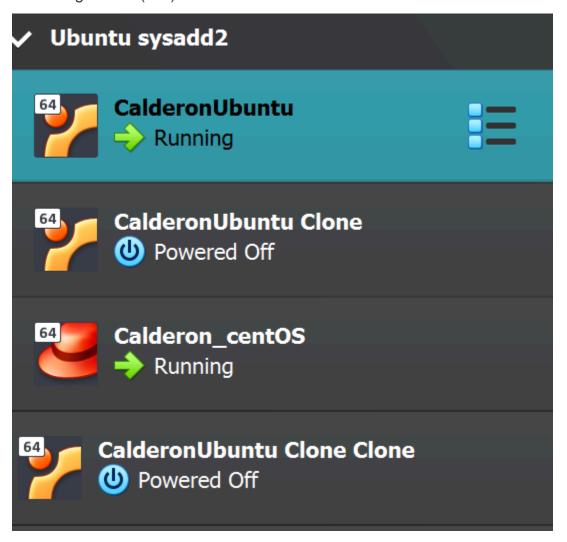
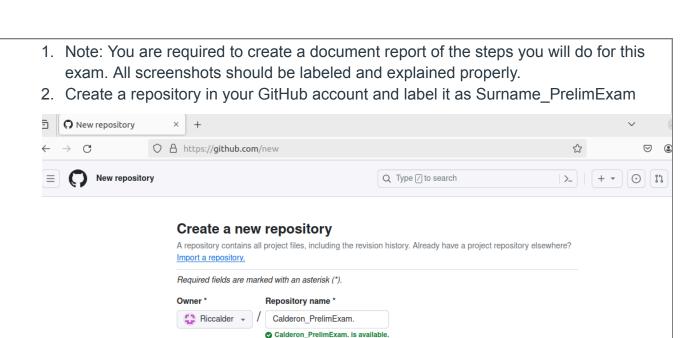
Activity No. 4	
Prelim Exam	
Course Code: CPE232	Program: BSCPE
Course Title:sysadd 2	Date Performed: 02/27/2024
Section: CPE31S1	Date Submitted: 02/27/2024
Name: Ricardo B. Calderon	Instructor: Dr. Jonathan Taylar

Tools Needed:

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



Procedure:



Great repository names are short and memorable. Need inspiration? How about crispy-guacamole?

Anyone on the internet can see this repository. You choose who can commit

This is where you can write a long description for your project. Learn more about READMEs.

You choose who can see and commit to this repository.

Description (optional)

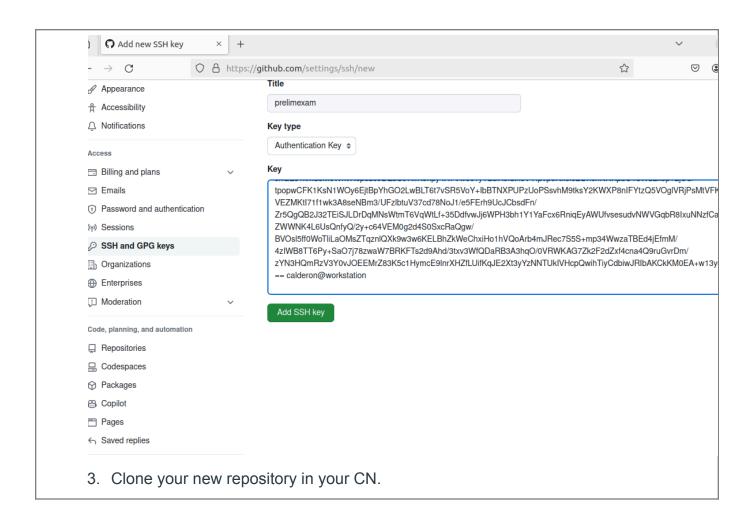
Public

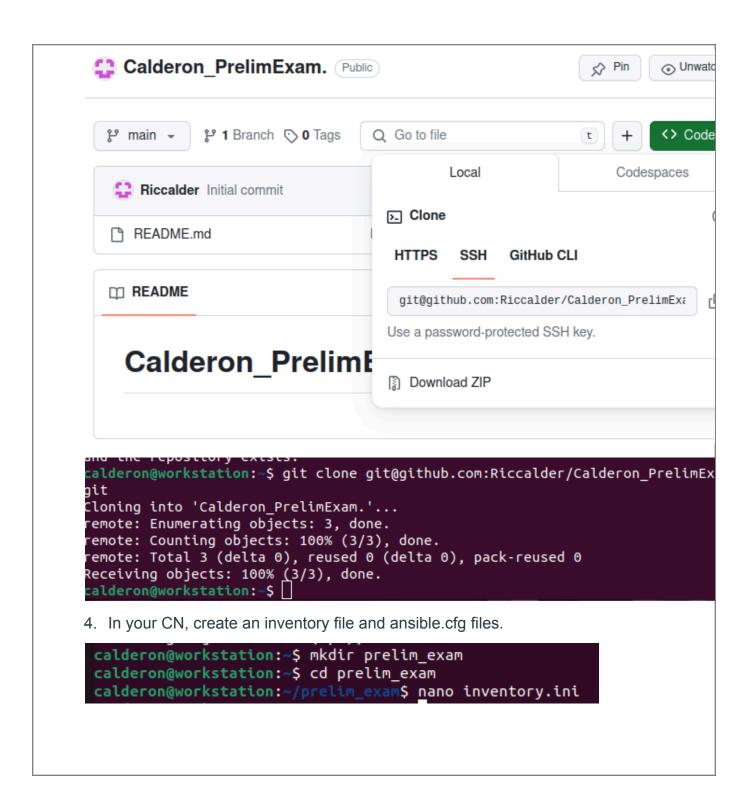
Private

Initialize this repository with:

Add a README file

Add .gitignore





```
calderon@workstation: ~/prelim_exam
                                                                   Q
       J∓1
       GNU nano 6.2
                                          inventory.ini *
     [manage nodes]
     node1 ansible_host=192.168.56.103
     node2 ansible host=192.168.56.104
calderon@workstation:~/prelim_exam$ mkdir ansible.cfg
calderon@workstation:~/prelim_exam$ cd ansible.cfg
calderon@workstation:~/prelim exam/ansible.cfg$ nano ansible.cfg
calderon@workstation:~/prelim exam/ansible.cfgS
                 calderon@workstation: ~/prelim_exam/ansible.cfg
  Ħ.
  GNU nano 6.2
                                      ansible.cfg
defaults]
inventory = ./inventory.ini
remote user = calderon
private key = /path/to/your/private/key.pem
```

- 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

```
calderon@workstation:~/prelim_exam$ sudo apt update
[sudo] password for calderon:
Hit:1 http://ph.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ph.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:3 http://ph.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://ph.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,4]
12 kB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1,194 kB]
Get:7 http://ph.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [576 kB]
```

```
calderon@workstation:~/prelim_exam$ sudo apt install python3 python3-p
            Reading package lists... Done
            Building dependency tree... Done
            Reading state information... Done
            python3 is already the newest version (3.10.6-1~22.04).
            The following packages were automatically installed and are no longer
              linux-headers-6.2.0-26-generic linux-hwe-6.2-headers-6.2.0-26
              linux-image-6.2.0-26-generic linux-modules-6.2.0-26-generic
              linux-modules-extra-6.2.0-26-generic
            Use 'sudo apt autoremove' to remove them.
            The following additional packages will be installed:
              build-essential dpkg-dev fakeroot g++ g++-11 gcc gcc-11
              libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-
              libasan6 libc-dev-bin libc-devtools libc6-dev libcc1-0 libcrypt-dev
              libdpkg-perl libexpat1-dev libfakeroot libfile-fcntllock-perl libgcd
              libitm1 libjs-sphinxdoc libjs-underscore liblsan0 libnsl-dev libpyth
              libpython3.10-dev libquadmath0 libstdc++-11-dev libtirpc-dev libtsan
              libubsan1 linux-libc-dev lto-disabled-list make manpages-dev python3
            calderon@workstation:~/prelim_exam$ python3 --version
            Python 3.10.12
            calderon@workstation:~/prelim_exam$ pip3 --version
            pip 22.0.2 from /usr/lib/python3/dist-packages/pip (python 3.10)
calderon@workstation:~$ nano example playbook.yml
calderon@workstation:~S
                                                                        Q = _ _
                                      calderon@workstation: ~
  GNU nano 6.2
                                       example playbook.yml
   name: example playbook
   hosts: servers
    name: ensure nginx is installed
   become: yes
    name: ngix
   state: present
                                      [ Read 9 lines ]
                  use pip3 as default pip
```

- o use python3 as default python
- o 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)"
- o 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.
- 7. For your prelim exam to be counted, please paste your repository link here.