Create a MySQL InnoDB Cluster 8.0.32 from scratch on OEL/RHEL/OL/CentOS and using CLONE plugin to provision the nodes

1. Prepare three machine on linux 8 and disable firewall(systemctl stop firewalld)(systemctl disable firewalld) and vi /etc/selinux/sysconfig enforcing to permissive

Make sure all machine names must be in /etc/hosts files

2. download from https://downloads.mysql.com/archives/community/ and other rpms as below and copy in /sw directory

mysql-8.0.32-1.el8.x86\_64.rpm-bundle.tar python39-libs-3.9.7-1.module+el8.6.0+20625+ee813db2.x86\_64.rpm

mysql-router-community-8.0.32-1.el8.x86\_64.rpm python39-pip-wheel-20.2.4-7.module+el8.6.0+20625+ee813db2.noarch.rpm

mysql-shell-8.0.32-1.el8.x86\_64.rpm python39-setuptools-wheel-50.3.2-4.module+el8.5.0+20364+c7fe1181.noarch.rpm

3. tar -xvf mysql-8.0.32-1.el8.x86\_64.rpm-bundle.tar

4. cd /sw

5.

yum install mysql-community-{server,client,client-plugins,icu-data-files,common,libs,debuginfo}-\*

yum install python39\*

yum install mysql-shell-8.0.32-1.el8.x86\_64.rpm

6. tail -f /var/log/mysqld.log | grep -i password &

7. systemctl start mysqld

8. mysqlsh root@localhost --sql

dont save passord as it is temporary and we will change

MySQL localhost:33060+ SQL > set password='Oracle\_123';

MySQL localhost:33060+ SQL > create user clusteradmin identified by 'Oracle\_123';

MySQL localhost:33060+ SQL > grant all privileges on \*.\* to clusteradmin with grant option;

ctrl+d

cp /usr/share/mysqlsh/prompt/prompt\_dbl\_256pl+aw.json ~/.mysqlsh/prompt.json

mysqlsh

shell.options.setPersist('history.autoSave', 1)

shell.options.setPersist('history.maxSize', 5000)

dba.configureInstance('clusteradmin@oel86mysql1')

Save password for 'clusteradmin@oel86mysql1'? [Y]es/[N]o/Ne[v]er (default No): y

Do you want to perform the required configuration changes? [y/n]: y

Do you want to restart the instance after configuring it? [y/n]: y

dba.configureInstance('clusteradmin@oel86mysql2')

Save password for 'clusteradmin@oel86mysql2'? [Y]es/[N]o/Ne[v]er (default No): y

Do you want to perform the required configuration changes? [y/n]: y

Do you want to restart the instance after configuring it? [y/n]: y

dba.configureInstance('clusteradmin@oel86mysql3')

Save password for 'clusteradmin@oel86mysql3'? [Y]es/[N]o/Ne[v]er (default No): y

Do you want to perform the required configuration changes? [y/n]: y

Do you want to restart the instance after configuring it? [y/n]: y

\c clusteradmin@oel86mysql1

cluster=dba.createCluster('myCluster')

cluster.status

dba.checkInstanceConfiguration('clusteradmin@oel86mysql2')

dba.checkInstanceConfiguration('clusteradmin@oel86mysql3')

cluster.addInstance('clusteradmin@oel86mysql2')

cluster.addInstance('clusteradmin@oel86mysql3')

cluster.status()

-- router The recommended deployment model for MySQL Router is with InnoDB Cluster, with Router sitting on the same host as the application.

cd /sw

yum install mysql-router-community-8.0.32-1.el8.x86\_64.rpm

cd /usr/bin/mysqlrouter

mysqlrouter --bootstrap clusteradmin@localhost:3306 --name myrouter --directory /tmp/myrouter --conf-use-sockets --account routerfriend --account-create always --user=root

mysqlrouter --bootstrap clusteradmin@oel86mysql2:3306 --name myrouter --directory /tmp/myrouter --account routerfriend --account-create=never --force

./start.sh

\c clusteradmin@localhost:6447

\sql

select @@hostname

\c clusteradmin@localhost:6446

\sql

select @@hostname

systemctl stop mysqld on primary

MySQL   localhost:6446   SQL 

> \js

Switching to JavaScript mode...

MySQL   localhost:6446   JS 

> var cluster = dba.getCluster()

<Function:status>

MySQL   localhost:6446   JS 

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Save password for 'clusteradmin@oel86mysql2'? [Y]es/[N]o/Ne[v]er (default No): y

Do you want to perform the required configuration changes? [y/n]: y

Do you want to restart the instance after configuring it? [y/n]: y

dba.configureInstance('clusteradmin@oel86mysql3')

Save password for 'clusteradmin@oel86mysql3'? [Y]es/[N]o/Ne[v]er (default No): y

Do you want to perform the required configuration changes? [y/n]: y

Do you want to restart the instance after configuring it? [y/n]: y

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