

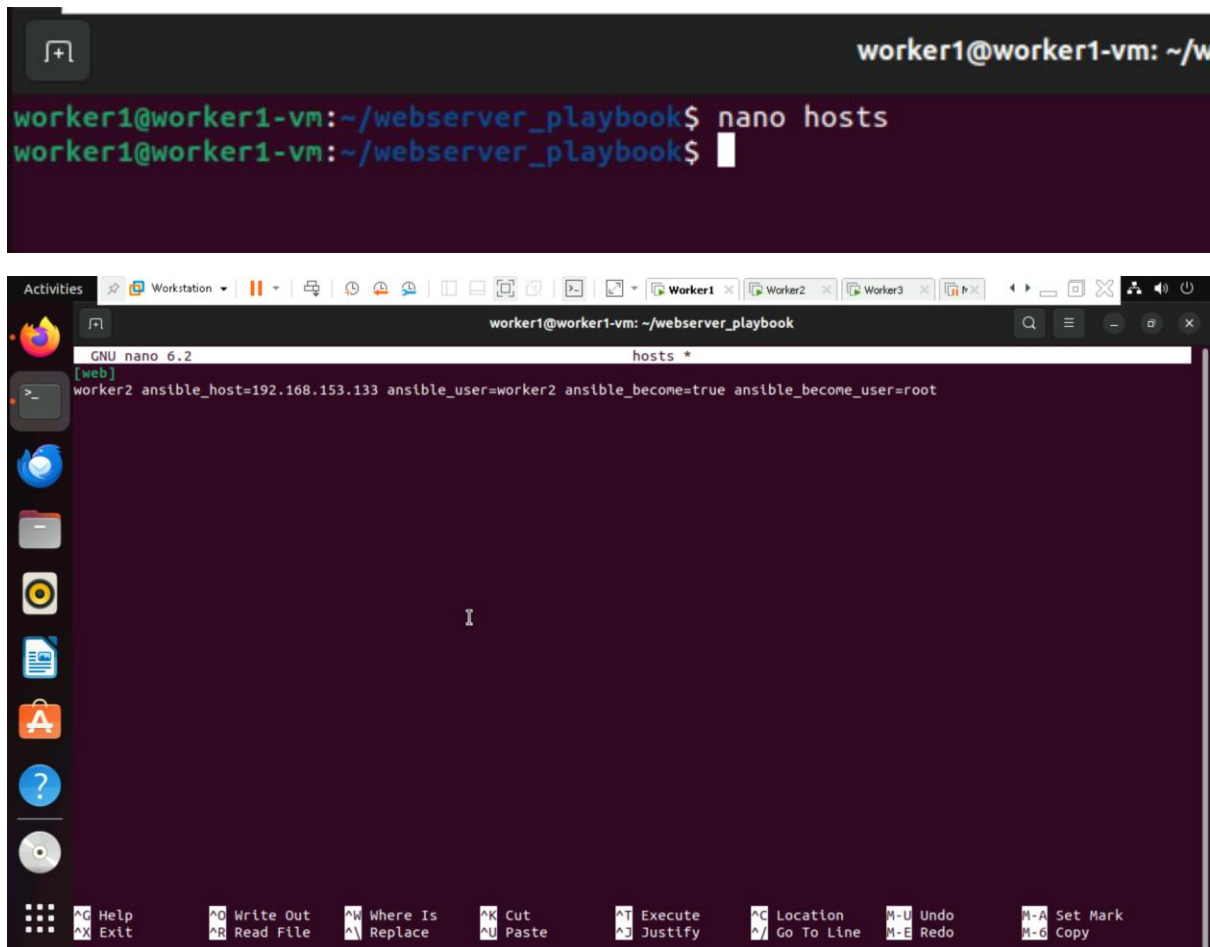
Question:

Write an Ansible playbook to a web server on the remote host with the following conditions:

- Install the right package (apache2 if it is Ubuntu, httpd if is RedHat) based on the Linux distribution
- Validate the right version is installed
- copy the local website content to the remote host and set the permissions to 0644
- and then start the service

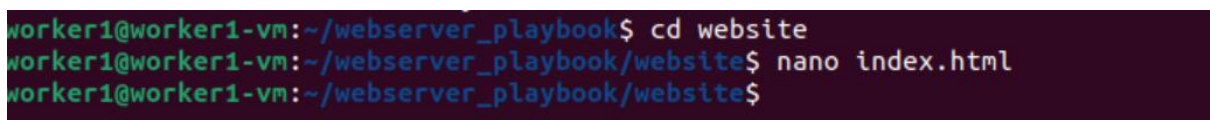
Solution:

1. Create Inventory file



The screenshot shows a terminal window with the prompt `worker1@worker1-vm: ~/w`. The user enters `nano hosts` to create a new file. The terminal then shows the content of the `hosts` file in nano editor: `worker2 ansible_host=192.168.153.133 ansible_user=worker2 ansible_become=true ansible_become_user=root`. The terminal window is titled `worker1@worker1-vm: ~/webserver_playbook`. The nano editor interface shows the file name `hosts *` and the GNU nano 6.2 version.

2. Create Website files



The screenshot shows a terminal window with the prompt `worker1@worker1-vm: ~/webserver_playbook`. The user enters `cd website` to navigate to the website directory. The prompt changes to `worker1@worker1-vm: ~/webserver_playbook/website`. The user then enters `nano index.html` to create a new file. The terminal then shows the prompt `worker1@worker1-vm: ~/webserver_playbook/website`.

```
worker1@worke

GNU nano 6.2
echo "<h1>Hello from Sahil!</h1>"
```

3. Create Playbook

```
worker1@worker1-vm: ~/webserver_playbook/website
worker1@worker1-vm:~/webserver_playbook/website$ nano webserver.yml
worker1@worker1-vm:~/webserver_playbook/website$
```

```
GNU nano 6.2 webserver.yml *
--
- name: Setup web server on remote host
  hosts: web
  become: true
  tasks:
    - name: Install Apache on Ubuntu
      apt:
        name: apache2
        state: present
        when: ansible_os_family == "Debian"

    - name: Install httpd on RedHat
      yum:
        name: httpd
        state: present
        when: ansible_os_family == "RedHat"

    - name: Copy website content
      copy:
        src: website/index.html
        dest: /var/www/html/index.html
        mode: '0644'

    - name: Start and enable apache2 on Ubuntu
      service:
        name: apache2
        state: started
        enabled: true
        when: ansible_os_family == "Debian"

    - name: Start and enable httpd on RedHat
```

4. Run the playbook

```
worker1@worker1-vm: ~/webserver_playbook
worker1@worker1-vm:~/webserver_playbook$ ansible-playbook -i hosts webserver.yml --ask-become-pass
BECOME password:

PLAY [Setup web server on remote host] *****
TASK [Gathering Facts] *****
ok: [worker2]
TASK [Install Apache on Ubuntu] *****
ok: [worker2]
TASK [Install httpd on RedHat] *****
skipping: [worker2]
TASK [Copy website content] *****
changed: [worker2]
TASK [Start and enable apache2 on Ubuntu] *****
ok: [worker2]
TASK [Start and enable httpd on RedHat] *****
skipping: [worker2]
PLAY RECAP *****
worker2                : ok=4    changed=1    unreachable=0    failed=0    skipped=2    rescued=0    ignored=0

worker1@worker1-vm:~/webserver_playbook$
```

Output:

