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# How to setup MariaDB/MySQL Galera Cluster using ansible

# **Prerequisites:**

- → Three fresh ubuntu nodes
- → Ansible machine's able to ssh cluster nodes
- → Ports: 3306/tcp, 4567/tcp, 4568/tcp, 4444/tcp, 4567/udp

#### Note:

This is **Active-active cluster**, where every node is read-write and a change made to one is replicated to all.

## **Setup:**

✓ Install the galera cluster role:

ansible-galaxy install eradical.ansible\_mariadb\_galera\_cluster

**✓** Install mysql community role:

ansible-galaxy collection install community.mysql

## ✓ main.yml:

```
-name: Configure MariaDB Galera Cluster
hosts: galera-cluster-nodes
become: true
roles:
    - eradical.ansible_mariadb_galera_cluster
vars:
    mariadb_galera_cluster_name: my_cluster
    mariadb_galera_cluster_nodes: "{{ groups['galera-cluster-nodes'] }}"
mariadb_galera_cluster_bootstrap_node: ip-172-31-5-176
galera_mysql_first_node: ip-172-31-5-176
```

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galera\_cluster\_nodes: "{{ groups['galera-cluster-nodes'] }}"

### ✓ inventory.ini:

[galera-cluster-nodes]

ip-172-31-5-176 ansible\_host=3.144.254.133 ansible\_user=ubuntu

ip-172-31-6-32 ansible\_host=18.218.210.227 ansible\_user=ubuntu

ip-172-31-12-167 ansible\_host=3.21.21.111 ansible\_user=ubuntu

### **✓** Run Ansible-playbook:

ansible-playbook main.yml -i inventory.ini

#### **✓** Test Execution:

Creating database and inserting data into dB to verify that replication is working fine from different node's perspective.

Creating database on Node\_1:

create database galeratest;

insert some data into galeratest database from Node\_2

INSERT INTO person (first\_name, last\_name) VALUES ('John', 'Doe');

Verifying on Node\_3:

select \* from person;

# Source Repo:

- 1- <a href="https://github.com/mrlesmithjr/ansible-mariadb-galera-cluster">https://github.com/mrlesmithjr/ansible-mariadb-galera-cluster</a>
- 2- <a href="https://github.com/mrlesmithjr/ansible-mariadb-galera-cluster/blob/master/defaults/main.yml">https://github.com/mrlesmithjr/ansible-mariadb-galera-cluster/blob/master/defaults/main.yml</a>

### Reference Link:

1- <a href="https://galaxy.ansible.com/eradical/ansible-mariadb-galera-cluster">https://galaxy.ansible.com/eradical/ansible-mariadb-galera-cluster</a>

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2-	https://www.digitalocean.com/community/tutorials/how-to-configure-a-galera-cluster-with-mariadb-on-ubuntu-18-04-servers