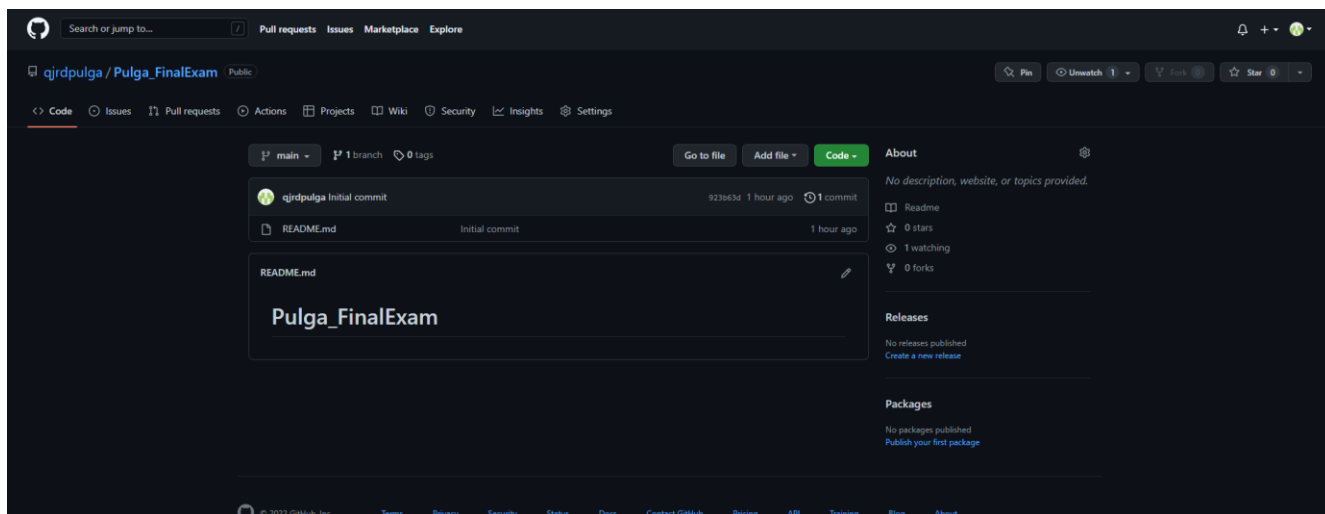


Tools Needed:
<ol style="list-style-type: none">1. VM with Alpine, Git and Ansible installed2. Web browser
Procedure:
<ol style="list-style-type: none">1. Create a repository and name it Surname_FinalExam.2. Clone your new repository in your VM3. Create an Ansible playbook that does the following with an input of a config.yaml file and structure inventory file.<ol style="list-style-type: none">3.1 Clone your prelim exam repository3.2 Install and configure one enterprise service that can be installed in Debian, Centos, and OpenSuse servers3.3 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>"4. push and commit your final-exam branch in the VM5. request a pull request from that branch on GitHub6. 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. <p><u>Note: Extra points if you will implement the said services via containerization.</u></p>

https://github.com/qjrdpulga/Pulga_FinalExam



```
justinpulga@workstation: ~/Pulga_FinalExam/roles/git-clone...
GNU nano 4.8 main.yml
---
# tasks file for git-clone

- name: Cloning Prelim Exam on Ubuntu
  git:
    repo: git@github.com:qjrdpulga/Pulga_PrelimExam.git
    dest: /home/justinpulga/pulga_prelim
    clone: yes
    update: yes
  when: ansible_facts['distribution'] == 'Ubuntu'

[ Read 10 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
```

```
justinpulga@workstation: ~/Pulga_FinalExam/roles/motd/ta...
GNU nano 4.8 main.yml
---
# tasks file for motd

- name: Changing MOTD
  copy:
    content: "Ansible Managed by {{ username }}"
    dest: /etc/motd

- name: Remove the previous MOTD
  file:
    dest: "/etc/update-motd.d/"
    mode: "u-x,g-x,o-x"
    state: directory
    recurse: yes

[ Read 14 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
```

```
justinpulga@workstation: ~/Pulga_FinalExam/roles/nagios/t...
GNU nano 4.8 main.yml
---
# tasks file for nagios

- name: Stop Firewall
  service:
    name: ufw
    state: stopped
    enabled: no

- name: Download and unarchive Nagios Core source
  unarchive:
    src: https://github.com/NagiosEnterprises/nagioscore/archive/nagios-4.4.5.t
    dest: /tmp/
    remote_src: yes
    register: nagios_source

- name: Create Make file
  shell: cd /tmp/nagioscore-nagios-4.4.5; sh /tmp/nagioscore-nagios-4.4.5/confi
  register: make_file
  when: nagios_source.changed

[ Read 142 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
```

```
justinpulga@workstation: ~/Pulga_FinalExam/roles/package-...
GNU nano 4.8 main.yml
---
# tasks file for package_ubuntu

- name: Add apt key
  apt_key:
    url: "{{ url }}"
    state: present
    when: url != ""

- name: add repository
  apt_repository:
    repo: "{{ repo }}"
    state: present
    filename: "{{ package }}.list"
    when: repo != ""

- name: Install package
  apt:
    name: "{{ package }}"
    state: latest

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
```

```
justinpulga@workstation: ~/Pulga_FinalExam
TASK [nagios : Compile from source] *****
changed: [192.168.56.103]

TASK [nagios : Restart Nagios] *****
changed: [192.168.56.103]

PLAY [Change MOTD] *****

TASK [Gathering Facts] *****
ok: [192.168.56.103]

TASK [Include variable] *****
ok: [192.168.56.103]

TASK [Changing MOTD on Ubuntu] *****

TASK [motd : Changing MOTD] *****
changed: [192.168.56.103]

TASK [motd : Remove the previous MOTD] *****
ok: [192.168.56.103]

PLAY RECAP *****
192.168.56.103 : ok=32 changed=26 unreachable=0 failed=0 skipped=6
rescued=0 ignored=0
justinpulga@workstation:~/Pulga_FinalExam$
```

```
justinpulga@workstation: ~/Pulga_FinalExam
justinpulga@workstation:~/Pulga_FinalExam$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        ansible.cfg
        config.yaml
        inventory
        playbook.yaml
        roles/

nothing added to commit but untracked files present (use "git add" to track)
justinpulga@workstation:~/Pulga_FinalExam$ git add ansible.cfg
justinpulga@workstation:~/Pulga_FinalExam$ git add config.yaml
fatal: pathspec 'config.yaml' did not match any files
justinpulga@workstation:~/Pulga_FinalExam$ git add config.yaml
justinpulga@workstation:~/Pulga_FinalExam$ git add inventory
justinpulga@workstation:~/Pulga_FinalExam$ git add playbook.yaml
justinpulga@workstation:~/Pulga_FinalExam$ git add roles/
justinpulga@workstation:~/Pulga_FinalExam$ git commit -m "Final Skills Exam"
[main a76d71e] Final Skills Exam
 40 files changed, 815 insertions(+)
 create mode 100644 ansible.cfg
 create mode 100644 config.yaml
 create mode 100644 inventory
 create mode 100644 playbook.yaml
```

```
justinpulga@workstation:~/Pulga_FinalExam$ git push
Enumerating objects: 57, done.
Counting objects: 100% (57/57), done.
Delta compression using up to 2 threads
Compressing objects: 100% (25/25), done.
Writing objects: 100% (56/56), 7.08 KiB | 3.54 MiB/s, done.
Total 56 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), done.
To github.com:qjrdpulga/Pulga_FinalExam.git
 923b63d..a76d71e  main -> main
justinpulga@workstation:~/Pulga_FinalExam$
```