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Tools Needed:

1. VM with Alpine, Git and Ansible installed
2. Web browser

Procedure:

1. Create a repository and name it Surname_FinalExam.

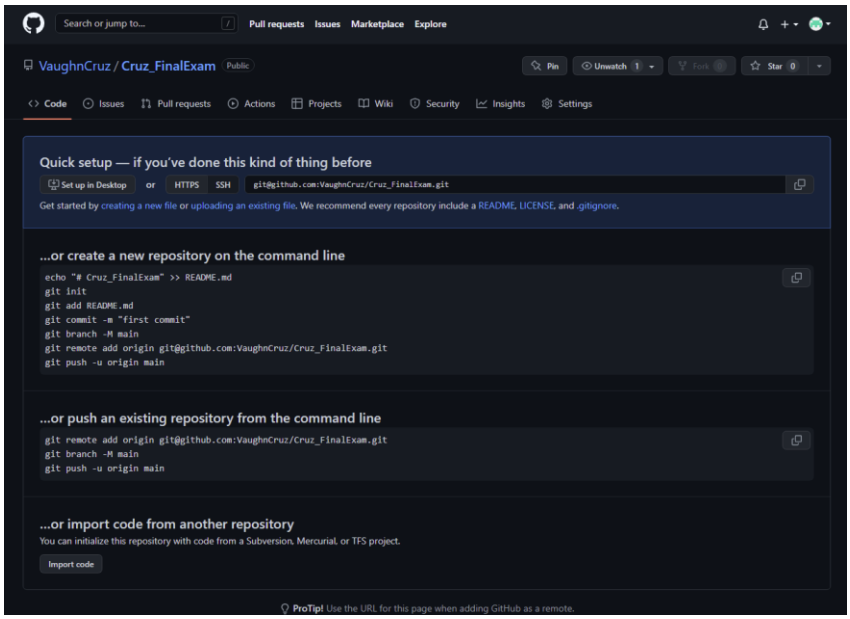


Figure 1.0

2. Clone your new repository in your VM

```
vaughn@192:~$ git clone git@github.com:VaughnCruz/Cruz_FinalExam.git
Cloning into 'Cruz_FinalExam'...
warning: You appear to have cloned an empty repository.
vaughn@192:~$
```

Figure 1.2

3. Create an Ansible playbook that does the following with an input of a config.yaml file and structure inventory file.

```
vaughn@192:~/Cruz_FinalExam$ cat ansible.cfg
[defaults]
inventory = ./inventory
remote_user = vaughncruz
deprecation_warnings = false

[privilege_escalation]
become = true
become_method = sudo
become_user = root
become_ask_pass = false
```

Figure 1.3

```
vaughn@192:~/Cruz_FinalExam$ cat config.yaml
prelim_exam: git@github.com:VaughnCruz/Cruz_PrelimExam.git
username: vaughncruz
writable_chroot: allow_writeable_chroot=YES
ftp_config: "allow_writeable_chroot=YES\npasv_min_port=30000\npasv_max_port=31000\nuserlist_file=/etc/vsftpd/user_list\nuserlist_den
y=NO"
ftp:debian: "pasv_enable=Yes\npasv_min_port=10000\npasv_max_port=10100\nallow_writeable_chroot=YES\nssl_tlvs1=YES\nssl_sslv2=NO\nssl
_sslv3=NO"
ftp_user: ftpuser
ftp_pass: $gOzz0glRE29yIZZn6w5vZxrjZRlZSXFYz2ln8w2Am2WVPL6L614Tok0
naguser_pass: $MgQLMdHfnM9OkEUsWoXOhTBhEkIi8NGLSkkulSyzuvbCYUSK6GmcnLh
nagadmin_pass: Kuruzu16
```

Figure 1.4

```
vaughn@192:~/Cruz_FinalExam$ cat playbook.yaml
---
- name: install packages in ubuntu
  hosts: ubuntu
  vars_files:
    - ./config.yaml
  roles:
    - ubuntu-es
    - ubuntu-git
    - ubuntu-mt
    - ubuntu-motd
```

Figure 1.5

```
vaughn@192:~/Cruz_FinalExam$ cat inventory
[ubuntu]
192.168.174.14
```

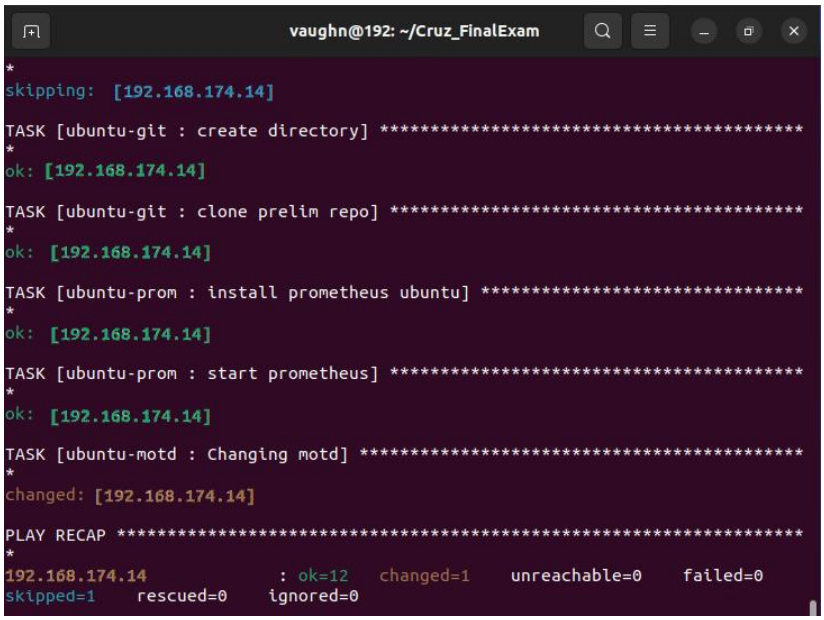
Figure 1.6

3.1 Clone your prelim exam repository

3.2 Install and configure one enterprise service that can be installed in Debian, Centos, and OpenSuse servers

3.3 Install and configure one monitoring tool that can be installed in Debian, Centos, and OpenSuse servers (if it is a stack there should be the option of a different host)

3.4 Change Motd as "Ansible Managed by <username>"



Successful play of the playbook in client

4. push and commit your final-exam branch in the VM

5. request a pull request from that branch on GitHub

6. For your final exam to be counted, please paste your repository link as an answer in this exam.

7. Send your PDF report into your GitHub repository.

Note: Extra points if you will implement the said services via containerization.