Name: Pacinos, Angela Monique A.	Date Performed: 09-25-23
Course/Section: CPE232 - CPE31S4	Date Submitted: 09-25-23
Instructor: Dr. Jonathan V. Taylar	Semester and SY: 1st Sem / '23 - '24

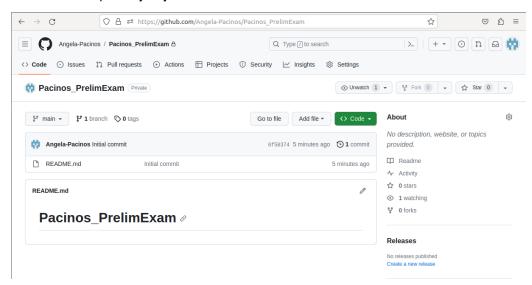
## **PRELIM EXAM**

## **Tools Needed**

- 1. Control Node (CN) 1
- 2. Manage Node (MN) 1 Ubuntu
- 3. Manage Node (MN) 1 CentOS

## **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.
- 2. Create a repository in your GitHub account and label it as Surname\_PrelimExam



3. Clone your new repository in your CN.

```
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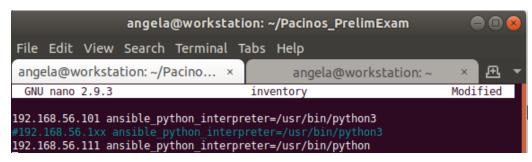
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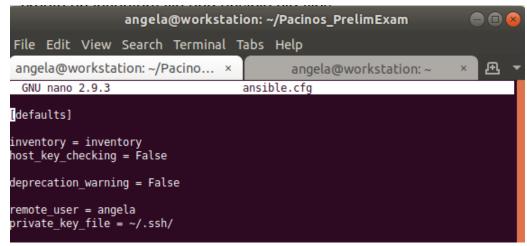
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```

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





- 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
  - use pip3 as default pip
  - use python3 as default python
  - Install Java open-jdk
  - 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

```
angela@workstat
File Edit View Search Terminal Tabs Help
angela@workstation: ~/Pacinos_Prelim... ×
                                                         angela@workstation: ~
 GNU nano 2.9.3
 hosts: all
 become: yes
 vars:
   motd:
    - Ansible Manages Node by angela, done on {{ inventory_hostname }}
 vars_prompt:
   - name: username
     prompt: input yout user name
     private: false
   - name: uid
     prompt: input your user UID
     private: false
 tasks:
   - name: install Python3 and Pip3
     package:
       name:
         - python3
       - python3-pip
state: latest
       update_cache: yes
   - name: Set Python3 as the default
     alternatives:
      name: python
       path: /usr/bin/python3
   - name: Install java Open-JDK in Ubuntu
     apt:
       name:
        - openjdk-17-jd
       state: latest
      update cache: yes
     when: ansible_distribution == 'Ubuntu'
   - name: Install java Open-JDK in CentOS
     yum:
       name:
        - java-11-openjdk
       state: latest
       update cache: yes
     when: ansible_distribution == 'CentOS'
   - name: Set Pip3 as the default pip
     alternatives:
       name: pip
       path: /usr/bin/pip3
   - name: Create MOTD
     template:
       src: motd.j2
       dest: /etc/motd
       motd_text: "{{ motd_text | default('Ansible Managed node by ' + ansible_user) }}"
```

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

5. PUSH and COMMIT your PrelimExam in your GitHub repo

```
angela@workstation:~/Pacinos PrelimExam$ git add *
angela@workstation:~/Pacinos PrelimExam$ qit commit -m "PRELIM"
[main 755933a] PRELIM
 3 files changed, 77 insertions(+)
 create mode 100644 ansible.cfg
 create mode 100644 config.yaml
 create mode 100644 inventory
angela@workstation:~/Pacinos PrelimExam$ git push origin
Username for 'https://github.com': Angela-Pacinos
Password for 'https://Angela-Pacinos@github.com':
Counting objects: 5, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 1.08 KiB | 1.08 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0)
To https://github.com/Angela-Pacinos/Pacinos PrelimExam.git
   6f58374..755933a main -> main
angela@workstation:~/Pacinos PrelimExam$
```

6. Your document report should be submitted here.		
7. For your prelim exam to be counted, please paste your repository link here.		
Link		
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		