ansible-galaxy role init simulate\_rds\_mysql

yaml name=simulate\_rds\_mysql/meta/main.yml

---

galaxy\_info:

role\_name: simulate\_rds\_mysql

author: amitopenwriteup

description: Simulate an RDS MySQL setup on CentOS.

license: MIT

platforms:

- name: CentOS

versions:

- 7

- 8

dependencies: []

yaml name=simulate\_rds\_mysql/defaults/main.yml

---

mysql\_root\_password: "RootPass123!"

db\_name: "testdb"

db\_user: "dbuser"

db\_user\_password: "UserPass123!"

yaml name=simulate\_rds\_mysql/vars/main.yml

---

# Variables specific to this role

mysql\_service\_name: mariadb

mysql\_socket\_path: /var/lib/mysql/mysql.sock

yaml name=simulate\_rds\_mysql/handlers/main.yml

---

# Handlers for restarting MySQL when required

- name: Restart MySQL

service:

name: "{{ mysql\_service\_name }}"

state: restarted

yaml name=simulate\_rds\_mysql/tasks/main.yml

---

# Tasks for setting up simulated RDS MySQL

- name: Ensure Python 3 and pip are installed

yum:

name:

- python3

- python3-pip

state: present

- name: Install PyMySQL module for Python 3

pip:

name: PyMySQL

executable: pip3

- name: Install MariaDB server

yum:

name: mariadb-server

state: present

- name: Start and enable MariaDB service

service:

name: "{{ mysql\_service\_name }}"

state: started

enabled: true

- name: Set MySQL root password

mysql\_user:

name: root

host\_all: yes

password: "{{ mysql\_root\_password }}"

login\_unix\_socket: "{{ mysql\_socket\_path }}"

ignore\_errors: true

- name: Create a MySQL database

mysql\_db:

name: "{{ db\_name }}"

state: present

login\_user: root

login\_password: "{{ mysql\_root\_password }}"

- name: Create a MySQL user with privileges

mysql\_user:

name: "{{ db\_user }}"

password: "{{ db\_user\_password }}"

priv: "{{ db\_name }}.\*:ALL"

host: "%"

state: present

login\_user: root

login\_password: "{{ mysql\_root\_password }}"

---

yaml name=roles/simulate\_rds\_mysql/tests/test.yml

---

- name: Test Simulated RDS MySQL Setup

hosts: db\_servers

become: yes

tasks:

- name: Verify MySQL service is running

service:

name: mariadb

state: started

- name: Verify MySQL database exists

mysql\_db:

name: "{{ db\_name }}"

state: present

login\_user: root

login\_password: "{{ mysql\_root\_password }}"

- name: Verify MySQL user exists

mysql\_user:

name: "{{ db\_user }}"

state: present

login\_user: root

login\_password: "{{ mysql\_root\_password }}"