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Setting up a MySQL Gallera cluster

objective:

- setup an MySQL Gallera cluster on 3 servers

- write apporopiate service to be sure MySQL Gallera cluster will be always running

- MySQL version ==> 5.7

- MySQL-wsrep ==> 5.7

- server OS ==> CentOS7

The main document is here:

https://www.dreamvps.com/tutorials/install-mysql-galera-cluster-centos-7/

but there are some corrections:

first in **step 1** do the following change

```
[mysql-wsrep]
baseurl = http://releases.galeracluster.com/mysql-wsrep-5.7/centos/7/x86_64/
```

Don't follow **step 6**, instead disable SELinux from this tutorial:

https://www.centos.org/docs/5/html/5.1/Deployment_Guide/sec-sel-enable-disable.html

in **step 7** do the following change:

```
wsrep_cluster_address="gcomm://10.1.0.11,10.1.0.12,10.1.0.13"
```

In other words, do not specify ports.

Caution! Only do **step 10** on one node (server) and do the **Step 14** on rest of the servers.

Note: if you wanted to add more servers (nodes) to the cluster, just in step 7 add the new nodes to the `wsrep_cluster_address` and the server will automatically connect to the cluster. There is no need to change the config for rest of the nodes! (but updating all nodes is recommended)

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important

do not use *service mysqld restart* , this will be considered as a restart for the whole cluster.(same as bootstraping the cluster)
And you should change the value of safe boot inorder to restart.

If you want to restart a single node just stop the service and then start it again, so the service will connect to the other nodes in the existing cluster.

Resseting mysql pass:
https://stackoverflow.com/questions/33510184/change-mysql-root-password-on-centos7
https://dev.mysql.com/doc/refman/8.0/en/resetting-permissions.html