Ansible Project

# Aim:

To deploy 3 Virtual machines and configure ansible server on *VM 1*to deploy a web server *to VM2*and *VM3* on the port 8080 which displays a message “ Hello World from SJSU “

# Step1:

Build 3 virtual machines in which one acts as a central node VM to deploy apache2 web servers on two other managed nodes.

Below are the 3 VM’s deployed on EC2

Here

VM1 acts a central node VM

VM2, VM3 are Managed nodes

Graphical user interface, application

Description automatically generated

# **Step2:**

Install ansible on central node VM using below command

sudo apt install ansible

Graphical user interface, text, application

Description automatically generated

# Step3:

Setup Passwordless SSH login by generating a public-private key pair and exchanging the public keys between Central node and Managed nodes.

1. Command used to generate SSH key-pair : ssh-keygen -t rsa
2. Copied public key in id\_rsa.pub to authorized\_keys in other nodes

# Step4:

Update the host file - /etc/ansible/hosts with the IP address of Managed nodes

Text

Description automatically generated

# Step5:

Create an YAML file to deploy webservers

Graphical user interface, text, application, email

Description automatically generated

Deploy Web Servers using command: ansible-playbook <yml\_filename>

Graphical user interface, application

Description automatically generated

# Step6:

Uninstalling apache from VM

Table

Description automatically generated

# Github link:

<https://github.com/ravitejareddy-dodda/CMPE-272-ESP/tree/main/Assignment1>