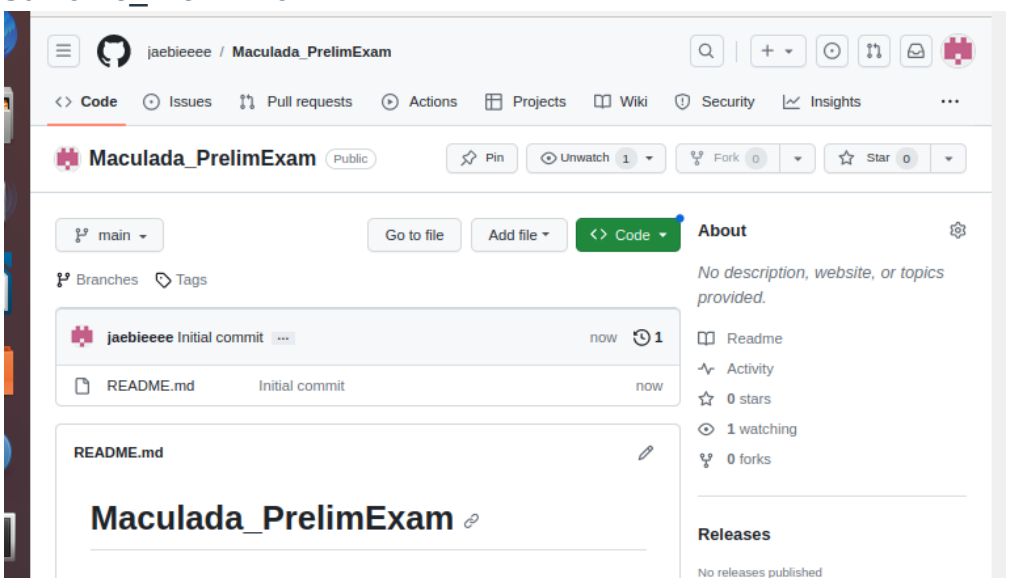
Prelim Exam	
Name: Jaira Biane Maculada	**Date: 09/25/23**
Course/Section: CpE31S6	**Instructor:** Dr. Jonathan V. Taylar

1. Note: You are required to create a document report of the steps you will do for this exam. All screenshots should be labeled and explained properly.
2. Create a repository in your GitHub account and label it as Surname_PrelimExam



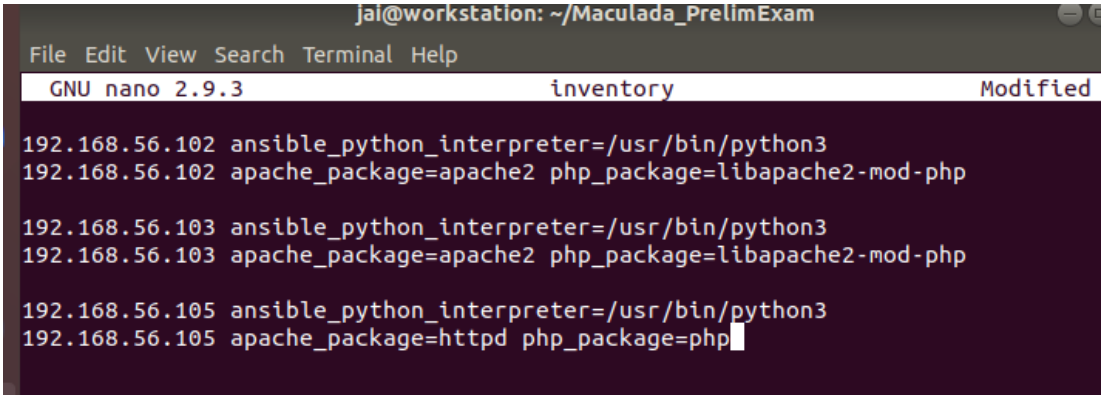
(I made a new repository in this part of this activity and in order to clone it in my workstation, I copied the ssh of this repository.)

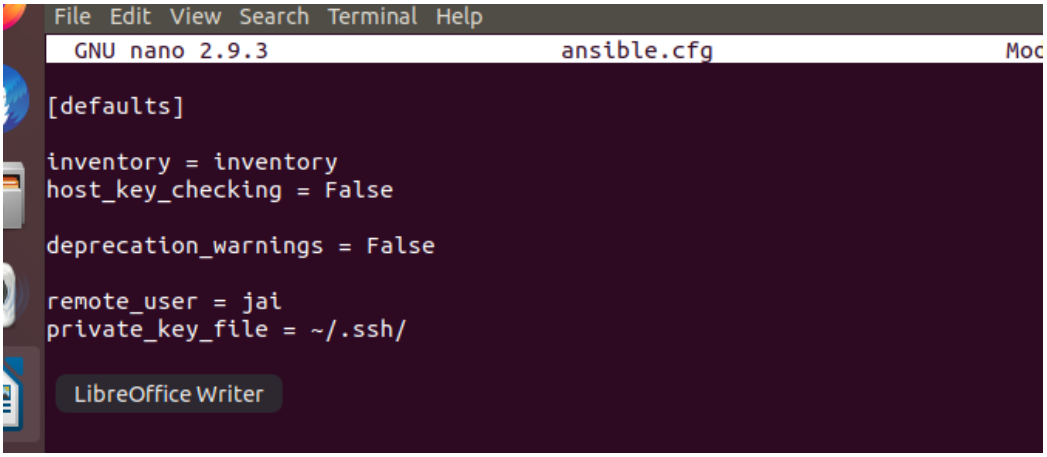
3. Clone your new repository in your CN.

```
jai@workstation:~$ git clone git@github.com:jaebieeee/Maculada_PrelimExam.git
Cloning into 'Maculada_PrelimExam'...
The authenticity of host 'github.com (192.30.255.112)' can't be established.
ECDSA key fingerprint is SHA256:p2QAMXNIC1TJYWeIOttrVc98/R1BUFWu3/LiyKgUfQM.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'github.com,192.30.255.112' (ECDSA) to the list of
nown 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.
jai@workstation:~$ ls
CPE232_Maculada  Documents  examples.desktop     Music     Public     Videos
Desktop          Downloads  Maculada_PrelimExam  Pictures  Templates
```

4. In your CN, create an inventory file and ansible.cfg files.

```
jai@workstation:~/Maculada_PrelimExam$ touch ansible.cfg inventory
jai@workstation:~/Maculada_PrelimExam$ ls
ansible.cfg  inventory  README.md
```





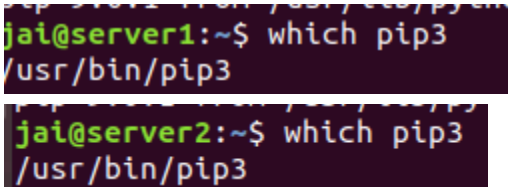
(In this part, I created two files using the touch command. In the inventory, I stored all the ip addresses of workstation and centOS. While in the ansible, I stored the script from the previous HOA so that it won't be time consuming.)

5. Create an Ansible playbook that does the following with an input of a config.yaml file for both Manage Nodes
    - Installs the latest python3 and pip3

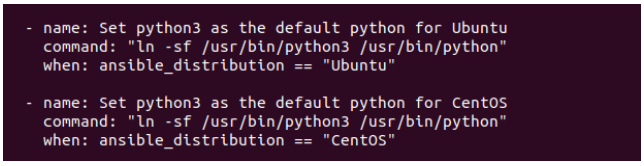
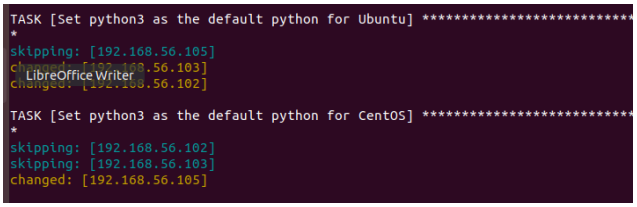
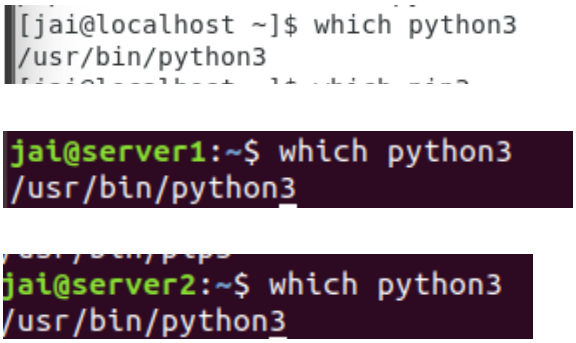
INPUT	File Edit View Search Terminal Help GNU nano 2.9.3 config.yaml --- - hosts: all become: true tasks: - name: Update package cache package: update_cache: yes - name: Install Python3 and Pip3 package: name: "{{ item }} " state: latest with_items: - python3 - python3-pip
PROCESS	TASK [Install Python3 and Pip3] *********** * ok: [192.168.56.103] => (item=python3) ok: [192.168.56.102] => (item=python3) ok: [192.168.56.103] => (item=python3-pip) ok: [192.168.56.102] => (item=python3-pip) ok: [192.168.56.105] => (item=python3) Ubuntu Software 105] => (item=python3-pip)
OUTPUT	jai@server1:~$ python3 --version Python 3.6.9 jai@server1:~$ pip3 --version pip 9.0.1 from /usr/lib/python3/dist-packages (python 3.6) jai@server2:~$ python3 --version Python 3.6.9 jai@server2:~$ pip3 --version pip 9.0.1 from /usr/lib/python3/dist-packages (python 3.6) [jai@localhost ~]$ python3 --version Python 3.6.8 [jai@localhost ~]$ pip3 --version pip 9.0.3 from /usr/lib/python3.6/site-packages (python 3.6)

- use pip3 as default pip

INPUT	- name: Set pip3 as the default python for Ubuntu command: "ln -sf /usr/bin/pip3 /usr/bin/pip" when: ansible_distribution == "Ubuntu" - name: Set pip3 as the default python for CentOS command: "ln -sf /usr/bin/pip3 /usr/bin/pip" when: ansible_distribution == "CentOS"
PROCESS	TASK [Set pip3 as the default python for Ubuntu] *********** * skipping: [192.168.56.105] changed: [192.168.56.102] changed: [192.168.56.103] Files TASK [Set pip3 as the default python for CentOS] *********** * skipping: [192.168.56.102] skipping: [192.168.56.103] changed: [192.168.56.105]
OUTPUT	[jai@localhost ~]$ which pip3 /usr/bin/pip3

- use python3 as default python

INPUT	
PROCESS	
OUTPUT	

- Install Java open-jdk

INPUT	
PROCESS	
OUTPUT	

- Create Motd containing the text defined by a variable defined in config.yaml file and if there is no variable input the default motd

is "Ansible Managed node by (your user name)"
- Create a user with a variable defined in config.yaml

5. PUSH and COMMIT your PrelimExam in your GitHub repo

```
jai@workstation:~/Maculada_PrelimExam$ git add *
jai@workstation:~/Maculada_PrelimExam$ git commit -m "Ansible basic commands"
[main 6aa3e1e] Ansible basic commands
 3 files changed, 69 insertions(+)
 create mode 100644 ansible.cfg
 create mode 100644 config.yaml
 create mode 100644 inventory
jai@workstation:~/Maculada_PrelimExam$ git push origin
Counting objects: 5, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 992 bytes | 992.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0)
To github.com:jaebieeee/Maculada_PrelimExam.git
   72c1744..6aa3e1e  main -> main
```

6. Your document report should be submitted here.

7. For your prelim exam to be counted, please paste your repository link here.

https://github.com/jaebieeee/Maculada_PrelimExam.git