Lesson 6 Lesson End Project: Set up MySQL Database Using Ansible

This section will guide you to:

* Set up MySQL database using Ansible

This lab has four sub-sections:

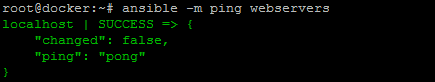
1. Establish connectivity between Ansible controller and node machine
2. Write Ansible YAML script to install Ansible software
3. Run Ansible YAML script

**Please Note:** You should have already established the SSH connection with localhost to proceed with the project.

**Step 1:** Establish connectivity between Ansible controller and node machine.

* Validate Ansible connectivity with web servers host group.

**ansible -m ping webservers**



**Step 2:** Write Ansible YAML script to install MySQL.

* Execute the following command to create the yaml file:

**sudo vi mysql.yaml**

* Then, add the following in the file:

**-hosts: webservers**

**tasks:**

**-name: Install MySQL**

**action: apt pkg={{ item }} state=installed**

**with\_items:**

**- libmysqlclient-dev**

**- python-mysqldb**

**- mysql-server**

**- mysql-client**

**- name: Start the MySQL service**

**action: service name=mysql state=started**

**- name: Remove the test database**

**mysql\_db: name=test state=absent**

**- name: Create deploy user for mysql**

**mysql\_user: user=”deploy” host=”%” password=password priv=\*.\*:ALL,GRANT**

**- name: Ensure anonymous users are not in the database**

**mysql\_user: user=’’ host={{ item }} state=absent**

**with\_items:**

**- 127.0.0.1**

**- ::1**

**- localhost**

**- name: Update mysql root password for all root accounts**

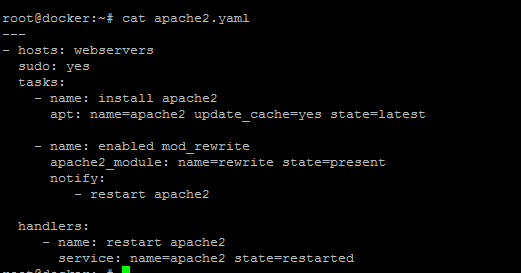
**mysql\_user: name=root host={{ item }} password=password**

**with\_items:**

**- 127.0.0.1**

**- ::1**

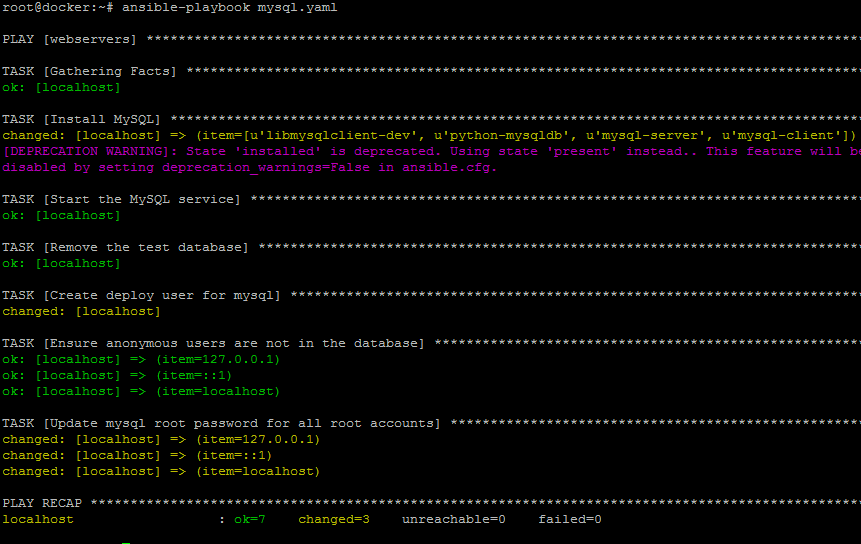
**- localhost**



**Step 3:** Run Ansible YAML script

* Run mysql.yaml file using below command:

**ansible-playbook mysql.yaml**



* Validate installation using command:

**ansible -m shell -a "service mysql status" webservers**

