Obtaining MySQL server community edition Docker image

```
docker pull mysql/mysql-server
```

To create and start a MySQL server Docker container and to ensure the default MySQL port is exposed on the host machine as well. This helps to connect the MySQL server with other clients running on the host machine.

```
docker run --name=mysql1 -p 3306:3306 --restart on-failure -d
mysql/mysql-server
```

To check that the mysql server Docker container is up and running.

```
docker ps
```

By default, MySQL server will come up with an auto generated random root password. First retrieve the auto generated root password.

```
docker logs mysql1 2>&1 | grep GENERATED
```

```
yp6uLovmyPoLED=OJ5Oj3cAziM[
```

The above is a sample auto generated password. Use it to login to the MySQL server.

```
docker exec -it mysql1 mysql -uroot -p
```

Provide the above password, when prompted. Once successfully logging in, modify the root password to your liking, if desired.

```
ALTER USER 'root'@'localhost' IDENTIFIED BY ‘password’;
```

In the above command, replace `password` with the actual password of your choice. To allow any user to be able to connect to the MySQL server, the host value for that user must be modified to contain ‘%’. To check all allowed hosts for all users.

```
SELECT user, host FROM mysql.user;
```

In the below command, we are allowing the ‘root’ user to be logged in from any IP.

```
UPDATE mysql.user SET host='%' WHERE user='root';
```

To login to the MySQL server BASH terminal:

```
docker exec -it mysql1 bash
```

To stop / start / restart / delete the MySQL container, use:

```
docker stop mysql1
```

```
docker start mysql1
```

```
docker restart mysql1
```

```
docker rm mysql1
```