

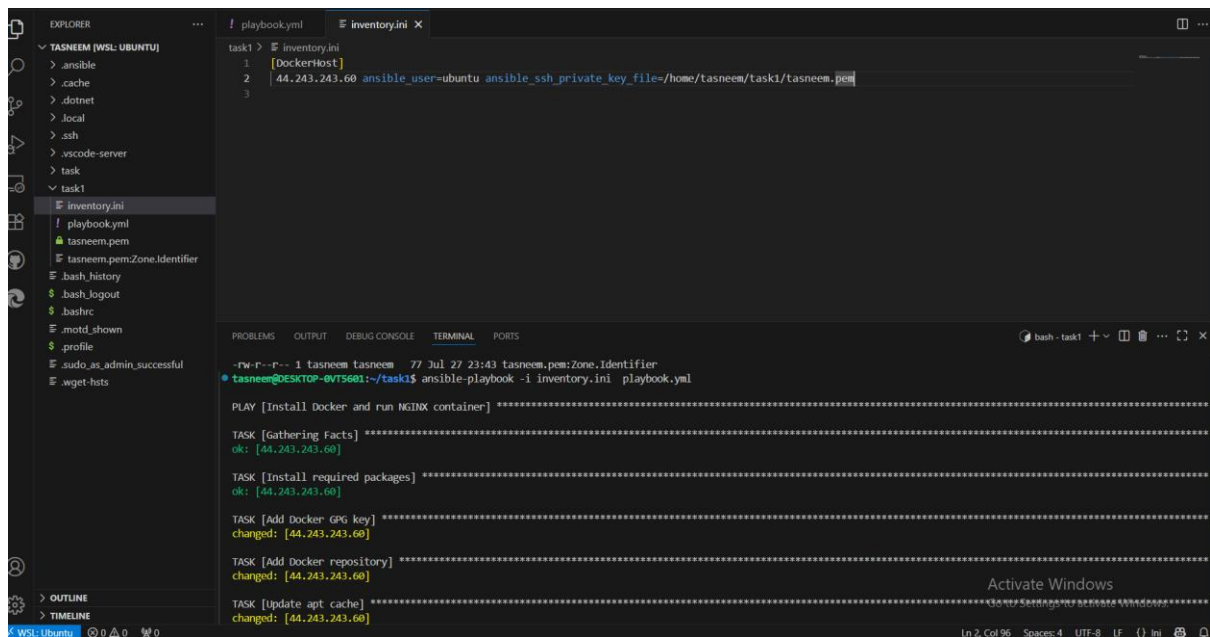
Docker Task 1:

- create Ansible Playbook :

* Install dokcer

* run nginx Container

* run Docker ps and the ouput should be appears in the terminal



```
task1 > inventory.ini
1 [DockerHost]
2 44.243.243.60 ansible_user=ubuntu ansible_ssh_private_key_file=/home/tasneem/task1/tasneem.pem
3

-rw-r--r-- 1 tasneem tasneem 77 Jul 27 23:43 tasneem.pem:Zone.Identifier
tasneem@DESKTOP-0VT5601:~/task1$ ansible-playbook -i inventory.ini playbook.yml

PLAY [Install Docker and run NGINX container] *****

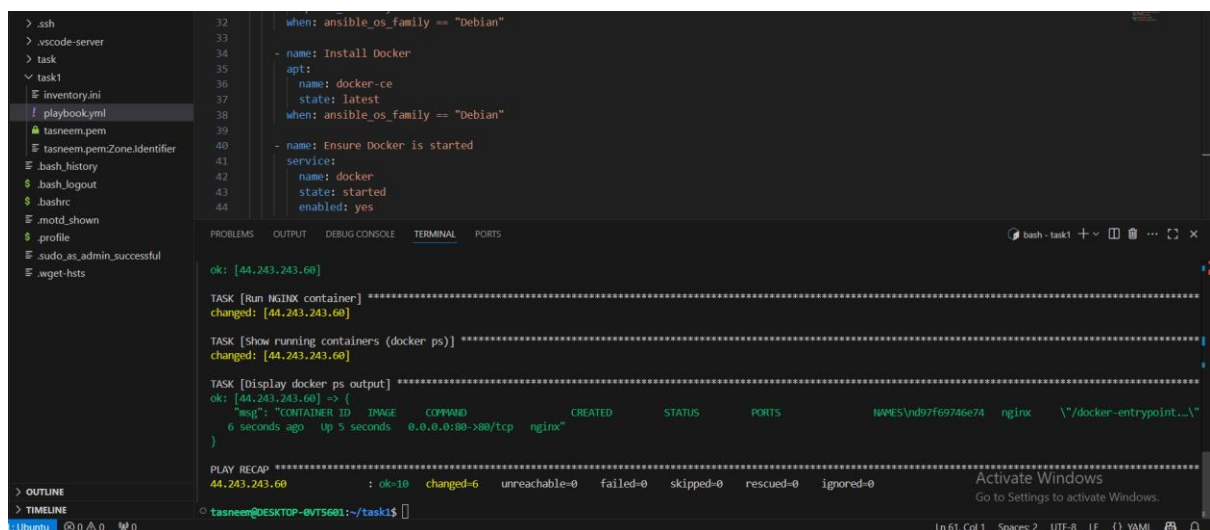
TASK [Gathering Facts] *****
ok: [44.243.243.60]

TASK [Install required packages] *****
ok: [44.243.243.60]

TASK [Add Docker GPG key] *****
changed: [44.243.243.60]

TASK [Add Docker repository] *****
changed: [44.243.243.60]

TASK [Update apt cache] *****
changed: [44.243.243.60]
```



```
32 when: ansible_os_family == "Debian"
33
34 - name: Install Docker
35 apt:
36   name: docker-ce
37   state: latest
38   when: ansible_os_family == "Debian"
39
40 - name: Ensure Docker is started
41 service:
42   name: docker
43   state: started
44   enabled: yes

ok: [44.243.243.60]

TASK [Run NGINX container] *****
changed: [44.243.243.60]

TASK [Show running containers (docker ps)] *****
changed: [44.243.243.60]

TASK [Display docker ps output] *****
ok: [44.243.243.60] => {
  "msg": "CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS    PORTS      NAMES
  6 seconds ago   Up 5 seconds   0.0.0.0:80->80/tcp      nginx"
}

PLAY RECAP *****
44.243.243.60      : ok=10  changed=6  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

tasneem@DESKTOP-0VT5601:~/task1$
```

This screenshot shows the initial state of the Ansible playbook 'playbook.yml' in VS Code. The left sidebar displays the Explorer view with the file tree for 'TASNEEM (WSL: UBUNTU)'. The main editor shows the 'playbook.yml' file with the following content:

```
1 ---
2 - name: Install Docker and run NGINX container
3   hosts: dockerHost
4   become: yes
5
6 tasks:
7   - name: Install required packages
8     apt:
9       name:
10        - apt-transport-https
11        - ca-certificates
12        - curl
13        - software-properties-common
14       state: present
15       when: ansible_os_family == "Debian"
16
17   - name: Add Docker GPG key
18     apt_key:
19       url: https://download.docker.com/linux/ubuntu/gpg
20       state: present
21       when: ansible_os_family == "Debian"
22
23   - name: Add Docker repository
24     apt_repository:
25       repo: deb [arch=amd64] https://download.docker.com/linux/ubuntu {{ ansible_distribution_release }} stable
26       state: present
27       when: ansible_os_family == "Debian"
28
29   - name: Update apt cache
30     apt:
31       update_cache: yes
32       when: ansible_os_family == "Debian"
33
34   - name: Install Docker
35     apt:
36       name: docker-ce
37       state: latest
```

The right sidebar shows the Outline view with a list of tasks. The bottom right corner displays the 'Activate Windows' watermark.

This screenshot shows the updated state of the Ansible playbook 'playbook.yml' in VS Code. The left sidebar displays the Explorer view with the file tree for 'TASNEEM (WSL: UBUNTU)'. The main editor shows the 'playbook.yml' file with the following content:

```
1 ---
2 - name: Install Docker and run NGINX container
3   hosts: dockerHost
4   become: yes
5
6 tasks:
7   - name: Update apt cache
8     apt:
9       update_cache: yes
10      when: ansible_os_family == "Debian"
11
12   - name: Install Docker
13     apt:
14       name: docker-ce
15       state: latest
16       when: ansible_os_family == "Debian"
17
18   - name: Ensure Docker is started
19     service:
20       name: docker
21       state: started
22       enabled: yes
23
24   - name: Run NGINX container
25     docker_container:
26       name: nginx
27       image: nginx
28       state: started
29       ports:
30        - "80:80"
31
32   - name: Show running containers (docker ps)
33     shell: docker ps
34     register: docker_ps_output
35
36   - name: Display docker ps output
37     debug:
38       msg: "{{ docker_ps_output.stdout }}"
```

The right sidebar shows the Outline view with a list of tasks. The bottom right corner displays the 'Activate Windows' watermark.