# [FA24: CMPE-272 Sec 48 –](https://sjsu.instructure.com/courses/1596972)ENTERPRISE SW PLATFORMS

ASSIGNMENT-2 HW #1 - Ansible

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Github link: <https://github.com/revanth2802/ansibleet>

Demo: https://drive.google.com/file/d/1vlKkQEY60BbbNtovQhNk\_Ll4bqTlV6uG/view?usp=sharing

* 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

created 3 instances in the AWS  
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configured three VMs using the terraform  
VM1, VM2 and VMAC(main VM where ansible is executed)



main.tf configuration of vms

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Ips output for VM1, VM2 and VMAC:  
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VM1  
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VM2  
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Description automatically generatedVMAC:

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**hosts.ini**  
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[webservers]

ansible-vm1 ansible\_host=54.67.19.17 ansible\_user=ubuntu ansible\_ssh\_private\_key\_file=/home/ubuntu/example\_key.pem ansible\_python\_interpreter=/usr/bin/python3

ansible-vm2 ansible\_host=50.18.9.33 ansible\_user=ubuntu ansible\_ssh\_private\_key\_file=/home/ubuntu/example\_key.pem ansible\_python\_interpreter=/usr/bin/python3

**webserver.yml**

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- name: Deploy Apache2 webserver on VM1 and VM2

hosts: webservers

become: yes

tasks:

- name: Install Apache2

apt:

name: apache2

state: present

update\_cache: yes

- name: Ensure Apache2 is running and enabled

service:

name: apache2

state: started

enabled: yes

- name: Change Apache2 default port to 8080

lineinfile:

path: /etc/apache2/ports.conf

regexp: '^Listen 80'

line: 'Listen 8080'

- name: Update index.html with a custom message

copy:

content: |

<html>

<head><title>Hello</title></head>

<body><h1>Hello World from SJSU-{{ inventory\_hostname == 'ansible-vm1' | ternary('1', '2') }}</h1></body>

</html>

dest: /var/www/html/index.html

- name: Open port 8080 in the firewall (for Ubuntu's UFW)

ufw:

rule: allow

port: '8080'

proto: tcp

- name: Restart Apache2 to apply changes

service:

name: apache2

state: restarted

- name: Un-deploy Apache2 webserver on VM1 and VM2

hosts: webservers

become: yes

tasks:

- name: Stop Apache2

service:

name: apache2

state: stopped

- name: Uninstall Apache2

apt:

name: apache2

state: absent

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