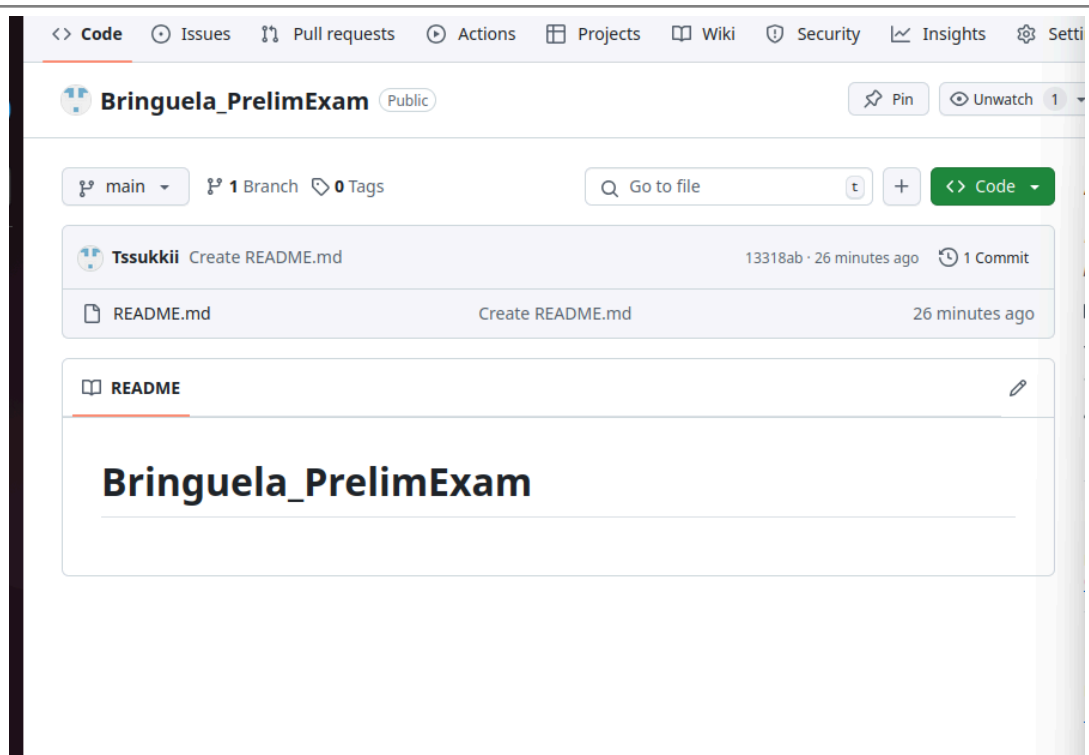


Tools Needed:

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. LABELED AND EXPLAIN EACH CODE (PLAYBOOK) No explanation = Minus Points
2. Create a repository in your GitHub account and label it as Surname_PrelimExam
3. Clone your new repository in your CN.
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
 - 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
6. Your document report should be submitted here.



Created a repository in github named Bringuela_PrelimExam

```
tracey@Workstation:~$ git clone git@github.com:Tssukkii/Bringuela_PrelimExam.git
Cloning into 'Bringuela_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.
```

Cloned my repository on ubuntu desktop

```
GNU nano 7.2 /etc/ansible/ansible.cfg
[default]
inventory = /home/tracey/Bringuela_PrelimExam/inventory.yaml
remote_user = tracey
host_key_checking = true
```

```
GNU nano 7.2 inventory.yaml
server:
  hosts:
    192.168.56.114:
    192.168.56.113:
  vars:
    ansible_user: tracey
    ansible_ssh_private_key_file: /home/tracey/.ssh/id_rsa
```

Created the inventory and ansible.cfg files

```
GNU nano 7.2                                install.yaml
---
- hosts: all
  become: true
  tasks:

    - name: install python3
      apt:
        name: python3

    - name: install pip3
      apt:
        name: python3-pip
```

Inside of the install.yaml

```
GNU nano 7.2                                install_Java.yaml
---
- hosts: all
  become: true
  tasks:

    - name: install Java open-jdk
      apt:
        name: default-jre

    - name: install Maria DB
      apt:
        name: mariadb-server
```

Inside of install_Java.yaml

```

tracey@Workstation:~/Bringuela_PrelimExam$ ansible-playbook --ask-become-pass install.yaml
BECOME password:

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [192.168.56.113]
ok: [192.168.56.114]

TASK [install python3] *****
ok: [192.168.56.113]
ok: [192.168.56.114]

TASK [install pip3] *****
ok: [192.168.56.113]
ok: [192.168.56.114]

PLAY RECAP *****
192.168.56.113      : ok=3    changed=0    unreachable=0    failed=0    skipped=0
rescued=0    ignored=0
192.168.56.114      : ok=3    changed=0    unreachable=0    failed=0    skipped=0
rescued=0    ignored=0

```

As you can see the install.yaml where my install python3 and pip works

```

tracey@Workstation:~/Bringuela_PrelimExam$ ansible-playbook --ask-become-pass install_Java.yaml
BECOME password:

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [192.168.56.113]
ok: [192.168.56.114]

TASK [install Java open-jdk] *****
ok: [192.168.56.114]
ok: [192.168.56.113]

TASK [install Maria DB] *****
ok: [192.168.56.114]
ok: [192.168.56.113]

PLAY RECAP *****
192.168.56.113      : ok=3    changed=0    unreachable=0    failed=0    skipped=0    r
rescued=0    ignored=0
192.168.56.114      : ok=3    changed=0    unreachable=0    failed=0    skipped=0    r
rescued=0    ignored=0

```

As you can see the installation of jdk and Mariadb works

```

tracey@Workstation:~/Bringuela_PrelimExam$ git add install_Java.yaml
tracey@Workstation:~/Bringuela_PrelimExam$ git commit -m "added install.yaml"
[main 2204bcf] added install.yaml
3 files changed, 32 insertions(+)
create mode 100644 install.yaml
create mode 100644 install_Java.yaml
create mode 100644 inventory.yaml
tracey@Workstation:~/Bringuela_PrelimExam$ git push origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 641 bytes | 641.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To github.com:Tssukkii/Bringuela_PrelimExam.git
13318ab..2204bcf main -> main

```

Added the files in the github repo

```

tracey@Workstation:~/Bringuela_PrelimExam$ ansible-playbook --ask-become-pass config.yaml
BECOME password:

PLAY [all] *****

TASK [Gathering Facts] *****
ok: [192.168.56.113]
ok: [192.168.56.114]

TASK [Create motd] *****
ok: [192.168.56.114]
ok: [192.168.56.113]

TASK [Create New User] *****
ok: [192.168.56.114]
ok: [192.168.56.113]

PLAY RECAP *****
192.168.56.113      : ok=3    changed=0    unreachable=0    failed=0    skipped=0    r
escued=0    ignored=0
192.168.56.114      : ok=3    changed=0    unreachable=0    failed=0    skipped=0    r
escued=0    ignored=0

```

As you can see that in creating a new user and creating motd works

```

tracey@Workstation:~/Bringuela_PrelimExam$ git add config.yaml
tracey@Workstation:~/Bringuela_PrelimExam$ git commit -m "added config.yaml"
[main 8e81eb0] added config.yaml
1 file changed, 15 insertions(+)
create mode 100644 config.yaml
tracey@Workstation:~/Bringuela_PrelimExam$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 432 bytes | 432.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:Tssukkii/Bringuela_PrelimExam.git
2204bcf..8e81eb0  main -> main

```

Adding config.yaml to the github

```

tracey@Server2:~$ ls
Desktop    Downloads  Music      Public    Templates
Documents  motd       Pictures   snap      Videos
tracey@Server2:~$ sudo nano motd

```

```

GNU nano 7.2                                     motd
Ansible Managed motd by Tracey

```

```

tracey@Server1:~$ ls
Desktop    Downloads  Music      Public    Templates
Documents  motd       Pictures   snap      Videos
tracey@Server1:~$ sudo nano motd

```

```
tracey@Server1: ~  
GNU nano 7.2 motd  
Ansible Managed motd by Tracey
```

Showing that the creating MOTD works

```
GNU nano 7.2 config.yaml  
--  
- hosts: all  
  become: true  
  tasks:  
    - name: Create motd  
      copy:  
        content: Ansible Managed motd by Tracey  
        dest: /home/tracey/motd  
    - name: Create New User  
      user:  
        name: Bringuela  
        state: present
```

The inside of the config.yaml

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

https://github.com/Tssukkii/Bringuela_PrelimExam.git

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