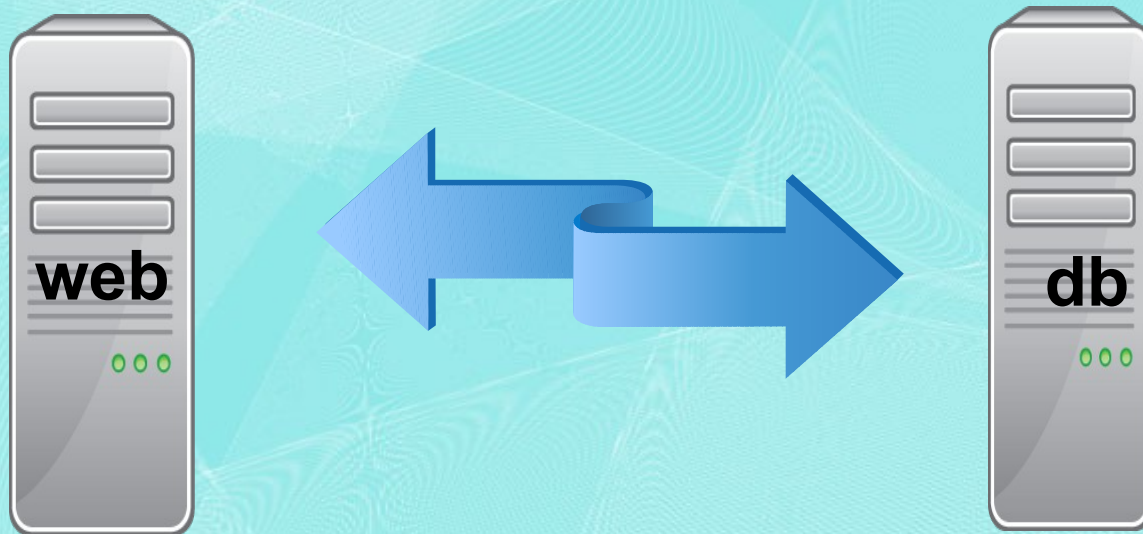


Linking Containers

Mapping Ports

- We have learnt how to map network ports from containers to host machines
 - - P
 - -p 80
 - -p 5000:5000

Linking Containers



Linking Containers creates a tunnel
between two containers

Pull mysql container

```
$ docker pull  
mysql
```

```
bash-3.2$ docker pull mysql  
Pulling repository mysql  
aca96d9e6b5c: Download complete  
511136ea3c5a: Download complete  
30d39e59ffe2: Download complete  
c90d655b99b2: Download complete  
b5e97c78b45c: Download complete  
cb0fa0867097: Download complete  
3b38456294dc: Download complete  
491473ad28e9: Download complete  
b3f317e6d83d: Download complete  
7cb29ffe628e: Download complete  
26f4c3ca8a7a: Download complete  
7ae7bdce6e3b: Download complete  
834df146cfac: Download complete  
f75eb245559c: Download complete  
ffdc4ec25639: Download complete  
db505b9eebe9: Download complete  
Status: Downloaded newer image for mysql:latest
```


Run mysql container

```
$ docker run --name mysql -e  
MYSQL_ROOT_PASSWORD=pass1234 -d mysql
```


Link it with Nginx Container

```
$ docker run --name nginx4 --link mysql:mysql  
-d initcron/nginx:latest  nginx
```


Validate Link

```
$ docker inspect -f "{{ .HostConfig.Links }}"  
nginx4
```

Output:

```
[/mysql:/nginx4/mysql]
```


Host Entries

```
$docker exec nginx4 cat /etc/hosts
```

```
172.17.0.24      950217d1e075
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
127.0.0.1        localhost
::1             localhost ip6-localhost ip6-loopback
fe00::0 ip6-localnet
172.17.0.22      mysql
```


Environment Variables

```
$ docker exec nginx4 env
```

```
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
HOSTNAME=950217d1e075
MYSQL_PORT=tcp://172.17.0.22:3306
MYSQL_PORT_3306_TCP=tcp://172.17.0.22:3306
MYSQL_PORT_3306_TCP_ADDR=172.17.0.22
MYSQL_PORT_3306_TCP_PORT=3306
MYSQL_PORT_3306_TCP_PROTO=tcp
MYSQL_NAME=/nginx4/mysql
MYSQL_ENV_MYSQL_ROOT_PASSWORD=mysecretpassword
MYSQL_ENV_MYSQL_MAJOR=5.6
MYSQL_ENV_MYSQL_VERSION=5.6.22
```