Docker POC on volume mounting

Thursday, April 16, 2015

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* Docker POC on volume mounting
* **Volume Mounting in Docker**
  + **Adding data volume**
  + **Mount a host directory as a data volume**
  + **Restore or migrate data volumes**

**Step1: Adding data volume**

**Prerequisite:** Mysql Database image having data in database

e.g. name of image sqlimage

1. Mount a single volume now in our mysql container.

#sudo docker run -d -P --name web -v /webapp sqlimage

Add a data volume to a container using the -v flag with the docker create and docker run command.This will create a new volume inside a container at /webapp.

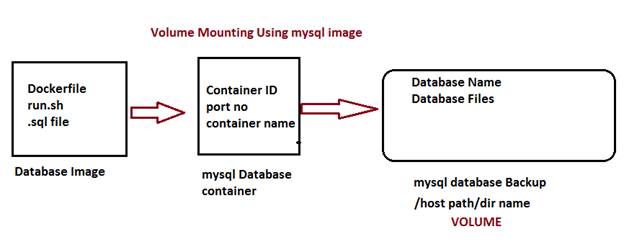
1. We can also use the VOLUME instruction in a Dockerfile to add one or more new volumes to any container created from that image.

The following instruction can create Volume in mysql container, we have to add instruction in Dockerfile

VOLUME[“/var/lib/mysql”]

**Step2: Mount a host directory as a data volume**

In addition to creating a volume using the -v flag you can also mount a directory as a mysql backup from mysql container into host.



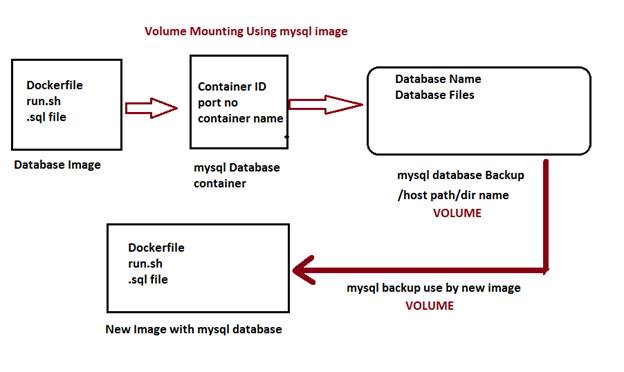
**For creating backup on host from container we can use following command**

**#** docker run -d --name volume -v /home/student/mysql:/var/lib/mysql sqlimage

**Step3: Restore or migrate data volumes**

**Now,** we have to migrate data volume which is created privously,

Following diagram shows how to migrate data to another container and which command is use



Following command is use for migrate data from host to container.

**#** docker run -d -p 3307:3306 -v /home/student/Desktop/mysqlbackup:/var/lib/mysql -e MYSQL\_PASS=”password” --name mysql sqlimage

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