Ansible - Assignment 3

Email - harshalgite888@gmail.com

Tasks:

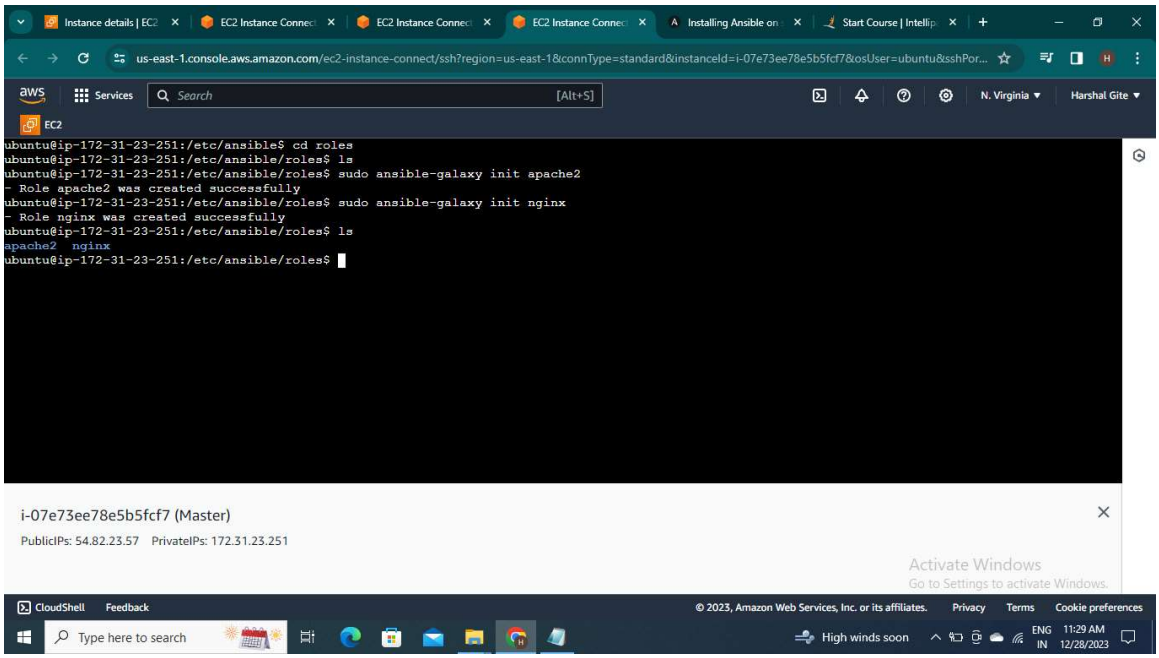
1. Create 2 Ansible Roles

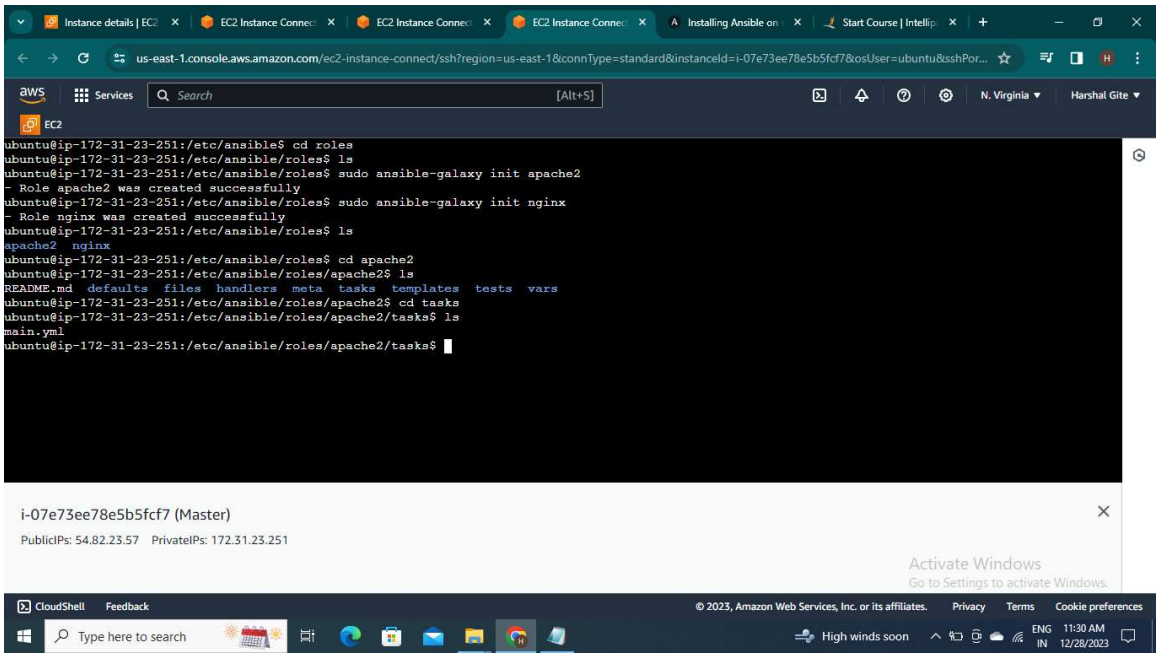
2. Install apache2 on slave1 using one role and nginx on slave2 using the other role

Above should be implemented using different Ansible Roles

Solution:

Steps:




Instance details | EC2
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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Services
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EC2
ubuntu@ip-172-31-23-251:/etc/ansible$ cd roles
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ ls
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ sudo ansible-galaxy init apache2
- Role apache2 was created successfully
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ sudo ansible-galaxy init nginx
- Role nginx was created successfully
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ ls
apache2 nginx
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd apache2
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2$ ls
README.md defaults files handlers meta tasks templates tests vars
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2$ cd tasks
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ ls
main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$
i-07e73ee78e5b5fcf7 (Master)
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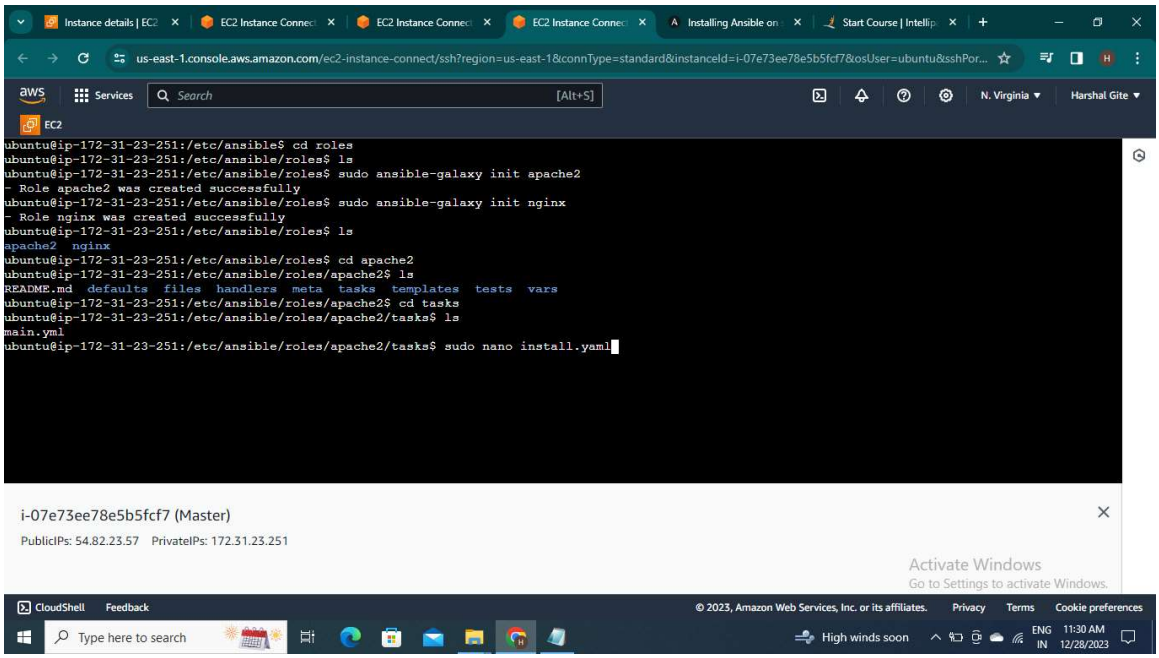
Instance details | EC2
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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apache2 nginx
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main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ sudo nano install.yaml
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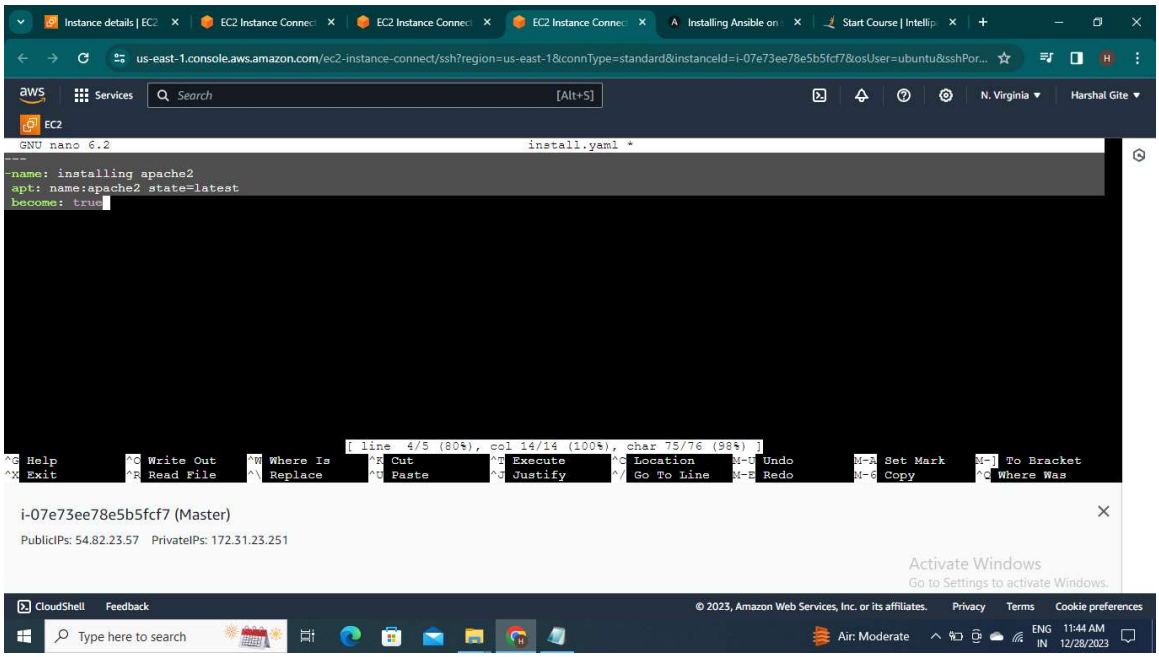
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
aws
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EC2
GNU nano 6.2
install.yaml *

-name: installing apache2
apt: name:apache2 state=latest
become: true
[line 4/5 (80%), col 14/14 (100%), char 75/76 (98%)]
^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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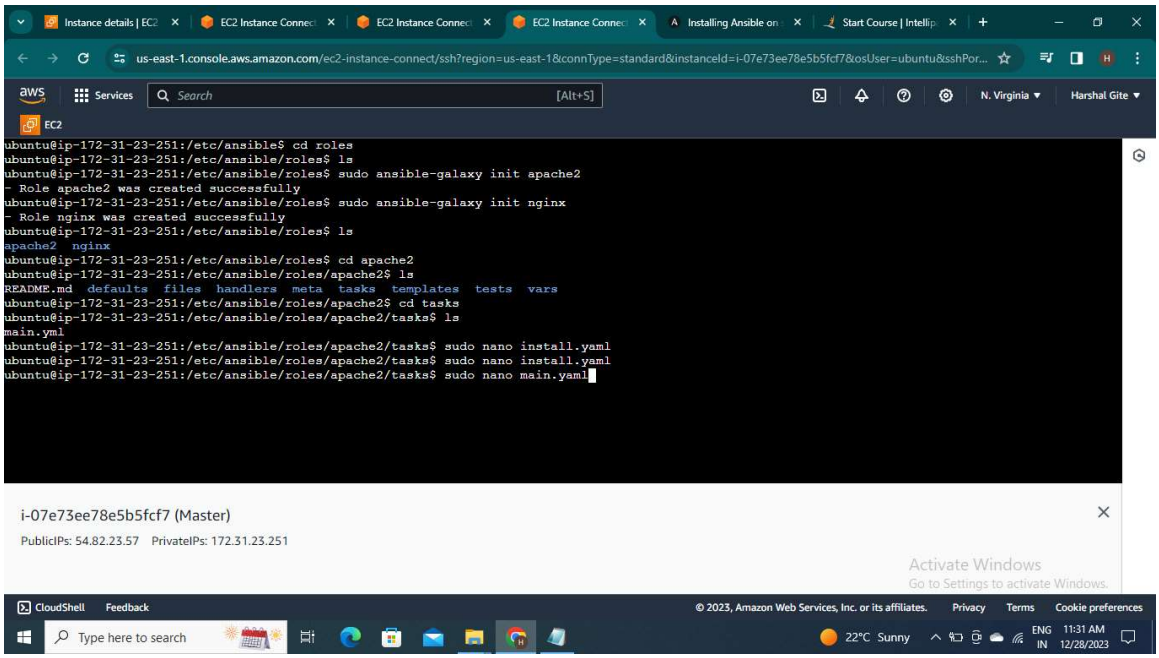
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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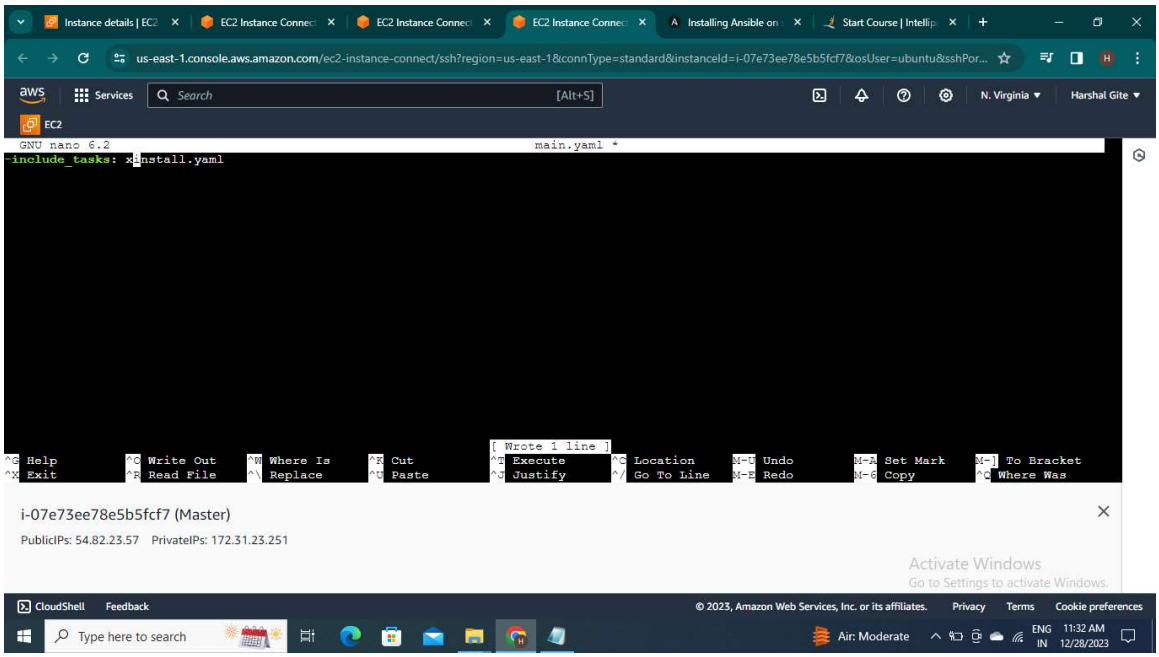
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Harshal Gite
EC2
GNU nano 6.2
main.yaml *
-include_tasks: >install.yaml
[Wrote 1 line]
^G Help
^O Write Out
^W Where Is
^K Cut
^T Execute
^C Location
M-U Undo
M-A Set Mark
M-] To Bracket
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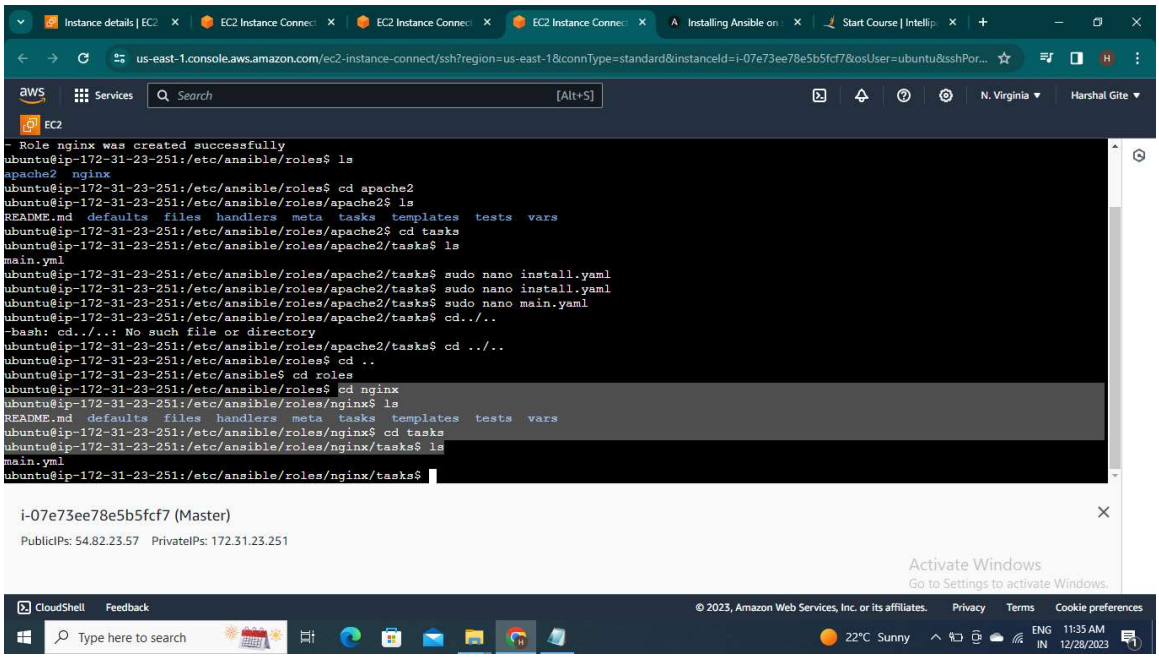
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ sudo nano main.yaml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ cd../..
-bash: cd../..: No such file or directory
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ cd ../..
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd ..
ubuntu@ip-172-31-23-251:/etc/ansible$ cd roles
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd nginx
ubuntu@ip-172-31-23-251:/etc/ansible/roles/nginx$ ls
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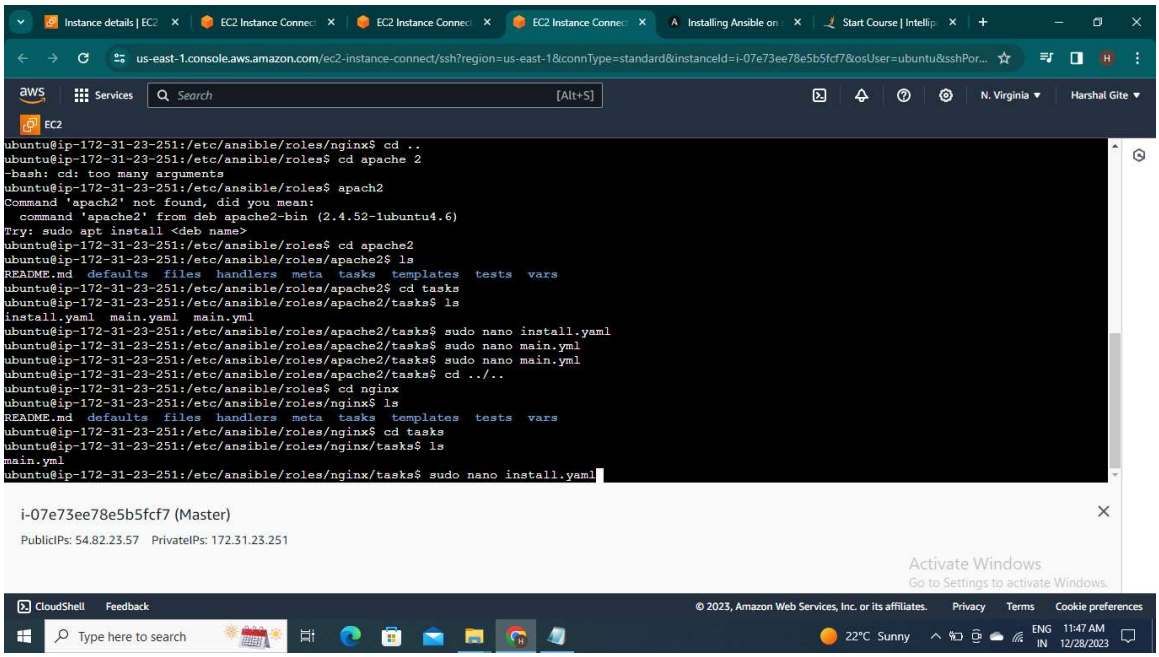
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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EC2
ubuntu@ip-172-31-23-251:/etc/ansible/roles/nginx$ cd ..
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd apache 2
-bash: cd: too many arguments
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ apach2
Command 'apach2' not found, did you mean:
command 'apache2' from deb apache2-bin (2.4.52-1ubuntu4.6)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd apache2
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2$ ls
README.md defaults files handlers meta tasks templates tests vars
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2$ cd tasks
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ ls
install.yaml main.yaml main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ sudo nano install.yaml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ sudo nano main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ sudo nano main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ cd ../..
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd nginx
ubuntu@ip-172-31-23-251:/etc/ansible/roles/nginx$ ls
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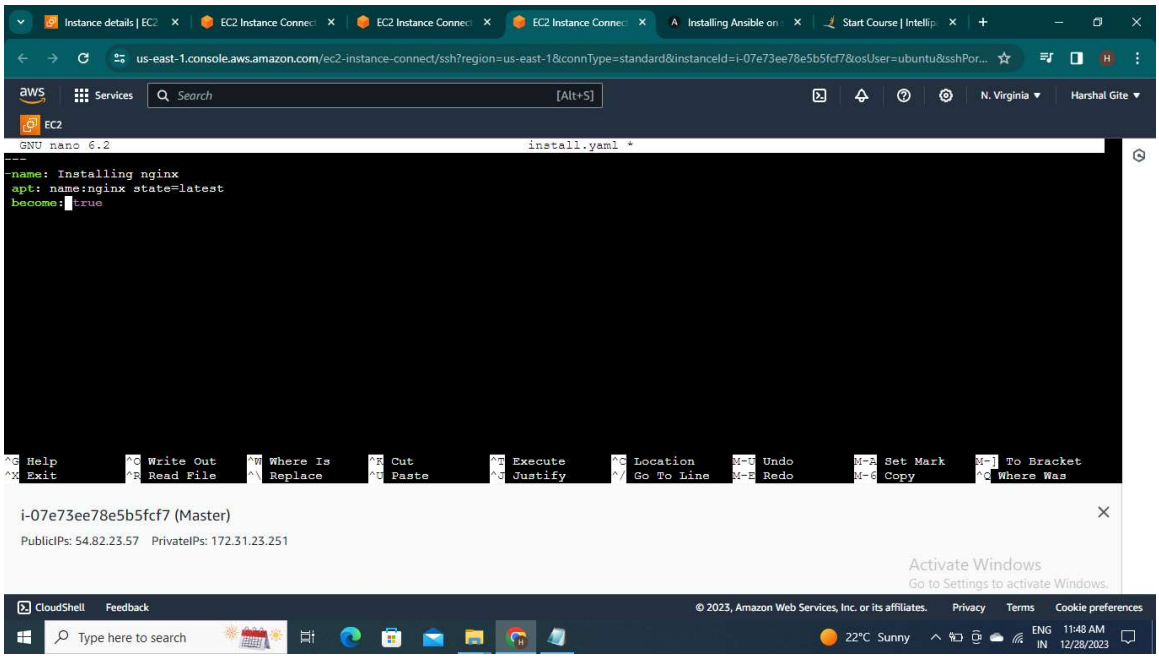
Instance details | EC2
EC2 Instance Connect
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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EC2
GNU nano 6.2 install.yaml *

-name: Installing nginx
apt: name:nginx state=latest
become:true
^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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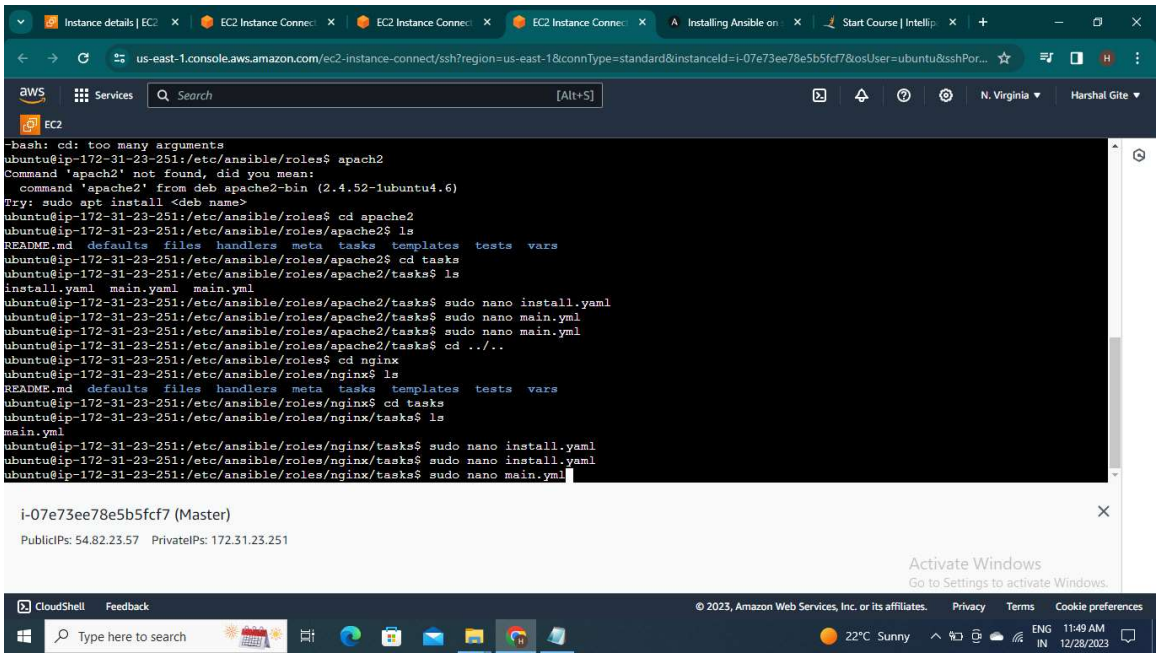
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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ubuntu@ip-172-31-23-251:/etc/ansible/roles$ apach2
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ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2$ ls
README.md defaults files handlers meta tasks templates tests vars
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2$ cd tasks
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install.yaml main.yaml main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ sudo nano install.yaml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ sudo nano main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ sudo nano main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/apache2/tasks$ cd ../..
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd nginx
ubuntu@ip-172-31-23-251:/etc/ansible/roles/nginx$ ls
README.md defaults files handlers meta tasks templates tests vars
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main.yml
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i-07e73ee78e5b5fcf7 (Master)
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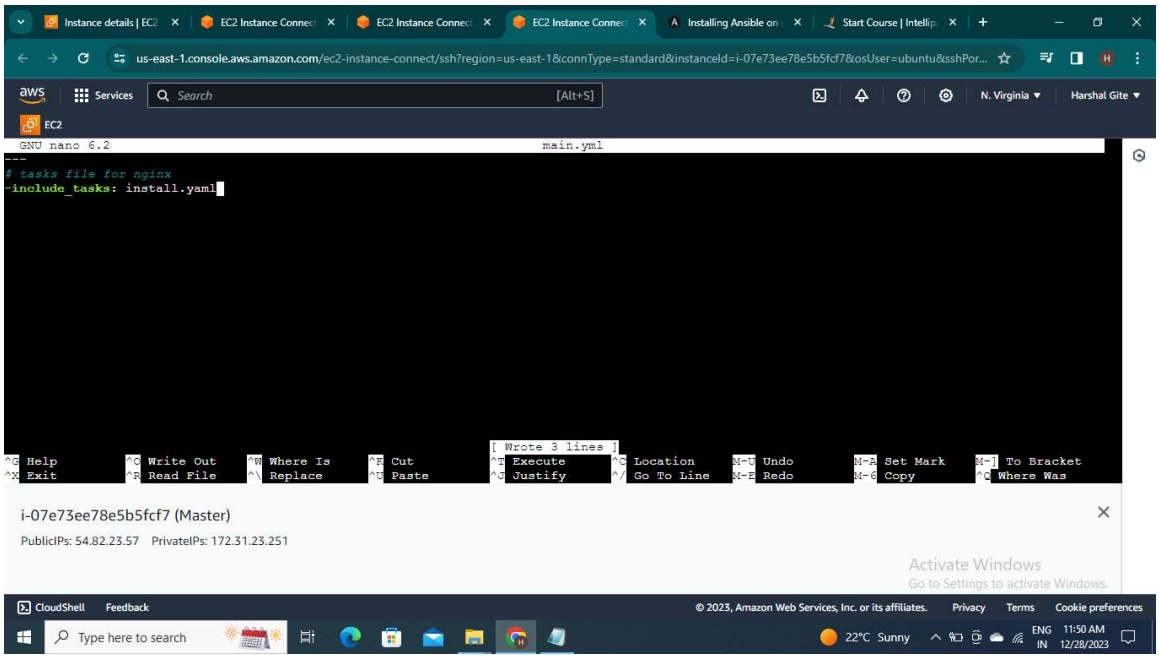
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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EC2
GNU nano 6.2 main.yml
---
tasks file for nginx
-include_tasks: install.yaml
[Wrote 3 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
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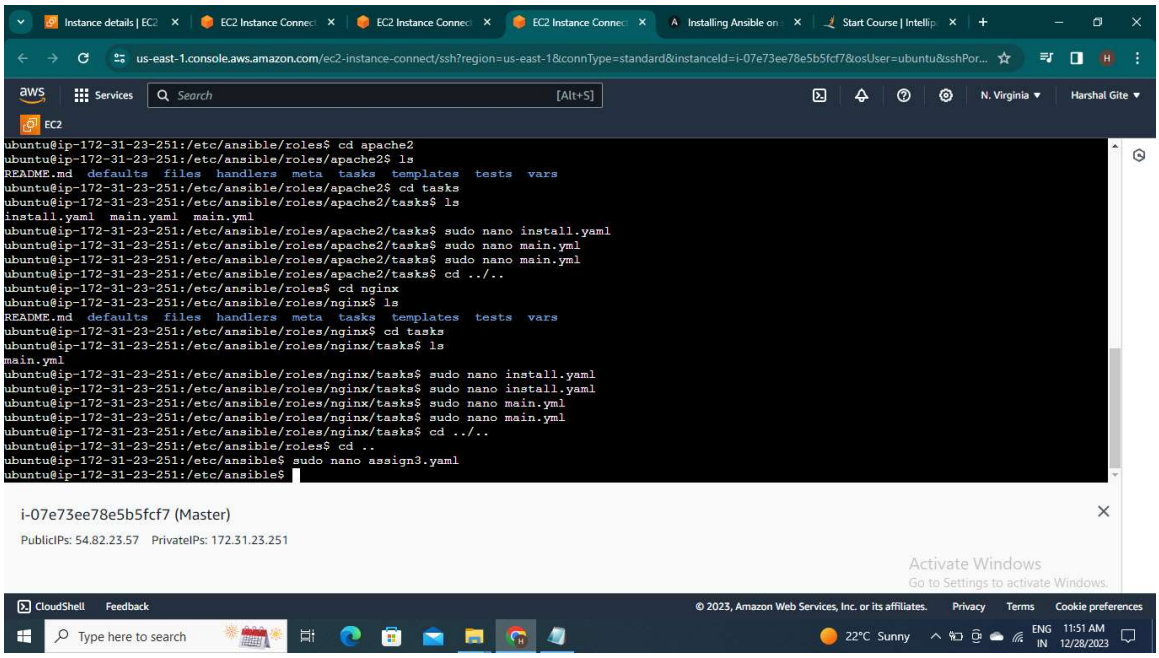
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us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-07e73ee78e5b5fcf7&osUser=ubuntu&sshPor...
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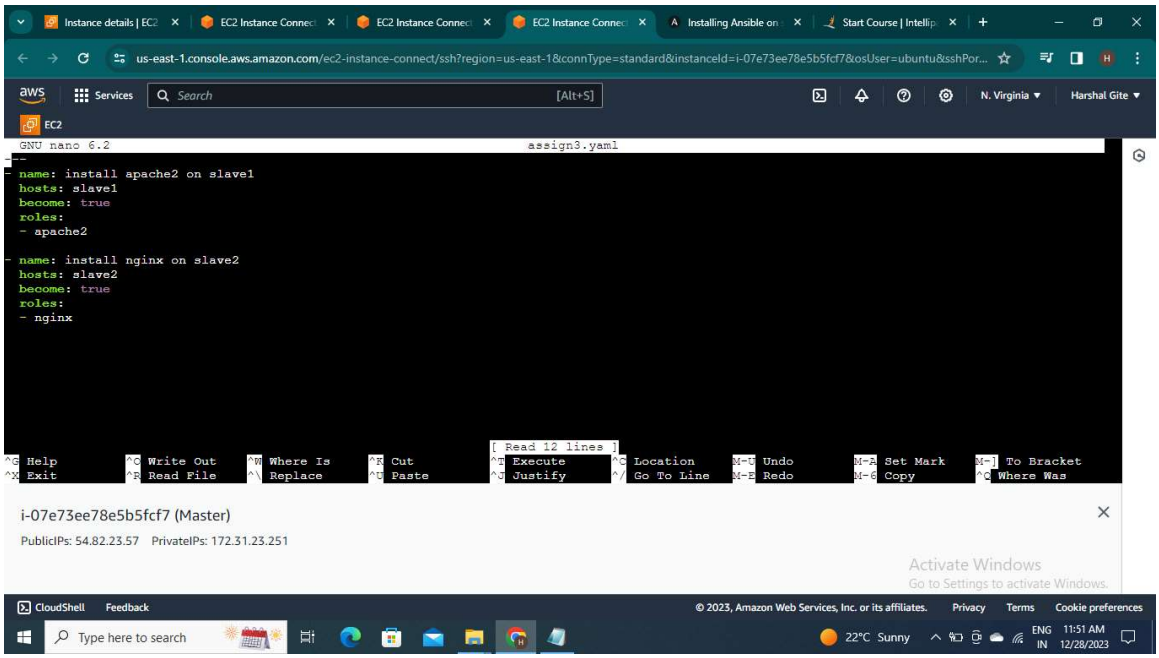
ubuntu@ip-172-31-23-251:/etc/ansible/roles/nginx/tasks$ sudo nano install.yaml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/nginx/tasks$ sudo nano main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/nginx/tasks$ sudo nano main.yml
ubuntu@ip-172-31-23-251:/etc/ansible/roles/nginx/tasks$ cd ../..
ubuntu@ip-172-31-23-251:/etc/ansible/roles$ cd ..
ubuntu@ip-172-31-23-251:/etc/ansible$ sudo nano assign3.yaml
ubuntu@ip-172-31-23-251:/etc/ansible$
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
22°C Sunny
ENG IN
11:51 AM 12/28/2023


Instance details | EC2
EC2 Instance Connect
EC2 Instance Connect
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...
aws
Services
Search
[Alt+S]
N. Virginia
Harshal Gite
EC2
GNU nano 6.2 assign3.yaml

- name: install apache2 on slave1
hosts: slave1
become: true
roles:
- apache2
- name: install nginx on slave2
hosts: slave2
become: true
roles:
- nginx
[Read 12 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)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251
Activate Windows
Go to Settings to activate Windows.
CloudShell
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Type here to search
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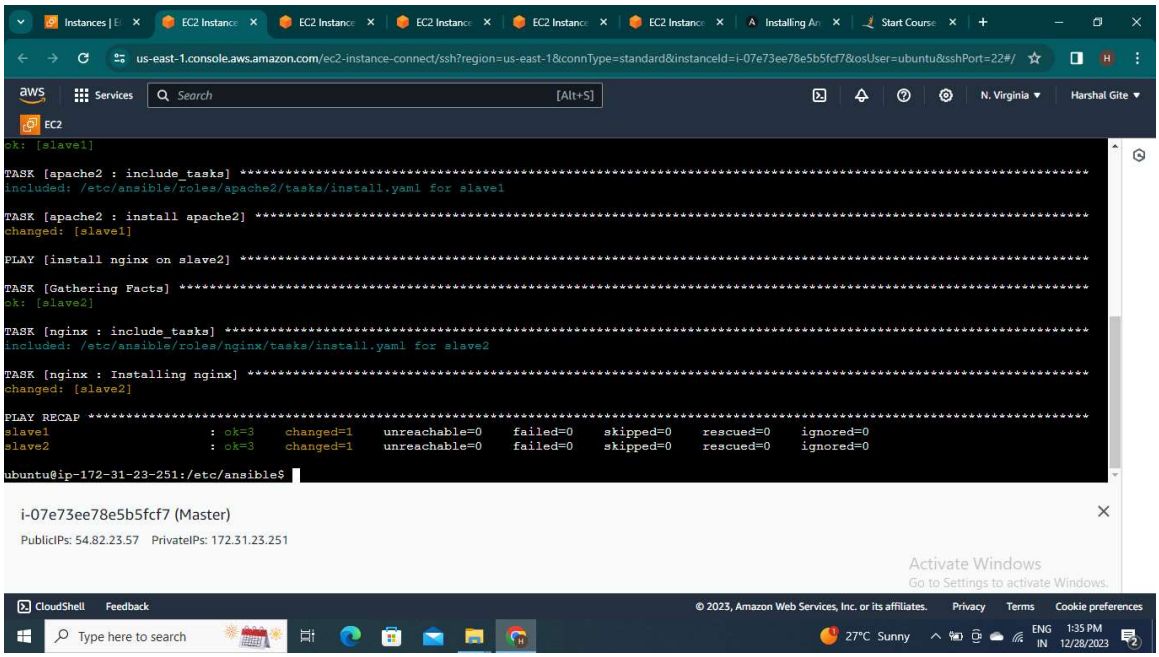
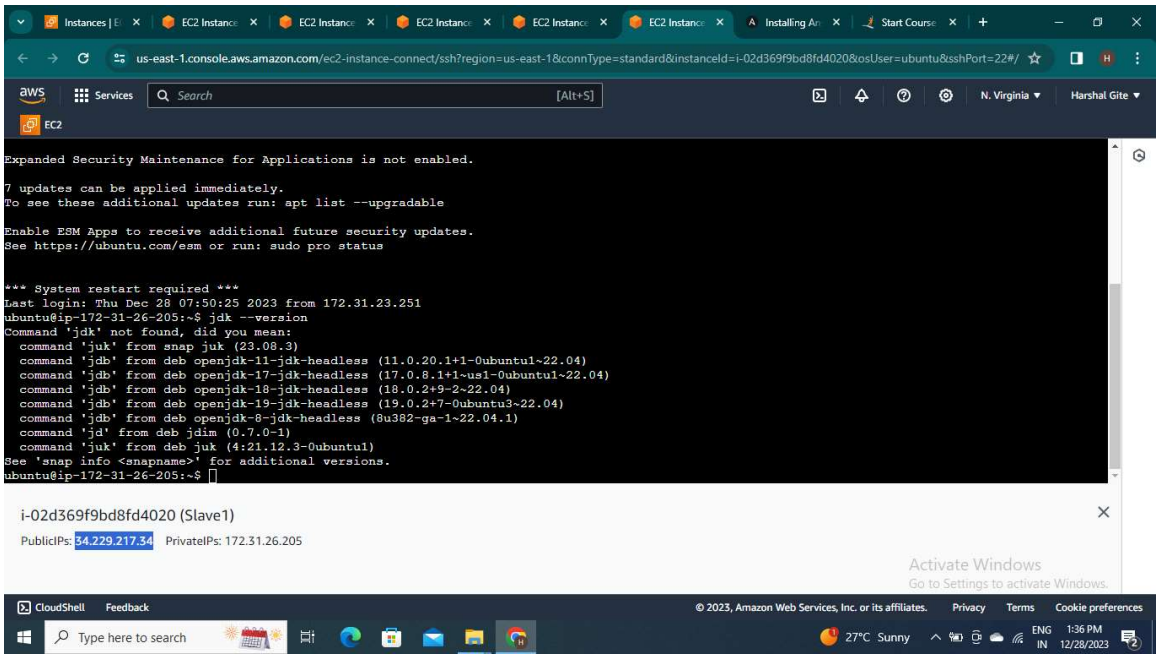
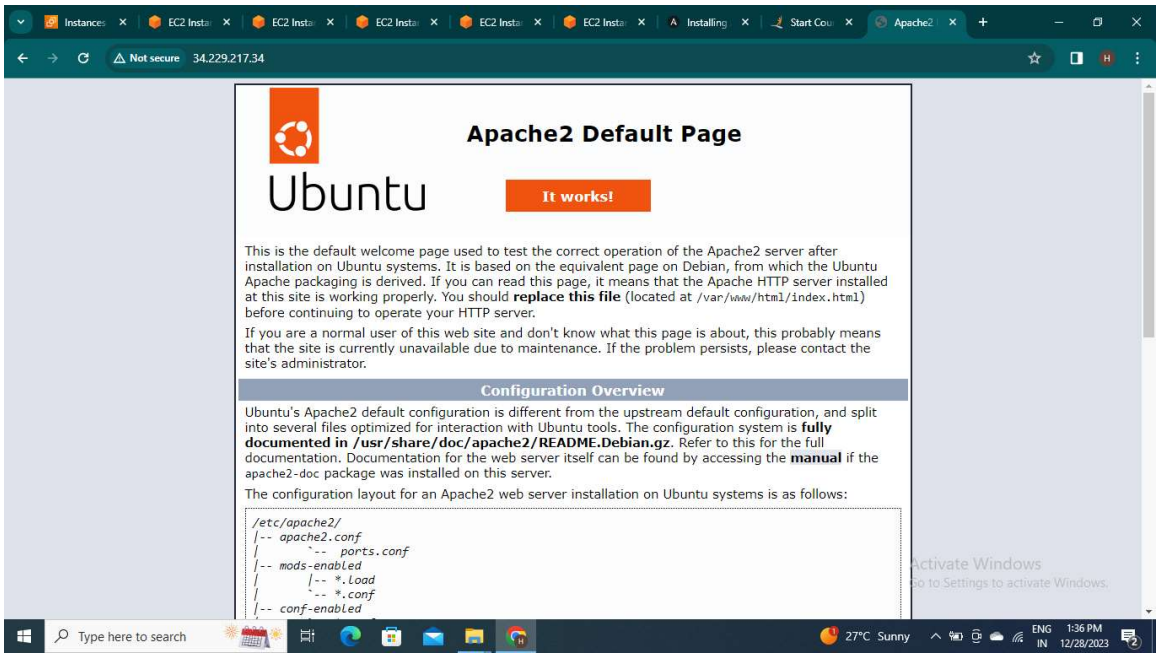
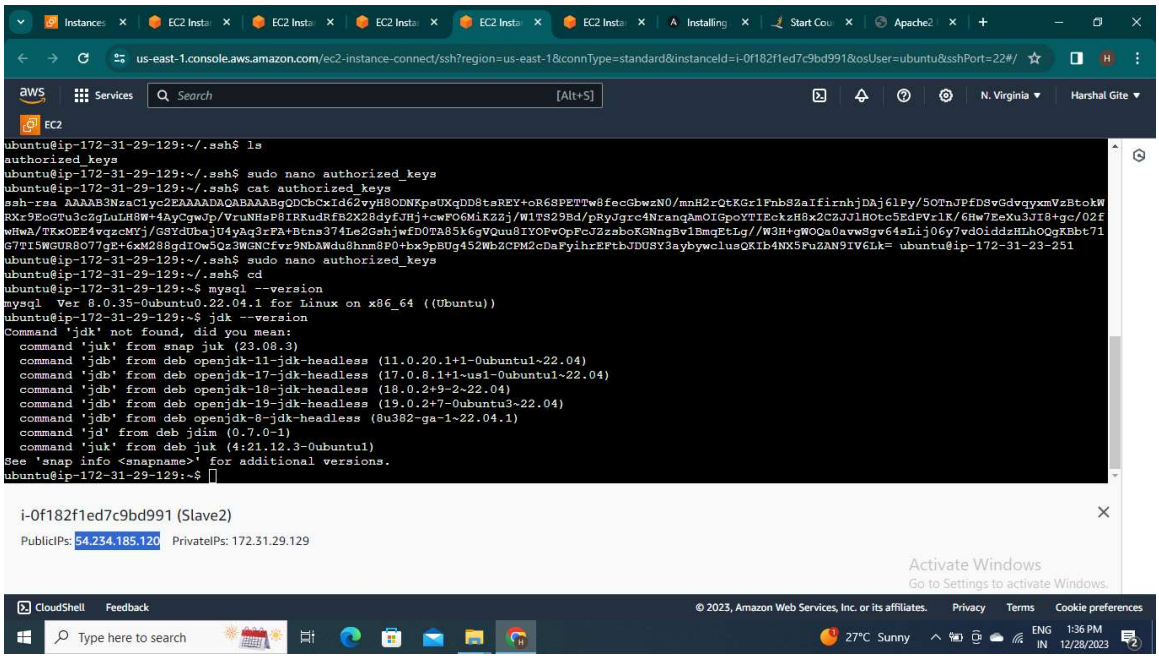
ENG IN
11:51 AM 12/28/2023


ok: [slave1]
TASK [apache2 : include_tasks] ****
included: /etc/ansible/roles/apache2/tasks/install.yaml for slave1
TASK [apache2 : install apache2] ****
changed: [slave1]
PLAY [install nginx on slave2] ****
TASK [Gathering Facts] ****
ok: [slave2]
TASK [nginx : include_tasks] ****
included: /etc/ansible/roles/nginx/tasks/install.yaml for slave2
TASK [nginx : Installing nginx] ****
changed: [slave2]
PLAY RECAP ****
slave1 : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
slave2 : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
ubuntu@ip-172-31-23-251:/etc/ansible$
i-07e73ee78e5b5fcf7 (Master)
PublicIPs: 54.82.23.57 PrivateIPs: 172.31.23.251


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


Not secure 34.229.217.34
Apache2 Default Page
Ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
|-- apache2.conf
| `-- ports.conf
|-- mods-enabled
| |-- *.load
| `-- *.conf
|-- conf-enabled
Activate Windows
Go to Settings to activate Windows.
Type here to search
27°C Sunny
ENG IN
1:36 PM 12/28/2023


us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f182f1ed7c9bd991&osUser=ubuntu&sshPort=22#/
Services
Search
[Alt+S]
N. Virginia
Harshal Gite
EC2
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/GSYdUbajU4yAq3rFA+Btns374Le2GshjwfD0TA85k6gVQuu8IYOPvOpFcJ2zsboKGNnqBv1BmqEtLg//W3H+gWOQa0avw8gv64sLij06y7vdOiddzHIhOQgKBbt71
G7TI5WGUR8O77gE+6xM288gdIOw5Qz3WGNCfvr9NbAWdu8hnm8P0+bx9pBUq452WbZCPM2cDaFyihrEFtbJDUSY3aybywclusQKIb4NX5FuZAN9IV6Lk= 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
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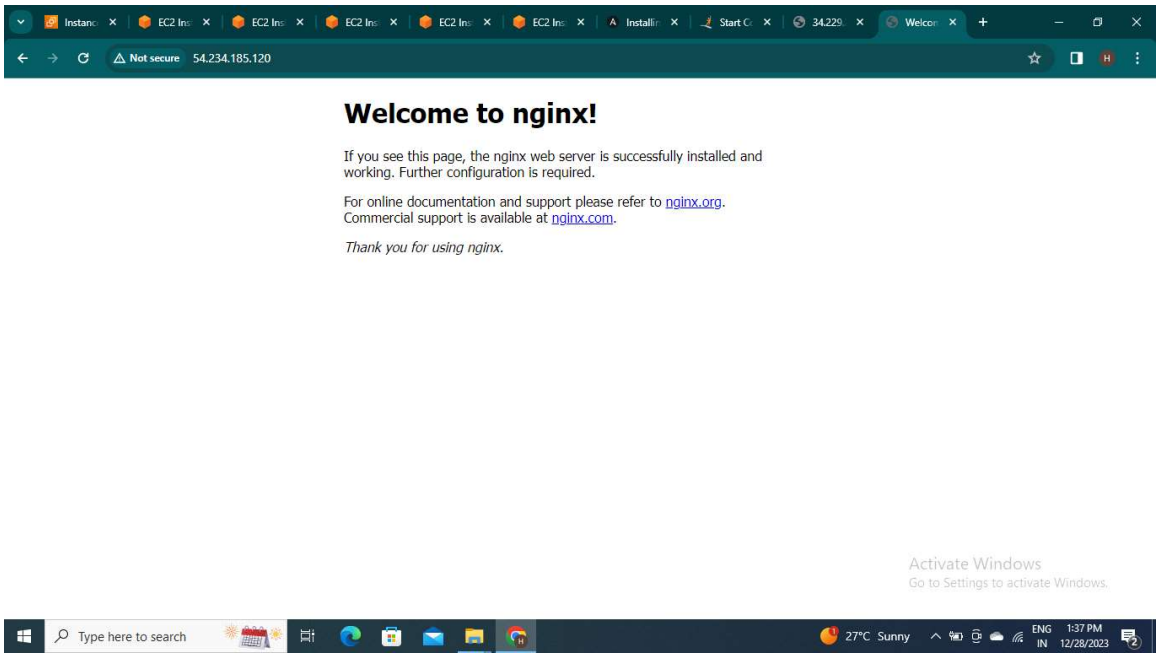
Cookie preferences
Type here to search
27°C Sunny
ENG IN
1:36 PM 12/28/2023


Not secure
54.234.185.120
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.
Activate Windows
Go to Settings to activate Windows.
Type here to search
27°C Sunny
ENG
IN
1:37 PM
12/28/2023