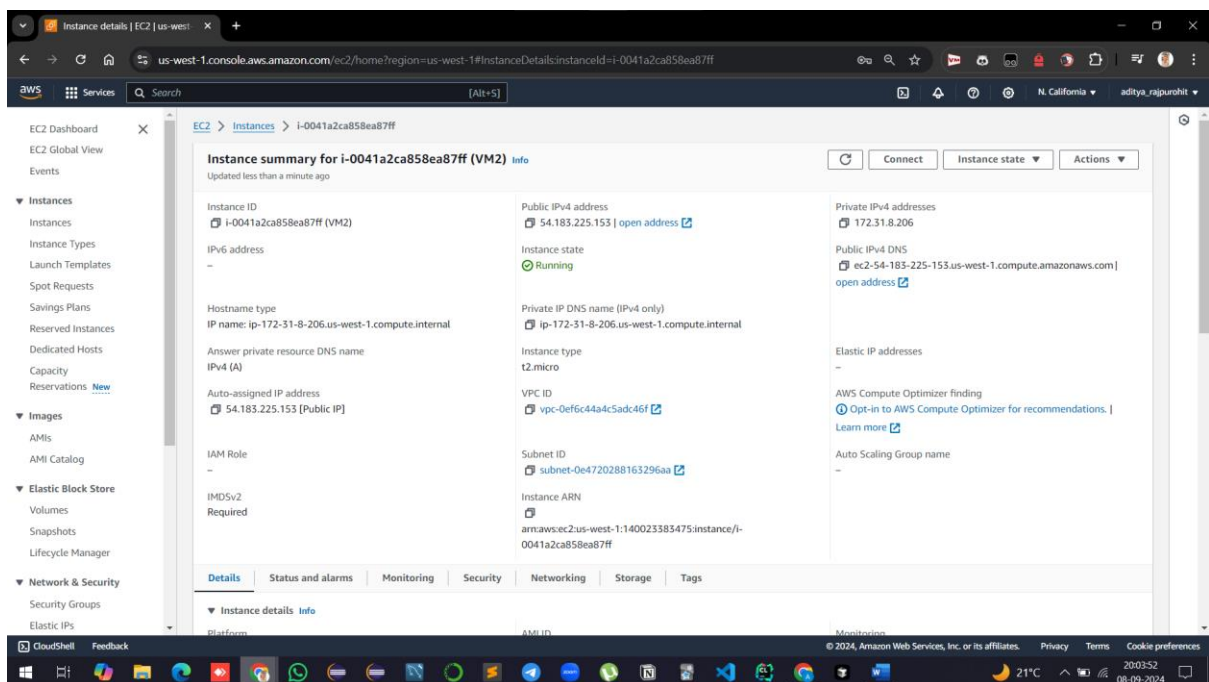
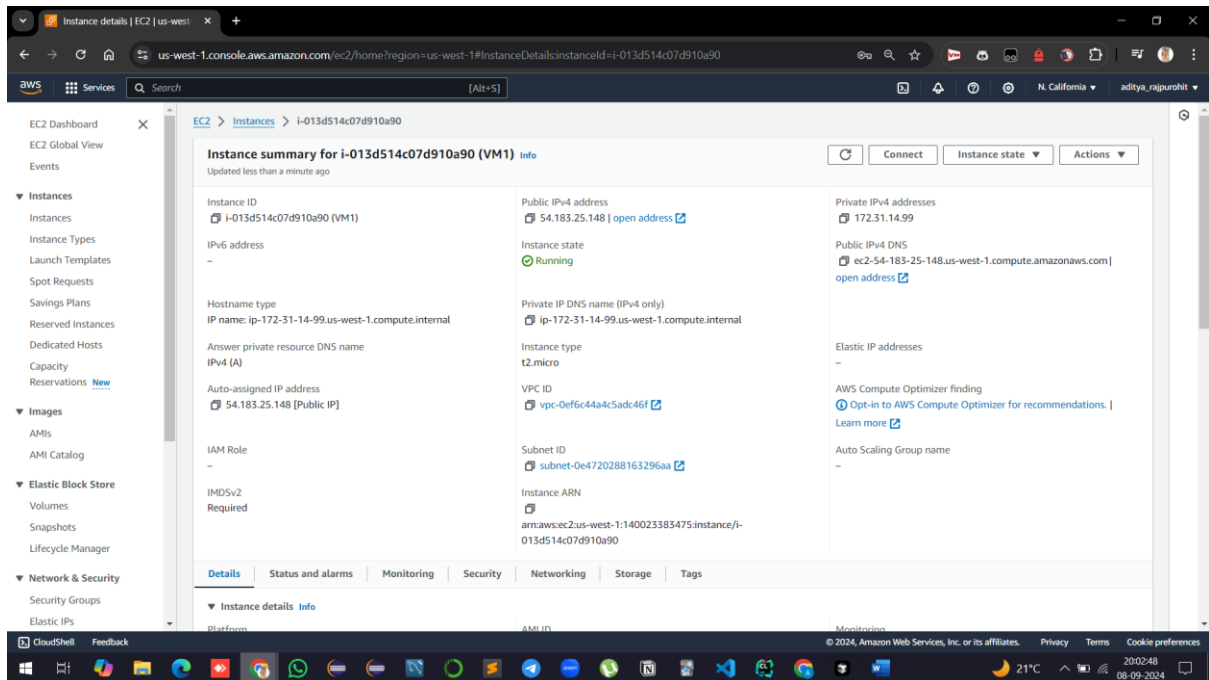
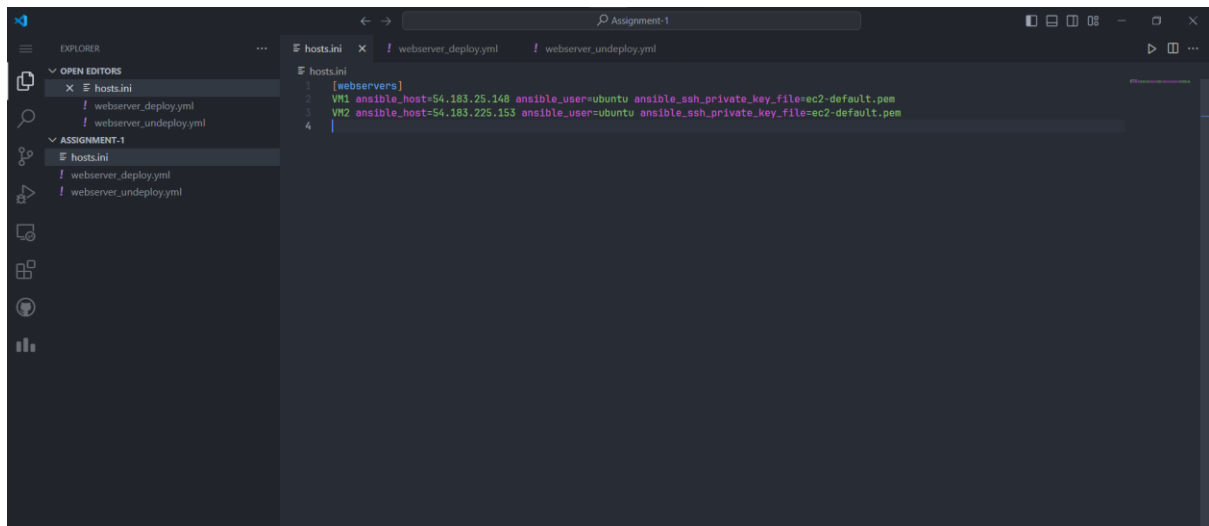


# Ansible Assignment Demo

- Two Virtual Machines, VM1 & VM2

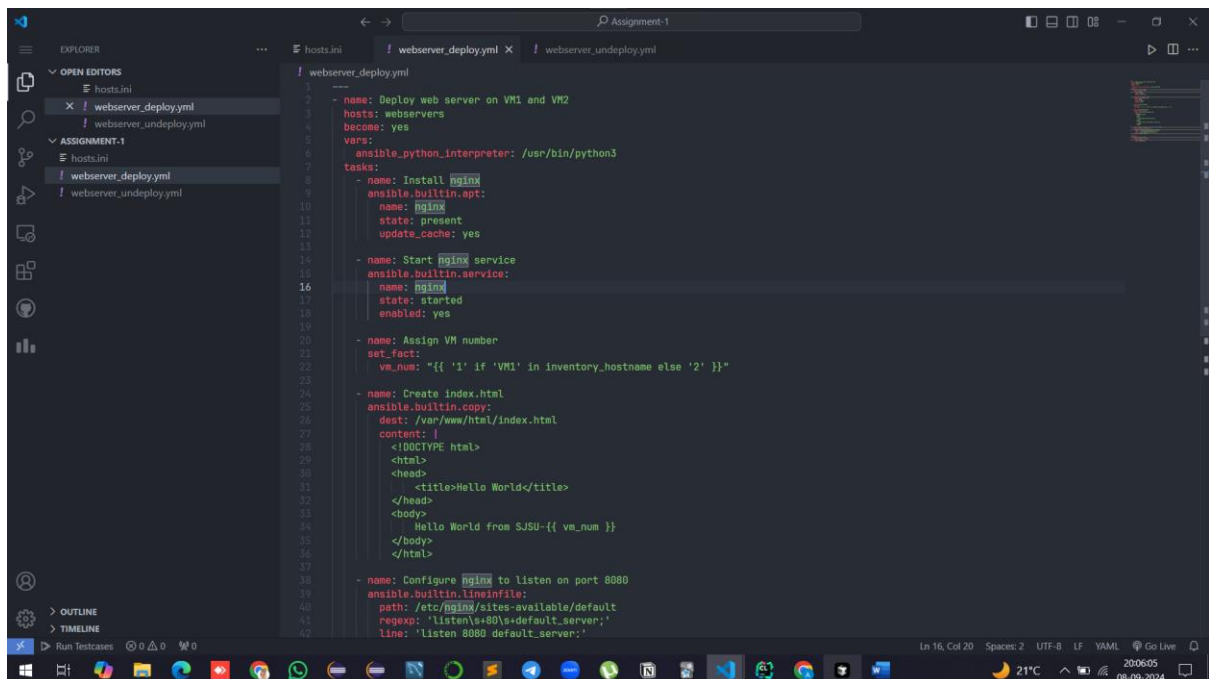


- Configured Ansible to deploy a webserver on **VM1** and **VM2** on port 8080 with a webpage that is accessible from a web browser and displays message.



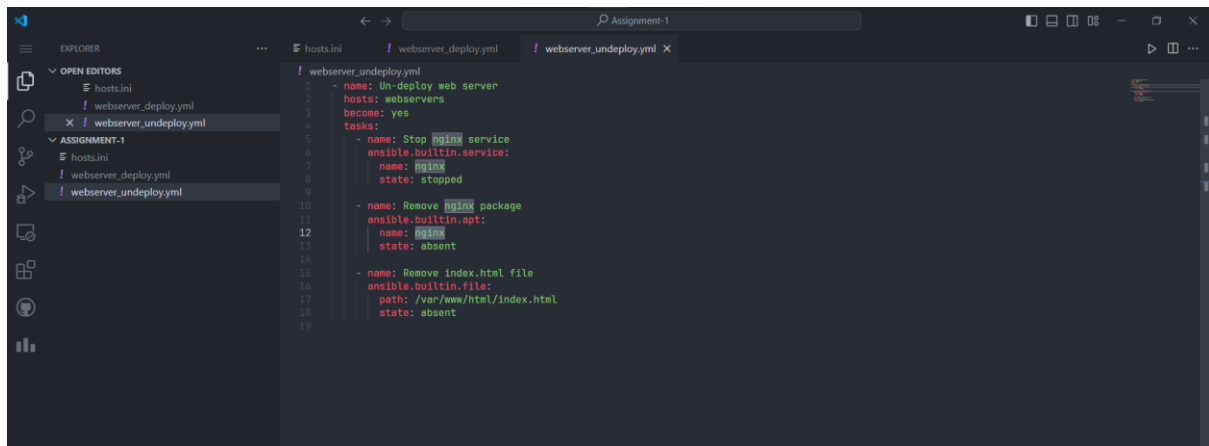
This screenshot shows the VS Code interface with the `hosts.ini` file open. The file defines two hosts, VM1 and VM2, for the `webservers` group. Both hosts are configured with the same variables: `ansible_host`, `ansible_user`, and `ansible_ssh_private_key_file`.

```
1 [webservers]
2 VM1 ansible_host=54.183.25.148 ansible_user=ubuntu ansible_ssh_private_key_file=ec2-default.pem
3 VM2 ansible_host=54.183.225.153 ansible_user=ubuntu ansible_ssh_private_key_file=ec2-default.pem
4
```



This screenshot shows the `webserver_deploy.yml` file in the VS Code editor. The playbook is designed to deploy a web server on VM1 and VM2. It includes tasks for installing `nginx`, starting the `nginx` service, assigning a VM number, creating an `index.html` file, and configuring `nginx` to listen on port 8080.

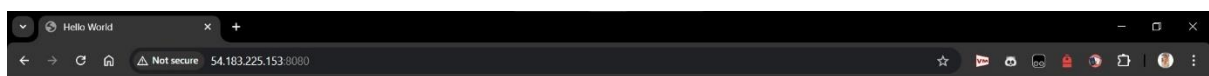
```
1 - name: Deploy web server on VM1 and VM2
2   hosts: webservers
3   become: yes
4   vars:
5     ansible_python_interpreter: /usr/bin/python3
6   tasks:
7     - name: Install nginx
8       ansible.builtin.apt:
9         name: nginx
10        state: present
11        update_cache: yes
12
13    - name: Start nginx service
14      ansible.builtin.service:
15        name: nginx
16        state: started
17        enabled: yes
18
19    - name: Assign VM number
20      set_fact:
21        vm_num: "{{ '1' if 'VM1' in inventory_hostname else '2' }}"
22
23    - name: Create index.html
24      ansible.builtin.copy:
25        dest: /var/www/html/index.html
26        content: |
27          <!DOCTYPE html>
28          <html>
29          <head>
30            <title>Hello World</title>
31          </head>
32          <body>
33            Hello World from SJSU-{{ vm_num }}
34          </body>
35          </html>
36
37    - name: Configure nginx to listen on port 8080
38      ansible.builtin.lineinfile:
39        path: /etc/nginx/sites-available/default
40        regexp: 'listen\s+80\s+default_server;'
41        line: 'listen 8080 default_server;'
```



- Message displayed on Port 8080



Hello World from SJSU-1



Hello World from SJSU-2



- <https://github.com/addyyR/CMPE-272/tree/main/Assignment-1>