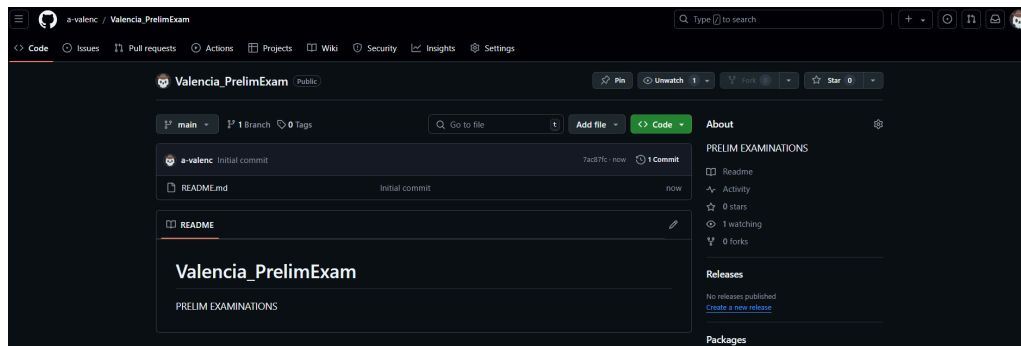


1. GITHUB repository created



2. Repository is cloned

```
File Edit View Search Terminal Help
valencia@workstation:~$ git clone git@github.com:a-valenc/Valencia_PrelimExam.
it
Cloning into 'Valencia_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.
valencia@workstation:~$ cd Valencia_PrelimExam
valencia@workstation:~/Valencia_PrelimExam$ touch inventory.yaml
```

3. Ansible.cfg and inventory is created in Control Node

- Ansible.cfg code

```
File Edit View Search Terminal Help
GNU nano 2.9.3 ansible.cfg

[defaults]
inventory = ~/Valencia_PrelimExam/inventory.yaml
remote_user = avalencia
host_key_checking = True
```

- Inventory.yaml code

```
File Edit View Search Terminal Help
GNU nano 2.9.3 inventory.yaml

all:
  children:
    servers:
      hosts:
        server1:
          ansible_host: 192.168.56.112
        server2:
          ansible_host: 192.168.56.113
```

4.1. Installing the latest python3 and pip3

```
avalencia@workstation:~/Valencia_PrelimExam$ ansible-playbook --ask-become-pass
playbook.yaml
SUDO password:

PLAY [all] *****
*

TASK [Gathering Facts] *****
*
ok: [server1]
ok: [server2]

TASK [Installing latest python3 and pip3] *****
*
changed: [server1]
changed: [server2]

PLAY RECAP *****
*
server1          : ok=2    changed=1    unreachable=0    failed=0
server2          : ok=2    changed=1    unreachable=0    failed=0
```

- TESTING IN MANAGED NODE 1

```
avalencia@server1:~$ pip3 --version
pip 9.0.1 from /usr/lib/python3/dist-packages (python 3.6)
avalencia@server1:~$ python3 --version
Python 3.6.9
avalencia@server1:~$
```

- TESTING IN MANAGED NODE 2

```
avalencia@server2:~$ pip3 --version
pip 9.0.1 from /usr/lib/python3/dist-packages (python 3.6)
avalencia@server2:~$ python3 --version
Python 3.6.9
avalencia@server2:~$
```

4.2 Use pip3 as default pip

4.3 Use python3 as default python

4.4 Install java open-jdk

```
TASK [Installing Java open-jdk] *****
*
changed: [server1]
changed: [server2]
```

- TESTING IN MANAGED NODE 1

```
avalencia@server1:~$ java -version
openjdk version "1.8.0_362"
OpenJDK Runtime Environment (build 1.8.0_362-8u372-ga~us1-0ubuntu1~18.04-b09)
OpenJDK 64-Bit Server VM (build 25.362-b09, mixed mode)
avalencia@server1:~$
```

- TESTING IN MANAGED NODE 2

```
avalencia@server2:~$ java -version
openjdk version "1.8.0_362"
OpenJDK Runtime Environment (build 1.8.0_362-8u372-ga~us1-0ubuntu1~18.04-b09)
OpenJDK 64-Bit Server VM (build 25.362-b09, mixed mode)
avalencia@server2:~$
```

4.5 Installing MariaDB

```
TASK [Installing MariaDB] *****
*
changed: [server1]
changed: [server2]
```

- Starting a server
- Creating a database
- Creating a table
- Inputting a record into a table

4.6 Creating Motd

```

TASK [Creating Motd] *****
*
changed: [server2]
changed: [server1]

PLAY RECAP *****
*
server1           : ok=6    changed=1    unreachable=0    failed=0
server2           : ok=6    changed=1    unreachable=0    failed=0

avalencia@workstation:~/Valencia_PrelimExam$

```

- TESTING IN MANAGED MODE 1

```

avalencia@server1:~$ cat /etc/motd
Ansible Managed node by avalenciaavalencia@server1:~$

```

- TESTING IN MANAGED MODE 2

```

avalencia@server2:~$ cat /etc/motd
Ansible Managed node by avalenciaavalencia@server2:~$

```

4.7 Creating a user

```

TASK [Creating a user] *****
*
changed: [server1]
changed: [server2]

PLAY RECAP *****
*
server1           : ok=7    changed=1    unreachable=0    failed=0
server2           : ok=7    changed=1    unreachable=0    failed=0

avalencia@workstation:~/Valencia PrelimExam$

```

- TESTING IN MANAGED MODE 1
- TESTING IN MANAGED MODE 2

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. (Failure to submit will result in ZERO)

- [a-valenc/Valencia_PrelimExam: PRELIM EXAMINATIONS \(github.com\)](#).