Database Lab

Saturday, October 9, 2021   11:53 AM

https://phoenixnap.com/kb/mysql-docker-container

mysqld --help --verbose | grep '/etc'

Set config in /home/sysadmin/docker/mysqlserver/conf.d/my.cnf (for mysql/mysql-server)

docker run -d --name=mysqlserver -e="MYSQL_ROOT_PASSWORD=password123" -p 6603:3306 -
v=/home/sysadmin/docker/mysqlserver/conf.d/:/etc/mysql/ mysql/mysql-server

docker exec -it mysqlserver /bin/bash

Check contents of /var/lib/mysql

Remove container and readd:

docker run -d --name=mysqlserver -e="MYSQL_ROOT_PASSWORD=password123" -p 6603:3306 -
v=/home/sysadmin/docker/mysqlserver/conf.d/:/etc/mysql/ -
v=/home/sysadmin/storage/docker/mysql-data:/var/lib/mysql mysql/mysql-server

docker run -d --name=mysqlserver-alt -e="MYSQL_ROOT_PASSWORD=password123" -p 6604:3306 -
v=/home/sysadmin/docker/mysqlserver/conf.d/:/etc/mysql/ -
v=/home/sysadmin/storage/docker/mysql-data:/var/lib/mysql mysql/mysql-server

Show max_connections in both
Show data changes in both

mysql -uroot -ppassword123 -hlocalhost -P6603 -e 'show global variables like "max_connections"';

mysql -uroot -ppassword123 -hlocalhost -P6603

create database stuff;
use stuff;
create table things (Id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
        Name varchar(25) NOT NULL,
        Description varchar(50) NULL);

INSERT INTO things (Name, Description) VALUES ('Widget', 'Just a regular thing');
INSERT INTO things (Name, Description) VALUES ('Whatchamacallit', 'AKA a candy bar');
INSERT INTO things (Name, Description) VALUES ('Hoozywhatzit', 'Not sure where to start');
SELECT * FROM things;

Take first one down and stand up new one:

docker run -d --name=mysqlserver-alt -e="MYSQL_ROOT_PASSWORD=password123" -p 6604:3306 -
v=/home/sysadmin/docker/mysqlserver/conf.d/:/etc/mysql/ -
v=/home/sysadmin/storage/docker/mysql-data:/var/lib/mysql mysql/mysql-server

docker exec -it mysqlserver-alt /bin/bash

Show max connections
Show table data