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FA24: CMPE-272 Sec 49-Enterprise SW Platforms

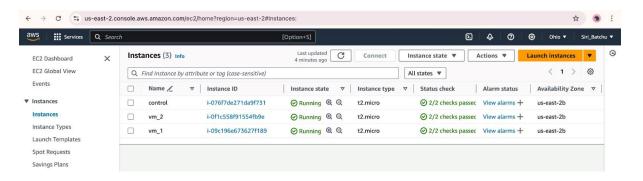
Assignment 1:

 Configure two VMs, VM1 and VM2 either on your own hardware, or in a cloud environment. Configure Ansible to deploy a webserver on VM1 and VM2 on port 8080 with a web page that is accessible from a web browser, and displays the message: "Hello World from SJSU-X" where X is 1 or 2 depending on which webserver instance, VM1 or VM2.

- Include in the Ansible playbook, plays to deploy and un-deploy the webserver resources
- Submit a Word document, with screenshots showing your work, and a demo, and all ansible code/scripts via github

Solution:

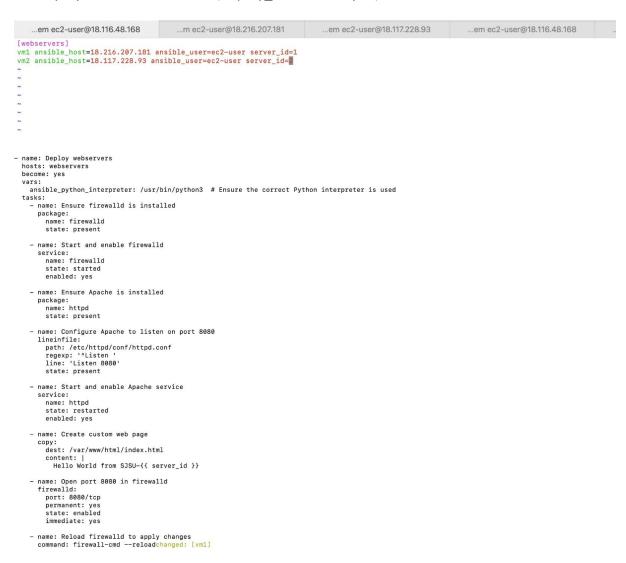
1. Create three virtual machines (control, vm 1, vm 2) in Amazon ec2



2. Installation of Ansible in Ansible controller machine

```
| CacuserSip-172-31-16-151 -)$ sudo yum install ensible -y | Cast netdedte expiration check: 0:37:36 ago on Mon Sep 9 02:46:10 2024. | Dependencies resolved. | Dependencie
```

3. Create Ansible hosts (hosts.ini) file to connect to VMs and configure webservers for deployment of webservers (deploy_webservers.yml)



4. Execute the ansible playbook for the deployment of webservers in vm 1 and vm 2



5. Webpage outcomes that can access from browser and display of message.

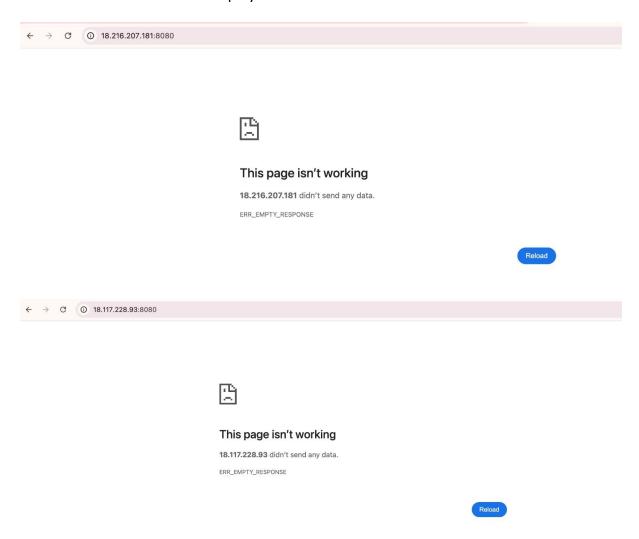


6. Create undeploy webservers.yml file to undeploy webservers.

```
- name: Un-deploy webservers
 hosts: webservers
become: yes
tasks:
   - name: Stop and disable Apache service
     service:
       name: httpd
       state: stopped
       enabled: no
   - name: Remove Apache package
     package:
       name: httpd
       state: absent
   - name: Remove custom web page
     file:
       path: /var/www/html/index.html
       state: absent
   - name: Remove port 8080 from firewalld
     firewalld:
       port: 8080/tcp
       state: disabled
       permanent: yes
   - name: Reload firewalld to apply changes
     command: firewall-cmd --reload
   - name: Stop and disable firewalld
     service:
       name: firewalld
       state: stopped
       enabled: no
```

7. Execute the ansible playbook for the undeployment of webservers in vm_1 and vm_2.

8. Outcomes after successful undeployment of webservers.



Github link: https://github.com/SiriBatchu/CMPE-272-HW1