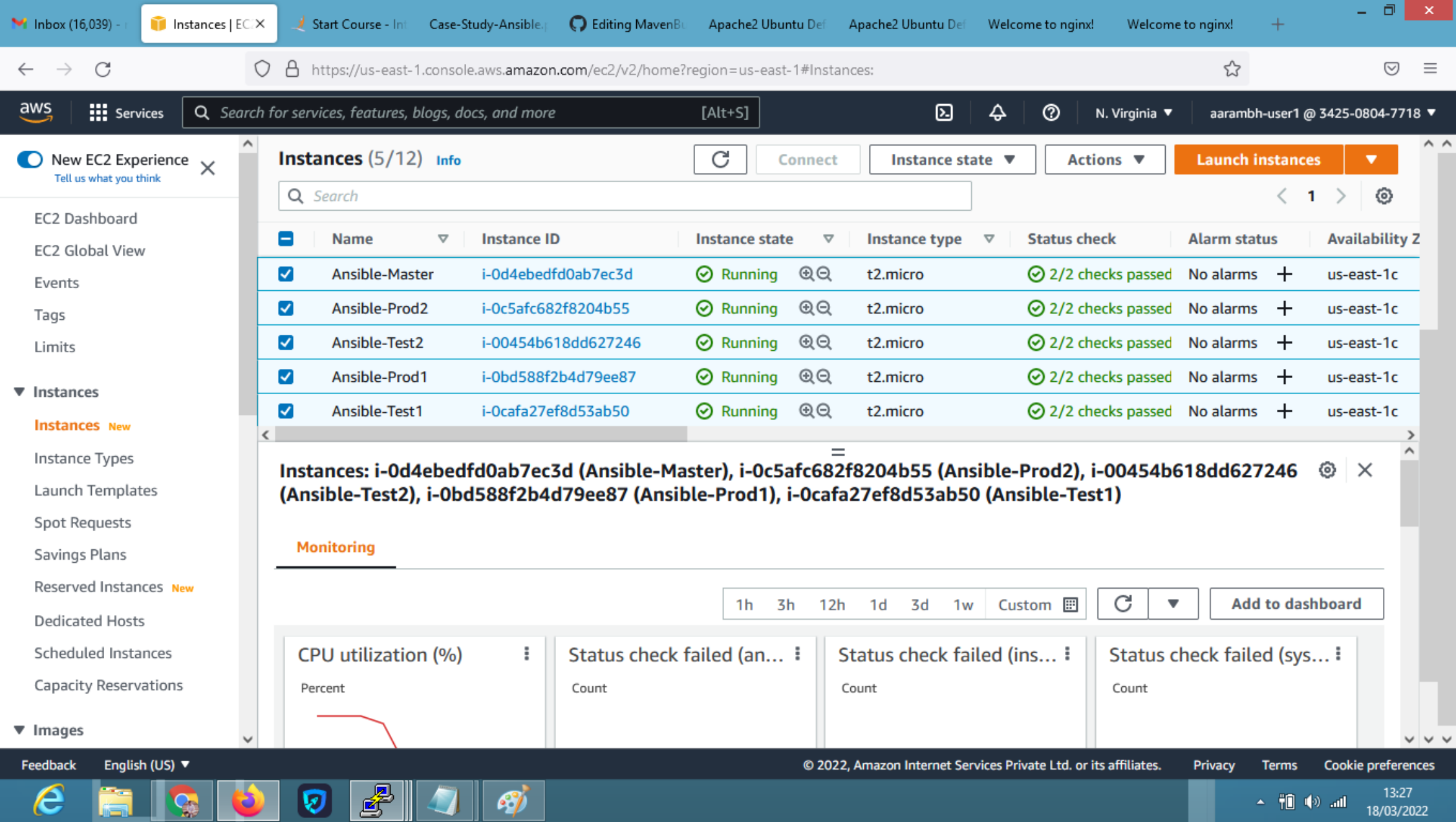
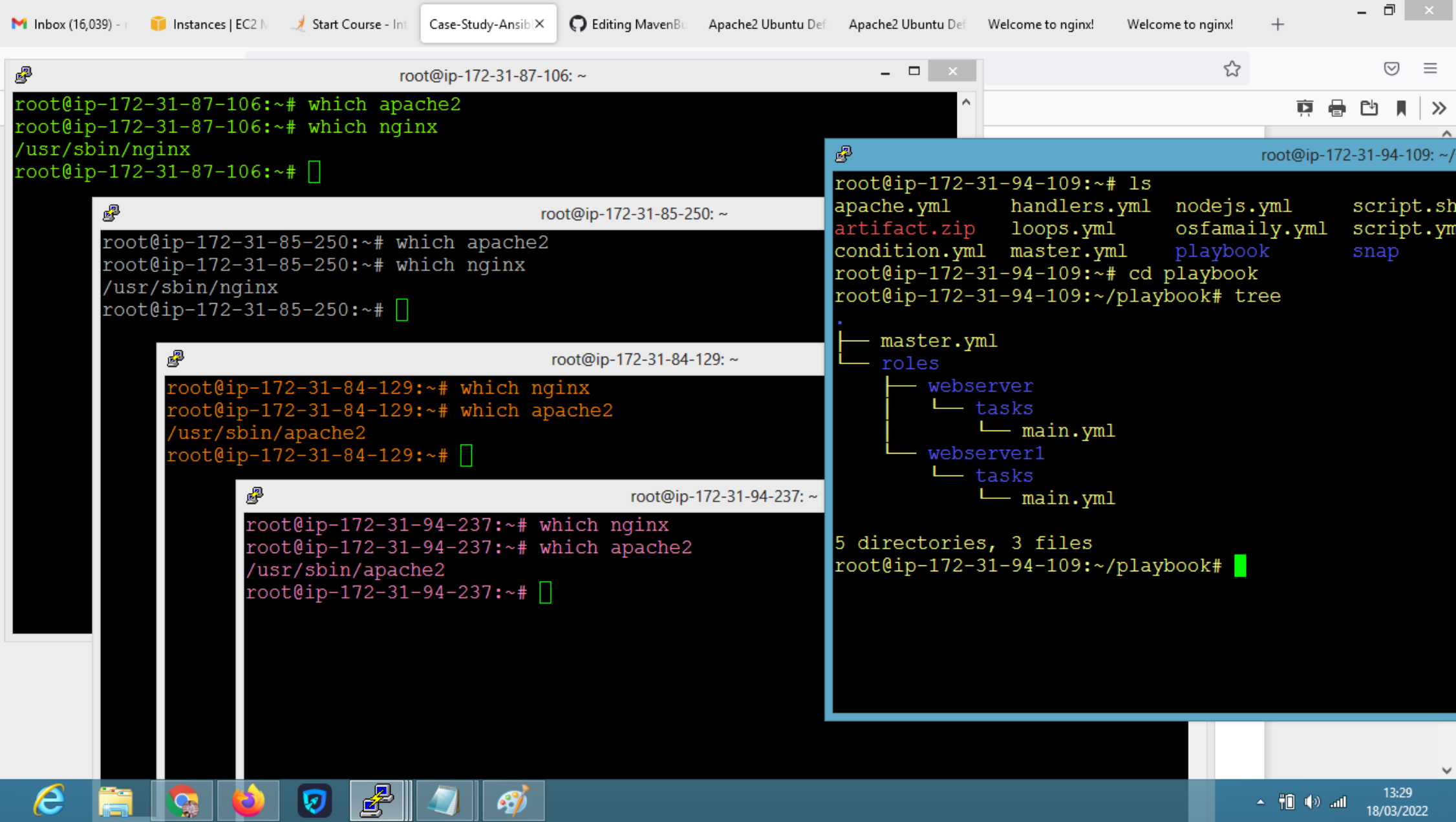
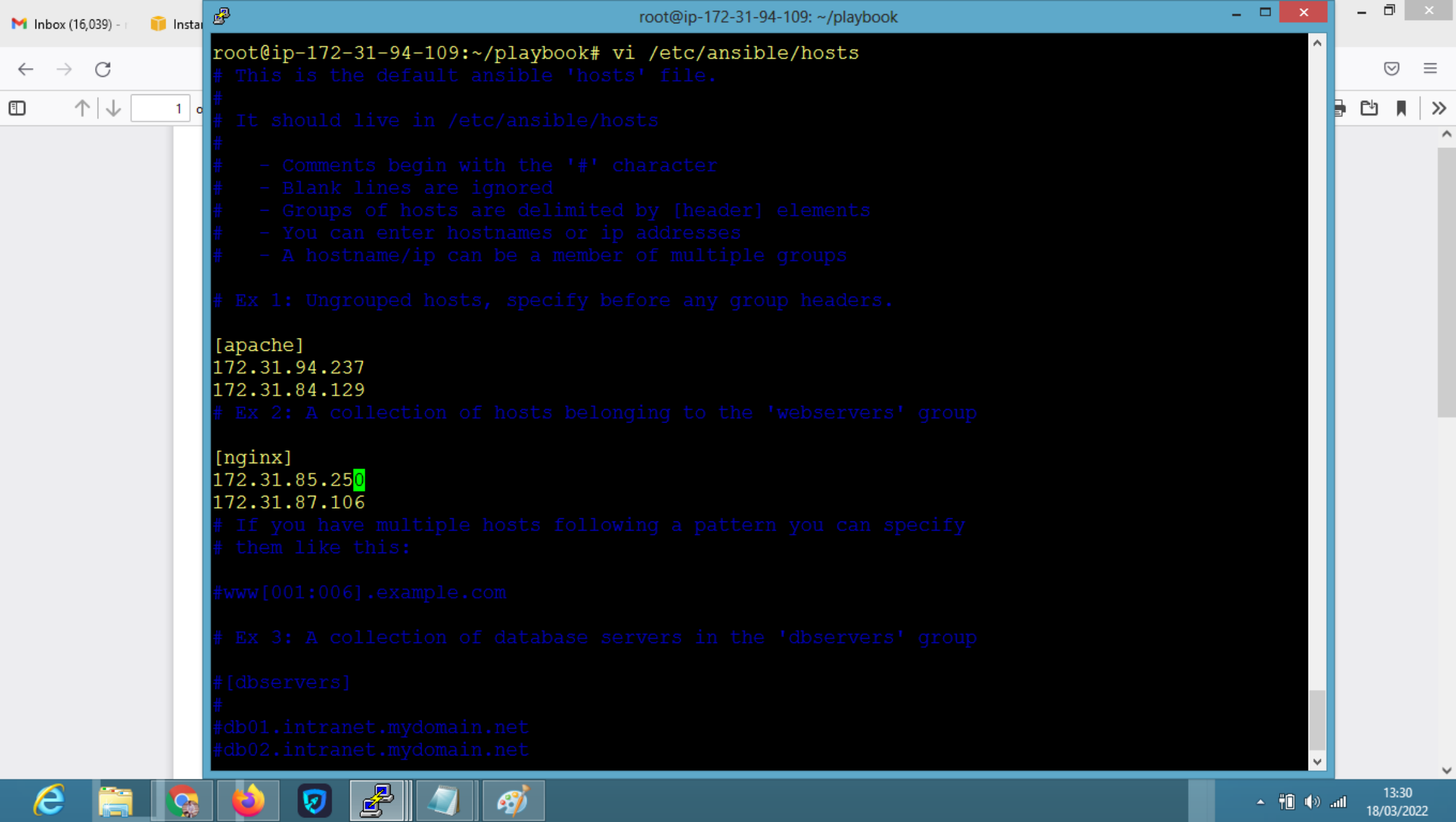
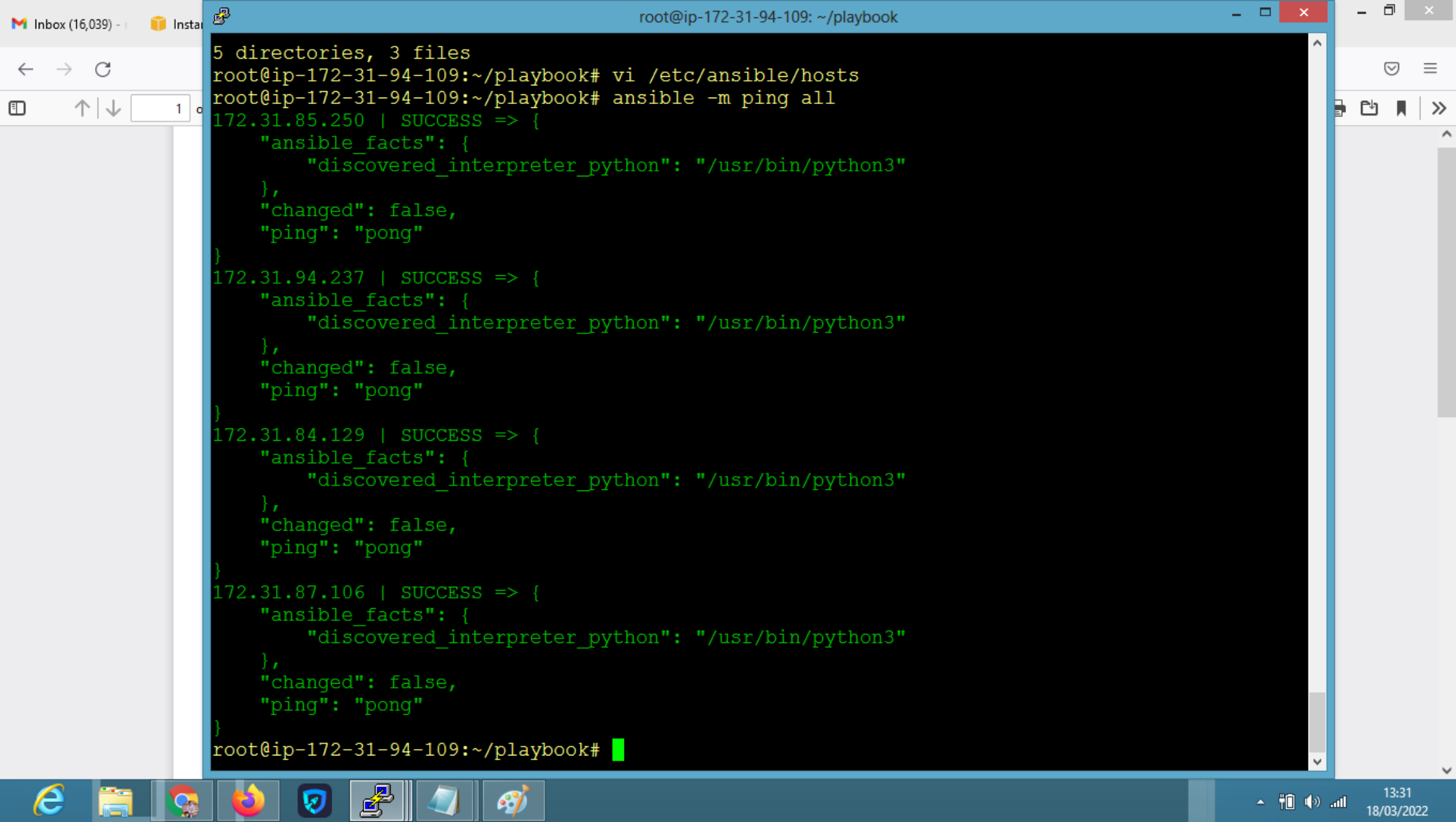
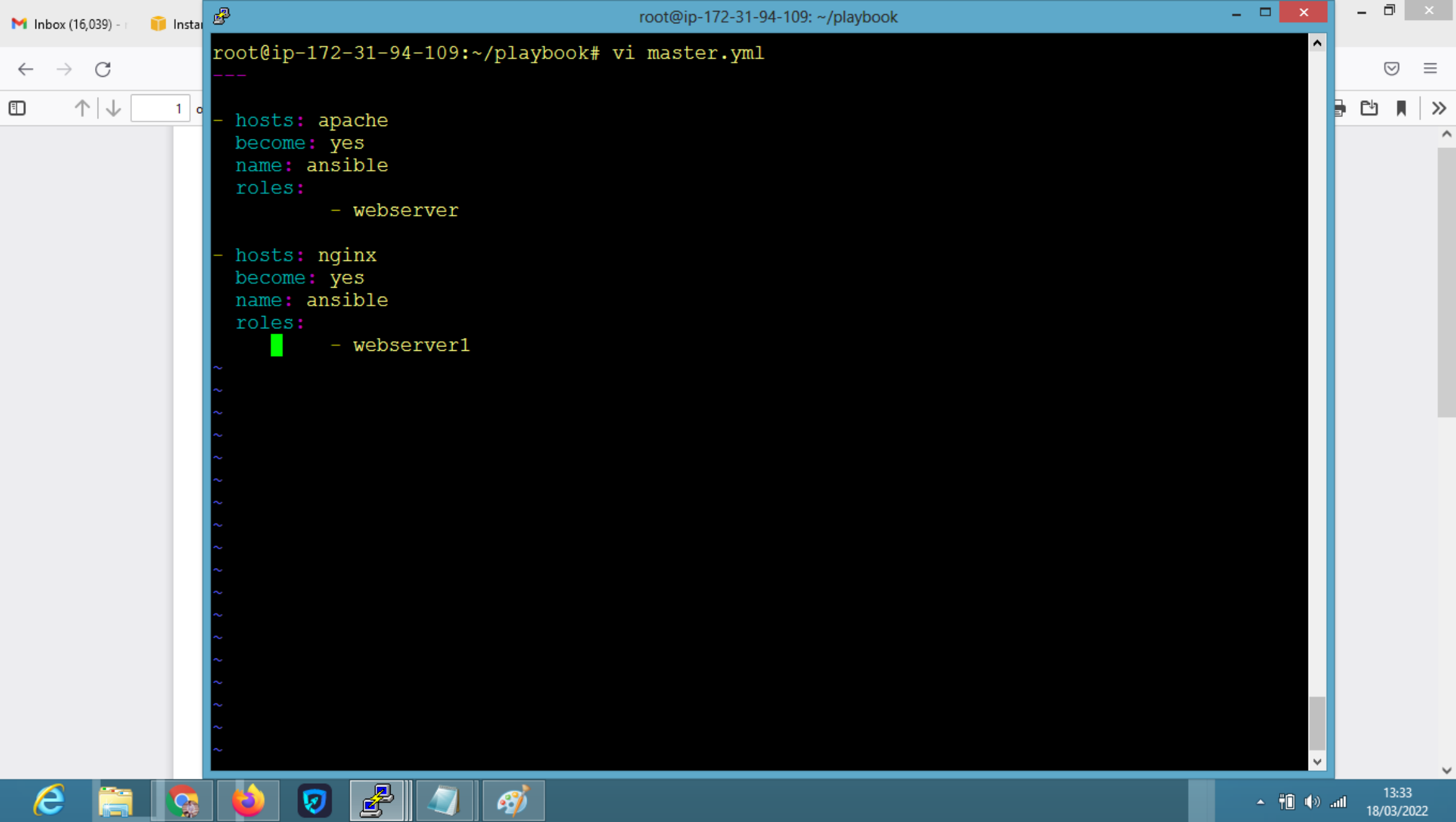

Inbox (16,039) -
Instances | EC
Start Course - In
Case-Study-Ansible
Editing MavenBu
Apache2 Ubuntu Def
Apache2 Ubuntu Def
Welcome to nginx!
Welcome to nginx!
https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
aarambh-user1 @ 3425-0804-7718
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
Instances (5/12) Info
Connect
Instance state
Actions
Launch instances
Search
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Z
Ansible-Master i-0d4ebedfd0ab7ec3d Running t2.micro 2/2 checks passed No alarms us-east-1c
Ansible-Prod2 i-0c5afc682f8204b55 Running t2.micro 2/2 checks passed No alarms us-east-1c
Ansible-Test2 i-00454b618dd627246 Running t2.micro 2/2 checks passed No alarms us-east-1c
Ansible-Prod1 i-0bd588f2b4d79ee87 Running t2.micro 2/2 checks passed No alarms us-east-1c
Ansible-Test1 i-0cafa27ef8d53ab50 Running t2.micro 2/2 checks passed No alarms us-east-1c
Instances: i-0d4ebedfd0ab7ec3d (Ansible-Master), i-0c5afc682f8204b55 (Ansible-Prod2), i-00454b618dd627246 (Ansible-Test2), i-0bd588f2b4d79ee87 (Ansible-Prod1), i-0cafa27ef8d53ab50 (Ansible-Test1)
Monitoring
1h 3h 12h 1d 3d 1w Custom
Add to dashboard
CPU utilization (%)
Percent
Status check failed (an...
Count
Status check failed (ins...
Count
Status check failed (sys...
Count
Feedback
English (US)
© 2022, Amazon Internet Services Private Ltd. or its affiliates.
Privacy
Terms
Cookie preferences
13:27
18/03/2022


Inbox (16,039) -
Instances | EC2
Start Course - In
Case-Study-Ansib
Editing MavenBu
Apache2 Ubuntu Def
Apache2 Ubuntu Def
Welcome to nginx!
Welcome to nginx!
root@ip-172-31-87-106: ~
root@ip-172-31-87-106:~# which apache2
root@ip-172-31-87-106:~# which nginx
/usr/sbin/nginx
root@ip-172-31-87-106:~#
root@ip-172-31-85-250: ~
root@ip-172-31-85-250:~# which apache2
root@ip-172-31-85-250:~# which nginx
/usr/sbin/nginx
root@ip-172-31-85-250:~#
root@ip-172-31-84-129: ~
root@ip-172-31-84-129:~# which nginx
root@ip-172-31-84-129:~# which apache2
/usr/sbin/apache2
root@ip-172-31-84-129:~#
root@ip-172-31-94-237: ~
root@ip-172-31-94-237:~# which nginx
root@ip-172-31-94-237:~# which apache2
/usr/sbin/apache2
root@ip-172-31-94-237:~#
root@ip-172-31-94-109: ~/
root@ip-172-31-94-109:~# ls
apache.yml handlers.yml nodejs.yml script.sh
artifact.zip loops.yml osfamaily.yml script.ym
condition.yml master.yml playbook snap
root@ip-172-31-94-109:~# cd playbook
root@ip-172-31-94-109:~/playbook# tree
.
├── master.yml
└── roles
    ├── webserver
    │   └── tasks
    │   └── main.yml
    └── webserver1
        └── tasks
            └── main.yml
5 directories, 3 files
root@ip-172-31-94-109:~/playbook#
13:29
18/03/2022


root@ip-172-31-94-109: ~/playbook
root@ip-172-31-94-109:~/playbook# vi /etc/ansible/hosts
This is the default ansible 'hosts' file.
#
It should live in /etc/ansible/hosts
#
- Comments begin with the '#' character
- Blank lines are ignored
- Groups of hosts are delimited by [header] elements
- You can enter hostnames or ip addresses
- A hostname/ip can be a member of multiple groups
Ex 1: Ungrouped hosts, specify before any group headers.
[apache]
172.31.94.237
172.31.84.129
Ex 2: A collection of hosts belonging to the 'webservers' group
[nginx]
172.31.85.250
172.31.87.106
If you have multiple hosts following a pattern you can specify
them like this:
#www[001:006].example.com
Ex 3: A collection of database servers in the 'dbservers' group
#[dbservers]
#
#db01.intranet.mydomain.net
#db02.intranet.mydomain.net


root@ip-172-31-94-109: ~/playbook
5 directories, 3 files
root@ip-172-31-94-109:~/playbook# vi /etc/ansible/hosts
root@ip-172-31-94-109:~/playbook# ansible -m ping all
172.31.85.250 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
172.31.94.237 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
172.31.84.129 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
172.31.87.106 | SUCCESS => {
"ansible_facts": {
"discovered_interpreter_python": "/usr/bin/python3"
},
"changed": false,
"ping": "pong"
}
root@ip-172-31-94-109:~/playbook#


root@ip-172-31-94-109: ~/playbook
root@ip-172-31-94-109:~/playbook# vi master.yml

- hosts: apache
become: yes
name: ansible
roles:
- webserver
- hosts: nginx
become: yes
name: ansible
roles:
- webserver1

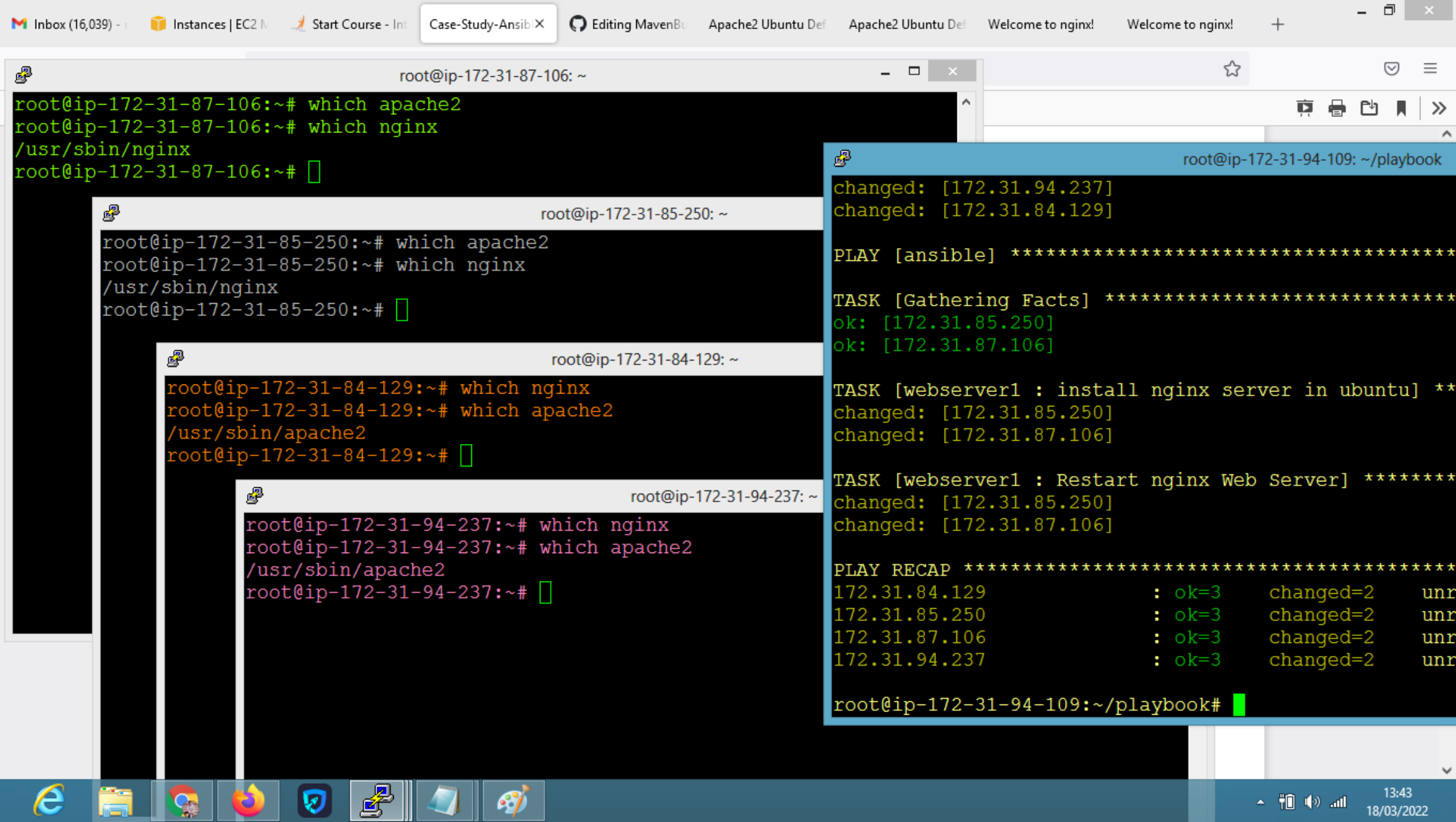
```
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# vi main.yml
- name: install apache2 on ubuntu
  apt: name=apache2 state=latest

- name: Restart Apache2 Web Server
  service: name=apache2 state=restarted
```

```
- hosts: nginx
  become: yes
  name: ansible
  roles:
        - webserver1
root@ip-172-31-94-109:~/playbook# vi master.yml
root@ip-172-31-94-109:~/playbook# tree
.
├── master.yml
└── roles
    ├── webserver
    │   └── tasks
    │       └── main.yml
    └── webserver1
        └── tasks
            └── main.yml

5 directories, 3 files
root@ip-172-31-94-109:~/playbook# ls
master.yml  roles
root@ip-172-31-94-109:~/playbook# cd roles/webserver/tasks/
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# ls
main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# vi main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# cd ..
root@ip-172-31-94-109:~/playbook/roles/webserver# cd ..
root@ip-172-31-94-109:~/playbook/roles# cd roles/webserver1/tasks/
-bash: cd: roles/webserver1/tasks/: No such file or directory
root@ip-172-31-94-109:~/playbook/roles# cd webserver1/tasks/
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# ls
main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# vi main.yml
```

```
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# vi main.yml
- name: install nginx server in ubuntu
  apt: name=nginx state=latest

- name: Restart nginx Web Server
  service: name=nginx state=restarted
```

```
root@ip-172-31-94-109:~/playbook# ansible-playbook master.yml --check

PLAY [ansible] *****************************************************************************************************

TASK [Gathering Facts] *********************************************************************************************
ok: [172.31.94.237]
ok: [172.31.84.129]

TASK [webserver : install apache2 on ubuntu] ***********************************************************************
changed: [172.31.94.237]
changed: [172.31.84.129]

TASK [webserver : Restart Apache2 Web Server] **********************************************************************
changed: [172.31.94.237]
changed: [172.31.84.129]

PLAY [ansible] *****************************************************************************************************

TASK [Gathering Facts] *********************************************************************************************
ok: [172.31.85.250]
ok: [172.31.87.106]

TASK [webserver1 : install nginx server in ubuntu] *****************************************************************
changed: [172.31.85.250]
changed: [172.31.87.106]

TASK [webserver1 : Restart nginx Web Server] ***********************************************************************
changed: [172.31.85.250]
changed: [172.31.87.106]

PLAY RECAP *********************************************************************************************************
172.31.84.129              : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.85.250              : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

```
root@ip-172-31-94-109:~/playbook# ansible-playbook master.yml

PLAY [ansible] *****************************************************************************************************

TASK [Gathering Facts] *********************************************************************************************
ok: [172.31.94.237]
ok: [172.31.84.129]

TASK [webserver : install apache2 on ubuntu] ***********************************************************************
changed: [172.31.94.237]
changed: [172.31.84.129]

TASK [webserver : Restart Apache2 Web Server] **********************************************************************
changed: [172.31.94.237]
changed: [172.31.84.129]

PLAY [ansible] *****************************************************************************************************

TASK [Gathering Facts] *********************************************************************************************
ok: [172.31.85.250]
ok: [172.31.87.106]

TASK [webserver1 : install nginx server in ubuntu] *****************************************************************
changed: [172.31.85.250]
changed: [172.31.87.106]

TASK [webserver1 : Restart nginx Web Server] ***********************************************************************
changed: [172.31.85.250]
changed: [172.31.87.106]

PLAY RECAP *********************************************************************************************************
172.31.84.129              : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.85.250              : ok=3    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```


Inbox (16,039) -
Instances | EC2
Start Course - In
Case-Study-Ansib
Editing MavenBu
Apache2 Ubuntu Def
Apache2 Ubuntu Def
Welcome to nginx!
Welcome to nginx!
root@ip-172-31-87-106: ~
root@ip-172-31-87-106:~# which apache2
root@ip-172-31-87-106:~# which nginx
/usr/sbin/nginx
root@ip-172-31-87-106:~#
root@ip-172-31-85-250: ~
root@ip-172-31-85-250:~# which apache2
root@ip-172-31-85-250:~# which nginx
/usr/sbin/nginx
root@ip-172-31-85-250:~#
root@ip-172-31-84-129: ~
root@ip-172-31-84-129:~# which nginx
root@ip-172-31-84-129:~# which apache2
/usr/sbin/apache2
root@ip-172-31-84-129:~#
root@ip-172-31-94-237: ~
root@ip-172-31-94-237:~# which nginx
root@ip-172-31-94-237:~# which apache2
/usr/sbin/apache2
root@ip-172-31-94-237:~#
root@ip-172-31-94-109: ~/playbook
changed: [172.31.94.237]
changed: [172.31.84.129]
PLAY [ansible] **
TASK [Gathering Facts] ********************************
ok: [172.31.85.250]
ok: [172.31.87.106]
TASK [webserver1 : install nginx server in ubuntu] **
changed: [172.31.85.250]
changed: [172.31.87.106]
TASK [webserver1 : Restart nginx Web Server] ********
changed: [172.31.85.250]
changed: [172.31.87.106]
PLAY RECAP **
172.31.84.129 : ok=3 changed=2 unr
172.31.85.250 : ok=3 changed=2 unr
172.31.87.106 : ok=3 changed=2 unr
172.31.94.237 : ok=3 changed=2 unr
root@ip-172-31-94-109:~/playbook#
13:43
18/03/2022

Inbox (16,039) - | Instances | EC2 M | Start Course - In | Case-Study-Ansible.p | Editing MavenBu | Apache2 Ubuntu D | Apache2 Ubuntu De | Welcome to nginx! | Welcome to nginx!

54.158.110.36

Apache2 Ubuntu 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.

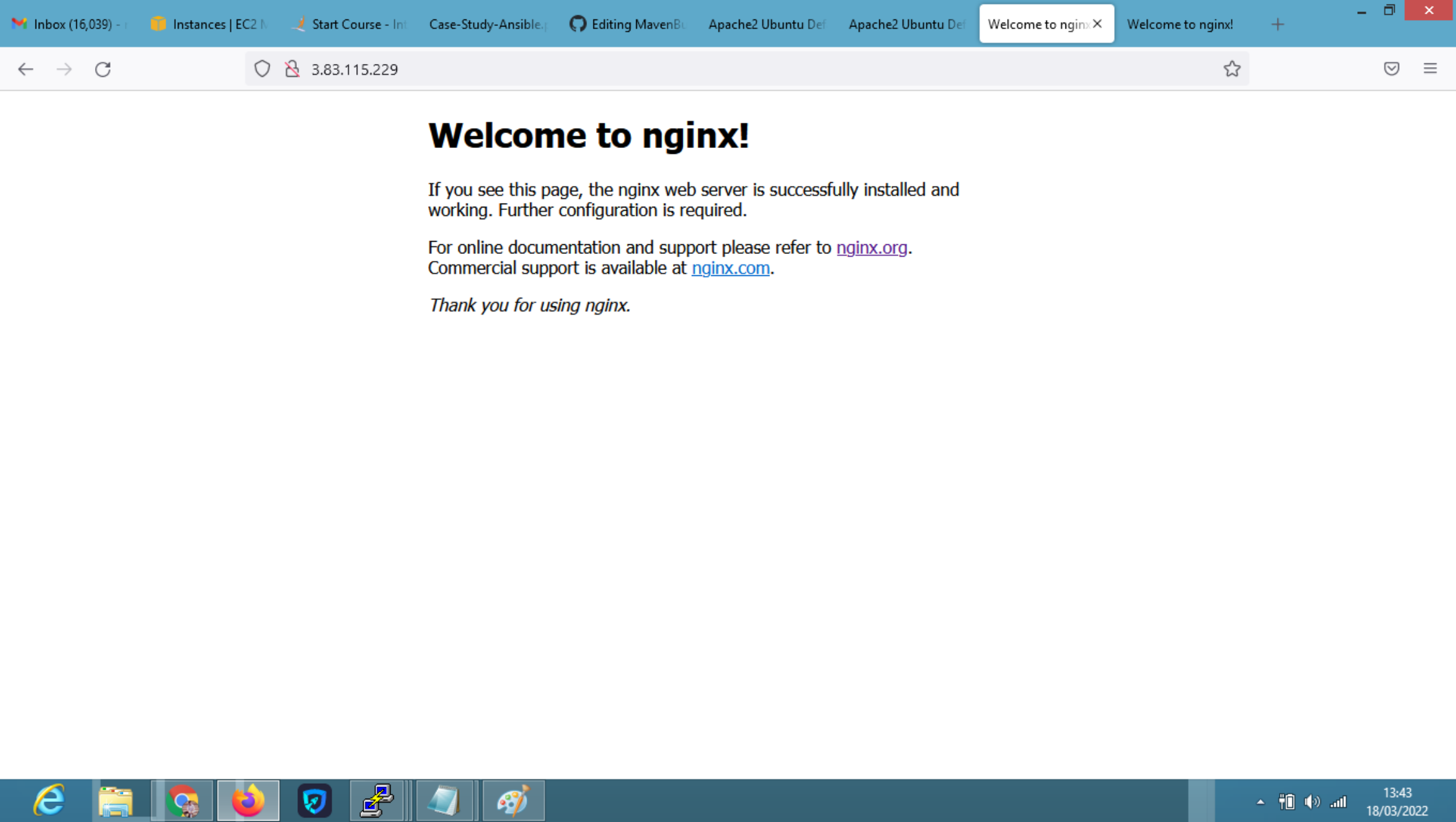
Configuration Overview

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
|       `-- *.conf
|-- sites-enabled
|       `-- *.conf
```

13:43
18/03/2022


Inbox (16,039) -
Instances | EC2
Start Course - In
Case-Study-Ansible
Editing MavenB
Apache2 Ubuntu Def
Apache2 Ubuntu Def
Welcome to ngin
Welcome to nginx!
3.83.115.229
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.
13:43
18/03/2022

```
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# vi main.yml
- name: install openjdk-11-jdk on ubuntu
  apt: name=openjdk-11-jdk state=latest

- name: install nginx server in ubuntu
  apt: name=nginx state=latest

- name: Restart nginx Web Server
  service: name=nginx state=restarted
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
```

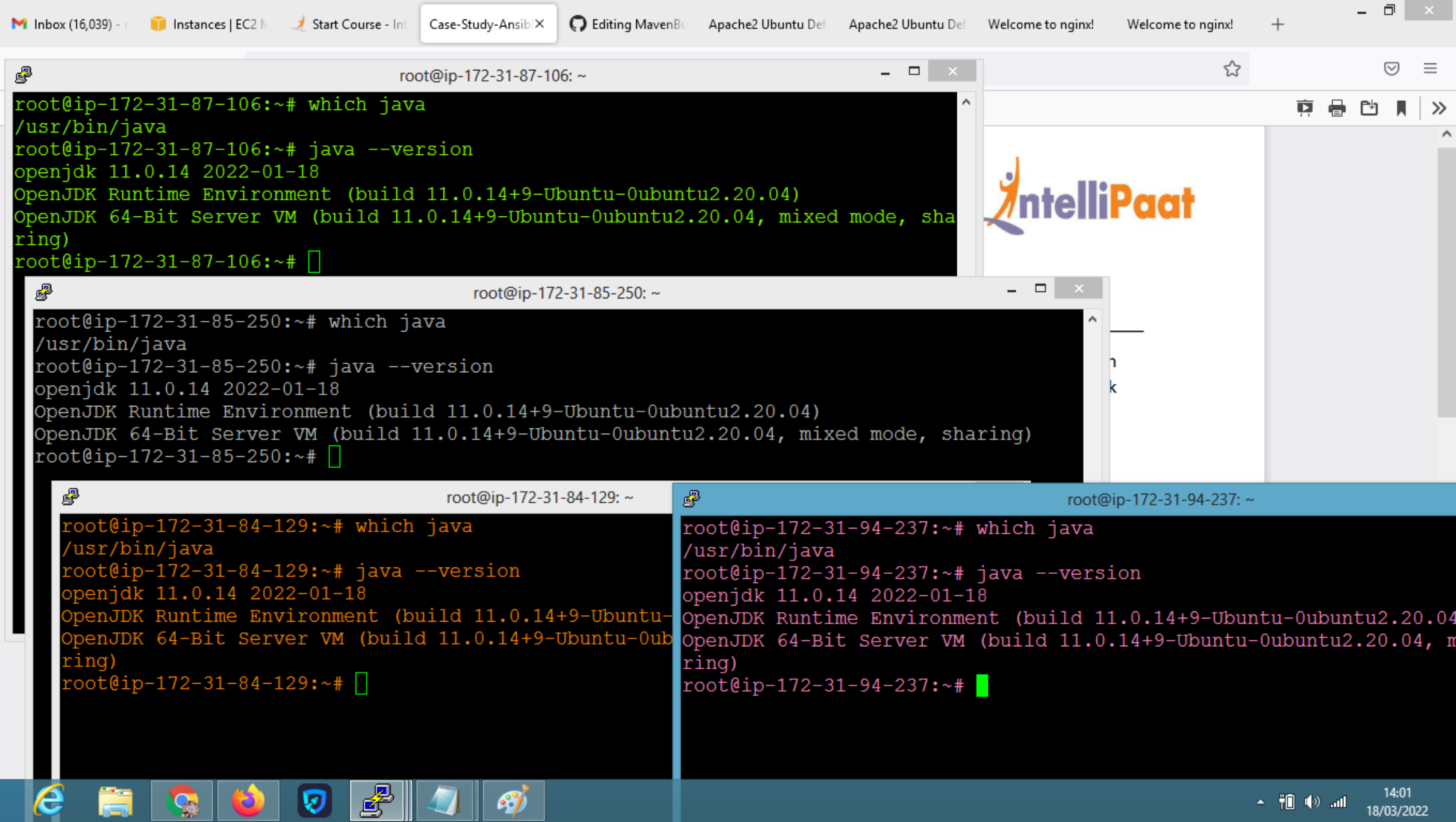
```
root@ip-172-31-94-109:~/playbook# ls
master.yml  roles
root@ip-172-31-94-109:~/playbook# tree
.
├── master.yml
└── roles
    ├── webserver
    │   └── tasks
    │       └── main.yml
    └── webserver1
        └── tasks
            └── main.yml

5 directories, 3 files
root@ip-172-31-94-109:~/playbook# cd roles/webserver1/tasks/
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# ls
main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# vi main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# cd
root@ip-172-31-94-109:~# cd playbook
root@ip-172-31-94-109:~/playbook# cd roles/webserver/tasks/
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# ls
main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# vi main.yml
```

```
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# vi main.yml
- name: install openjdk-11-jdk on ubuntu
  apt: name=openjdk-11-jdk state=latest

- name: install apache2 on ubuntu
  apt: name=apache2 state=latest

- name: Restart Apache2 Web Server
  service: name=apache2 state=restarted
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
```

```
root@ip-172-31-94-109:~/playbook# ls
master.yml  roles
root@ip-172-31-94-109:~/playbook# tree
.
├── master.yml
└── roles
    ├── webserver
    │   └── tasks
    │       └── main.yml
    └── webserver1
        └── tasks
            └── main.yml

5 directories, 3 files
root@ip-172-31-94-109:~/playbook# cd roles/webserver1/tasks/
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# ls
main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# vi main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver1/tasks# cd
root@ip-172-31-94-109:~# cd playbook
root@ip-172-31-94-109:~/playbook# cd roles/webserver/tasks/
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# ls
main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# vi main.yml
root@ip-172-31-94-109:~/playbook/roles/webserver/tasks# cd
root@ip-172-31-94-109:~# cd playbook
root@ip-172-31-94-109:~/playbook# ansible-playbook master.yml --check
```

```
root@ip-172-31-94-109:~/playbook# ansible-playbook master.yml

PLAY [ansible] ***************************************************************************************************

TASK [Gathering Facts] *******************************************************************************************
ok: [172.31.94.237]
ok: [172.31.84.129]

TASK [webserver : install openjdk-11-jdk on ubuntu] **************************************************************
changed: [172.31.84.129]
changed: [172.31.94.237]

TASK [webserver : install apache2 on ubuntu] *********************************************************************
ok: [172.31.94.237]
ok: [172.31.84.129]

TASK [webserver : Restart Apache2 Web Server] ********************************************************************
changed: [172.31.84.129]
changed: [172.31.94.237]

PLAY [ansible] ***************************************************************************************************

TASK [Gathering Facts] *******************************************************************************************
ok: [172.31.85.250]
ok: [172.31.87.106]

TASK [webserver1 : install openjdk-11-jdk on ubuntu] *************************************************************
changed: [172.31.87.106]
changed: [172.31.85.250]

TASK [webserver1 : install nginx server in ubuntu] ***************************************************************
ok: [172.31.85.250]
ok: [172.31.87.106]
```

```
TASK [webserver : install apache2 on ubuntu] ***********************************************************
ok: [172.31.94.237]
ok: [172.31.84.129]

TASK [webserver : Restart Apache2 Web Server] **********************************************************
changed: [172.31.84.129]
changed: [172.31.94.237]

PLAY [ansible] *****************************************************************************************

TASK [Gathering Facts] *********************************************************************************
ok: [172.31.85.250]
ok: [172.31.87.106]

TASK [webserver1 : install openjdk-11-jdk on ubuntu] ***************************************************
changed: [172.31.87.106]
changed: [172.31.85.250]

TASK [webserver1 : install nginx server in ubuntu] *****************************************************
ok: [172.31.85.250]
ok: [172.31.87.106]

TASK [webserver1 : Restart nginx Web Server] ***********************************************************
changed: [172.31.85.250]
changed: [172.31.87.106]

PLAY RECAP *********************************************************************************************
172.31.84.129              : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.85.250              : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.87.106              : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
172.31.94.237              : ok=4    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

root@ip-172-31-94-109:~/playbook#
```


Inbox (16,039) -
Instances | EC2
Start Course - In
Case-Study-Ansib
Editing MavenBu
Apache2 Ubuntu Def
Apache2 Ubuntu Def
Welcome to nginx!
Welcome to nginx!
root@ip-172-31-87-106: ~
root@ip-172-31-87-106:~# which java
/usr/bin/java
root@ip-172-31-87-106:~# java --version
openjdk 11.0.14 2022-01-18
OpenJDK Runtime Environment (build 11.0.14+9-Ubuntu-0ubuntu2.20.04)
OpenJDK 64-Bit Server VM (build 11.0.14+9-Ubuntu-0ubuntu2.20.04, mixed mode, sha
ring)
root@ip-172-31-87-106:~#
IntelliPaat
root@ip-172-31-85-250: ~
root@ip-172-31-85-250:~# which java
/usr/bin/java
root@ip-172-31-85-250:~# java --version
openjdk 11.0.14 2022-01-18
OpenJDK Runtime Environment (build 11.0.14+9-Ubuntu-0ubuntu2.20.04)
OpenJDK 64-Bit Server VM (build 11.0.14+9-Ubuntu-0ubuntu2.20.04, mixed mode, sharing)
root@ip-172-31-85-250:~#
root@ip-172-31-84-129: ~
root@ip-172-31-84-129:~# which java
/usr/bin/java
root@ip-172-31-84-129:~# java --version
openjdk 11.0.14 2022-01-18
OpenJDK Runtime Environment (build 11.0.14+9-Ubuntu-
OpenJDK 64-Bit Server VM (build 11.0.14+9-Ubuntu-0ub
ring)
root@ip-172-31-84-129:~#
root@ip-172-31-94-237: ~
root@ip-172-31-94-237:~# which java
/usr/bin/java
root@ip-172-31-94-237:~# java --version
openjdk 11.0.14 2022-01-18
OpenJDK Runtime Environment (build 11.0.14+9-Ubuntu-0ubuntu2.20.04
OpenJDK 64-Bit Server VM (build 11.0.14+9-Ubuntu-0ubuntu2.20.04, m
ring)
root@ip-172-31-94-237:~#
14:01
18/03/2022