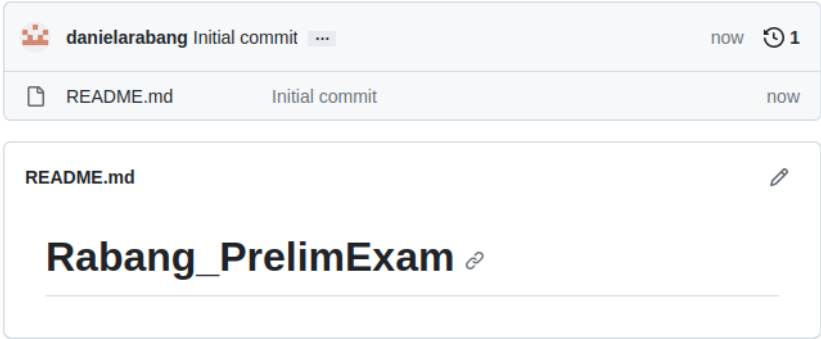
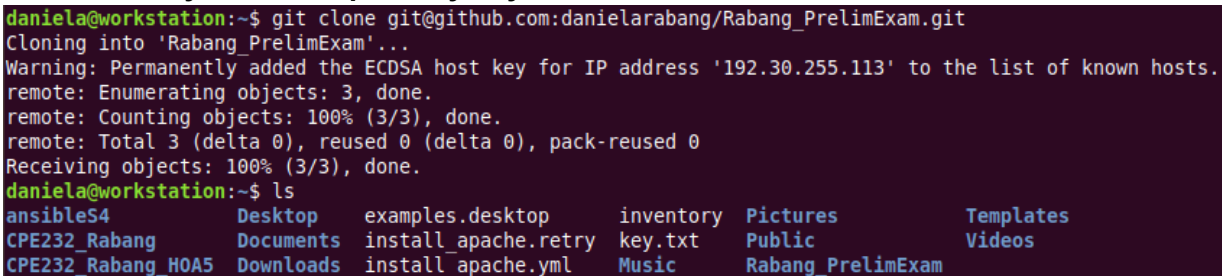
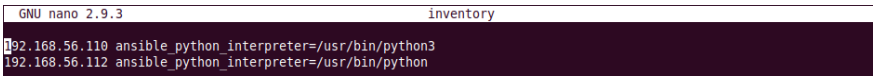


Name: Daniela Marie D. Rabang	Date: Sep 25, 2023
Section: CPE31S4	Instructor: Dr. Jonathan V. Taylor
Prelim Skills Exam	
Tools Needed: Control Node (CN) - 1 Manage Node (MN) - 1 Ubuntu Manage Node (MN) - 1 CentOS	
Procedure: Note: You are required to create a document report of the steps you will do for this exam. All screenshots should be labeled and explained properly.	
1. Create a repository in your GitHub account and label it as Surname_PrelimExam	
	
Explanation: I had created a repository from my github account that is named as Rabang_PrelimExam.	
2. Clone your new repository in your CN.	
	
Explanation: Then I had cloned the repository to the control node which is the workstation.	
3. In your CN, create an inventory file and ansible.cfg files.	
command	<code>daniela@workstation:~/Rabang_PrelimExam\$ sudo nano inventory</code>
file	

Explanation: I had created and modified the content of the inventory file.

command	
file	<pre>GNU nano 2.9.3 ansible.cfg [Defaults] inventory = inventory host_key_checking = False deprecation_warning = False remote_user = daniela private_key_file = ~/.ssh/</pre>

Explanation: I had created and modified the content of the ansible.cfg file.

4. 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

Playbook	<pre>GNU nano 2.9.3 config.yaml - - - hosts: all become: true tasks: - name: install python3 in Ubuntu apt: name: python3 when: ansible_distribution == "Ubuntu" - name: install python3 in CentOS yum: name: python3 when: ansible_distribution == "CentOS"</pre>
Successful run	<pre>daniela@workstation:~/Rabang_PrelimExam\$ ansible-playbook --ask-become-pass config.yaml SUDO password: PLAY [all] ***** ***** TASK [Gathering Facts] ***** ***** ok: [192.168.56.110] ok: [192.168.56.112] TASK [install python3 in Ubuntu] ***** ***** skipping: [192.168.56.112] ok: [192.168.56.110] TASK [install python3 in CentOS] ***** ***** skipping: [192.168.56.110] changed: [192.168.56.112] PLAY RECAP ***** ***** 192.168.56.110 : ok=2 changed=0 unreachable=0 failed=0 192.168.56.112 : ok=2 changed=1 unreachable=0 failed=0</pre>
Evidences	<pre>daniela@server1:~\$ python3 -V Python 3.6.9</pre>

```
[daniela@localhost ~]$ python3 -V
Python 3.6.8
```

Explanation: I had issued the commands to the playbook that can install the python3 from the two manage node.

- use pip3 as default pip

Playbook

```
GNU nano 2.9.3 config.yaml Modified
---
- hosts: all
  become: true
  tasks:

    - name: install python3 in Ubuntu
      apt:
        name: python3
        when: ansible_distribution == "Ubuntu"

    - name: install python3 in CentOS
      yum:
        name: python3
        when: ansible_distribution == "CentOS"

    - name: install pip3 in Ubuntu
      apt:
        name=python3-pip state=present
        when: ansible_distribution == "Ubuntu"

    - name: install pip in CentOS
      apt:
        name=python-pip state=present
        when: ansible_distribution == "CentOS"
```

Successful run

```
daniela@workstation:~/Rabang_PrelimExam$ ansible-playbook --ask-become-pass config.yaml
SUDO password:

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [192.168.56.112]
ok: [192.168.56.110]

TASK [install python3 in Ubuntu] *****
skipping: [192.168.56.112]
ok: [192.168.56.110]

TASK [install python3 in CentOS] *****
skipping: [192.168.56.110]
ok: [192.168.56.112]

TASK [install pip3 in Ubuntu] *****
skipping: [192.168.56.112]
ok: [192.168.56.110]

TASK [install pip in CentOS] *****
skipping: [192.168.56.110]
fatal: [192.168.56.112]: FAILED! => {"changed": false, "cmd": "apt-get update", "msg": "[Errno 2] No such file or directory", "rc": 2}
to retry, use: --limit @/home/daniela/Rabang_PrelimExam/config.retry

PLAY RECAP *****
192.168.56.110      : ok=3    changed=0    unreachable=0    failed=0
192.168.56.112     : ok=2    changed=0    unreachable=0    failed=1
```

Evidences	<pre>daniela@server1:~\$ pip3 -V pip 9.0.1 from /usr/lib/python3/dist-packages (python 3.6)</pre>
-----------	---

Explanation: I had issued the commands to the playbook that can install the pip3 and pip from the two manage node.

- use python3 as default python

Playbook	
Successful run	
Evidences	

- 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

5. PUSH and COMMIT your PrelimExam in your GitHub repo

```
daniela@workstation:~/Rabang_PrelimExam$ git add *
daniela@workstation:~/Rabang_PrelimExam$ git commit -m "Final"
[main 929a3cf] Final
 1 file changed, 9 insertions(+)
daniela@workstation:~/Rabang_PrelimExam$ git push origin main
Counting objects: 3, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 422 bytes | 422.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:danielarabang/Rabang_PrelimExam.git
 704blab..929a3cf  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/danielarabang/Rabang_PrelimExam.git