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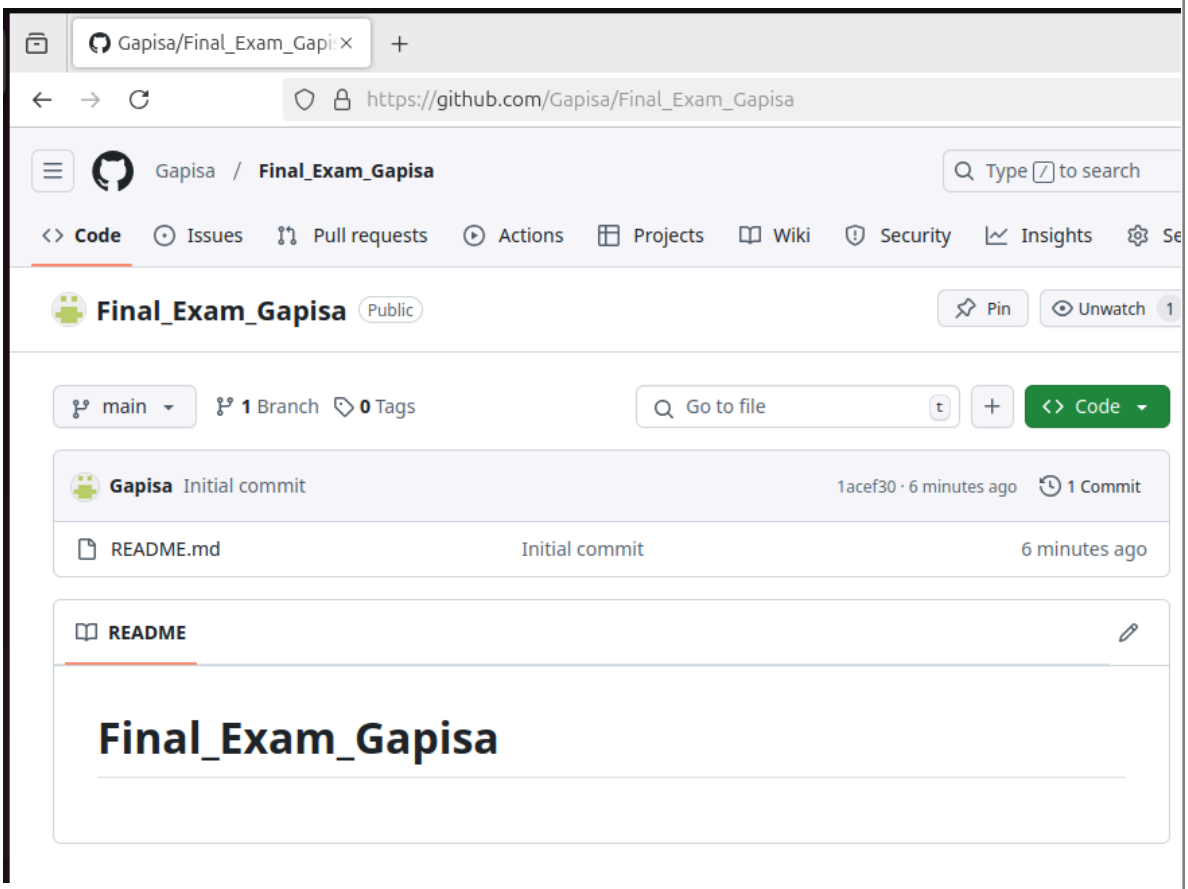
Instructor: Engr. Robin Valenzuela	Date: /12/13/14

Tools Needed:
1. VM with Ubuntu, CentOS and Ansible installed 2. Web browser
Procedure:
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. 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. Note: Extra points if you will implement the said services via containerization.

Output:

Create a repository on github



Enterprise Service:

Ubuntu server:

```
- name: Add Elastic GPG Key
  apt_key:
    url: "https://artifacts.elastic.co/GPG-KEY-elasticsearch"

- name: Install APT Transport
  apt:
    name: apt-transport-https
    state: present

- name: Add Elasticsearch Repo
  apt_repository:
    repo: "deb https://artifacts.elastic.co/packages/7.x/apt stable main"
    state: present
  become: yes
```

```
- name: Install enterprise service of  Kibana
  apt:
    name: kibana
    state: present
    update_cache: yes

- name: Start Kibana
  service:
    name: kibana
    state: started
    enabled: yes
```

```
TASK [ubuntu_server : Add Elastic GPG Key] ********************
ok: [server1]

TASK [ubuntu_server : Install APT Transport] ******************
ok: [server1]

TASK [ubuntu_server : Add Elasticsearch Repo] *****************
ok: [server1]

TASK [ubuntu_server : Install enterprise service of  Kibana] **
ok: [server1]

TASK [ubuntu_server : Start Kibana] ***************************
ok: [server1]
```

```
gapisa@server1:~$ systemctl status kibana
● kibana.service - Kibana
     Loaded: loaded (/etc/systemd/system/kibana.service; enabled; preset: enabl>
     Active: active (running) since Fri 2024-12-13 09:46:56 PST; 21min ago
       Docs: https://www.elastic.co
   Main PID: 30840 (node)
      Tasks: 11 (limit: 4551)
     Memory: 243.6M (peak: 294.9M)
        CPU: 23.363s
     CGroup: /system.slice/kibana.service
             └─30840 /usr/share/kibana/bin/../node/bin/node /usr/share/kibana/b>

Dec 13 09:46:56 server1 systemd[1]: Started kibana.service - Kibana.
Dec 13 09:46:56 server1 kibana[30840]: Kibana is currently running with legacy >
lines 1-13/13 (END)
```

Centos_server

Monitoring tools:

Ubuntu server:

```yaml
- name: install monitoring tools prometheus
  apt:
    name: prometheus
    state: present

- name: start and enable prometheus
  service:
    name: prometheus
    state: restarted
    enabled: yes
```

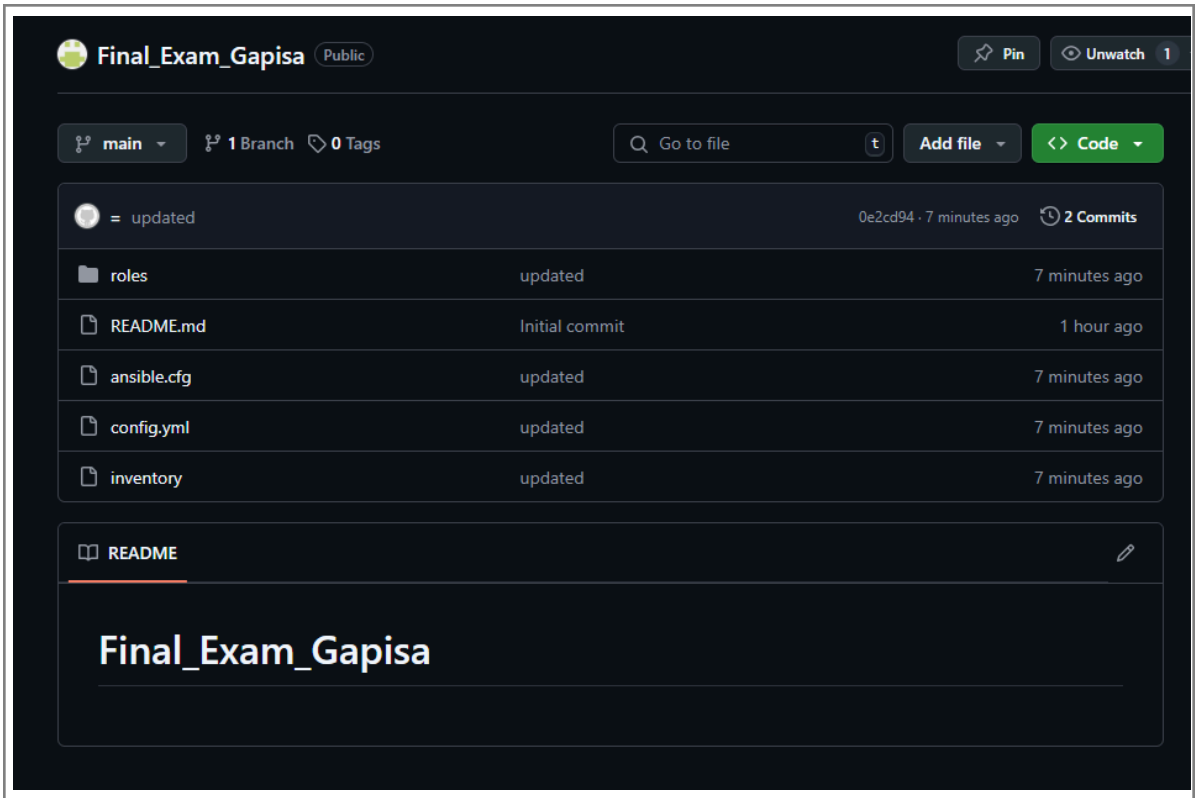
```
TASK [ubuntu_server : install monitoring tools prometheus]
ok: [server1]

TASK [ubuntu_server : start and enable prometheus] ******
changed: [server1]
```

```
gapisa@server1:~$ systemctl status prometheus
● prometheus.service - prometheus
     Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: e>
     Active: activating (auto-restart) (Result: exit-code) since Fri 2024-12-13>
    Process: 24044 ExecStart=/usr/local/bin/prometheus --config.file=/etc/prome>
   Main PID: 24044 (code=exited, status=2)
        CPU: 88ms
```

Centos_server

Github



Github link: [Gapisa/Final_Exam_Gapisa]