Docker

저녁이 있는 프로젝트
오상훈
6 Hours, 1 Month

Setup Docker

- ❖ Need to Sign Up & Sign in : Remember Docker ID
  - ➢ 주의 : Desktop login 시 email 아닌 본인 ID(성명) 사용.
- ❖ Windows OS : https://www.docker.com/

```
> docker --version
> docker run hello-world
> docker image ls
> docker --help
> docker container --help
> docker run --help
```

Install mariadb

- Installing and using MariaDB via Docker
  https://mariadb.com/kb/en/library/installing-and-using-mariadb-via-docker/
  $ docker search mariadb
  $ docker images
  $ docker run -p 3306:3306 -e MYSQL_ROOT_PASSWORD=tiger --name mariadb10.3 -d mariadb:10.3 → or mariadb:latest
  $ docker logs mariadb10.3
  $ docker ps -a
  $ docker stop b69e7b0a8677
  $ docker start mariadb10.3
  $ docker rm -v $(docker ps -a -q -f status=exited)
  $ docker images
  $ docker rmi -f 199cc294e316

- or Way
  $ docker run **-p 3310:3306** -e MYSQL_ROOT_PASSWORD='tiger' --name mariadb10.3 -d mariadb:10.3

Run mariadb - create database and user

```
$ docker start mariadb10.3          → or 58ac14799005
$ docker exec -it mariadb10.3 bash
# apt-get update && apt-get install -y vim
# ip address | grep eth0 | awk '{ print $2 }'
# vi /etc/mysql/mariadb.cnf                → UTF-8 위해 관련 주석 전부 제거 & 추가
# /etc/init.d/mysql restart
root@:/# mysql -uroot -p
Enter password:
MariaDB> CREATE DATABASE yojulabdb
     CHARACTER SET = 'utf8' COLLATE = 'utf8_general_ci' ;
MariaDB> CREATE USER 'scott'@'172.17.0.1' IDENTIFIED BY 'tiger';
MariaDB> GRANT ALL PRIVILEGES ON yojulabdb.* TO 'scott'@'172.17.0.1';
MariaDB> FLUSH PRIVILEGES;
MariaDB> show databases ;
MariaDB> use yojulabdb;
```

❖ Option command(Need login as localhost)

```
MariaDB> CREATE USER 'scott'@'localhost' IDENTIFIED BY 'tiger';
MariaDB> GRANT ALL PRIVILEGES ON yojulabdb.* TO 'scott'@'localhost';
```

Install MongoDB

- Installing and using MongoDB via Docker
  https://subscription.packtpub.com/book/big_data_and_business_intelligence/9781787126480/1/ch01lvl1sec18/running-mongodb-as-a-docker-container
- 주의 : Desktop login 시 email 아닌 본인 ID(성명) 사용.

```
$ docker search mongo
$ docker pull mongo:3.4.20
$ docker images
$ docker run -d --name mongodb3.4.20 --net=host mongo:3.4.20 --bind_ip
127.0.0.1 --port 27000
$ docker logs mongodb3.4.20
$ docker ps -a
$ docker stop b69e7b0a8677
$ docker start mongodb3.4.20
$ docker rm -v mongodb3.4.20
$ docker images
$ docker rmi -f 199cc294e316
```

수고하셨습니다.