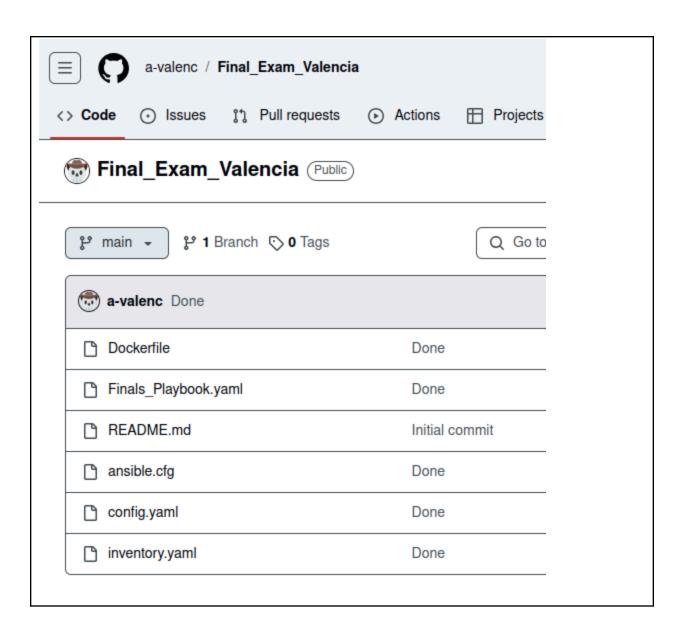


```
avalencia@workstation: ~/Final_Exam_Valencia
GNU nano 6.2
                                                        Finals_Playbook.yaml *
hosts: all
become: true
vars_files:
 - config.yaml
tasks:
  - name: Install Apache (Ubuntu) or HTTPD (CentOS)
    package:
     name: "{{ apache_ubuntu }}"
     state: present
   when: ansible_distribution == "Ubuntu"
 - name: Install Apache (CentOS)
    package:
     state: present
   when: ansible_distribution == "CentOS"
 - name: Start and enable Apache/HTTPD service
     name: "{{ apache_ubuntu }}"
     state: started
     enabled: true
   when: ansible_distribution == "Ubuntu"
 name: Start Apache service (CentOS)
    service:
     name: "{{ apache_centos }}"
     state: started
     enabled: true
   when: ansible_distribution == "CentOS"
  - name: Download Prometheus
    get_url:
      url: "https://github.com/prometheus/prometheus/releases/download/v{{ prometheus
      dest: /tmp/prometheus.tar.gz
```

```
name: Extract Prometheus
  unarchive:
   src: /tmp/prometheus.tar.gz
   dest: /opt/
   remote_src: yes
- name: Create Prometheus user
 user:
   name: prometheus
   system: yes
- name: Set Prometheus directories
  file:
   path: "/opt/prometheus-{{ prometheus_version }}.linux-amd64"
   owner: prometheus
   group: prometheus
   state: directory
   recurse: yes
- name: Create systemd service file
 copy:
   dest: /etc/systemd/system/prometheus.service
     [Unit]
     Description=Prometheus
     Wants=network-online.target
     After=network-online.target
     [Service]
     User=prometheus
     Group=prometheus
     ExecStart=/opt/prometheus-{{ prometheus_version }}.linux-amd64/prometheus
       --config.file=/opt/prometheus-{{ prometheus_version }}.linux-amd64/promethe
       --storage.tsdb.path=/opt/prometheus-{{ prometheus_version }}.linux-amd64/da
        [Install]
       WantedBy=multi-user.target
- name: Reload systemd and start Prometheus
   shell: |
     systemctl daemon-reload
     systemctl enable prometheus
     systemctl start prometheus

    name: Create custom MOTD script

   copy:
     dest: /etc/update-motd.d/99-custom
     content:
       #!/bin/bash
       echo "Ansible Managed by {{ username }}"
     mode: '0755'
```



```
avalencia@workstation: ~/Final_Exam_Valencia
ok: [CentOS]
TASK [Install Apache (Ubuntu) or HTTPD (CentOS)] *******************************
TASK [Start and enable Apache/HTTPD service] ***********************************
TASK [Install prerequisites for Prometheus] ***********************************
ok: [CentOS]
ok: [Ubuntu]
changed: [Ubuntu]
changed: [CentOS]
changed: [Ubuntu]
changed: [CentOS]
changed: [CentOS]
TASK [Create Prometheus systemd service file] **********************************
changed: [Ubuntu]
changed: [CentOS]
changed: [Ubuntu]
changed: [CentOS]
TASK [Update MOTD to "Ansible Managed by <username>"] *****
changed: [Ubuntu]
changed: [CentOS]
TASK [Verify Apache/HTTPD service is running] **********
changed: [CentOS]
changed: [Ubuntu]
```

```
avalencia@server2:~$ sudo systemctl status apache2
[sudo] password for avalencia:
apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset:
  Drop-In: /lib/systemd/system/apache2.service.d
            —apache2-systemd.conf
   Active: active (running) since Wed 2024-12-04 08:52:43 +08; 51min ago
 Main PID: 5643 (apache2)
    Tasks: 9 (limit: 2318)
   CGroup: /system.slice/apache2.service
             -5643 /usr/sbin/apache2 -k start
            —5668 /usr/sbin/apache2 -k start
            -5669 /usr/sbin/apache2 -k start
            —5670 /usr/sbin/apache2 -k start
            —5671 /usr/sbin/apache2 -k start
            -5672 /usr/sbin/apache2 -k start
  Help
             -6602 /usr/sbin/apache2 -k start
             -6620 /usr/sbin/apache2 -k start
            6621 /usr/sbin/apache2 -k start
Dec 04 08:52:42 server2 systemd[1]: Starting The Apache HTTP Server...
Dec 04 08:52:43 server2 apachectl[5600]: AH00558: apache2: Could not reliably d
Dec 04 08:52:43 server2 systemd[1]: Started The Apache HTTP Server.
                                 avalencia@server2: ~
 Firefox Web Browser Terminal Help
avalencia@server2:~$ sudo systemctl status prometheus
[sudo] password for avalencia:
prometheus.service - Prometheus
  Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; vendor pres
  Active: active (running) since Wed 2024-12-04 08:53:49 +08; 34min ago
Main PID: 6065 (prometheus)
   Tasks: 7 (limit: 2318)
  CGroup: /system.slice/prometheus.service
           6065 /opt/prometheus-2.46.0.linux-amd64/prometheus --config.file=/
Dec 04 08:53:49    server2    prometheus[6065]: ts=2024-12-04T00:53:49.822Z caller=tl
Dec 04 08:53:49    server2    prometheus[6065]: ts=2024-12-04T00:53:49.823Z    caller=tl
Dec 04 08:53:49 server2 prometheus[6065]: ts=2024-12-04T00:53:49.823Z caller=he
Dec 04 08:53:49    server2    prometheus[6065]: ts=2024-12-04T00:53:49.823Z caller=he
Dec 04 08:53:49    server2    prometheus[6065]: ts=2024-12-04T00:53:49.823Z    caller=ma
Dec 04 08:53:49    server2    prometheus[6065]: ts=2024-12-04T00:53:49.825Z    caller=ma
Dec 04 08:53:49 server2 prometheus[6065]: ts=2024-12-04T00:53:49.825Z caller=ma
Dec 04 08:53:49    server2    prometheus[6065]: ts=2024-12-04T00:53:49.826Z caller=ma
Dec 04 08:53:49    server2    prometheus[6065]: ts=2024-12-04T00:53:49.826Z    caller=ma
Dec 04 08:53:49    server2    prometheus[6065]: ts=2024-12-04T00:53:49.827Z    caller=ma
[1]+ Stopped
                              sudo systemctl status prometheus
avalencia@server2:~$
```

```
oldsymbol{f \oplus}
                               avalencia@localhost:~
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                                                                                ×
avalencia@localhost ~]$ sudo systemctl status httpd
[sudo] password for avalencia:
 httpd.service - The Apache HTTP Server
    Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; preset: di>
   Drop-In: /usr/lib/systemd/system/httpd.service.d
             └php-fpm.conf
    Active: active (running) since Wed 2024-12-04 08:50:21 PST; 55min ago
      Docs: man:httpd.service(8)
  Main PID: 3733 (httpd)
    Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes>
     Tasks: 177 (limit: 10949)
    Memory: 12.3M
       CPU: 1.354s
    CGroup: /system.slice/httpd.service
             -3740 /usr/sbin/httpd -DFOREGROUND
             └3743 /usr/sbin/httpd -DFOREGROUND
Dec 04 08:50:20 localhost.localdomain systemd[1]: Starting The Apache HTTP Serv>
pec 04 08:50:21 localhost.localdomain httpd[3733]: AH00558: httpd: Could not re>
Dec 04 08:50:21 localhost.localdomain systemd[1]: Started The Apache HTTP Serve>
```

