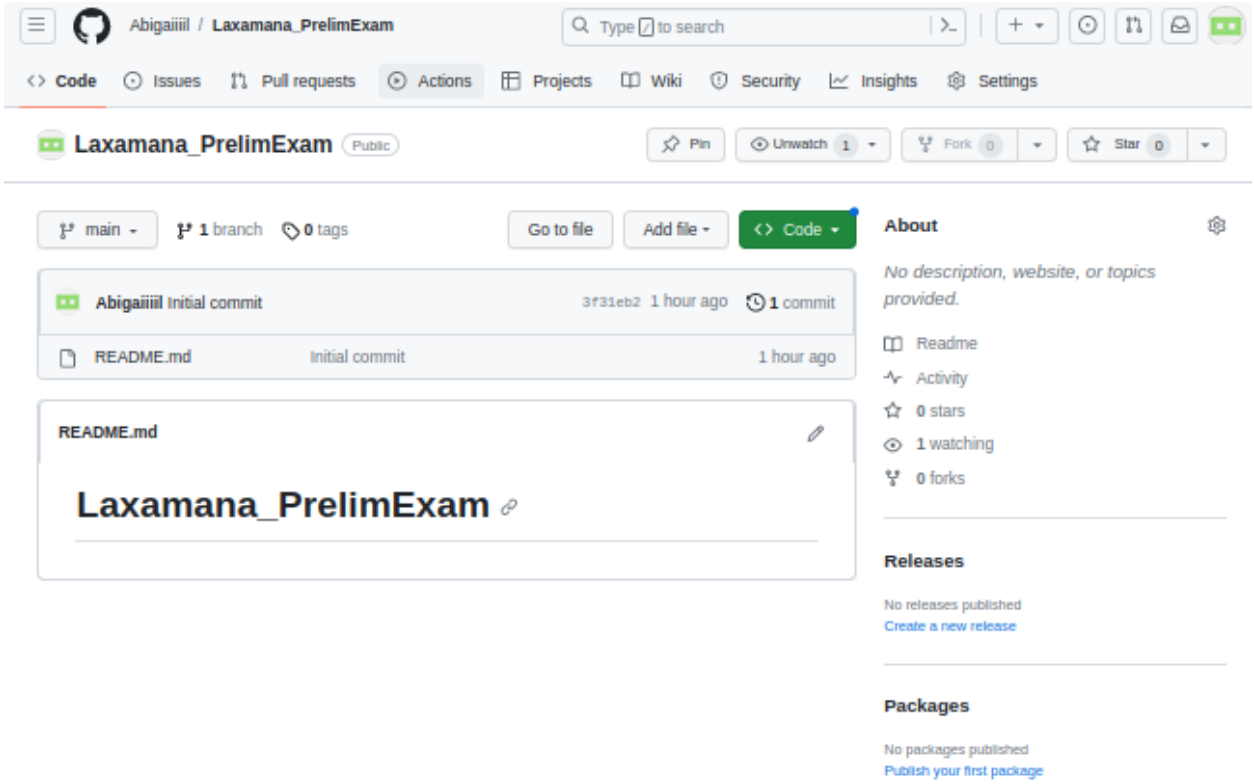
Abigail Laxamana	September 25, 2023
CPE 232 - CPE31S6	Dr. Jonathan Taylar

PRELIM SKILLS EXAMINATION

a. Creating a new repository in Github



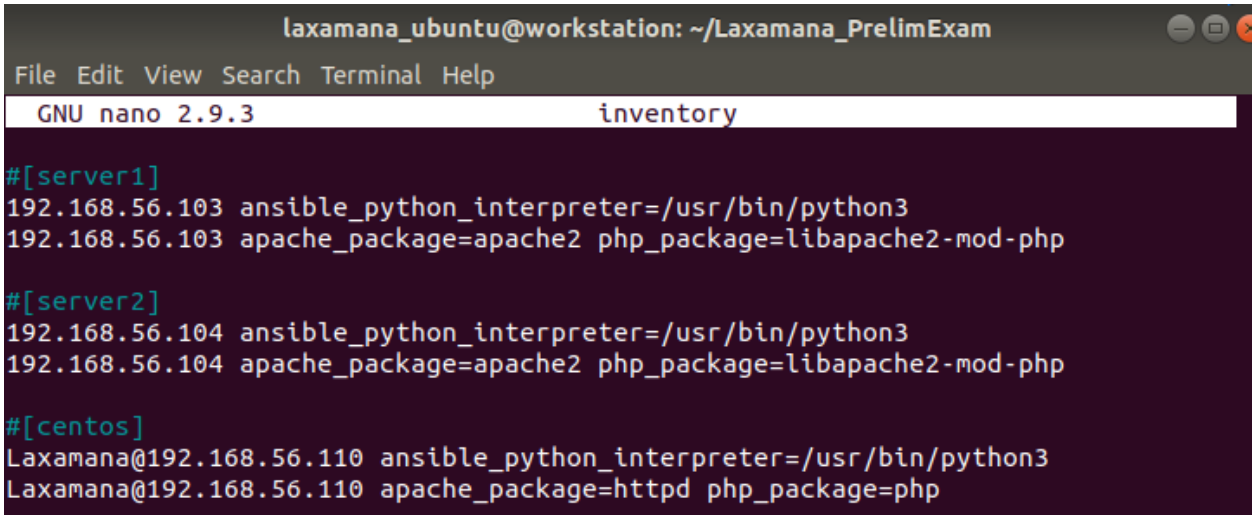
In this part, I created a new repository in github and named it Laxamana_PrelimExam

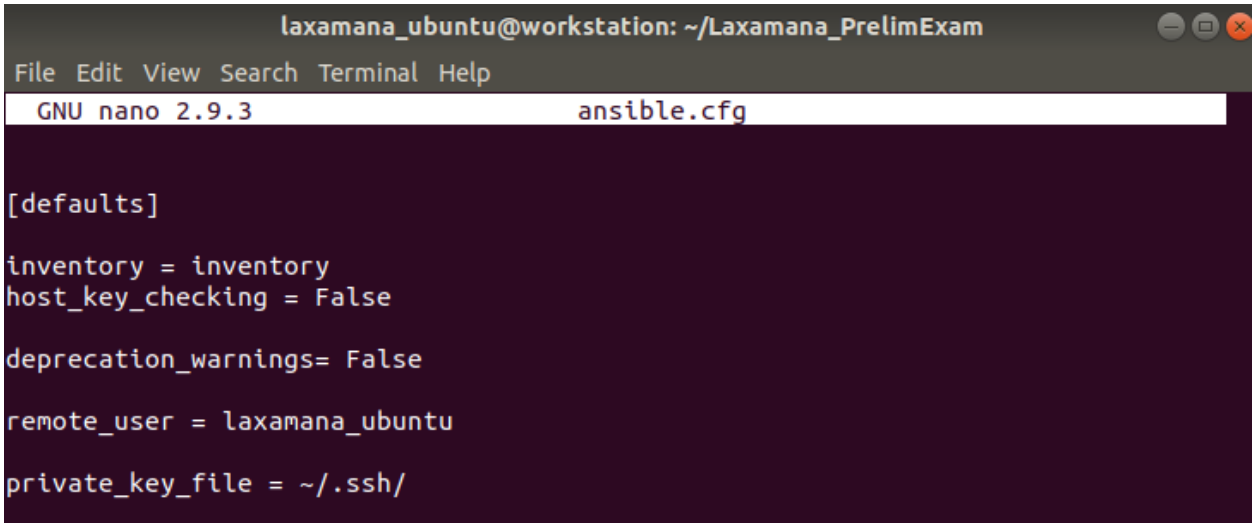
b. Cloning repository in the Control Node

```
laxamana_ubuntu@workstation:~$ git clone git@github.com:Abigaiiiil/Laxamana_Pre
limExam.git
Cloning into 'Laxamana_PrelimExam'...
Warning: Permanently added the ECDSA host key for IP address '192.30.255.112' t
o the list of known hosts.
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

Here, the repository was cloned in the control node. The link was copied from the github ssh link and pasted it after the command "**git clone**".

c. Creating inventory and ansible.cfg files.

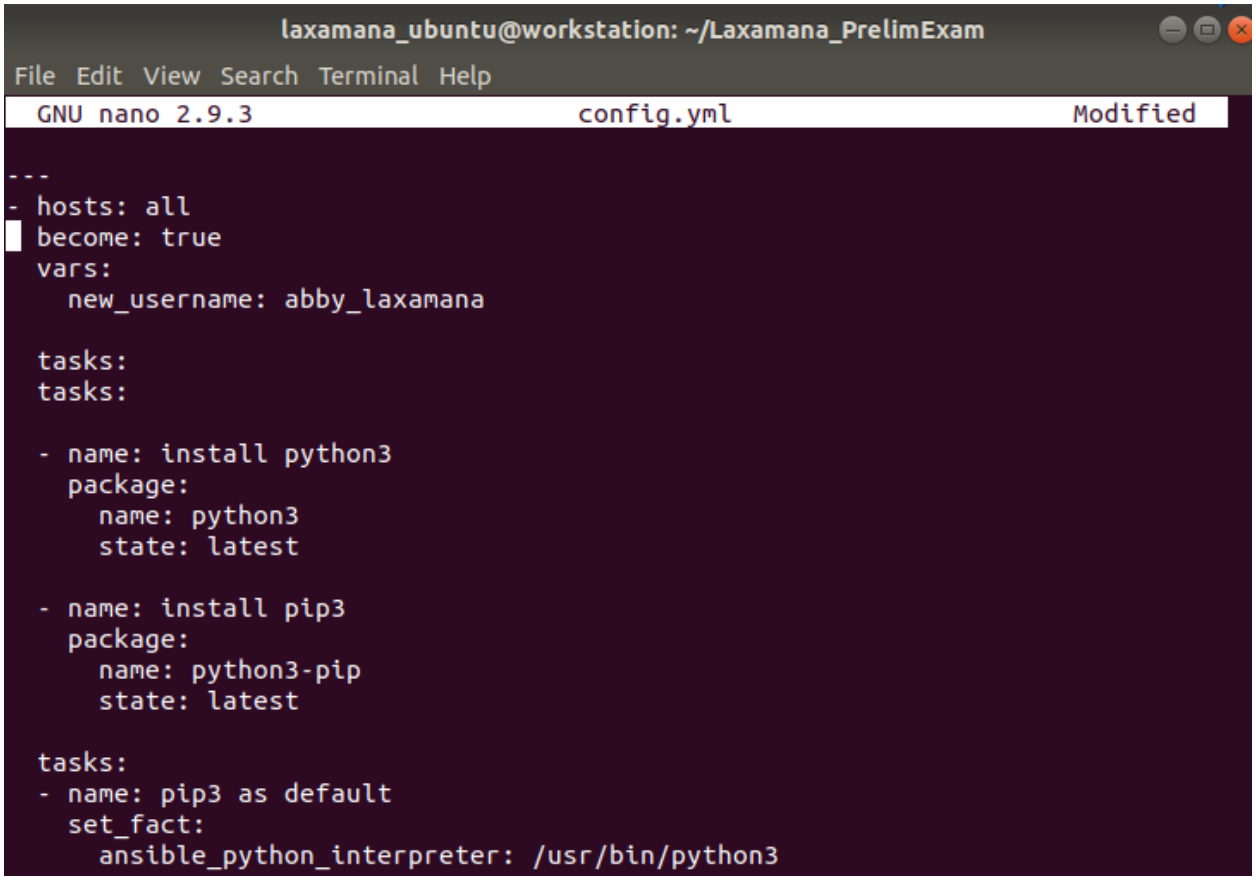




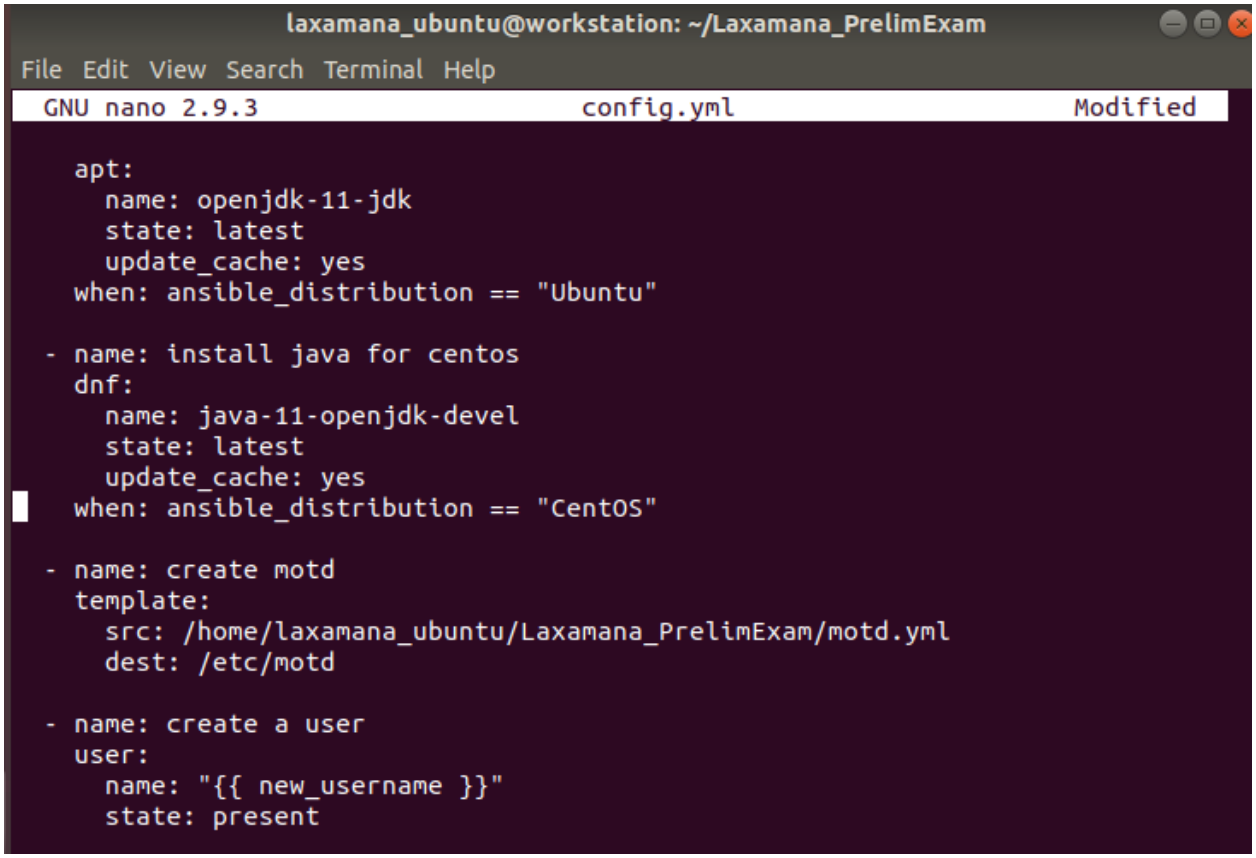
For this part, I copied the inventory and ansible.cfg from the other repository we did from the previous activity as it can be applied here as well.

d. PLAYBOOK I-P-O

INPUT


laxamana_ubuntu@workstation: ~/Laxamana_PrelimExam
File Edit View Search Terminal Help
GNU nano 2.9.3 config.yml Modified

- hosts: all
become: true
vars:
new_username: abby_laxamana
tasks:
tasks:
- name: install python3
package:
name: python3
state: latest
- name: install pip3
package:
name: python3-pip
state: latest
tasks:
- name: pip3 as default
set_fact:
ansible_python_interpreter: /usr/bin/python3



This is my content of my playbook to do all the tasks.

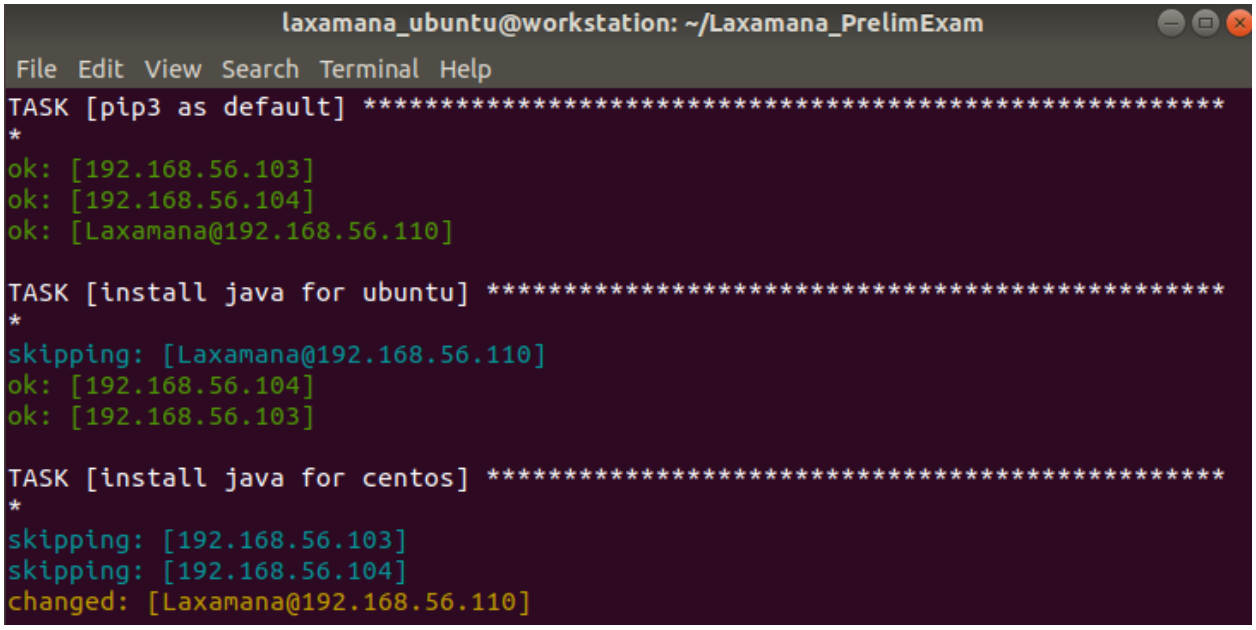
PROCESS

```
laxamana_ubuntu@workstation:~/Laxamana_PrelimExam$ sudo nano config.yml
laxamana_ubuntu@workstation:~/Laxamana_PrelimExam$ ansible-playbook --ask-becom
e-pass config.yml
BECOME password:

PLAY [all] *********************************************************************
*

TASK [Gathering Facts] *********************************************************
*
ok: [192.168.56.104]
ok: [192.168.56.103]
ok: [Laxamana@192.168.56.110]

TASK [install python3] *********************************************************
*
ok: [192.168.56.103]
ok: [192.168.56.104]
ok: [Laxamana@192.168.56.110]

TASK [install pip3] ************************************************************
*
ok: [Laxamana@192.168.56.110]
changed: [192.168.56.104]
changed: [192.168.56.103]
```

```
TASK [pip3 as default] *********************************************************
*
ok: [192.168.56.103]
ok: [192.168.56.104]
ok: [Laxamana@192.168.56.110]

TASK [install java for ubuntu] *************************************************
*
[WARNING]: Updating cache and auto-installing missing dependency: python3-apt
fatal: [Laxamana@192.168.56.110]: FAILED! => {"changed": false, "cmd": "apt-get
 update", "msg": "[Errno 2] No such file or directory: b'apt-get': b'apt-get'",
 "rc": 2, "stderr": "", "stderr_lines": [], "stdout": "", "stdout_lines": []}
changed: [192.168.56.103]
changed: [192.168.56.104]

TASK [install java for centos] *************************************************
*
```

WORKING AND COMPLETE PROCESS

```
laxamana_ubuntu@workstation:~/Laxamana_PrelimExam$ sudo nano config.yml
laxamana_ubuntu@workstation:~/Laxamana_PrelimExam$ ansible-playbook --ask-becom
e-pass config.yml
BECOME password:

PLAY [all] *********************************************************************
*

TASK [Gathering Facts] *********************************************************
*
ok: [192.168.56.104]
ok: [192.168.56.103]
ok: [Laxamana@192.168.56.110]

TASK [install python3] *********************************************************
*
ok: [192.168.56.104]
ok: [192.168.56.103]
ok: [Laxamana@192.168.56.110]

TASK [install pip3] ************************************************************
*
ok: [192.168.56.103]
ok: [192.168.56.104]
ok: [Laxamana@192.168.56.110]
```



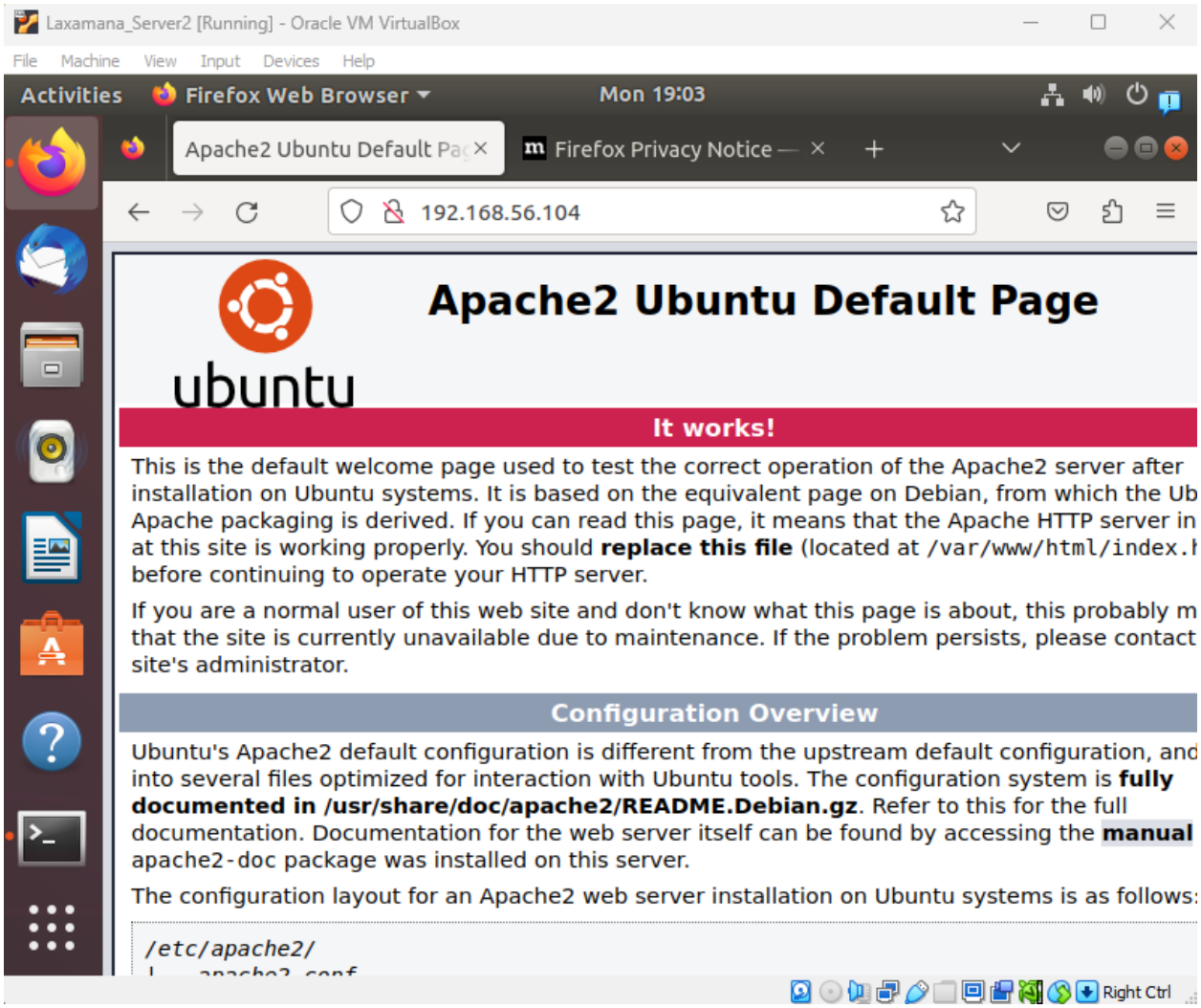
```
TASK [create motd] ************************************************************
*
ok: [192.168.56.103]
ok: [192.168.56.104]
ok: [Laxamana@192.168.56.110]

TASK [create a user] **********************************************************
*
changed: [192.168.56.104]
changed: [192.168.56.103]
changed: [Laxamana@192.168.56.110]

PLAY RECAP ********************************************************************
*
192.168.56.103             : ok=7    changed=1    unreachable=0    failed=0
skipped=1    rescued=0    ignored=0
192.168.56.104             : ok=7    changed=1    unreachable=0    failed=0
skipped=1    rescued=0    ignored=0
Laxamana@192.168.56.110    : ok=7    changed=1    unreachable=0    failed=0
skipped=1    rescued=0    ignored=0

laxamana_ubuntu@workstation:~/Laxamana_PrelimExam$
```

The first try to run the playbook, I encountered an error but I still screenshot it to provide a proof that there are changes happened that's why it is already "ok" in the complete and working process.

OUTPUT

```
laxamana_ubuntu@workstation:~/Laxamana_PrelimExam$ whereis python3
python3: /usr/bin/python3.6-config /usr/bin/python3.6m /usr/bin/python3.6 /usr/
bin/python3 /usr/bin/python3.6m-config /usr/lib/python3.8 /usr/lib/python3.7 /u
sr/lib/python3.6 /usr/lib/python3 /etc/python3.6 /etc/python3 /usr/local/lib/py
thon3.6 /usr/include/python3.6m /usr/include/python3.6 /usr/share/python3 /usr/
share/man/man1/python3.1.gz
```

```
laxamana_ubuntu@workstation:~/Laxamana_PrelimExam$ python3 --version
Python 3.6.9
```


Laxamana_Server2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Firefox Web Browser
Mon 19:03
Apache2 Ubuntu Default Pa
Firefox Privacy Notice —
192.168.56.104
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 Ub Apache packaging is derived. If you can read this page, it means that the Apache HTTP server in at this site is working properly. You should replace this file (located at /var/www/html/index.h 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 m that the site is currently unavailable due to maintenance. If the problem persists, please contact site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and 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 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/
Right Ctrl

Laxamana_Server1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Firefox Web Browser
Mon 19:04
Apache2 Ubuntu Default Pa
192.168.56.103
Apache2 Ubuntu Default Page
ubuntu
It works!
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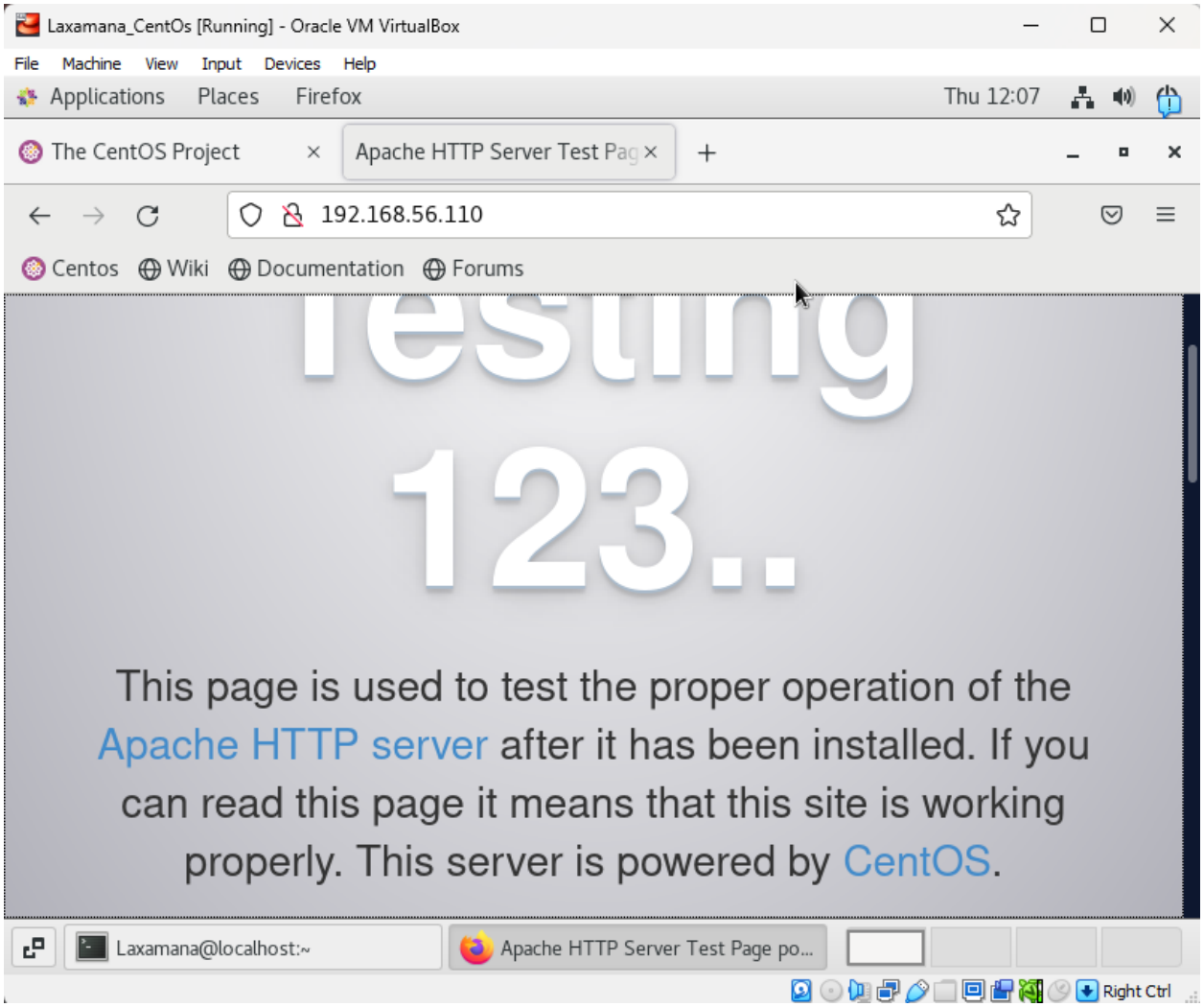
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
/etc/apache2/
Right Ctrl



These are the proof that I accomplished the tasks in the prelim exam.

e. Repository link
https://github.com/Abigaiiiil/Laxamana_PrelimExan.git