

[How-To] Configure Virtual IP for MariaDB servers with Keepalived

Purpose

This How-To serves as documentation on how to add keepalived to your MariaDB servers so they can all share a virtual IP or a VIP.

Prerequisites

List of prerequisites:

- Sudo user
- Galera cluster of MariaDB servers on Ubuntu 24.04 LTS

Instructions

Step 1: Update and Install Software

Run commands below to update os and install keepalived:

```
sudo apt update
```

```
sudo apt install -y keepalived
```

Step 2: Configure Keepalived

With keepalived freshly installed, we can open the configuration file on each server with this command:

```
sudo nano /etc/keepalived/keepalived.conf
```

Here, you'll want to configure the master like this:

```
vrp_instance VI_1 {
    state MASTER
    interface eth0      # Replace with your actual network interface
    virtual_router_id 51
    priority 100        # Higher priority on the master
    advert_int 1

    authentication {
        auth_type PASS
        auth_pass securepassword
    }

    virtual_ipaddress {
        192.168.1.100   # Replace with your VIP
    }

    track_script {
        chk_mariadb
    }
}

vrp_script chk_mariadb {
    script "/usr/local/bin/check_mariadb.sh"
    interval 2
    weight -20
}
```

Then, you'll want to configure the backups like this:

```
vrp_instance VI_1 {
    state BACKUP
    interface eth0
    virtual_router_id 51
    priority 90         # Lower priority on the backup
    advert_int 1
```

```
authentication {
    auth_type PASS
    auth_pass securepassword
}

virtual_ipaddress {
    192.168.1.100
}

track_script {
    chk_mariadb
}

}

vrrp_script chk_mariadb {
    script "/usr/local/bin/check_mariadb.sh"
    interval 2
    weight -20
}
```

Step 3: Enable and Start Keepalived

Now we're ready to start the service. Run the following to enable it at startup and then start the service once now:

```
sudo systemctl enable keepalived
```

```
sudo systemctl start keepalived
```

Check the status of the service to verify its running:

```
sudo systemctl status keepalived
```

Step 4: Test the VIP

Finally, test that the VIP is there:

```
ip addr show
```

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