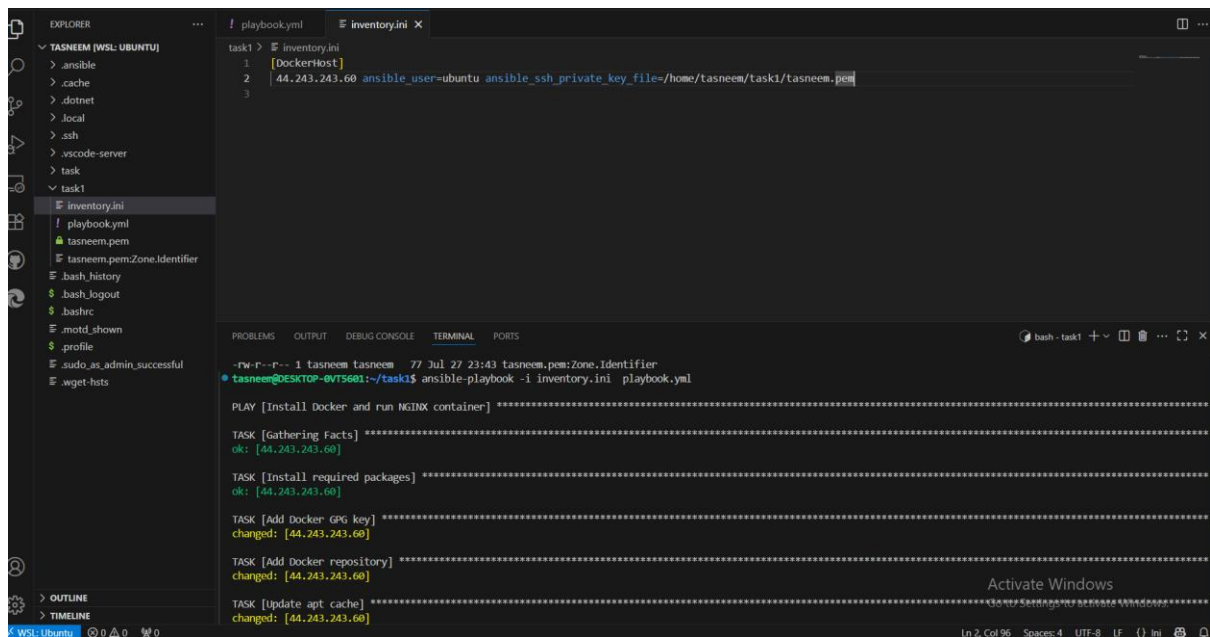Docker Task 1:

 - create Ansible Playbook :

* Install dokcer

* run nginx Container

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

Screenshot 1:

File Edit Selection View Go Run Terminal Help

tasneem [WSL: Ubuntu]

EXPLORER

TASNEEM [WSL: UBUNTU]
> .ansible
> .cache
> .dotnet
> .local
> .ssh
> .vscode-server
> task
∨ task1
  ≡ inventory.ini
  ! playbook.yml
  🔒 tasneem.pem
  ≡ tasneem.pem:Zone.Identifier
  ≡ .bash_history
  $ .bash_logout
  $ .bashrc
  ≡ .motd_shown
  $ .profile
  ≡ .sudo_as_admin_successful
  ≡ .wget-hsts

playbook.yml ×   inventory.ini

task1 > ! playbook.yml
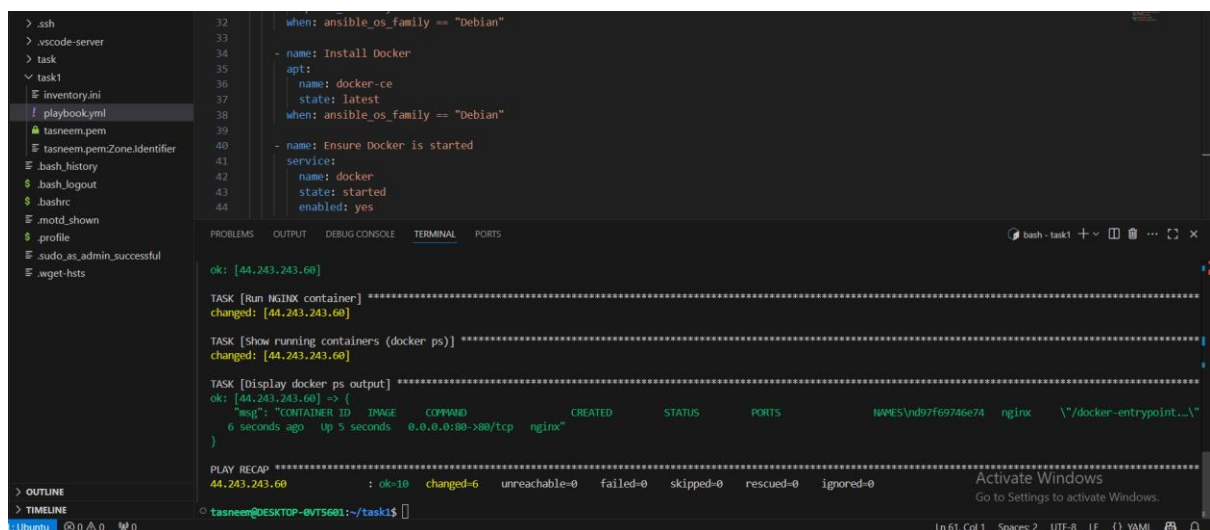
```yaml
1   ---
2   - name: Install Docker and run NGINX container
3     hosts: DockerHost
4     become: yes
5
6     tasks:
7       - name: Install required packages
8         apt:
9           name:
10            - apt-transport-https
11            - ca-certificates
12            - curl
13            - 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
```

Screenshot 2:

Edit Selection View Go Run Terminal Help

tasneem [WSL: Ubuntu]

EXPLORER

TASNEEM [WSL: UBUNTU]
> .ansible
> .cache
> .dotnet
> .local
> .ssh
> .vscode-server
> task
∨ task1
  ≡ inventory.ini
  ! playbook.yml
  🔒 tasneem.pem
  ≡ tasneem.pem:Zone.Identifier
  ≡ .bash_history
  $ .bash_logout
  $ .bashrc
  ≡ .motd_shown
  $ .profile
  ≡ .sudo_as_admin_successful
  ≡ .wget-hsts

playbook.yml ×   inventory.ini

task1 > ! playbook.yml

```yaml
2   - name: Install Docker and run NGINX container
6     tasks:
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
38        when: ansible_os_family == "Debian"
39
40      - name: Ensure Docker is started
41        service:
42          name: docker
43          state: started
44          enabled: yes
45
46      - name: Run NGINX container
47        docker_container:
48          name: nginx
49          image: nginx
50          state: started
51          ports:
52            - "80:80"
53
54      - name: Show running containers (docker ps)
55        shell: docker ps
56        register: docker_ps_output
57
58      - name: Display docker ps output
59        debug:
60          msg: "{{ docker_ps_output.stdout }}"
61
```

OUTLINE