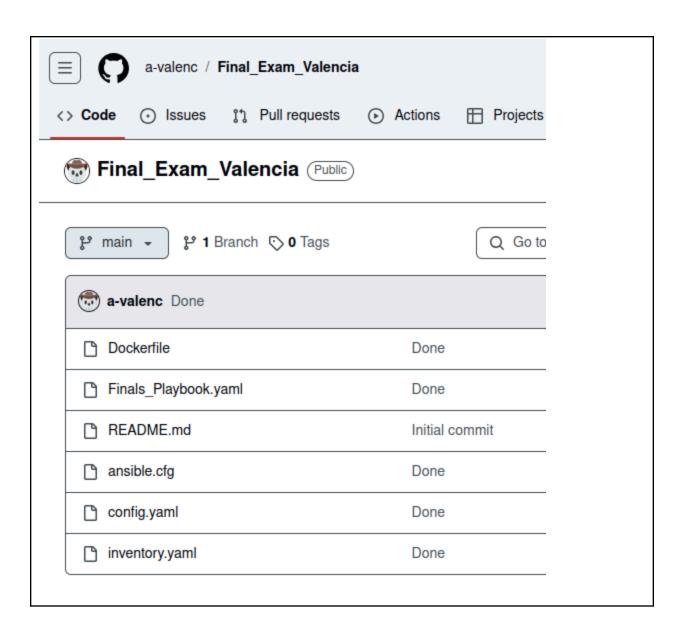


```
avalencia@workstation: ~/Final_Exam_Valencia
GNU nano 6.2
                                                        Finals_Playbook.yaml *
hosts: all
become: true
vars_files:
 - config.yaml
tasks:
  - name: Install Apache (Ubuntu) or HTTPD (CentOS)
    package:
     name: "{{ apache_ubuntu }}"
     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
      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: I
    systemctl daemon-reload
    systemctl enable prometheus
    systemctl start prometheus
- name: Update MOTD to "Ansible Managed by Aaron Valencia"
    content: "Ansible Managed by Aaron Valencia\n"
    dest: /etc/motd
```



```
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:~
                                                                    Q
                                                                          \equiv
                                                                                ×
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>
```

