

Ansible qs3:

Steps1: create ansible playbook file

Nano site.yml

- name: Install and start web server on Ubuntu

hosts: webserver

become: true

tasks:

- name: Install Apache on Ubuntu

apt:

name: apache2

state: present

update_cache: yes

when: ansible_os_family == "Debian"

- name: Ensure Apache is the correct version

shell: apache2 -v

register: apache_version

changed_when: false

- name: Print Apache version

debug:

var: apache_version.stdout_lines

- name: Copy website files to web root

copy:

src: files/index.html

dest: /var/www/html/index.html

mode: '0644'

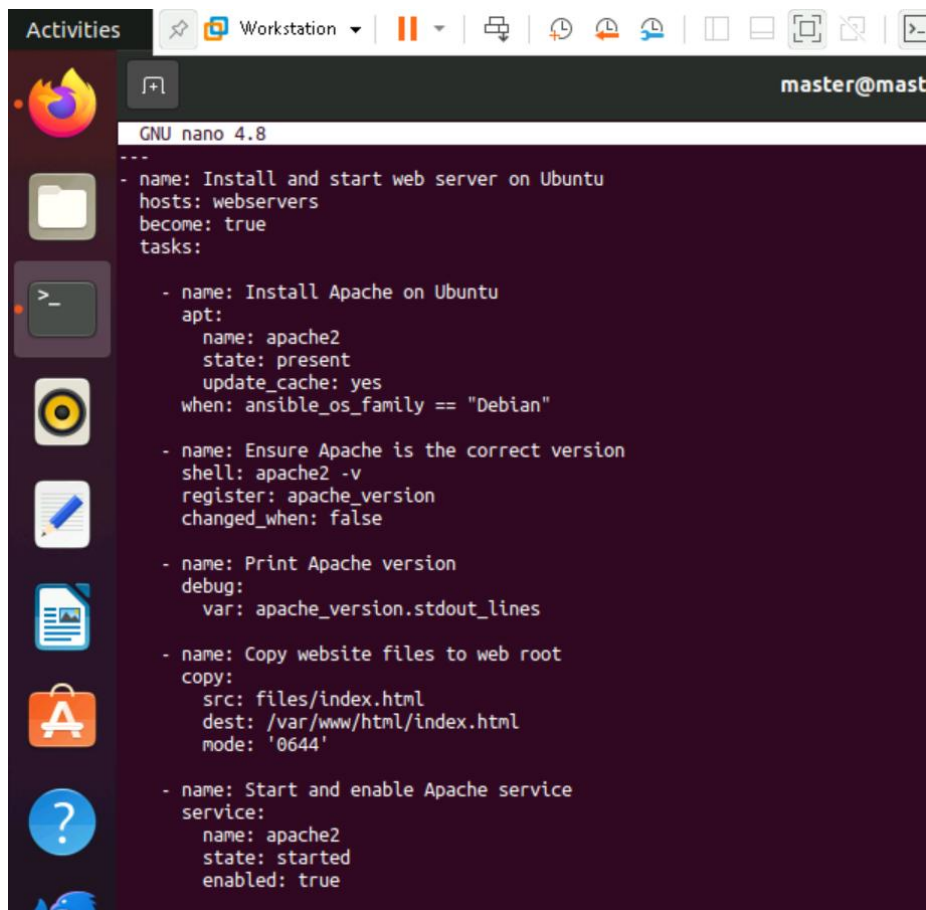
- name: Start and enable Apache service

service:

name: apache2

state: started

enabled: true



The screenshot shows a terminal window titled "master@mast" with the GNU nano 4.8 editor open. The editor contains an Ansible playbook with the following tasks:

```
---
- name: Install and start web server on Ubuntu
  hosts: webservers
  become: true
  tasks:

    - name: Install Apache on Ubuntu
      apt:
        name: apache2
        state: present
        update_cache: yes
        when: ansible_os_family == "Debian"

    - name: Ensure Apache is the correct version
      shell: apache2 -v
      register: apache_version
      changed_when: false

    - name: Print Apache version
      debug:
        var: apache_version.stdout_lines

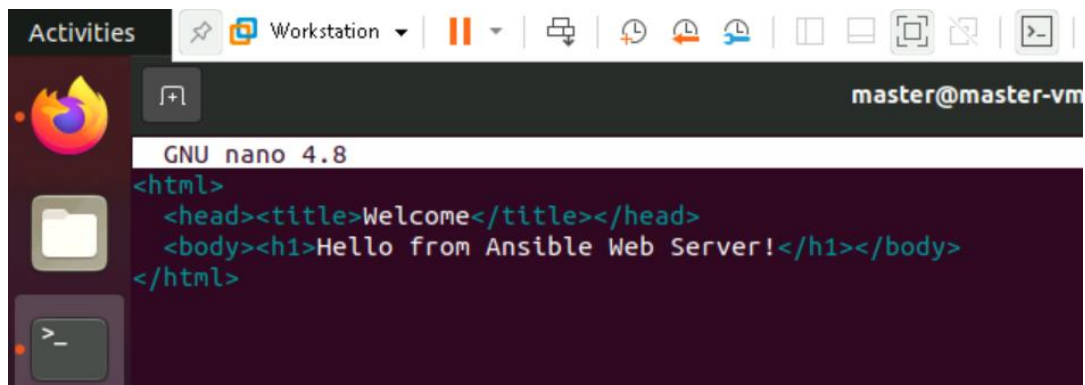
    - name: Copy website files to web root
      copy:
        src: files/index.html
        dest: /var/www/html/index.html
        mode: '0644'

    - name: Start and enable Apache service
      service:
        name: apache2
        state: started
        enabled: true
```

Step 2: create html file

Mkdir files

Nano index.html



The screenshot shows a terminal window titled "master@master-vm" with the GNU nano 4.8 editor open. The editor contains the following HTML code:

```
<html>
  <head><title>Welcome</title></head>
  <body><h1>Hello from Ansible Web Server!</h1></body>
</html>
```

Step3: run the playbook

```
master@master-vm:~/Desktop/exam/project1$ ansible-playbook -i hosts.ini site.yml --ask-become-pass
BECOME password:

PLAY [Install and start web server on Ubuntu] *****

TASK [Gathering Facts] *****
ok: [worker1]

TASK [Install Apache on Ubuntu] *****
[WARNING]: Skipping plugin (/usr/lib/python3/dist-packages/ansible/plugins/filter/core.py) as it seems to be invalid: cannot import
name 'environmentfilter' from 'jinja2.filters' (/usr/local/lib/python3.8/dist-packages/jinja2/filters.py)
[WARNING]: Skipping plugin (/usr/lib/python3/dist-packages/ansible/plugins/filter/mathstuff.py) as it seems to be invalid: cannot
import name 'environmentfilter' from 'jinja2.filters' (/usr/local/lib/python3.8/dist-packages/jinja2/filters.py)
ok: [worker1]

TASK [Ensure Apache is the correct version] *****
ok: [worker1]

TASK [Print Apache version] *****
[WARNING]: Skipping plugin (/usr/lib/python3/dist-packages/ansible/plugins/filter/core.py) as it seems to be invalid: cannot import
name 'environmentfilter' from 'jinja2.filters' (/usr/local/lib/python3.8/dist-packages/jinja2/filters.py)
[WARNING]: Skipping plugin (/usr/lib/python3/dist-packages/ansible/plugins/filter/mathstuff.py) as it seems to be invalid: cannot
import name 'environmentfilter' from 'jinja2.filters' (/usr/local/lib/python3.8/dist-packages/jinja2/filters.py)
ok: [worker1] => {
  "apache_version.stdout_lines": [
    "Server version: Apache/2.4.41 (Ubuntu)",
    "Server built: 2025-04-02T18:34:29"
  ]
}

TASK [Copy website files to web root] *****
ok: [worker1]

TASK [Start and enable Apache service] *****
[WARNING]: Skipping plugin (/usr/lib/python3/dist-packages/ansible/plugins/filter/core.py) as it seems to be invalid: cannot import
name 'environmentfilter' from 'jinja2.filters' (/usr/local/lib/python3.8/dist-packages/jinja2/filters.py)
[WARNING]: Skipping plugin (/usr/lib/python3/dist-packages/ansible/plugins/filter/mathstuff.py) as it seems to be invalid: cannot
import name 'environmentfilter' from 'jinja2.filters' (/usr/local/lib/python3.8/dist-packages/jinja2/filters.py)
ok: [worker1]
```

Step4: access the webpage in

<http://192.168.147.129/index.html>

