**Setting up MariaDB database: master**

Install MariaDB:

yum install mariadb-server mariadb-devel -y

Start the MariaDB service:

systemctl enable mariadb

systemctl start mariadb

systemctl status mariadb

Create the Slurm database user:

mysql

In mariaDB:

MariaDB[(none)]> GRANT ALL ON slurm\_acct\_db.\* TO 'slurm'@'localhost' IDENTIFIED BY '1234' with grant option;

MariaDB[(none)]> SHOW VARIABLES LIKE 'have\_innodb';

MariaDB[(none)]> FLUSH PRIVILEGES;

MariaDB[(none)]> CREATE DATABASE slurm\_acct\_db;

MariaDB[(none)]> quit;

Verify the databases grants for the *slurm* user:

mysql -p -u slurm

Tpye password for slurm: 1234. In mariaDB:

MariaDB[(none)]> show grants;

MariaDB[(none)]> quit;

Create a new file /etc/my.cnf.d/innodb.cnf containing:

[mysqld]

innodb\_buffer\_pool\_size=1024M

innodb\_log\_file\_size=64M

innodb\_lock\_wait\_timeout=900

To implement this change you have to shut down the database and move/remove logfiles:

systemctl stop mariadb

mv /var/lib/mysql/ib\_logfile? /tmp/

systemctl start mariadb

You can check the current setting in MySQL like so:

MariaDB[(none)]> SHOW VARIABLES LIKE 'innodb\_buffer\_pool\_size';

Create slurmdbd configuration file:

vim /etc/slurm/slurmdbd.conf

Set up files and permissions:

chown slurm: /etc/slurm/slurmdbd.conf

chmod 600 /etc/slurm/slurmdbd.conf

touch /var/log/slurmdbd.log

chown slurm: /var/log/slurmdbd.log

Paste the slurmdbd.conf in Configs and paste it into slurmdbd.conf.

Some variables are:

DbdAddr=localhost

DbdHost=localhost

DbdPort=6819

StoragePass=1234

StorageLoc=slurm\_acct\_db

Try to run *slurndbd* manually to see the log:

slurmdbd -D -vvv

Terminate the process by Control+C when the testing is OK.

Start the slurmdbd service:

systemctl enable slurmdbd

systemctl start slurmdbd

systemctl status slurmdbd

On the **master** node:

systemctl enable slurmctld.service

systemctl start slurmctld.service

systemctl status slurmctld.service

Reference: [slothparadise](https://www.slothparadise.com/how-to-install-slurm-on-centos-7-cluster/), [Niflheim](https://wiki.fysik.dtu.dk/niflheim/Slurm_database), [gabrieleiannetti](https://github.com/gabrieleiannetti/slurm_cluster_wiki/wiki/Installing-a-Slurm-Cluster)