```
- name: Setup Web Server Based on Linux Distribution
 hosts: all
 become: yes
 tasks:
    - name: Install Apache on Debian/Ubuntu
     apt:
       name: apache2
       state: present
       update cache: yes
      when: ansible facts['os family'] == "Debian"
    - name: Install HTTPD on RedHat/CentOS
     yum:
       name: httpd
       state: present
      when: ansible facts['os family'] == "RedHat"
    - name: Validate Apache version (Debian)
     command: apache2 -v
     register: apache2 version
      when: ansible facts['os family'] == "Debian"
    - name: Validate HTTPD version (RedHat)
     command: httpd -v
      register: httpd_version
      when: ansible facts['os family'] == "RedHat"
    - name: Show Apache version on Debian
      debug:
```

var: apache2_version.stdout

when: apache2_version is defined

```
- name: Show HTTPD version on RedHat
  debug:
   var: httpd version.stdout
 when: httpd version is defined
- name: Ensure destination web directory exists
  file:
   path: /var/www/html
   state: directory
   mode: '0755'
- name: Copy website content to remote host
 copy:
   src: ./website/
   dest: /var/www/html/
   owner: root
   group: root
   mode: '0644'
 notify: Restart Apache
- name: Start and enable Apache service on Ubuntu
  service:
   name: apache2
   state: started
   enabled: yes
  when: ansible_facts['os_family'] == "Debian"
- name: Start and enable HTTPD service on RedHat
 service:
   name: httpd
   state: started
   enabled: yes
  when: ansible_facts['os_family'] == "RedHat"
```

```
handlers:
    - name: Restart Apache
    service:
        name: "{{ ansible_facts['os_family'] == 'Debian' | ternary('apache2', 'httpd') }}"
    state: restarted
```

```
akash@master-vm:~/final-ansible/qus-5$ ansible-playbook -i hosts linux.yaml
TASK [Gathering Facts]

[MARNING]: Platform linux on host 192.168.153.131 is using the discovered Python interpreter at /usr/bin/python3.19, but future installation of another Python interpreter at /usr/bin/python3.19, but future installation of another Python interpreter of discovery. Interpreter discovery. html for more information.

ok: [192.168.153.131]

MARNING]: Platform linux on host 192.168.153.128 is using the discovered Python interpreter at /usr/bin/python3.19, but future installation of another Python interpreter of formation of that path. See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
          2.108.133.123]
Gi: Platform linux on host 192.168.153.133 is using the discovered Python interpreter at /usr/bin/python3.10, but future installation of another Python ning of that path. See https://docs.ansible.com/ansible-core/2.17/reference_appendices/interpreter_discovery.html for more information.
 ASK [Install HTTD on RedHat/Cent05]
**kinpins: [19:168-153-182]
**The translation of the 
  ASK [Validate HTTPD version (RedHat)]
   ipping: [192.168.153.128]
ipping: [192.168.153.131]
ipping: [192.168.153.132]
ipping: [192.168.153.133]
 ASK [Validate HTTPD version (RedHat)]
  kipping: [192.168.153.128]
kipping: [192.168.153.131]
kipping: [192.168.153.132]
kipping: [192.168.153.133]
 TASK [Show Apache version on Debian]
       192.168.153.128] => {
httpd_version.stdout": "VARIABLE IS NOT DEFINED!"
 ASK [Start and enable Apache service on Ubuntu]
  ASK [Start and enable HTTPD service on RedHat]
   ipping: [192.168.153.128]
ipping: [192.168.153.131]
ipping: [192.168.153.132]
ipping: [192.168.153.133]
 ster-vm:~/final-ansible/qus-5$
```