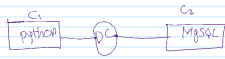


Docker D K  
 1 Docker Swarm = orchestration tool → K8S (Service)  
 2 Docker Compose = Manage Multiple Containers → K8S (Deployment)



#### # Install Docker-Compose:

```
$ sudo curl -L "https://github.com/docker/compose/releases/download/1.26.2/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
$ sudo chmod +x /usr/local/bin/docker-compose
$ docker-compose --version
```

#### # Create Project on Python(Flask) + MySQL

```
$ mkdir python-mysql-project && cd python-mysql-project
```

#### # Prepare Database SQL Script

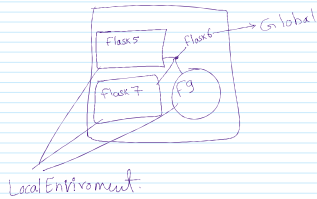
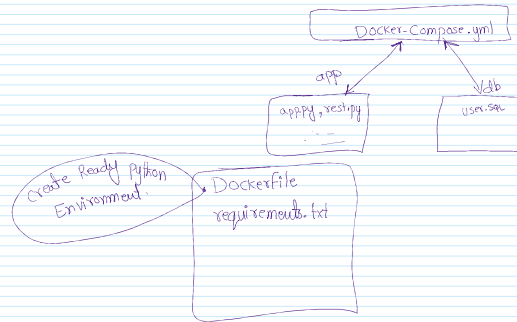
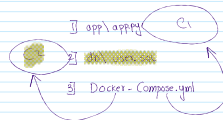
```
$ mkdir db
$ cat > db/user.sql
CREATE DATABASE msdb;
use msdb;

CREATE TABLE 'user' (
'id' int unsigned NOT NULL AUTO_INCREMENT,
'name' varchar(50) NOT NULL,
'email' varchar(100) NOT NULL,
'phone' int unsigned NOT NULL,
'address' varchar(250) NOT NULL,
PRIMARY KEY ('id')
) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;

Insert into 'user' ('id','name','email','phone','address') values
(1,'test pqr','sroy@gmail.com','2147483647','Earth'),
(2,'abc xyz','rahu@gmail.com','34256780','Mars');
```

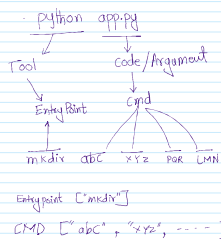
#### # Create Python Flask Application

```
$ mkdir app
$ cat > app/app.py
from flask import Flask
app = Flask(__name__)
```



\$ pip install flask

Virtualenv  
 \$ mkdir abc → .env



- 1 Clone Project
- 2 Create Docker Custom Image → Dockerfile (img.py)
- 3 Create Container Using img.py
- 4 Access Resource's

