Instructions

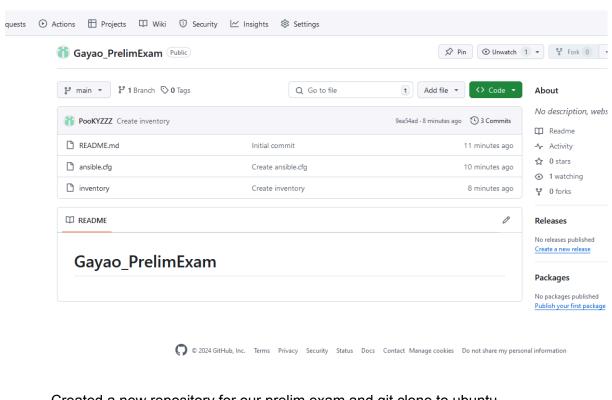| |
|---|
| Tools Needed: |
|
 1. Control Node (CN) - 1
 2. Manage Node (MN) - 2 Ubuntu

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| 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

- Created a new repository for our prelim exam and git clone to ubuntu.
3. Clone your new repository in your CN.

 |

```
qfmgayao@workstation:~/activities$ git clone git@github.com:PooKYZZZ/Gayao_PrelimExam.git
Cloning into 'Gayao_PrelimExam'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (7/7), done.
Receiving objects: 100% (9/9), done.
Resolving deltas: 100% (1/1), done.
remote: Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
qfmgayao@workstation:~/activities$ ls
Gayao_PrelimExam
qfmgayao@workstation:~/activities$ cd Gayao_PrelimExam
qfmgayao@workstation:~/activities/Gayao_PrelimExam$ ls
```

- Git clone the repository.
4. In your CN, create an inventory file and ansible.cfg files.

```
qfmgayao@workstation:~/activities/Gayao_PrelimExam$ ls
ansible.cfg  inventory  README.md
qfmgayao@workstation:~/activities/Gayao_PrelimExam$ cat ansible.cfg
[defaults]
inventory = inventory
remote_user = qfmgayao
host_key_checking = True
qfmgayao@workstation:~/activities/Gayao_PrelimExam$ cat inventory
[servers]
server1 ansible_host=192.168.56.135
server2 ansible_host=192.168.56.150
qfmgayao@workstation:~/activities/Gayao_PrelimExam$ S
```

- Created a new inventory and ansible file with servers or manage nodes inside.

5. Create an Ansible playbook that does the following with an input of a config.yaml file for both Manage Nodes

Code | Blame | 29 lines (25 loc) · 576 Bytes

```yaml
1    ---
2    - hosts: all
3      become: true
4
5      tasks:
6        - name: Install latest Python3 and pip3
7          apt:
8            name:
9              - python3
10             - python3-pip
11            state: latest
12            update_cache: yes
13
14        - name: Set pip3 as default pip
15          alternatives:
16            name: pip
17            link: /usr/bin/pip
18            path: /usr/bin/pip3
19
20        - name: Set python3 as default python
21          alternatives:
22            name: python
23            link: /usr/bin/python
24            path: /usr/bin/python3
25
26        - name: Install Java OpenJDK
27          apt:
28            name: openjdk-21-jdk
29            state: latest
```

- ○ Installs the latest python3 and pip3
- ○ use pip3 as default pip
- ○ use python3 as default python
- ○ Install Java open-jdk
- ○ Create a Python Script named "github.py" that automatically opens github on Firefox (or any default web browser) USING ANSIBLE.
- ○ 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. Screenshot / document your work. Add PROOF that all your CODES / SCRIPTS WORK.

7. Your document report should be submitted here. Your document SHOULD BE explained neatly and comprehensively.

https://github.com/PooKYZZZ/Gayao_PrelimExam.git

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

9. NO USE OF EXTERNAL WEBSITES SUCH AS REDDIT, FORUMS, GITHUB, CHATGPT, CLAUDEAI,BARD, AND DOCUMENTATIONS. FAILURE TO COMPLY WITH RESULT IN ZERO.