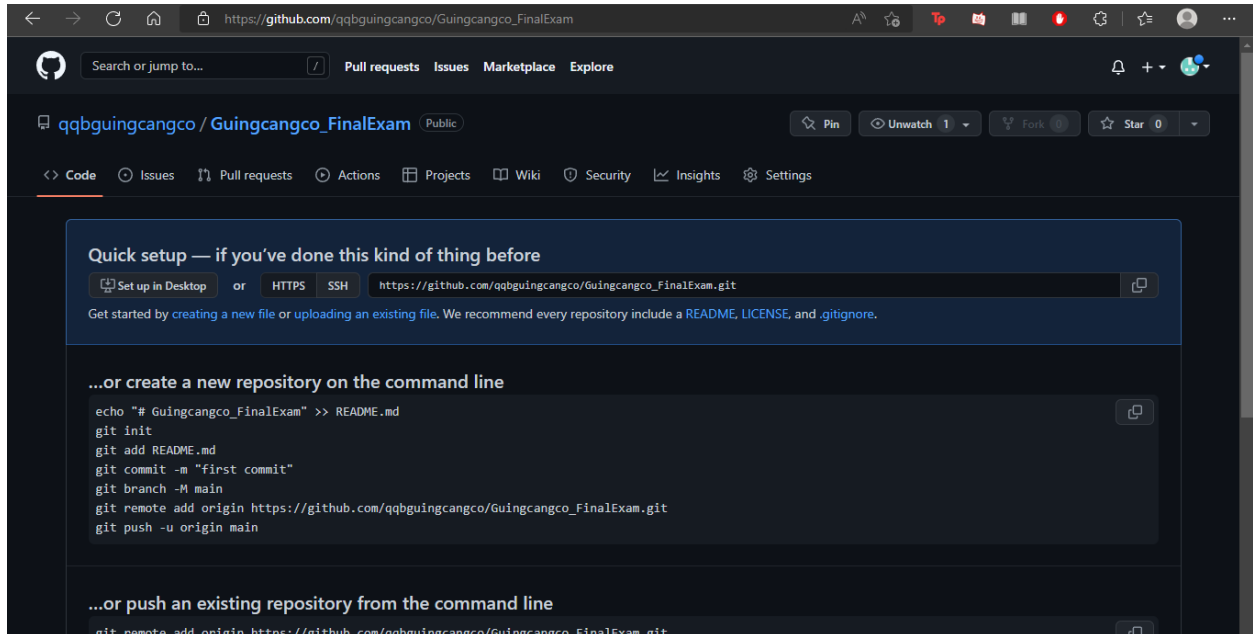


GUINGCANGCO, QUINCY KAISLER BAL-OT
CPE232
CPE31S7

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

```
qbguingcangco@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 }}"
    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

The screenshot shows a GitHub pull request interface. At the top, the title is "Added PDF to repository #1". Below the title, it says "qqbguingcangco wants to merge 1 commit into main from qqbguingcangco-patch-1". The interface includes tabs for "Conversation" (0), "Commits" (1), "Checks" (0), and "Files changed" (1). A comment from "qqbguingcangco" is visible, stating "No description provided." Below the comment, a commit is shown: "Added PDF to repository" with a "Verified" status and a commit hash "0fa68db". A message indicates that continuous integration has not been set up and that the branch has no conflicts with the base branch, allowing for automatic merging. A "Merge pull request" button is present. On the right side, there are sections for "Reviewers", "Assignees", "Labels", "Projects", "Milestone", and "Development".

Added PDF to repository #1

qqbguingcangco wants to merge 1 commit into main from qqbguingcangco-patch-1

Conversation 0 Commits 1 Checks 0 Files changed 1 +0 -0

qqbguingcangco commented now

No description provided.

Added PDF to repository Verified 0fa68db

Add more commits by pushing to the qqbguingcangco-patch-1 branch on qqbguingcangco/Guingcangco_FinalExam.

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Reviewers
No reviews
Still in progress? Convert to draft

Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request may close these issues.

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

```
qqbguingcangco@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

qqbguingcangco@server1:~/Guingcangco_FinalExam$
```

7. Send your PDF report into your GitHub repository.

