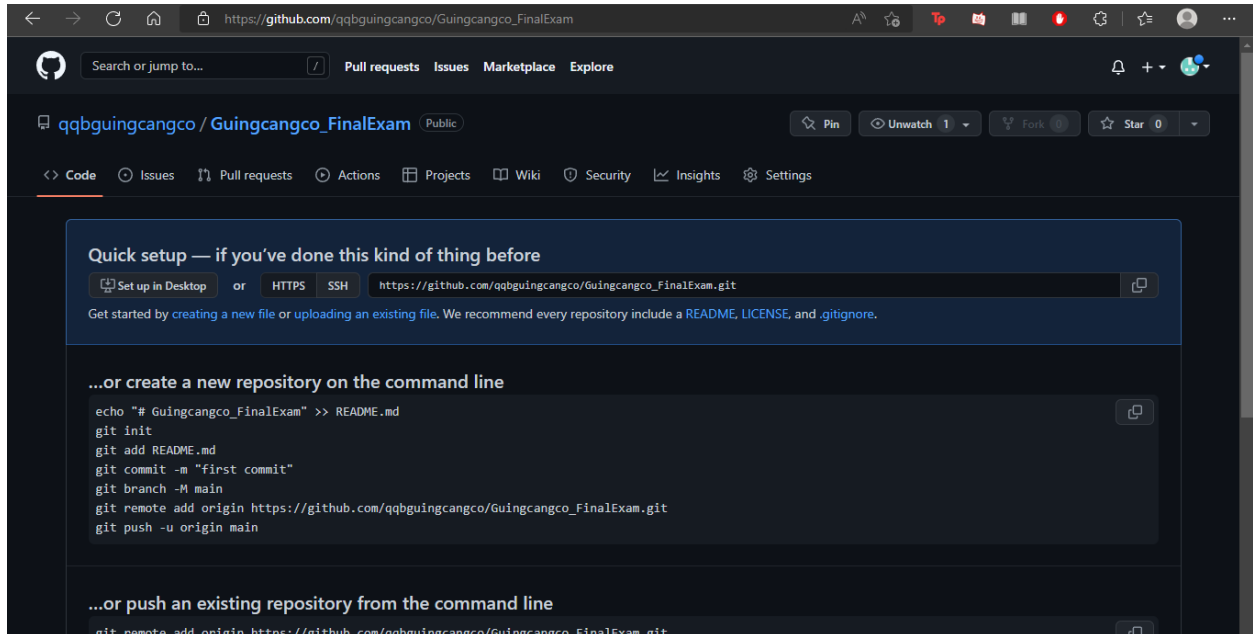


GUINGCANGCO, QUINCY KAISLER BAL-OT
CPE232
CPE31S7

1. Create a repository and name it Surname_FinalExam.



2. Clone your new repository in your VM

```
Last login: Thu Jun  9 08:48:02 2022
qqbguingcangco@server1:~$ git clone https://github.com/qqbguingcangco/Guingcangco_FinalExam.git
Cloning into 'Guingcangco_FinalExam'...
warning: You appear to have cloned an empty repository.
qqbguingcangco@server1:~$
```

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

3.1 Clone your prelim exam repository

```
tasks:
- name: Clone prelim github repo
  git:
    repo: https://github.com/qqbguingcangco/GUINGCANGCO_PrelimExam.git
    dest: /Prelim_Exam_Repo/
    clone: yes
    update: yes
```

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

```
qbgguingcangco@server1: ~/Guingcangco_FinalExam
GNU nano 6.2
---
# tasks file for roles/mariadb
- name: install mariadb
  apt:
    name: mariadb-server
    state: latest
    when: ansible_distribution == "Ubuntu"

- name: install mariadb centos
  yum:
    name: mariadb-server
    state: latest
    when: ansible_distribution == "CentOS"
```

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)

```
qbguingcangco@server1: ~/Guingcangco_FinalExam
GNU nano 6.2
---
# tasks file for roles/elkdocker
- name: Create docker directory
  file:
    path: docker
    state: directory

- name: Copy from docker directory files to remote machine
  copy:
    src: docker/
    dest: docker/

- name: Build the image for sebp/elk
  docker_image:
    name: elkstack
    build:
      path: docker/elkstack/
      pull: no
    state: present
    source: build

- name: Clear IPTables filter
  shell: iptables -F; iptables -X

- name: Restart Docker
  service:
    name: docker
    state: restarted

# tasks file for roles/rundockercontainer
- name: Build elkstack container
  docker_container:
    name: elkstack
    image: elkstack:latest
    state: started
    ports:
      - 5704:5704
      - 5302:5302
      - 5022:5022
```

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

```
qqbguingcangco@server1: ~/Guingcangco_FinalExam
GNU nano 6.2
---
# tasks file for roles/motd
- name: Change MOTD
  copy:
    content: "{{ message }}" \n
    dest: /etc/motd

- name: Disable Old MOTD
  shell: "chmod -x /etc/update-motd.d/*"
```

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

```
qqbguingcangco@server1: ~/Guingcangco_FinalExam
create mode 100644 roles/ubuntufw/.travis.yml
create mode 100644 roles/ubuntufw/README.md
create mode 100644 roles/ubuntufw/defaults/main.yml
create mode 100644 roles/ubuntufw/handlers/main.yml
create mode 100644 roles/ubuntufw/meta/main.yml
create mode 100644 roles/ubuntufw/tasks/main.yml
create mode 100644 roles/ubuntufw/tests/inventory
create mode 100644 roles/ubuntufw/tests/test.yml
create mode 100644 roles/ubuntufw/vars/main.yml
create mode 100644 vars.yml
qqbguingcangco@server1:~/Guingcangco_FinalExam$ git branch -M main
qqbguingcangco@server1:~/Guingcangco_FinalExam$ git push -u origin main
Username for 'https://github.com': qqbguingcangco
Password for 'https://qqbguingcangco@github.com':
Enumerating objects: 106, done.
Counting objects: 100% (106/106), done.
Compressing objects: 100% (44/44), done.
Writing objects: 100% (106/106), 10.76 KiB | 648.00 KiB/s, done.
Total 106 (delta 7), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (7/7), done.
To https://github.com/qqbguingcangco/Guingcangco_FinalExam.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
qqbguingcangco@server1:~/Guingcangco_FinalExam$
```

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.

```
qbbguingcangco@server1: ~/Guingcangco_FinalExam
TASK [Stop firewall in Ubuntu] *****

TASK [ubuntu: Stop Firewall] *****
ok: [workstation]

TASK [Pip install docker] *****

TASK [pipinstall : Install python packages using pip] *****
ok: [workstation]

TASK [Add user to docker group] *****

TASK [docker : Check docker group is present] *****
ok: [workstation]

TASK [docker : Add user to docker group] *****
[WARNING]: 'append' is set, but no 'groups' are specified. Use 'groups' for
appending new groups.This will change to an error in Ansible 2.14.
ok: [workstation]

TASK [Build and run elk stack using lampstackdocker role] *****

TASK [elkdocker : Create docker directory] *****
ok: [workstation]

TASK [elkdocker : Copy from docker directory files to remote machine] *****
ok: [workstation]

TASK [elkdocker : Build the image for sebp/elk] *****
changed: [workstation]

TASK [elkdocker : Clear IPTables filter] *****
changed: [workstation]

TASK [elkdocker : Restart Docker] *****
changed: [workstation]

TASK [elkdocker : Build elkstack container] *****
changed: [workstation]

TASK [MariaDB] *****

TASK [mariadb : install mariadb] *****
ok: [workstation]

PLAY RECAP *****
workstation : ok=19   changed=6   unreachable=0   failed=0   s
kipped=3    rescued=0   ignored=0

qbbguingcangco@server1:~/Guingcangco_FinalExam$
```

7. Send your PDF report into your GitHub repository.