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Dockerizing Spring Boot + MySQL

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```
# Pull MySQL DB image
$ docker pull mysql:5.7

# Download required softwares
$ sudo yum install git -y
$ sudo yum install maven -y

# Clone Spring Boot Project From Github
$ git clone https://github.com/ashokitschool/spring-boot-mysql-docker-compose.git

# Get into project directory
$ cd <project-dir>

# Package application
$ mvn clean package

# Create Application image
$ docker build -t sb-app .

# Check docker images
$ docker images

# Create Docker Network
$ docker network create springmysql-net

# See networks available
$ docker network ls

# Run mysqldb as a docker container
$ docker run --name mysqldb --network springmysql-net -e MYSQL_ROOT_PASSWORD=root -e
MYSQL_DATABASE=sbms -d mysql:5.7

# check logs of container
$ docker logs -f <container_name>
```

If needed we can check if the database has been created correctly.

We can do the following commands.

```
$ docker exec -it <container_id> bash
$ mysql -u <username> -p
$ show databases;

# Run springboot application as a container
$ docker run --network springmysql-net --name sbapp-container -p 8080:8080 -d sb-app

# check the containers which are running
$ docker ps

# check logs of application container
$ docker logs -f <container_id>

# We can access our application now
```

URL : <http://ec2-vm-public-ip:8080/>

