**Install and configure Percona Xtradb Cluster 5.7 on Ubuntu**

**If you are running a DEB-based distribution, such as Debian or Ubuntu, use the apt package manager to install the percona-release official package:**

wget https://repo.percona.com/apt/percona-release\_latest.generic\_all.deb

**Install the downloaded repository package with dpkg**

dpkg -i percona-release\_latest.generic\_all.deb

**Install the Percona XtraDB Cluster server package:**

apt-get install percona-xtradb-cluster-5.7 -y

**Then go to mysql and create sstuser with proper privileges and To perform State Snapshot Transfer using XtraBackup.**

mysql -u root -p

*CREATE USER 'sstuser'@'%' IDENTIFIED BY 'temp';*

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

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

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

*FLUSH PRIVILEGES;*

**Then stop mysql service**

systemctl stop mysql

**then configure percona-xtradb-cluster on config file**

vi /etc/mysql/my.cnf

*# Template my.cnf for PXC*

*# Edit to your requirements.*

*[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://192.168.72.91*

*# 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 for Galera*

*innodb\_autoinc\_lock\_mode=2*

*# Node IP address*

*wsrep\_node\_address=192.168.72.91*

*# 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=ENFORCING*

*# SST method*

*wsrep\_sst\_method=xtrabackup-v2*

*#Authentication for SST method*

*wsrep\_sst\_auth="sstuser:temp"*

**then start first percona1 with.....**

/etc/init.d/mysql bootstrap-pxc

**OR**

systemctl start mysql-bootstrap-pxc

**on second node**

/etc/init.d/mysql start