**Installing Percona XtraDB Cluster on Ubuntu**

NOTE :- We Have 2 Node Node 1 ip is 192.168.72.66

Node 2 ip is 192.168.72.69

* + - Make sure that UFW is Disable & Updateed Machine

root@avi:/# ufw disable

root@avi:/# apt update

* + - Install the Percona XtraDB Cluster server package

root@avi:/# apt-get install percona-xtradb-cluster-5.7

root@avi:/# 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;**

Stop the mysql service

root@avi:/# systemctl stop mysql

Configuring Nodes for Write-Set Replication on Node -1

**Percona Configuration File Is Located in /etc/mysql/my.cnf.. Add the configuration variables Here**

root@avi:/# vi /etc/mysql/my.cnf

!includedir /etc/mysql/conf.d/

!includedir /etc/mysql/percona-xtradb-cluster.conf.d/

[mysqld]

server-id=1

datadir=/var/lib/percona-xtradb-cluster

socket=/var/run/mysqld/mysqld.sock

log-error=/var/log/mysqld.log

pid-file=/var/run/mysqld/mysqld.pid

log-bin

log\_slave\_updates

expire\_logs\_days=7

# Disabling symbolic-links is recommended to prevent assorted security risks

symbolic-links=0

# Path to Galera library

wsrep\_provider=/usr/lib/galera3/libgalera\_smm.so

# Cluster connection URL contains IPs of nodes

#If no IP is found, this implies that a new cluster needs to be created,

#in order to do that you need to bootstrap this node

wsrep\_cluster\_address=gcomm://192.168.72.66,192.168.72.69

# In order for Galera to work correctly binlog format should be ROW

binlog\_format=ROW

# MyISAM storage engine has only experimental support

default\_storage\_engine=InnoDB

# Slave thread to use

wsrep\_slave\_threads= 8

wsrep\_log\_conflicts

# This changes how InnoDB autoincrement locks are managed and is a requirement f or Galera

innodb\_autoinc\_lock\_mode=2

# Node IP address

wsrep\_node\_address=192.168.72.66

# Cluster name

wsrep\_cluster\_name=pxc-cluster

#If wsrep\_node\_name is not specified, then system hostname will be used

wsrep\_node\_name=pxc-cluster-node-1

#pxc\_strict\_mode allowed values: DISABLED,PERMISSIVE,ENFORCING,MASTER

pxc\_strict\_mode=DISABLED

# SST method

wsrep\_sst\_method=xtrabackup-v2

#Authentication for SST method

wsrep\_sst\_auth="sstuser:temp"

After you configure all your nodes, initialize Percona XtraDB Cluster by bootstrap

root@avi:/# /etc/init.d/mysql bootstrap-pxc

**Start Second Node and Install** **Percona XtraDB Cluster**

* + - **Make sure that UFW is Disable & Updateed Machine**

root@avi:/# ufw disable

root@avi:/# apt update

* + - **Install the Percona XtraDB Cluster server package**

root@avi:/# apt-get install percona-xtradb-cluster-5.7

**root@avi:/# systemctl stop mysql**

Configuring Nodes for Write-Set Replication on Node -2

Percona Configuration File Is Located in /etc/mysql/my.cnf..

root@avi:/# vi /etc/mysql/my.cnf

!includedir /etc/mysql/conf.d/

!includedir /etc/mysql/percona-xtradb-cluster.conf.d/

[mysqld]

server-id=1

datadir=/var/lib/percona-xtradb-cluster

socket=/var/run/mysqld/mysqld.sock

log-error=/var/log/mysqld.log

pid-file=/var/run/mysqld/mysqld.pid

log-bin

log\_slave\_updates

expire\_logs\_days=7

# Disabling symbolic-links is recommended to prevent assorted security risks

symbolic-links=0

# Path to Galera library

wsrep\_provider=/usr/lib/galera3/libgalera\_smm.so

# Cluster connection URL contains IPs of nodes

#If no IP is found, this implies that a new cluster needs to be created,

#in order to do that you need to bootstrap this node

wsrep\_cluster\_address=gcomm://192.168.72.66,192.168.72.69

# In order for Galera to work correctly binlog format should be ROW

binlog\_format=ROW

# MyISAM storage engine has only experimental support

default\_storage\_engine=InnoDB

# Slave thread to use

wsrep\_slave\_threads= 8

wsrep\_log\_conflicts

# This changes how InnoDB autoincrement locks are managed and is a requirement f or Galera

innodb\_autoinc\_lock\_mode=2

# Node IP address

wsrep\_node\_address=192.168.72.69

# Cluster name

wsrep\_cluster\_name=pxc-cluster

#If wsrep\_node\_name is not specified, then system hostname will be used

wsrep\_node\_name=pxc-cluster-node-2

#pxc\_strict\_mode allowed values: DISABLED,PERMISSIVE,ENFORCING,MASTER

pxc\_strict\_mode=DISABLED

# SST method

wsrep\_sst\_method=xtrabackup-v2

#Authentication for SST method

wsrep\_sst\_auth="sstuser:temp"

**Start the second node using the following command:**

root@avi:/# /etc/init.d/mysql start

**To check the status of the node, run the following:**

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

 The node is in Synced state, it is fully connected and ready for write-set replication.