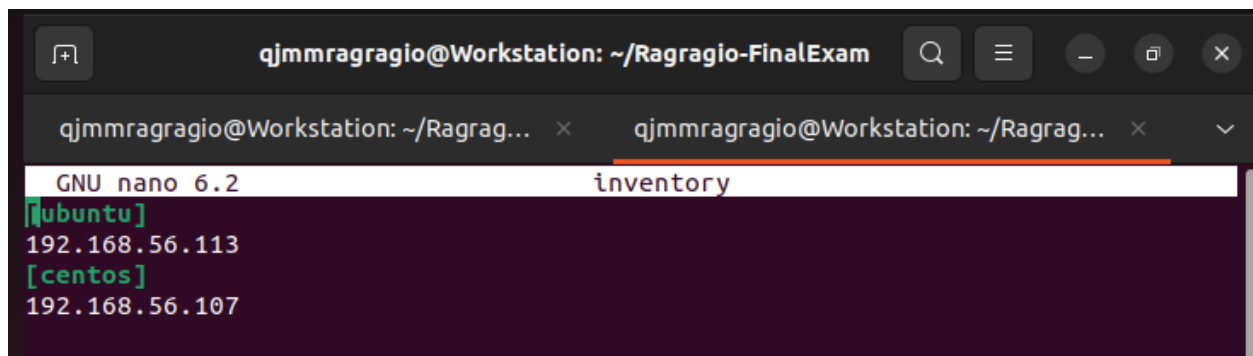
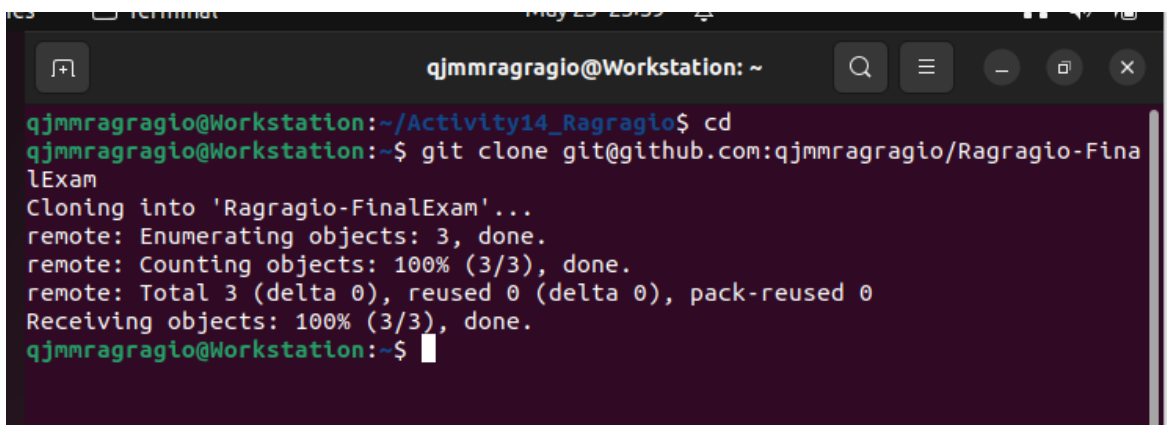
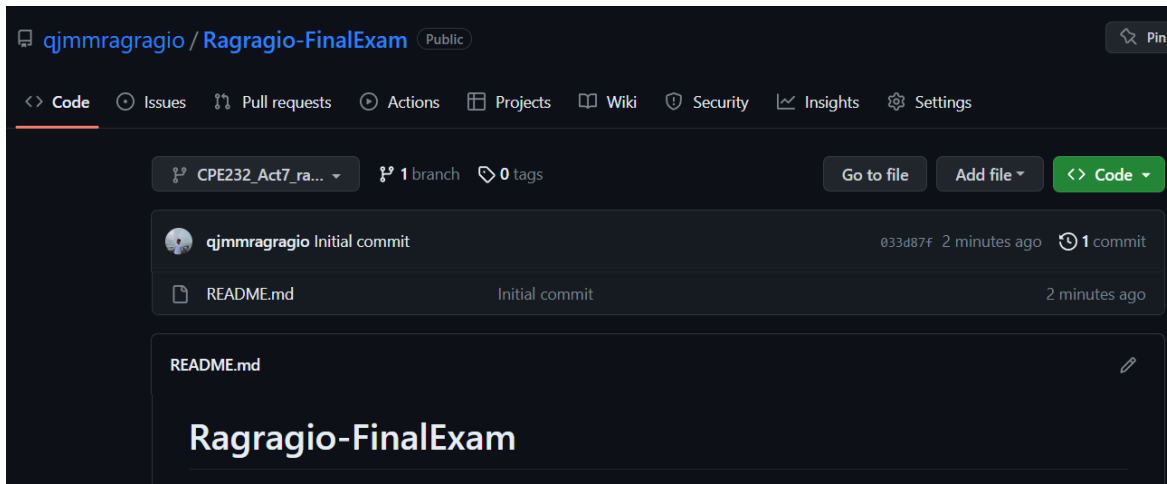


FINAL EXAMINATION	
Name: Ragragio, John Michael	Date Performed: 05/23/2023
Course/Section: CPE232-CPE31S1	Date Submitted: 05/23/2023
Instructor: Dr. Taylor	Semester and SY: 1st Sem and 3rd yr.

Tools Needed:
<ol style="list-style-type: none"> 1. VM with Ubuntu, CentOS and Ansible installed 2. Web browser
Procedure:
<ol style="list-style-type: none"> 1. Create a repository and label it as "Final_Exam_Surname" 2. Clone your new repository in your VM 3. Create an Ansible playbook that does the following with an input of a config.yaml file and structure inventory file. <ol style="list-style-type: none"> 3.1 Install and configure one enterprise service that can be installed in Debian and Centos servers 3.2 Install and configure one monitoring tool that can be installed in Debian and Centos servers (if it is a stack there should be option of different host) 4.4 Change Motd as "Ansible Managed by <username>" 4. Push and commit your files in GitHub 5. Make sure to show evidence of input (codes) process (codes successfully running) and output (evidence of installation) 5. For your final exam to be counted, please paste your repository link as an answer in this exam.

Screenshots of my works:



```
qjmmraggio@Workstation: ~/Ragragio-FinalExam
GNU nano 6.2 ansible.cfg
[defaults]

inventory = inventory
host_key_checking = False

deprecation_warnings = False

remote_user = qjmmraggio
private_key_file = /.ssh/
```

```
qjmmraggio@Workstation: ~/Ragragio-FinalExam
GNU nano 6.2 config.yml *
---
- hosts: all
  become: true
  pre_tasks:
    - name: Fixing dpkg for ubuntu
      tags: ubuntuupdate
      shell: |
        dpkg --configure -a
      when: ansible_distribution == "Ubuntu"

    - name: Update ubuntu
      tags: ubuntuupdate
      apt:
        update_cache: yes
        upgrade: dist
      when: ansible_distribution == "Ubuntu"

    - name: download dnf and epel-release
      tags: dldnfepel
      yum:
        name:
          - epel-release
          - dnf
```

```
qjmmragio@Workstation: ~/Ragragio-FinalExam/roles/u...
GNU nano 6.2 main.yml
- name: Installing nagios dependencies and libraries.
  tags: dependencies, libraries
  apt:
    name:
      - autoconf
      - gcc
      - libc6
      - make
      - wget
      - unzip
      - apache2
      - php
      - libapache2-mod-php7.4
      - libgd-dev
      - openssl
      - libssl-dev
      - autoconf
      - gcc
      - libc6
      - libmcrypt-dev
      - make
      - libssl-dev
```

```
qjmmragio@Workstation: ~/Ragragio-FinalExam/roles/c...
qjmmragio@Workstation: ~/Ragrag... x qjmmragio@Workstation: ~/Ragrag... x
GNU nano 6.2 main.yml *
- httpd
- php
- wget
- gd
- gd-devel
- openssl-devel
- gcc
- glibc
- glibc-common
- make
- gettext
- automake
- autoconf
- wget
- openssl-devel
- net-snmp
- net-snmp-utils
- python2-pip
state: latest
- name: Install passlib python
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute
```

```
qjmmragragio@Workstation: ~/Ragragio-FinalExam
qjmmragragio@Workstation:~/Ragragio-FinalExam$ ansible-playbook --ask-become-pass config.yml
BECOME password:

PLAY [all] *****
*

TASK [Gathering Facts] *****
*
ok: [192.168.56.113]
ok: [192.168.56.107]

TASK [Fixing dpkg for ubuntu] *****
*
skipping: [192.168.56.107]
changed: [192.168.56.113]

TASK [Update ubuntu] *****
*
skipping: [192.168.56.107]
ok: [192.168.56.113]

TASK [download dnf and epel-release] *****
*
skipping: [192.168.56.113]
ok: [192.168.56.107]

TASK [Update centos] *****
*
```

```
qjmmragragio@Workstation: ~/Ragragio-FinalExam
ok: [192.168.56.107]

TASK [Update centos] *****
*
skipping: [192.168.56.113]
ok: [192.168.56.107]

PLAY [centos] *****
*

TASK [Gathering Facts] *****
*
ok: [192.168.56.107]

PLAY [ubuntu] *****
*

TASK [Gathering Facts] *****
*
ok: [192.168.56.113]

PLAY RECAP *****
*
192.168.56.107      : ok=4    changed=0    unreachable=0    failed=0
skipped=2    rescued=0    ignored=0
192.168.56.113      : ok=4    changed=1    unreachable=0    failed=0
skipped=2    rescued=0    ignored=0

qjmmragragio@Workstation:~/Ragragio-FinalExam$
```

My github link: <https://github.com/qjmmragragio/Ragragio-FinalExam>