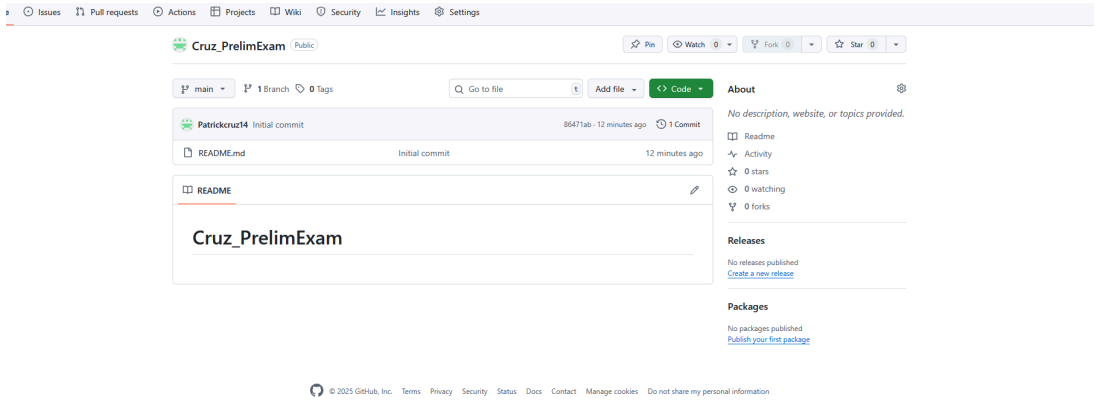
Cruz, Patrick Danielle C.

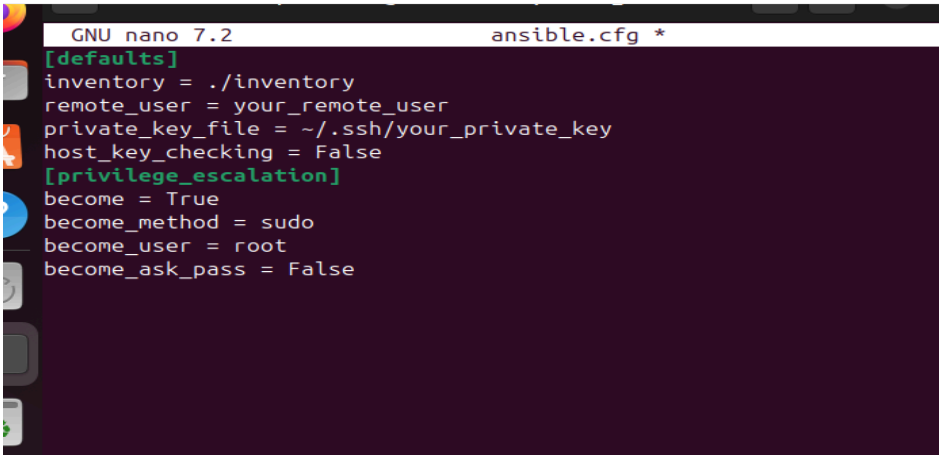
Procedure:

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. LABELED AND EXPLAIN EACH CODE (PLAYBOOK) No explanation = Minus Points
2. Create a repository in your GitHub account and label it as Surname_PrelimExam



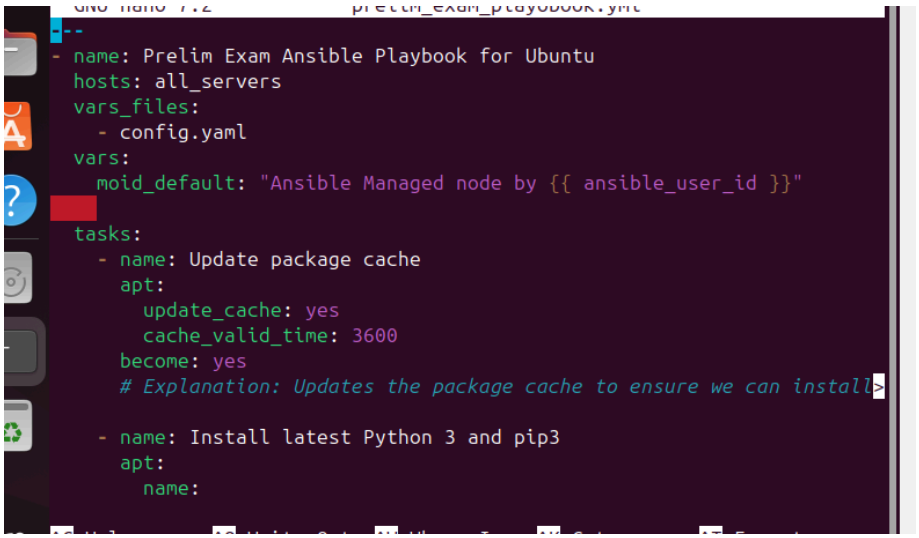

```
patrickcruz@Workstation:~/CPE232_Patrickcruz$ git clone git@github.com:P
atrickcruz14/Cruz_PrelimExam.git
Cloning into 'Cruz_PrelimExam'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
```

3. Clone your new repository in your CN.
4. In your CN, create an inventory file and ansible.cfg files.

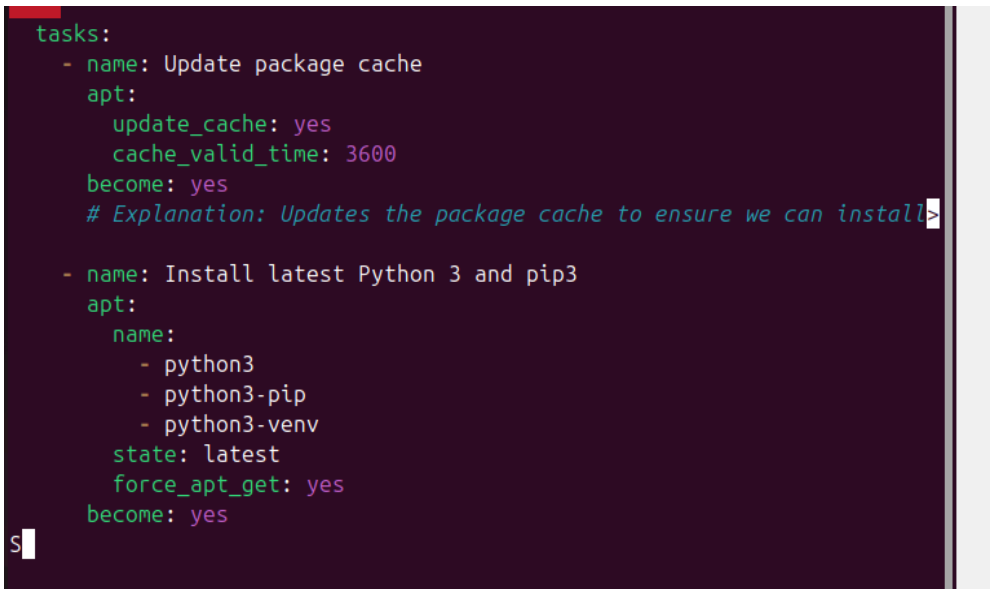


* This inventory defines two Ubuntu servers with their IP addresses and specifies that Ansible should use Python 3 on all nodes.

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



```
---
- name: Prelim Exam Ansible Playbook for Ubuntu
  hosts: all_servers
  vars_files:
    - config.yaml
  vars:
    moid_default: "Ansible Managed node by {{ ansible_user_id }}"

  tasks:
    - name: Update package cache
      apt:
        update_cache: yes
        cache_valid_time: 3600
      become: yes
      # Explanation: Updates the package cache to ensure we can install>

    - name: Install latest Python 3 and pip3
      apt:
        name:
```



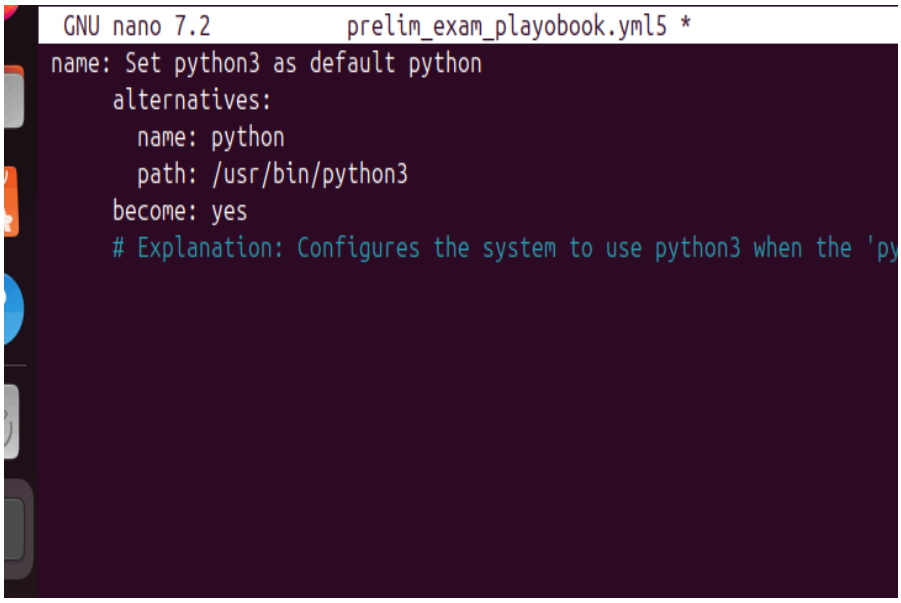
```
  tasks:
    - name: Update package cache
      apt:
        update_cache: yes
        cache_valid_time: 3600
      become: yes
      # Explanation: Updates the package cache to ensure we can install>

    - name: Install latest Python 3 and pip3
      apt:
        name:
          - python3
          - python3-pip
          - python3-venv
        state: latest
        force_apt_get: yes
      become: yes
S
```

* Updates the package cache to ensure we can install latest packages

* use pip3 as default pip

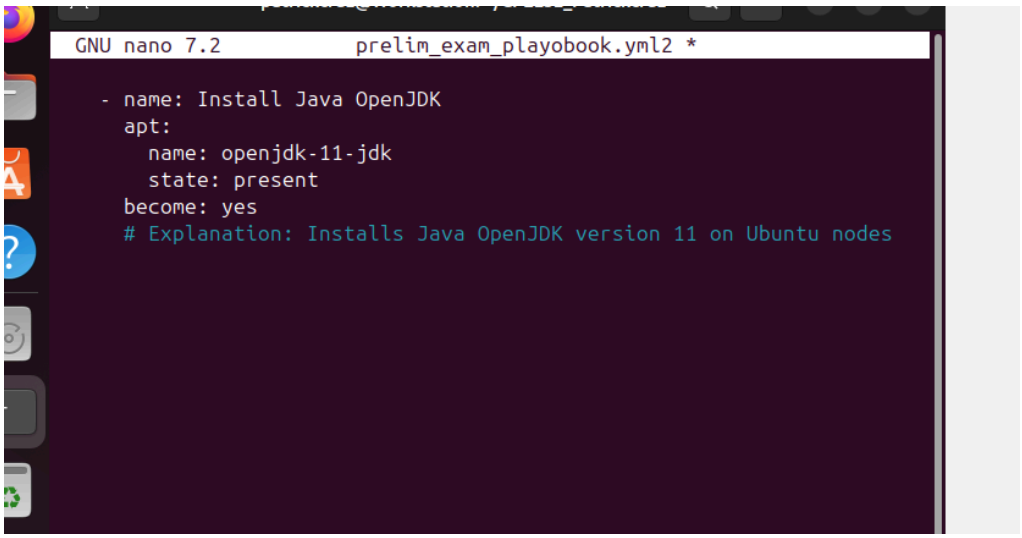
```
- name: Install latest Python 3 and pip3
  apt:
    name:
      - python3
      - python3-pip
      - python3-venv
    state: latest
    force_apt_get: yes
  become: yes
```

- use python3 as default python

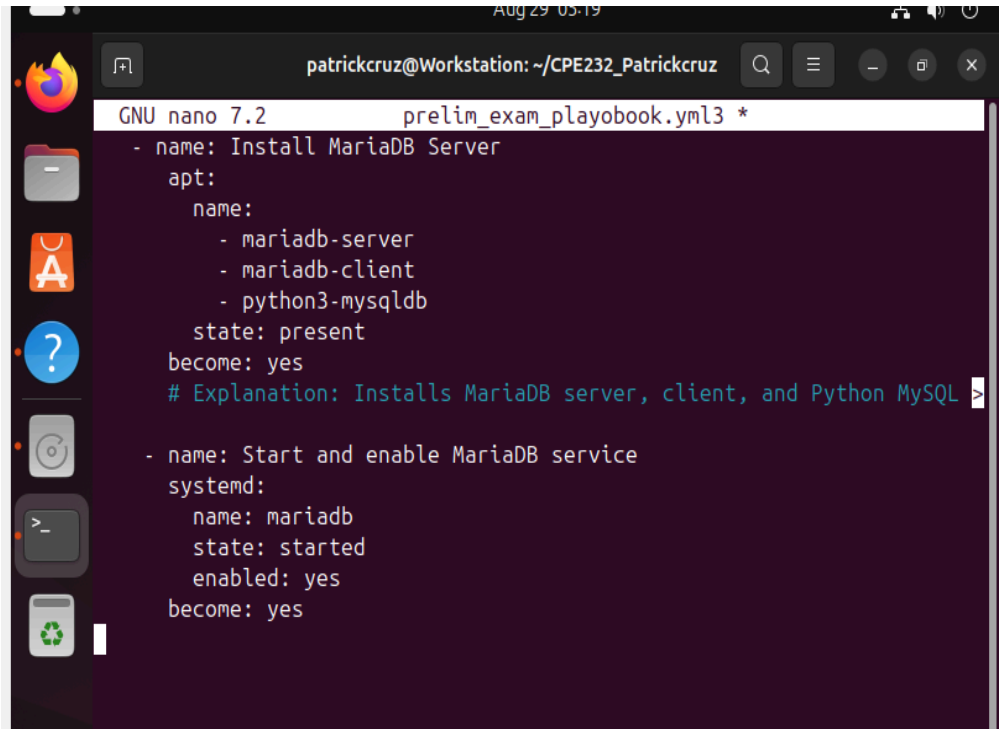


* Installs the latest versions of Python 3, pip3, and virtual environment package

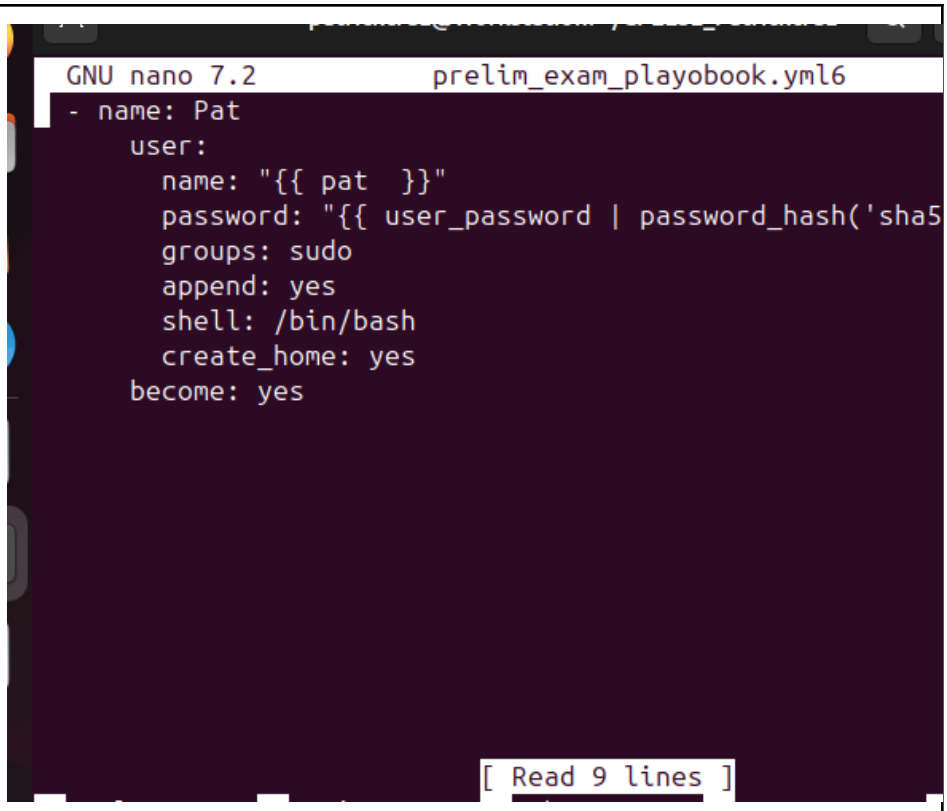
- Install Java open-jdk



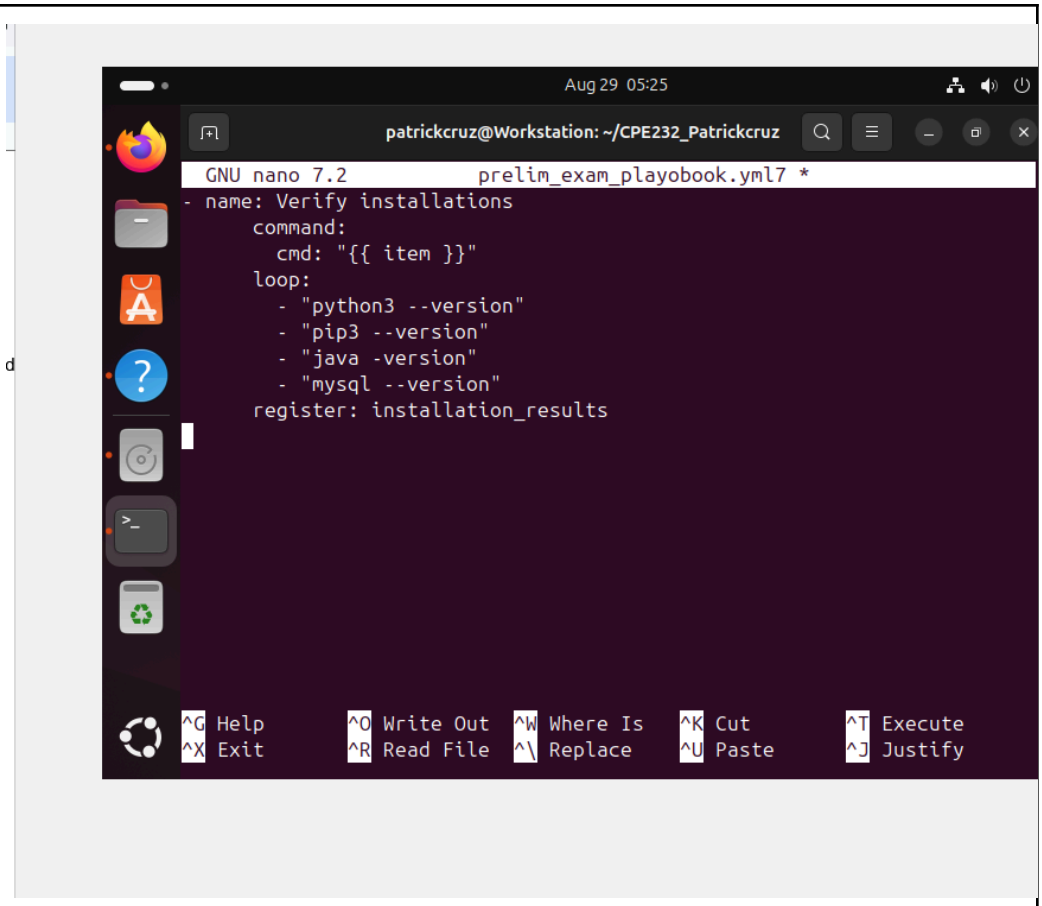
- Install MariaDB as well as starting the server, create a database and a table using mariaDB and input one record into a table USING ANSIBLE ONLY



- 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

https://github.com/Patrickcruz14/Cruz_PrelimExam#

```
patrickcruz@Workstation:~/CPE232_Patrickcruz$ git clone git@github.com:P
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```

6. Your document report should be submitted here.

7. For your prelim exam to be counted, please paste your repository link here. (Failure to submit will result in ZERO)

8. NO USE OF EXTERNAL WEBSITES SUCH AS , REDDIT, CHATGPT, GITHUB, GEMINI, CLAUDE, FORUMS, AND DOCUMENTATIONS. FAILURE TO COMPLY WITH RESULT IN ZERO.