1. *Galera Cluster is a synchronous multi-master database cluster, based on synchronous replication and Oracle’s My SQL.*
2. *When Galera Cluster is in use, you can direct reads and writes to any node, and you can lose any individual node without interruption in operations and without the need to handle complex failover procedures.*

***Configuration of Network;***

vi /etc/sysconfig/network-scripts/ifcfg-enp0s3

vi /etc/hosts

vi /etc/resolv.conf

service network restart

***And Now disable selinux in selinux configuration file***

vi /etc/sysconfig/selinux

*SELINUX=disabled*

*Then Reboot by below command*

*init 6*

***Now add ports in firewall;***

*firewall-cmd --permanent --add-port={3306/tcp,4444/tcp,4567/tcp,4568/tcp}*

*firewall-cmd --reload*

***Now install Percona;***

*yum install https://repo.percona.com/yum/percona-release-latest.noarch.rpm*

***Open the file given below and change value of gpgcheck;***

*vi /etc/yum.repos.d/percona-original-release.repo*

*gpgcheck=0*

*gpgcheck=0*

*yum install Percona-XtraDB-Cluster-57 -y*

*systemctl start mysqld*

***For getting the temporary password use below command;***

*grep 'temporary password' /var/log/mysqld.log*



***Then put in mysql***

mysql -u root -p

*password: {paste above temporary password}*

*mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'temp';*

*mysql> exit*

*systemctl stop mysqld*

***Open file named my.cnf;***

*vi /etc/my.cnf*

*[mysqld]*

*wsrep\_provider=/usr/lib64/galera3/libgalera\_smm.so*

*wsrep\_cluster\_name=pxc-cluster*

*wsrep\_cluster\_address=gcomm://192.168.72.91,192.168.72.92*

*wsrep\_node\_name=pxc1*

*wsrep\_node\_address=192.168.72.91*

*wsrep\_sst\_method=xtrabackup-v2*

*wsrep\_sst\_auth=sstuser:temp*

*pxc\_strict\_mode=ENFORCING*

*binlog\_format=ROW*

*default\_storage\_engine=InnoDB*

*innodb\_autoinc\_lock\_mode=2*

***After that we need to configure only at first nodes......;;;;;;***

*systemctl start mysql@bootstrap*

*mysql -u root -p*

*mysql> CREATE USER 'sstuser'@'localhost' IDENTIFIED BY 'temp';*

*mysql>GRANT RELOAD, LOCK TABLES, PROCESS, REPLICATION CLIENT ON \*.\* TO 'sstuser'@'localhost';*

*mysql>FLUSH PRIVILEGES;*

***Start mysql on second node by command....;;;;***

*systemctl start mysqld*

*mysql> show status like '%wsrep%';*

***Now check by creating database on first node and database should be visible on second node.....;;;***