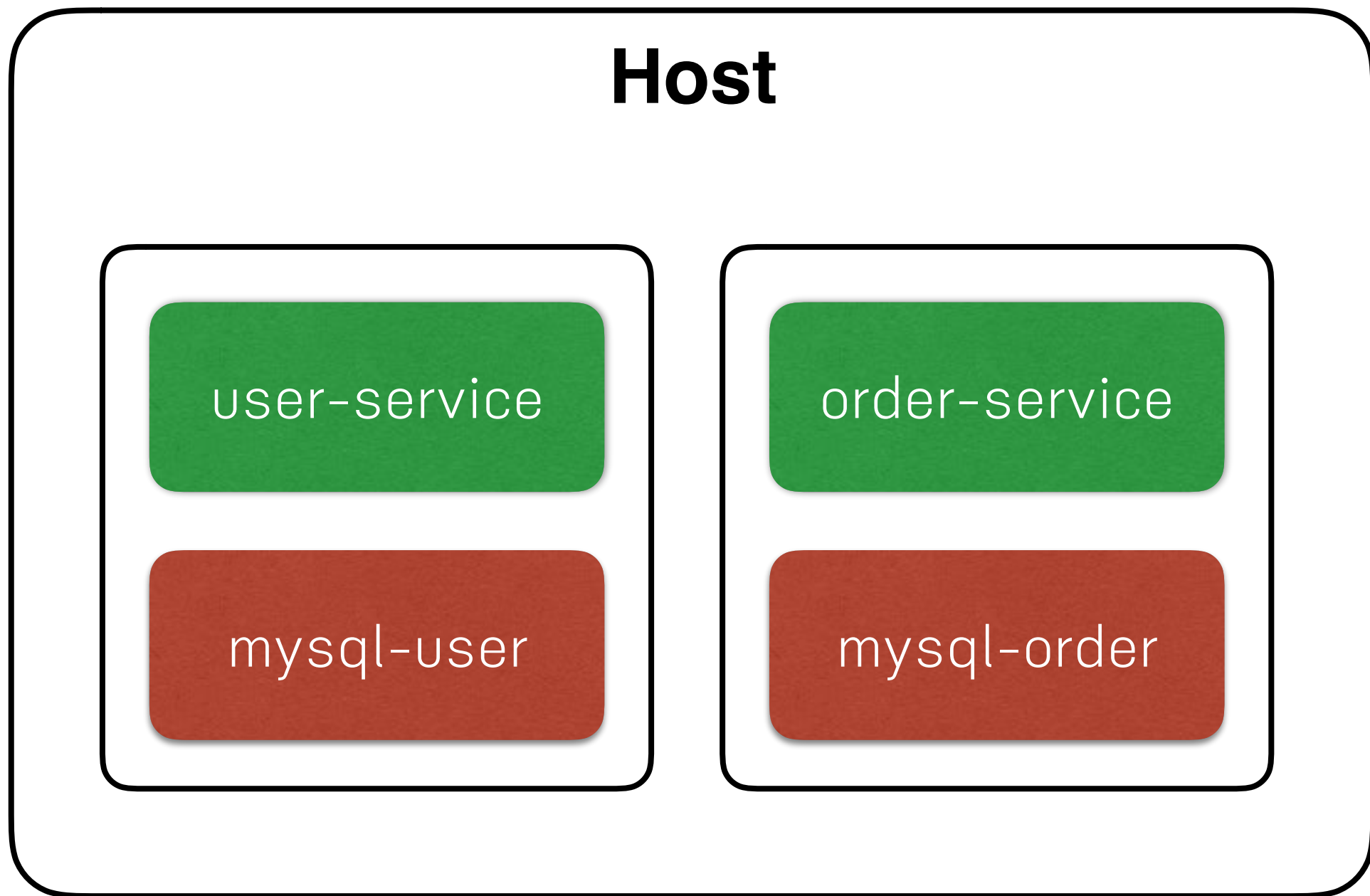


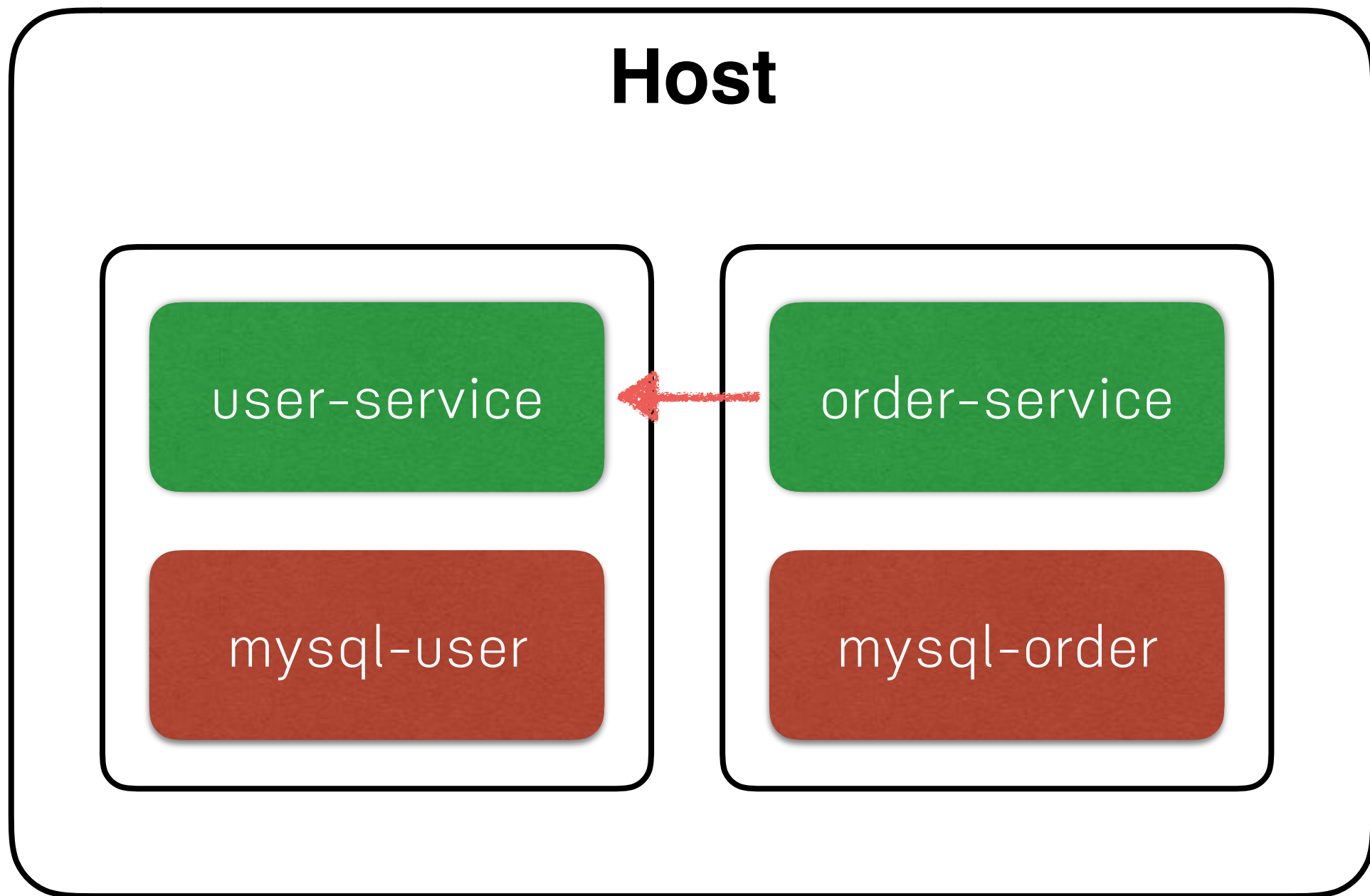
Deploy Spring boot with Docker



Spring boot application



Spring boot application



User service



1. Create database container

database = mysql-user

```
$docker container run -d --name mysql-user \  
-e MYSQL_ROOT_PASSWORD=123456 \  
-e MYSQL_DATABASE=user mysql:latest
```



2. Create user-service image

Dockerfile

```
FROM frovlad/alpine-oraclejdk8:slim  
ADD ./target/user-service.jar app.jar  
ENTRYPOINT [ "sh", "-c", "java -jar app.jar" ]
```



2. Create user-service image

\$docker image build -t user-service .

```
FROM frovlad/alpine-oraclejdk8:slim  
ADD ./target/user-service.jar app.jar  
ENTRYPOINT [ "sh", "-c", "java -jar app.jar" ]
```



3. Create user-service container

Link to **mysql-user** container

```
$docker container run -d --name user-service \  
--link mysql-user \  
-p 9001:9001 user-service
```



4. Testing

<http://localhost:9001/user/1>



A screenshot of a web browser window. The address bar shows the URL `localhost:9001/user/1`. The main content area displays a JSON object with the following structure:

```
{  
  id: 1,  
  firstname: "somkiat",  
  lastname: "pui"  
}
```



Order service



1. Create database container

database = mysql-order

```
$docker container run -d --name mysql-order \  
-e MYSQL_ROOT_PASSWORD=123456 \  
-e MYSQL_DATABASE=order mysql:latest
```



2. Create order-service image

Dockerfile

```
FROM frovlad/alpine-oraclejdk8:slim  
ADD ./target/order-service.jar app.jar  
ENTRYPOINT [ "sh", "-c", "java -jar app.jar" ]
```



2. Create order-service image

\$docker image build -t order-service .

```
FROM frovlad/alpine-oraclejdk8:slim  
ADD ./target/order-service.jar app.jar  
ENTRYPOINT [ "sh", "-c", "java -jar app.jar" ]
```



3. Create order-service container

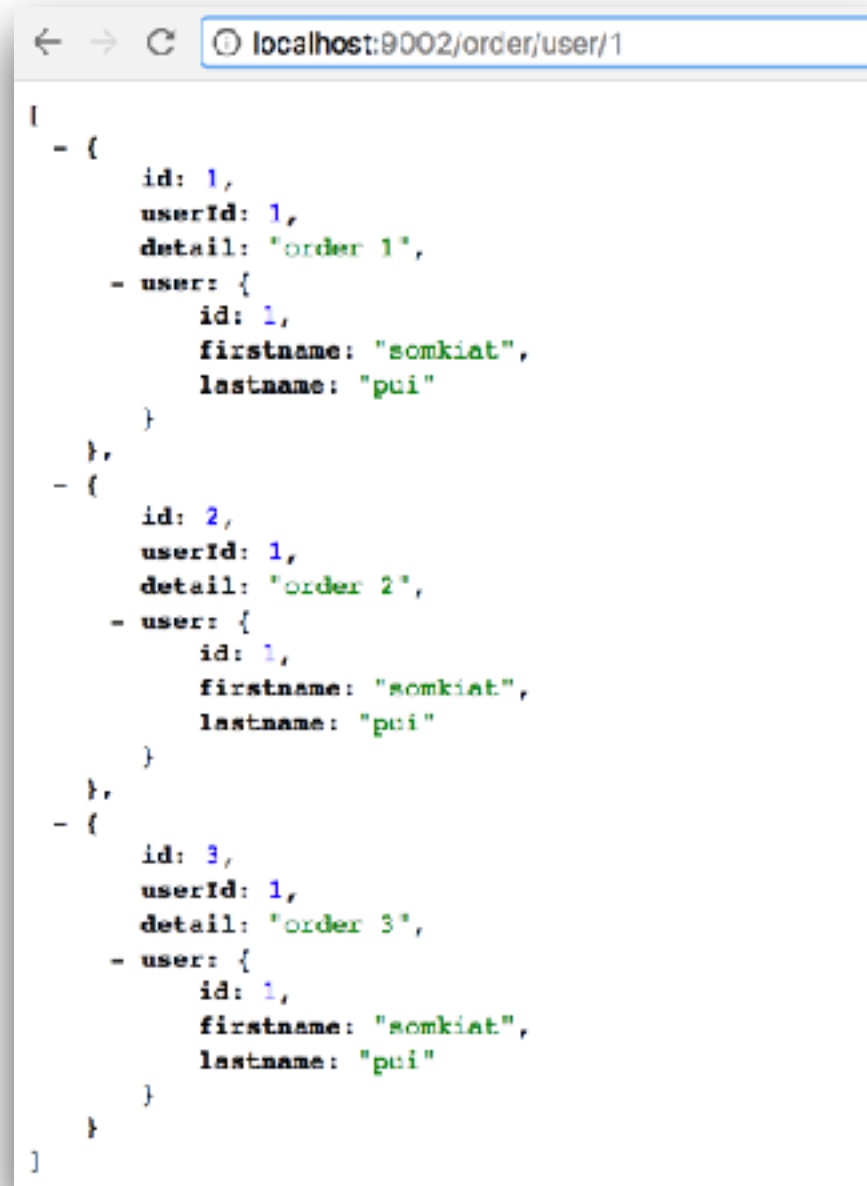
Link to **mysql-order** and **user-service**
container

```
$docker container run -d --name order-service \  
  --link mysql-order \  
  --link user-service \  
  -p 9002:9001 order-service
```



4. Testing

<http://localhost:9002/order/user/1>



```
[
  - {
    id: 1,
    userId: 1,
    detail: "order 1",
    - user: {
      id: 1,
      firstname: "somkiat",
      lastname: "pui"
    }
  },
  - {
    id: 2,
    userId: 1,
    detail: "order 2",
    - user: {
      id: 1,
      firstname: "somkiat",
      lastname: "pui"
    }
  },
  - {
    id: 3,
    userId: 1,
    detail: "order 3",
    - user: {
      id: 1,
      firstname: "somkiat",
      lastname: "pui"
    }
  }
]
```

