Created the repo in github

```yaml
  - name: Install enterprise service (Apache)
    package:
      name: "{{ 'apache2' if ansible_os_family == 'Debian' else 'httpd' }}"
      state: present

  - name: Configure enterprise service
    template:
      src: templates/apache2.conf.j2
      dest: "{{ '/etc/apache2/apache2.conf' if ansible_os_family == 'Debian'

  - name: Start and enable enterprise service
    service:
      name: "{{ 'apache2' if ansible_os_family == 'Debian' else 'httpd' }}"
      state: started
      enabled: true
```

This is the code used to download the apache2 on both ubuntu and centos

```
tracey@Server1:~$ systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; p
     Active: active (running) since Wed 2024-12-04 07:55:47 PST; 1h 2min
       Docs: https://httpd.apache.org/docs/2.4/
   n PID: 1444 (apache2)
      Tasks: 6 (limit: 2305)
     Memory: 4.4M (peak: 18.2M swap: 7.8M swap peak: 7.8M)
        CPU: 313ms
     CGroup: /system.slice/apache2.service
             ├─1444 /usr/sbin/apache2 -k start
             ├─1461 /usr/sbin/apache2 -k start
             ├─1462 /usr/sbin/apache2 -k start
             ├─1463 /usr/sbin/apache2 -k start
             ├─1464 /usr/sbin/apache2 -k start
             └─1465 /usr/sbin/apache2 -k start

Dec 04 07:55:36 Server1 systemd[1]: Starting apache2.service - The Apach
Dec 04 07:55:47 Server1 apachectl[1289]: AH00558: apache2: Could not rel
Dec 04 07:55:47 Server1 systemd[1]: Started apache2.service - The Apache
lines 1-19/19 (END)
```

```
● 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 07:52:38 PST; 1h 7min ago
       Docs: man:httpd.service(8)
   Main PID: 896 (httpd)
     Status: "Total requests: 14; Idle/Busy workers 100/0;Requests/sec: 0.00344>
      Tasks: 177 (limit: 10948)
     Memory: 14.5M
        CPU: 6.501s
     CGroup: /system.slice/httpd.service
             ├─ 896 /usr/sbin/httpd -DFOREGROUND
             ├─1037 /usr/sbin/httpd -DFOREGROUND
             ├─1038 /usr/sbin/httpd -DFOREGROUND
             ├─1039 /usr/sbin/httpd -DFOREGROUND
             └─1040 /usr/sbin/httpd -DFOREGROUND

Dec 04 07:52:33 localhost.localdomain systemd[1]: Starting The Apache HTTP Serv>
Dec 04 07:52:38 localhost.localdomain httpd[896]: AH00558: httpd: Could not rel>
Dec 04 07:52:38 localhost.localdomain systemd[1]: Started The Apache HTTP Serve>
Dec 04 07:52:38 localhost.localdomain httpd[896]: Server configured, listening >
lines 1-22/22 (END)
```

This shows that the apache 2 is started and enabled in both ubuntu and centos

```
TASK [Gathering Facts] *********************************
ok: [centos-server]
ok: [ubuntu-server]

TASK [Install enterprise service (Apache)] *************
ok: [ubuntu-server]
ok: [centos-server]

TASK [Configure enterprise service] *******************
ok: [ubuntu-server]
ok: [centos-server]

TASK [Start and enable enterprise service] ************
ok: [ubuntu-server]
ok: [centos-server]
```

And this shows the playbook runs

```yaml
  - name: Download Prometheus binary
    get_url:
      url: "https://github.com/prometheus/prometheus/releases/download/v{{ m
      dest: /tmp/prometheus-{{ monitoring_tool.version }}.linux-amd64.tar.gz

  - name: Extract Prometheus binary
    unarchive:
      src: /tmp/prometheus-{{ monitoring_tool.version }}.linux-amd64.tar.gz
      dest: /usr/local/bin/
      remote_src: yes

  - name: Move Prometheus binaries to /usr/local/bin
    command: >
      mv /usr/local/bin/prometheus-{{ monitoring_tool.version }}.linux-amd64
      mv /usr/local/bin/prometheus-{{ monitoring_tool.version }}.linux-amd64
    args:
      removes: /usr/local/bin/prometheus
      removes: /usr/local/bin/promtool

  - name: Create Prometheus user
    user:
      name: prometheus
      shell: /sbin/nologin

  - name: Create Prometheus directories
```

This is the code for my prometheus for centos and ubuntu i do like this because the centos cant recognise the prometheus on by it self i have to manually do this

```
TASK [Create Prometheus directories] ********************************************
ok: [ubuntu-server] => (item=/etc/prometheus)
ok: [centos-server] => (item=/etc/prometheus)
ok: [ubuntu-server] => (item=/var/lib/prometheus)
ok: [centos-server] => (item=/var/lib/prometheus)

TASK [Configure Prometheus] *****************************************************
changed: [ubuntu-server]
changed: [centos-server]

TASK [Copy Prometheus service file] *********************************************
changed: [ubuntu-server]
changed: [centos-server]

TASK [Reload systemd] ***********************************************************
changed: [centos-server]
changed: [ubuntu-server]

TASK [Start and enable Prometheus service] **************************************
changed: [ubuntu-server]
changed: [centos-server]

TASK [Ensure MOTD file exists] **************************************************
changed: [ubuntu-server]
changed: [centos-server]

TASK [Change MOTD] **************************************************************
          u-server]
```
Show Apps

```
TASK [Ensure MOTD file exists] *****************************************
changed: [ubuntu-server]
changed: [centos-server]

TASK [Change MOTD] *****************************************************
ok: [ubuntu-server]
ok: [centos-server]

TASK [Ensure MOTD file has the correct permissions] ********************
ok: [ubuntu-server]
ok: [centos-server]

PLAY RECAP *************************************************************
centos-server              : ok=16   changed=5   unreachable=0   failed=0
ubuntu-server              : ok=16   changed=5   unreachable=0   failed=0
```

This shows the play book runs

```
tracey@Server1:~$ sudo systemctl status prometheus
× prometheus.service - Prometheus
     Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; pr
     Active: failed (Result: exit-code) since Wed 2024-12-04 09:26:23 PS
```

```
× prometheus.service - Prometheus
     Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: d>
     Active: failed (Result: exit-code) since Wed 2024-12-04 09:20:43 PST; 2s a>
   Duration: 2ms
```

```
tracey@Workstation:~/Final_Exam_Bringuela$ ssh 192.168.56.114
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-48-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

Expanded Security Maintenance for Applications is not enabled.

120 updates can be applied immediately.
42 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

*** System restart required ***
Ansible Managed by Tracey
Last login: Wed Dec  4 09:26:24 2024 from 192.168.56.111
```
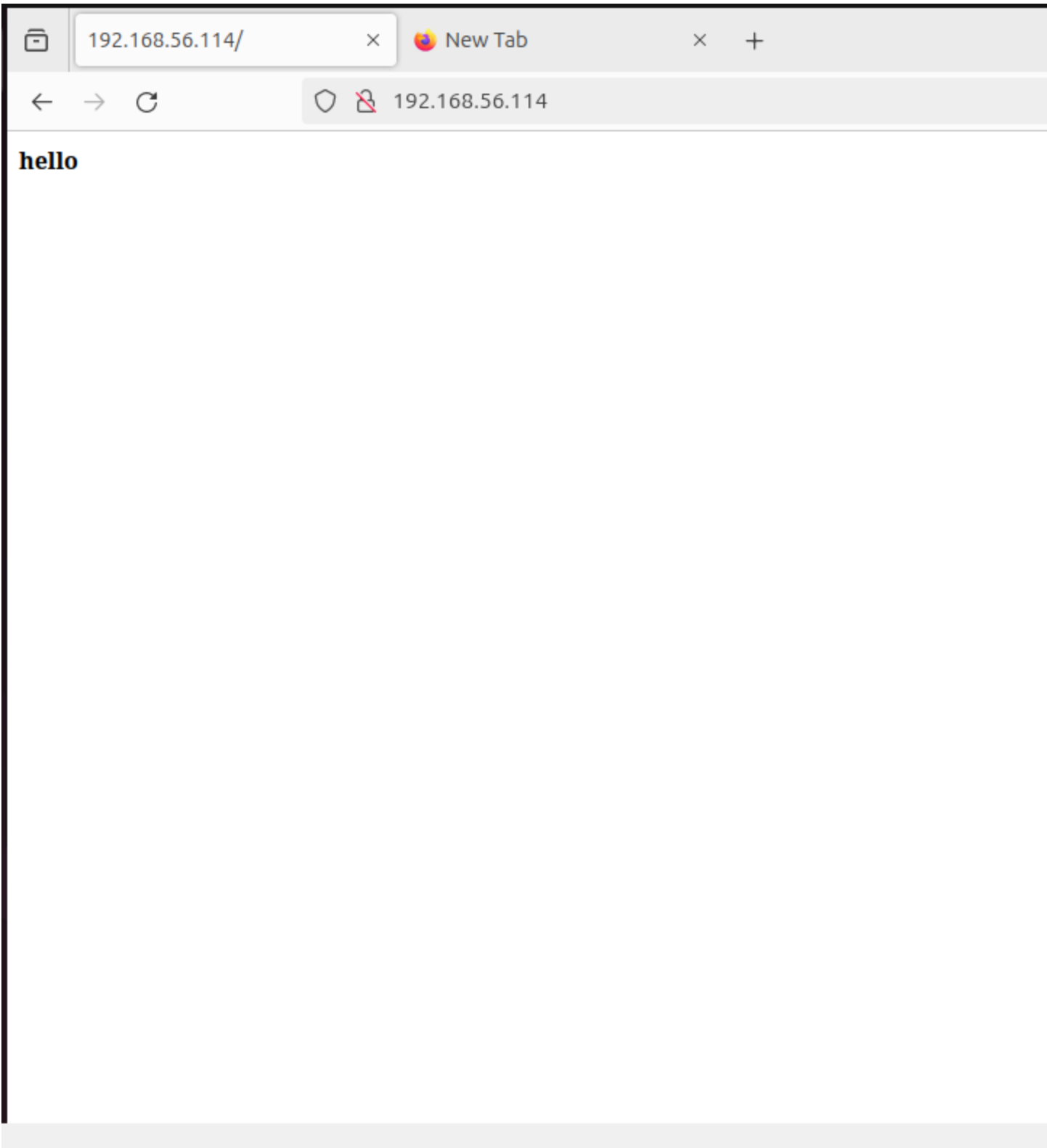
```
tracey@Workstation:~/Final_Exam_Bringuela$ ssh 192.168.56.117
Ansible Managed by Tracey
Activate the web console with: systemctl enable --now cockpit.socket

Last login: Wed Dec  4 09:26:25 2024 from 192.168.56.111
[tracey@localhost ~]$
```

This shows the motd works

hello

Activities   Firefox   Dec 4 09:32

about:sessionrestore   ×   192.168.56.117/   ×   Welcome to CentOS Strea ×

←   →   C   ○   🛇   192.168.56.117

⊕ CentOS   ⊕ Blog   ⊕ Documentation   ⊕ Forums

ⓘ   It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experie

hello

This shows the apache2 is running both on centos and ubuntu