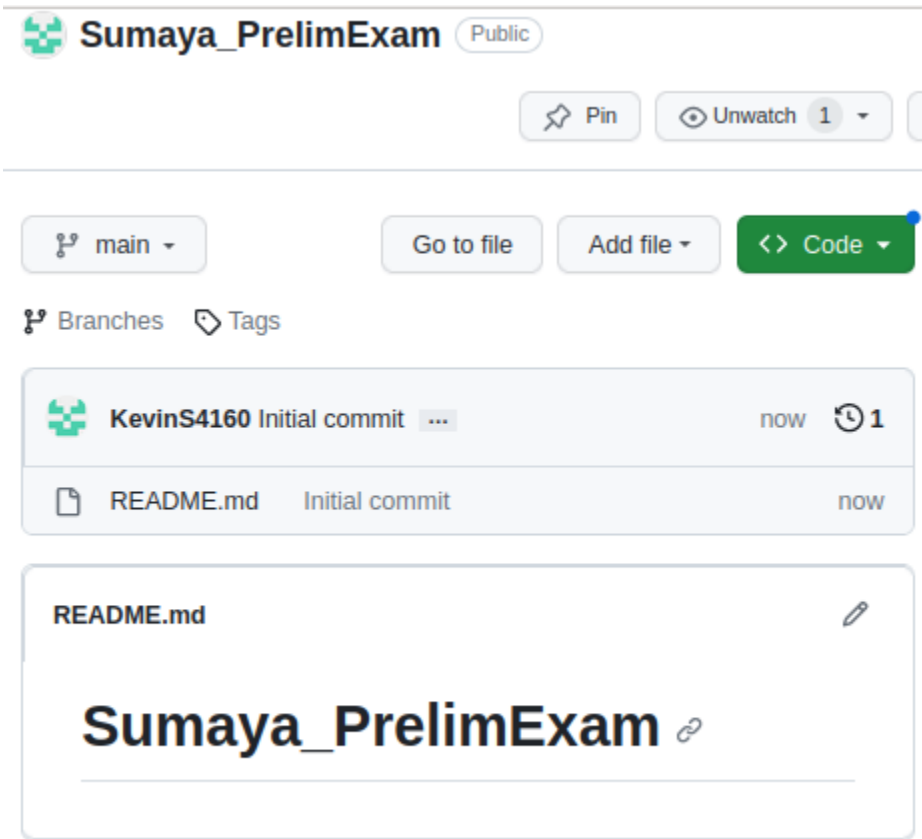


|   |                          |
|---|--------------------------|
| Name: Kevin Sumaya  | Date : September 25 2023 |
| Section: 31S6   | Engr. Taylar             |
| <p>Control Node (CN) - 1<br/> Manage Node (MN) - 1 Ubuntu<br/> Manage Node (MN) - 1 CentOS</p> <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. Create a repository in your GitHub account and label it as Surname_PrelimExam</li> </ol>  |                          |
|  <p>The screenshot displays a GitHub repository interface for 'Sumaya_PrelimExam'. At the top, it shows the repository name, a 'Public' badge, and interaction buttons like 'Pin', 'Unwatch', and '1' (likely forks). Below this, there are buttons for 'main', 'Go to file', 'Add file', and 'Code'. The 'Branches' tab is selected, showing a list of branches with the 'main' branch highlighted. The commit history shows an 'Initial commit' by 'KevinS4160' at 'now' with 1 commit. Below the commit history, the 'README.md' file is shown with its content: 'Sumaya_PrelimExam' followed by a link icon.</p> |                          |

3. Clone your new repository in your CN.

```
kevin@Workstation:~$ git clone https://github.com/KevinS4160/Sumaya_PrelimExam.git
Cloning into 'Sumaya_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
Unpacking objects: 100% (3/3), done.
kevin@Workstation:~$
```

```
kevin@Workstation:~$ ls
'$'\033'[3~' Downloads Music sysads6
'$'\033'[3~.pub' examples.desktop Pictures Templates
CPE232_Sumaya id_rsa playbook.yaml Token1.txt
Desktop id_rsa.pub Public Token.txt
Documents inventory Sumaya_PrelimExam Videos
kevin@Workstation:~$ cd Sumaya_PrelimExam
kevin@Workstation:~/Sumaya_PrelimExam$
```

```
kevin@Workstation:~$ cd Sumaya_PrelimExam
kevin@Workstation:~/Sumaya_PrelimExam$ git config --global user.name "kevin"
kevin@Workstation:~/Sumaya_PrelimExam$ git config --global user.email "qkrasuma@tip.edu.ph"
```

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

```
kevin@Workstation:~/Sumaya_PrelimExam$ sudo nano inventory
```

```
GNU nano 2.9.3 inventory
kevin@192.168.56.102 default_pip=pip3 default_pyhton=python3
kevin@192.168.56.110 default_pip=python3-pip default_pyhton=rh-python3
```

```
kevin@Workstation:~/Sumaya_PrelimExam$ sudo nano ansible.cfg
```

```
GNU nano 2.9.3 ansible.cfg
[defaults]
inventory = inventory
host_key_checking = False
deprecation_warnings = False
remote_user = kevin
private_key_file = ~/.ssh/
```

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

```
GNU nano 2.9.3 config.yaml Modified
---
- host: all
  become: true
  task:
    - name: install the latest python3 and pip3
```

- use pip3 as default pip

```
GNU nano 2.9.3 config.yaml
---
- host: all
  become: true
  task:
    - name: install the latest python3 and pip3
      apt:
        name:
          - python3
```

- use python3 as default python

```
- name: install python3 and pip3
package:
  name:
    - python3
    - python3-pip
  state: latest
  update_cache: yes
```

- Install Java open-jdk

```
- name: Install java open-jdk in CentOS
yum:
  name:
    - java-11-openjdk
  state: latest
  update_cache: yes
  when: ansible_distribution == "CentOS"

- name: Create a user
ansible.builtin.user:
  name: "{{ username }}"
  comment: NewUser
  createhome: yes
  home: /home/"{{ username }}"
  shell: /bin/bash
```

- 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)"

```
GNU nano 2.9.3 config.yaml
--
- hosts: all
  become: true
  task:
  vars:
    motd:
      - Ansible Managed Node by Sumaya, done on {{ Inventory_hostname }}
  vars_prompt:
    - name: username
      prompt: Input your username
      private: false
    - name: uid
      prompt: Input your own UID
      private: false

  tasks:

    - name: Banner MOTD
      ansible.builtin.debug:
        msg:
          - "{{ motd }}"
```

- Create a user with a variable defined in config.yaml

```
- name: Create a user
  ansible.builtin.user:
    name: "{{ username }}"
    comment: NewUser
    createhome: yes
    home: /home/"{{ username }}"
    shell: /bin/bash
```

5. PUSH and COMMIT your PrelimExam in your GitHub repo

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/KevinS4160/Sumaya\\_PrelimExam.git](https://github.com/KevinS4160/Sumaya_PrelimExam.git)

