



# port volume

Mag. Thomas Griesmayer

# Default port

```
$ docker run tomcat
```

```
...
```

```
$ ifconfig
```

```
docker0: inet 172.17.0.1
```

```
$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
a600e1bfacf4	tomcat	"catalina.sh run"	25 min	Up	8080

```
$ docker inspect a600
```

```
"NetworkSettings": {  
  "Ports": {  
    "8080/tcp": null  
  },  
  "Gateway": "172.17.0.1",  
  "IPAddress": "172.17.0.2"
```



## HTTP Status 404 – Not Found

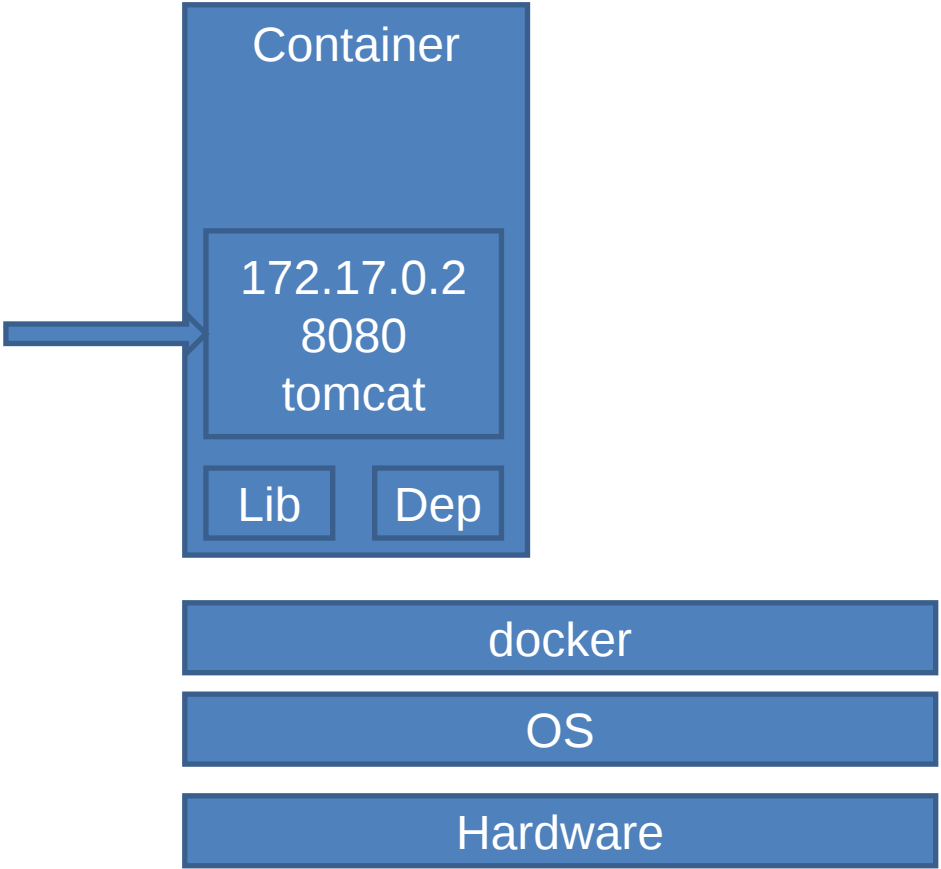
Type Status Report

Description The origin server did not find a current representation for tl

Apache Tomcat/10.1.18

# Port mapping

```
$ docker run tomcat  
172.17.0.2:8080
```



# port mapping

```
$ docker run -p 4000:8080 tomcat
```

```
...
```

```
$ ifconfig
```



```
docker0: inet 172.17.0.1
```

```
$ docker ps
```

CONTAINER ID	IMAGE	CREATED	STATUS	PORTS
4c2754aaf71d	tomcat	2 min	Up	4000->8080/tcp

```
$ docker inspect 4c2
```

```
"NetworkSettings": {  
  "Ports": {  
    "8080/tcp": [  
      { "HostIp": "0.0.0.0", "HostPort": "4000" },  
      { "HostIp": ":::", "HostPort": "4000" } ]  
    "Gateway": "172.17.0.1",  
    "IPAddress": "172.17.0.2"
```

  172.17.0.1:4000

  172.17.0.2:8080

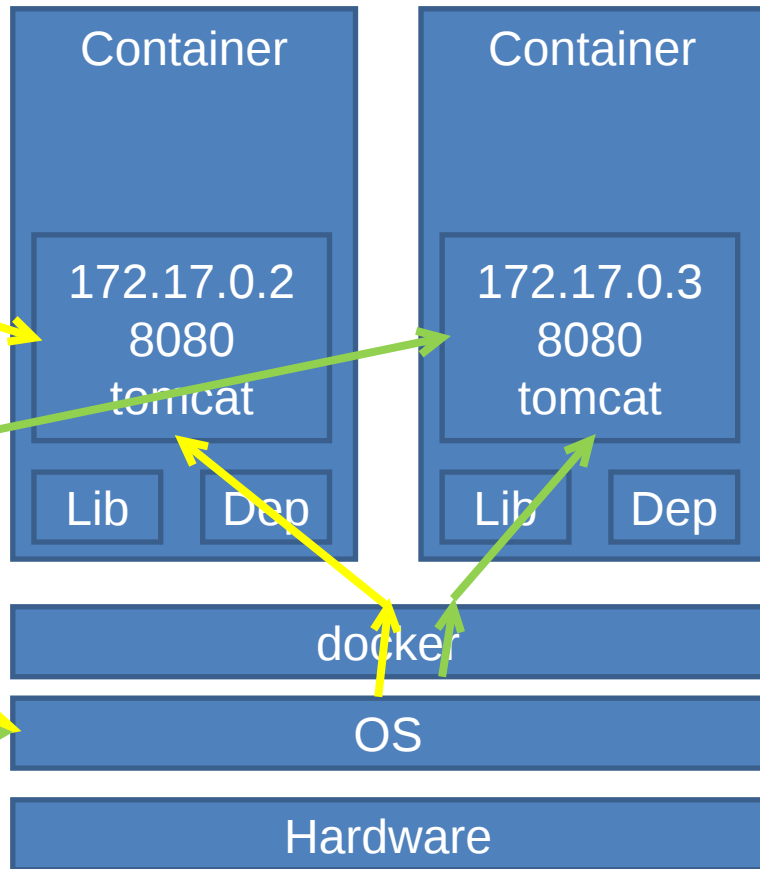
# Port mapping

```
$ docker run -p 4000:8080 tomcat
```

```
$ docker run -p 5000:8080 tomcat
```

172.17.0.1:4000

172.17.0.1:5000



no volume

```
$ docker run -it ubuntu /bin/bash
$ docker ps
CONTAINER ID   IMAGE     COMMAND                    NAMES
3e9624f3c9c4   ubuntu   "/bin/bash"               upbeat_haibt
# pwd
/root
# mkdir testdir
# touch testdir/f1.txt testdir/f2.txt
# ls
testdir
# ls testdir
f1.txt  f2.txt
# exit
```

no volume

```
$ docker run -it ubuntu /bin/bash
```

```
$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	NAMES
08d39b4cd96d	ubuntu	"/bin/bash"	exciting_williams

```
# cd /root
```

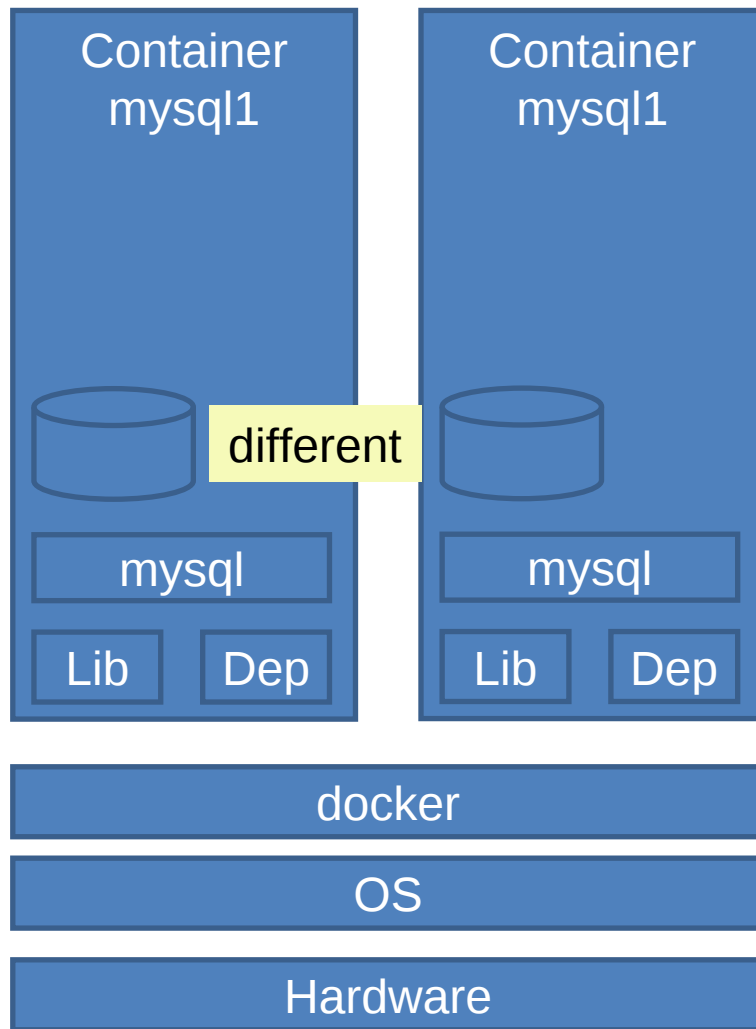
```
# ls
```

```
# exit
```

```
$ docker run --name mysql1 mysql
$ docker stop mysql1
$ docker rm mysql1

$ docker run --name mysql2 mysql
```

## Port mapping

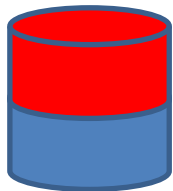




```
$ docker run
  --name mysql1
  -v /home/docker/data:/var/lib/mysql
  mysql

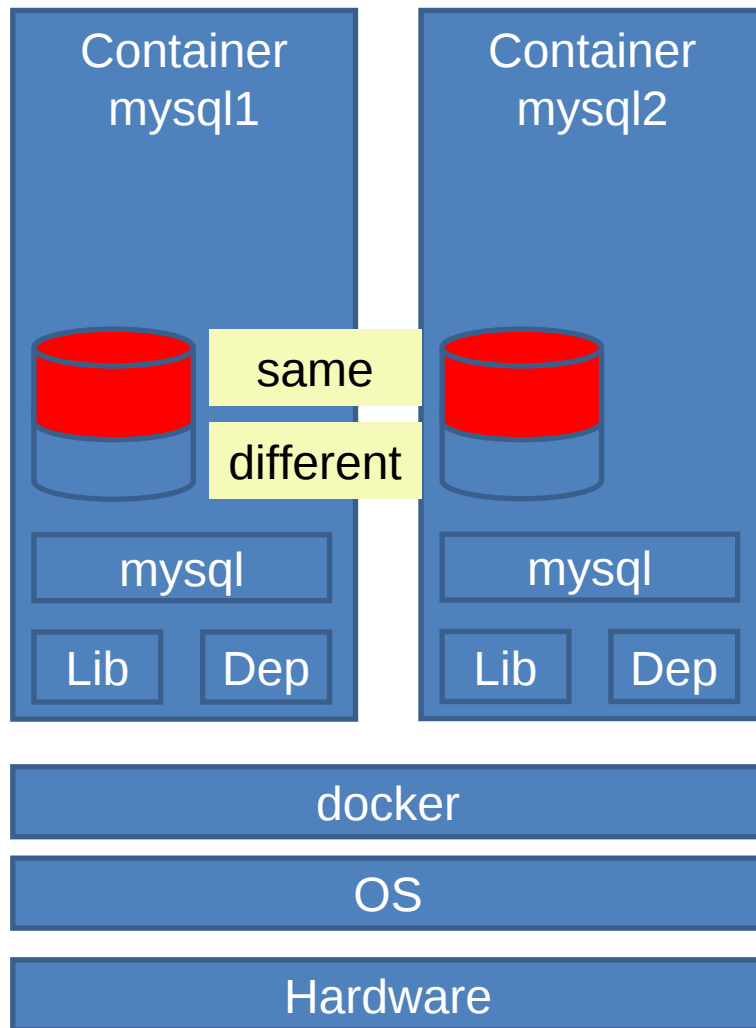
$ docker stop mysql1
$ docker rm mysql1

$ docker run
  --name mysql2
  -v /home/docker/data:/var/lib/mysql
  mysql
```



```
$ mkdir /home/docker/data
```

## Port mapping



# volume

```
$ pwd
/home/docker
$ mkdir data
$ ls data
$ docker run -it -v /home/docker/data/:/root/data ubuntu
/bin/bash

# cd ~
# ls
data
# echo Hallo >data/f1.txt
# echo Hallo >data/f2.txt
# exit
$ ls data/
f1.txt  f2.txt
```

# volume

```
$ docker run -it -v /home/docker/data/:/root/data ubuntu  
/bin/bash  
  
# cd ~  
# ls data/  
f1.txt  f2.txt  
# exit
```

# logs

```
$ docker logs pedantic_lumiere
root@77d2916c2ca2:/# cd ~
root@77d2916c2ca2:~# ls data/
f1.txt  f2.txt
root@77d2916c2ca2:~# exit
exit
```