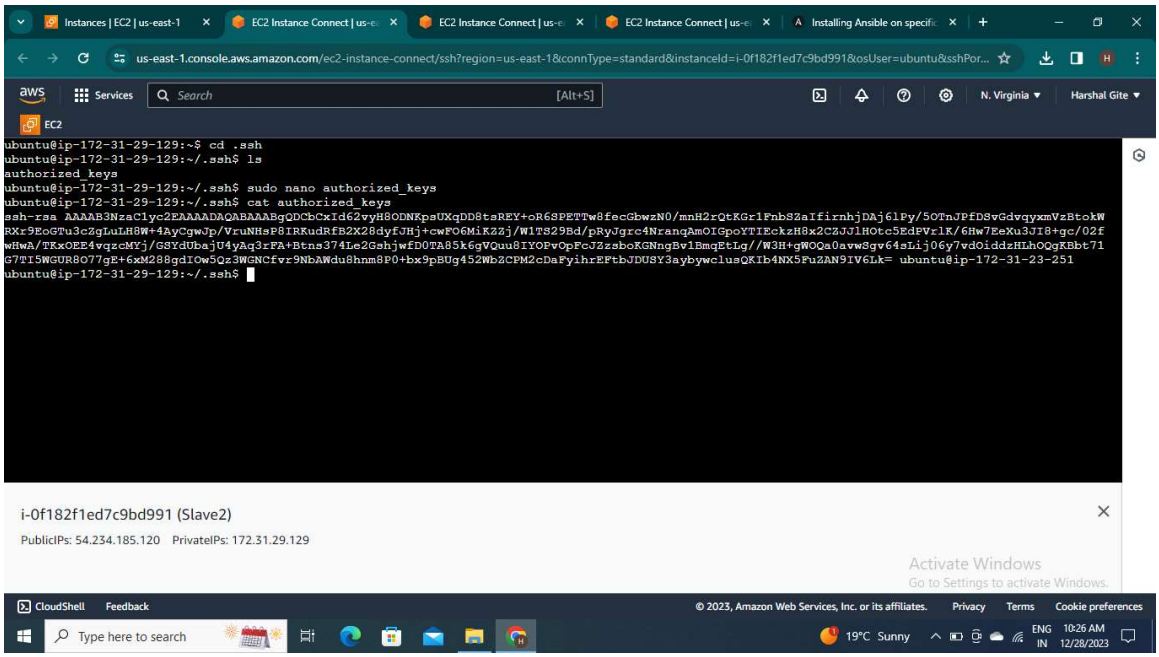
Instances | EC2 | us-east-1
EC2 Instance Connect | us-e
EC2 Instance Connect | us-e
EC2 Instance Connect | us-e
Installing Ansible on specific
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f182f1ed7c9bd991&osUser=ubuntu&sshPor...
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EC2
ubuntu@ip-172-31-29-129:~$ cd .ssh
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/5OTnJPfDSvGdvqyxmVzBtokW
RXr9EoGTu3cZgLuLH8W+4AyCgwJp/VruNHsP8IRKudRfB2X28dyfJHj+cwFO6MiKZ2j/W1TS29Bd/pRyJgrc4NranqAmOIGpoYTIEckzH8x2CAJJlHOtc5EdPVrlK/6Hw7EeXu3JI8+gc/02f
wHwA/TKxOEE4vqzcMYj/G8YdUbajU4yAq3rFA+Btns374Le2GshjwfD0TA85k6gVQuu8IYOPvOpFcJ2zzboKGNngBv1BmqEtLg//W3H+gWOQa0avw8gv64sLij06y7vdOiddzHIhOQgKBbt71
G7TI5WGUR8O77gE+6xM288gdIOw5Qz3WGNCfvr9NbAWdu8hnm8P0+bx9pBUg452WbZCPM2cDaFyihrEFtbJDUSY3aybywclusQKIb4NX5FuZAN9IV6Lk= ubuntu@ip-172-31-23-251
ubuntu@ip-172-31-29-129:~/.ssh$
i-0f182f1ed7c9bd991 (Slave2)
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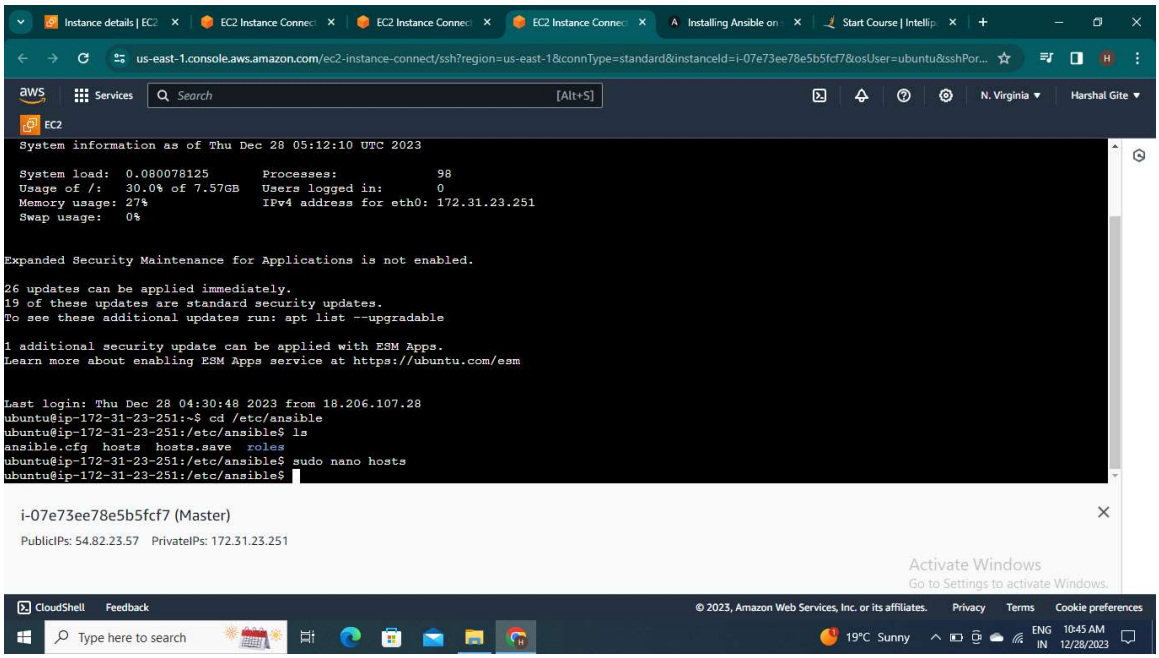
Instance details | EC2
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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EC2
System information as of Thu Dec 28 05:12:10 UTC 2023
System load: 0.080078125 Processes: 98
Usage of /: 30.0% of 7.57GB Users logged in: 0
Memory usage: 27% IPv4 address for eth0: 172.31.23.251
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
26 updates can be applied immediately.
19 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
1 additional security update can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm
Last login: Thu Dec 28 04:30:48 2023 from 18.206.107.28
ubuntu@ip-172-31-23-251:~$ cd /etc/ansible
ubuntu@ip-172-31-23-251:/etc/ansible$ ls
ansible.cfg hosts hosts.save roles
ubuntu@ip-172-31-23-251:/etc/ansible$ sudo nano hosts
ubuntu@ip-172-31-23-251:/etc/ansible$
i-07e73ee78e5b5fcf7 (Master)
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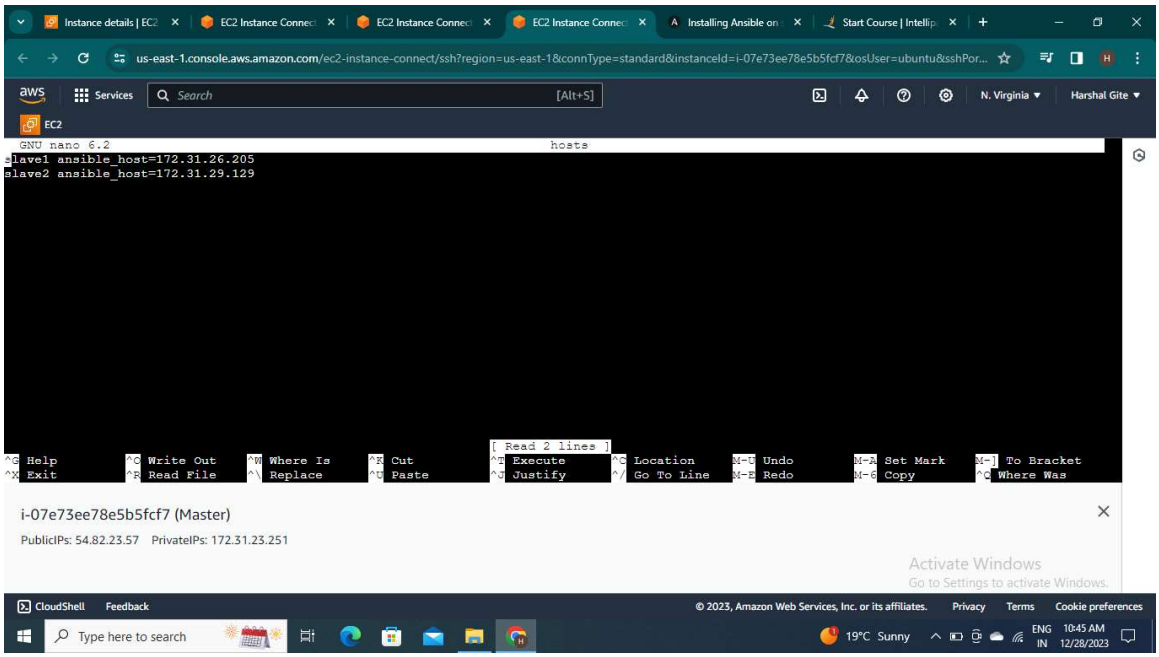
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EC2 Instance Connect
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
aws
Services
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N. Virginia
Harshal Gite
EC2
GNU nano 6.2
hosts
slave1 ansible_host=172.31.26.205
slave2 ansible_host=172.31.29.129
[ Read 2 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)
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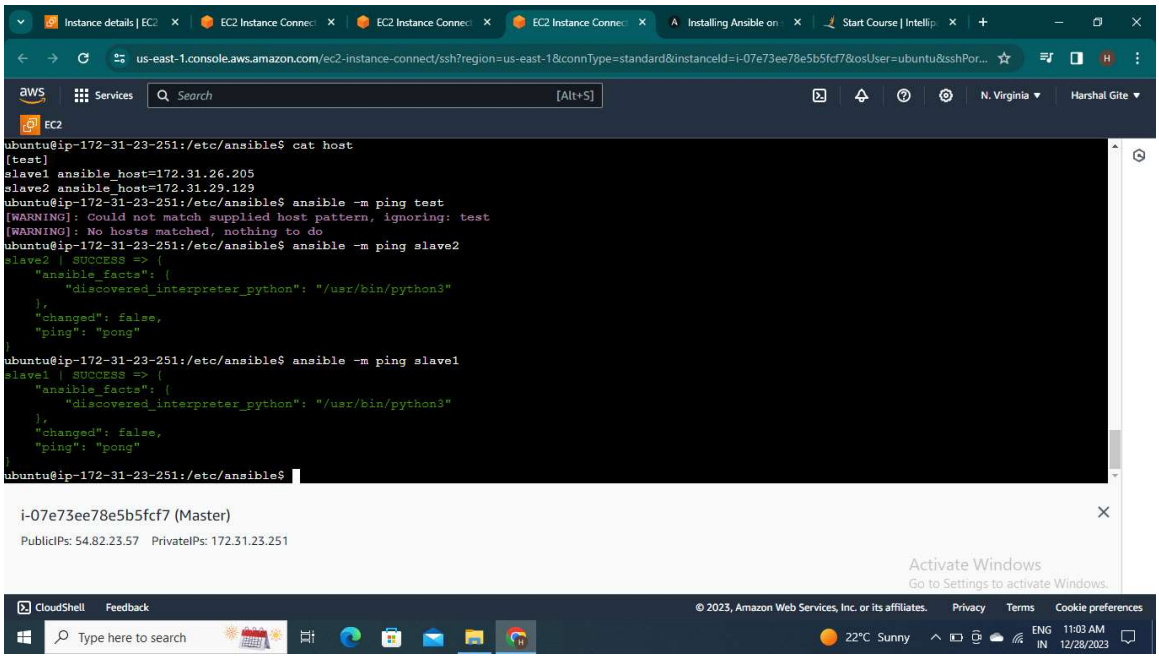
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EC2 Instance Connect
Installing Ansible on
Start Course | Intellip
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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EC2
ubuntu@ip-172-31-23-251:/etc/ansible$ cat host
[test]
slave1 ansible_host=172.31.26.205
slave2 ansible_host=172.31.29.129
ubuntu@ip-172-31-23-251:/etc/ansible$ ansible -m ping test
[WARNING]: Could not match supplied host pattern, ignoring: test
[WARNING]: No hosts matched, nothing to do
ubuntu@ip-172-31-23-251:/etc/ansible$ ansible -m ping slave2
slave2 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
ubuntu@ip-172-31-23-251:/etc/ansible$ ansible -m ping slave1
slave1 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
ubuntu@ip-172-31-23-251:/etc/ansible$
i-07e73ee78e5b5fcf7 (Master)
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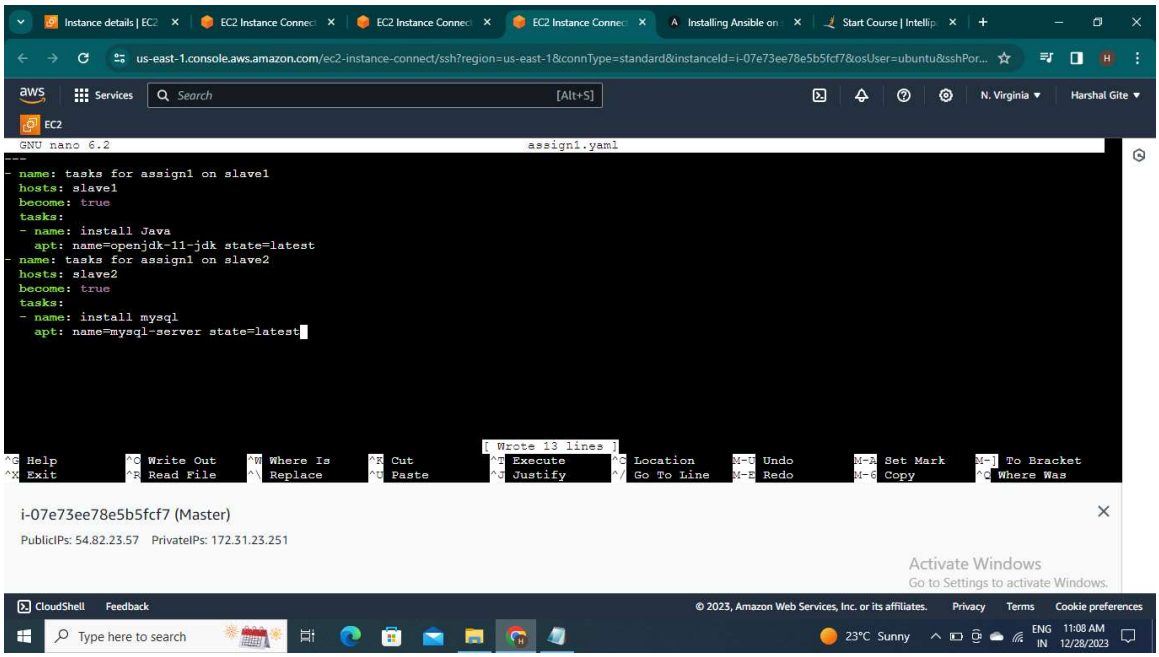
Instance details | EC2
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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EC2
GNU nano 6.2
assign1.yaml
---
- name: tasks for assign1 on slave1
hosts: slave1
become: true
tasks:
- name: install Java
apt: name=openjdk-11-jdk state=latest
- name: tasks for assign1 on slave2
hosts: slave2
become: true
tasks:
- name: install mysql
apt: name=mysql-server state=latest
[ Wrote 13 lines ]
^G Help
^O Write Out
^W Where Is
^K Cut
^T Execute
^C Location
M-U Undo
M-A Set Mark
M-] To Bracket
^X Exit
^R Read File
^\ Replace
^U Paste
^J Justify
^/ Go To Line
M-E Redo
M-6 Copy
^Q Where Was
i-07e73ee78e5b5fcf7 (Master)
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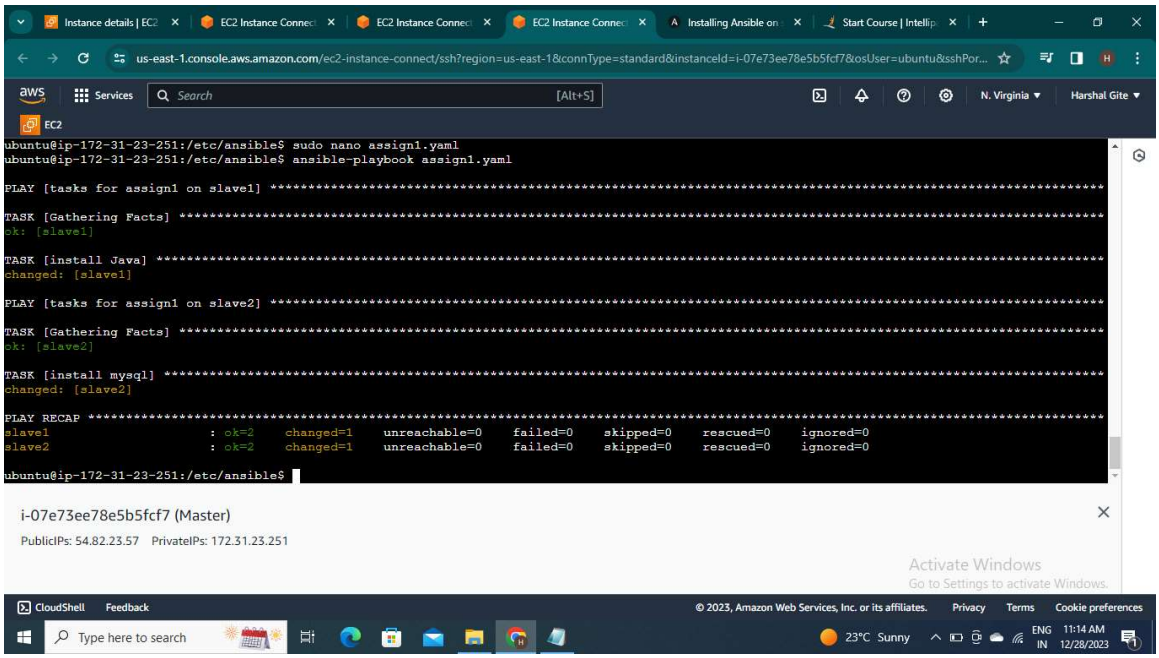
Instance details | EC2
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EC2 Instance Connect
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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EC2
ubuntu@ip-172-31-23-251:/etc/ansible$ sudo nano assign1.yaml
ubuntu@ip-172-31-23-251:/etc/ansible$ ansible-playbook assign1.yaml
PLAY [tasks for assign1 on slave1] ****
TASK [Gathering Facts] ****
ok: [slave1]
TASK [install Java] ****
changed: [slave1]
PLAY [tasks for assign1 on slave2] ****
TASK [Gathering Facts] ****
ok: [slave2]
TASK [install mysql] ****
changed: [slave2]
PLAY RECAP ****
slave1 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
slave2 : ok=2 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
ubuntu@ip-172-31-23-251:/etc/ansible$
i-07e73ee78e5b5fcf7 (Master)
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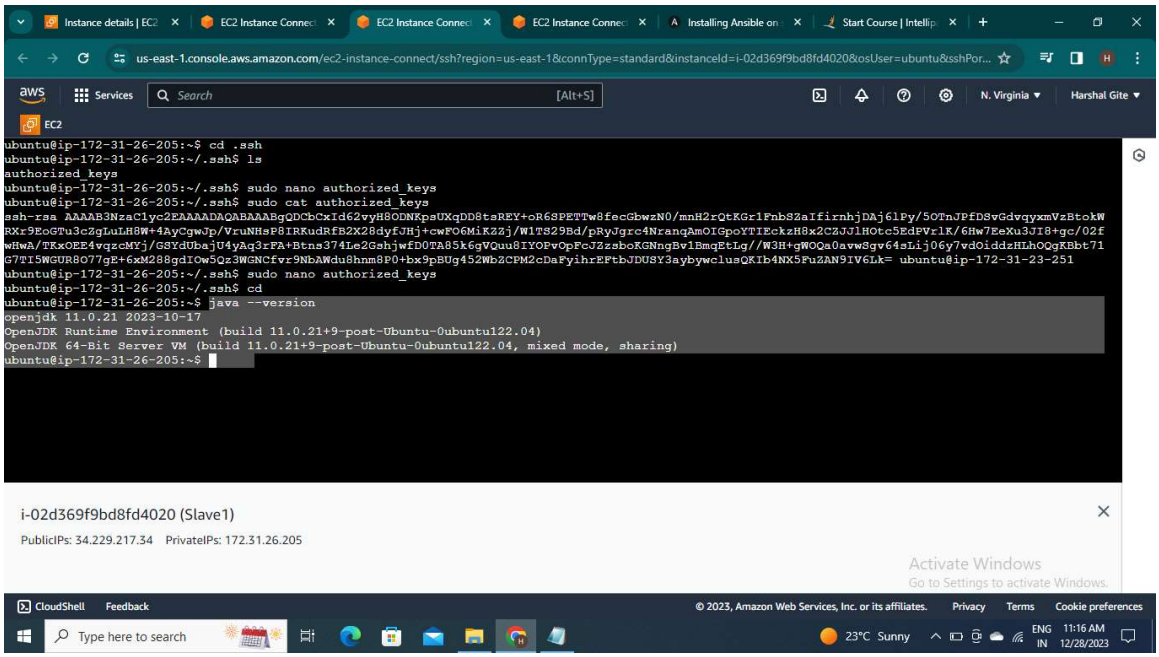
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-02d369f9bd8fd4020&osUser=ubuntu&sshPor...
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EC2
ubuntu@ip-172-31-26-205:~$ cd .ssh
ubuntu@ip-172-31-26-205:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-26-205:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-26-205:~/.ssh$ sudo cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDCbCxId62vyH8ODNKpsUXqDD8tsREY+oR6SPETTw8fecGbwzN0/mnH2rQtKGr1FnbS2aIfirnhjDAj6lPy/5OTnJPfDSvGdvqyxmVzBtokW
RXr9EoGTu3cZgLuLH8W+4AyCgwJp/VruNHsP8IRKudRfB2X28dyfJHj+cwFO6MiKZzj/W1TS29Bd/pRyJgrc4NranqAmOIGpoYTIEckzH8x2C2JJlHOtc5EdPVrlK/6Hw7EeXu3JI8+gc/02f
wHwA/TKxOEE4vqzcMYj/G8YdUbajU4yAq3rFA+Btns374Le2GshjwfD0TA85k6gVQuu8IYOPvOpPcJ2zsboKGNngBv1BmqEtLg//W3H+gWOQa0avw8gv64sLij06y7vdOiddzHLhOQgKBbt71
G7Tt5WGUR8O77gE+6xM288gdIOw5Qz3WGNCfvr9NbAWdu8hnm8PO+bx9pBUg452WbZCPM2cDaFyihrEFtbJDUSY3aybywclusQKIb4NX5FuZAN9IV6Lk= ubuntu@ip-172-31-23-251
ubuntu@ip-172-31-26-205:~/.ssh$ sudo nano authorized_keys
ubuntu@ip-172-31-26-205:~/.ssh$ cd
ubuntu@ip-172-31-26-205:~$ java --version
openjdk 11.0.21 2023-10-17
OpenJDK Runtime Environment (build 11.0.21+9-post-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.21+9-post-Ubuntu-0ubuntu122.04, mixed mode, sharing)
ubuntu@ip-172-31-26-205:~$
i-02d369f9bd8fd4020 (Slave1)
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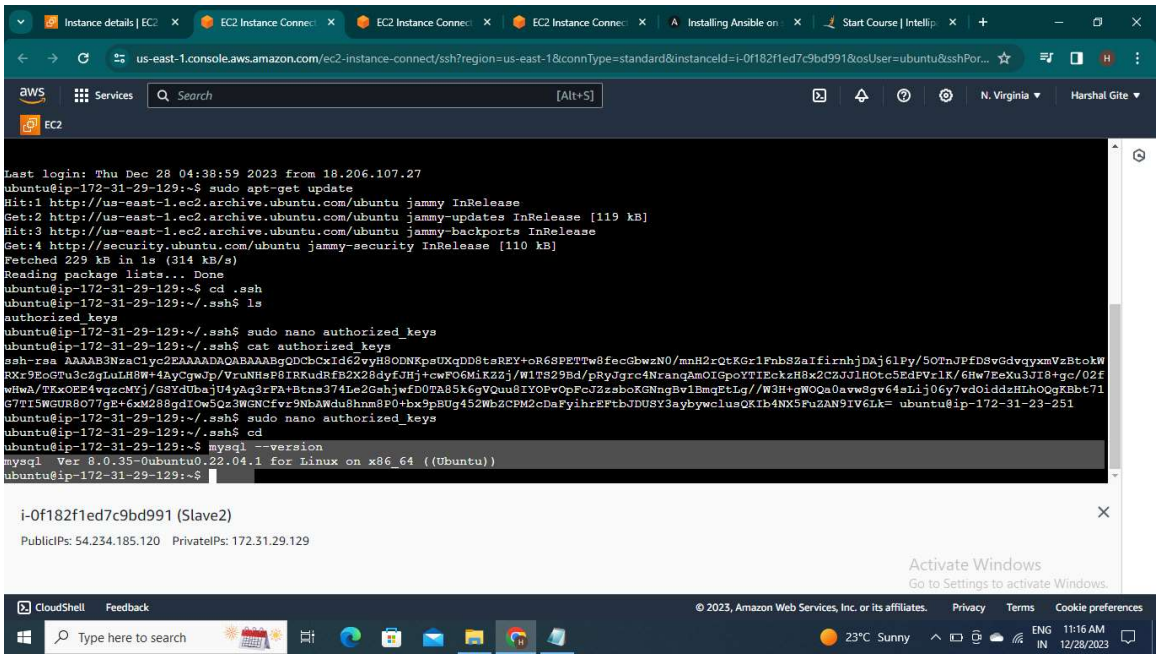
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EC2 Instance Connect
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EC2 Instance Connect
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f182f1ed7c9bd991&osUser=ubuntu&sshPor...
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EC2
Last login: Thu Dec 28 04:38:59 2023 from 18.206.107.27
ubuntu@ip-172-31-29-129:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Fetched 229 kB in 1s (314 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-29-129:~$ cd .ssh
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/5OTnJPfDSvGdvqyxmVzBtokW
RXr9EoGTu3cZgLuLH8W+4AyCgwJp/VruNHsP8IRKudRfB2X28dyfJHj+cwFO6MiKZzj/W1TS29Bd/pRyJgrc4NranqAmOIGpoYTIEckzH8x2C2JJlHOtc5EdPVrlK/6Hw7EeXu3JI8+gc/02f
wHwA/TKxOEE4vqzcMYj/G8YdUbajU4yAq3rFA+Btns374Le2GshjwfD0TA85k6gVQuu8IYOPvOpPcJ2zsboKGNngBv1BmqEtLg//W3H+gWOQa0avw8gv64sLij06y7vdOiddzHLhOQgKBbt71
G7Tt5WGUR8O77gE+6xM288gdIOw5Qz3WGNCfvr9NbAWdu8hnm8PO+bx9pBUg452WbZCPM2cDaFyihrEFtbJDUSY3aybywclusQKIb4NX5FuZAN9IV6Lk= 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:~$
i-0f182f1ed7c9bd991 (Slave2)
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