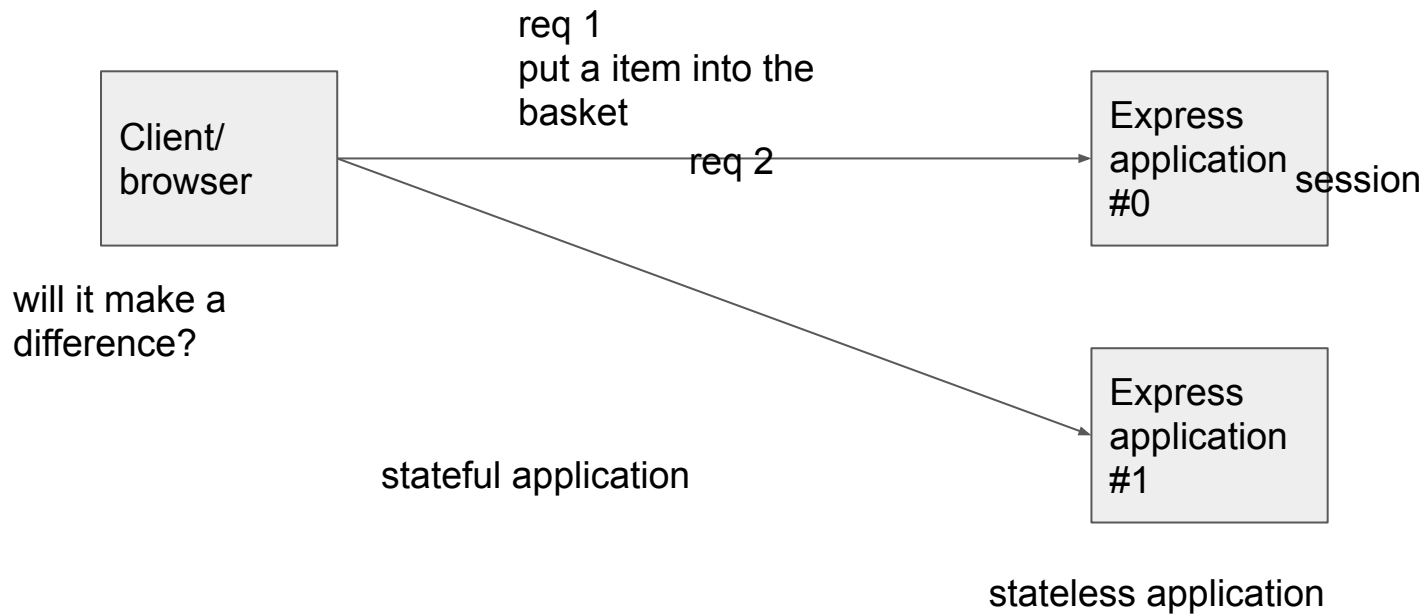
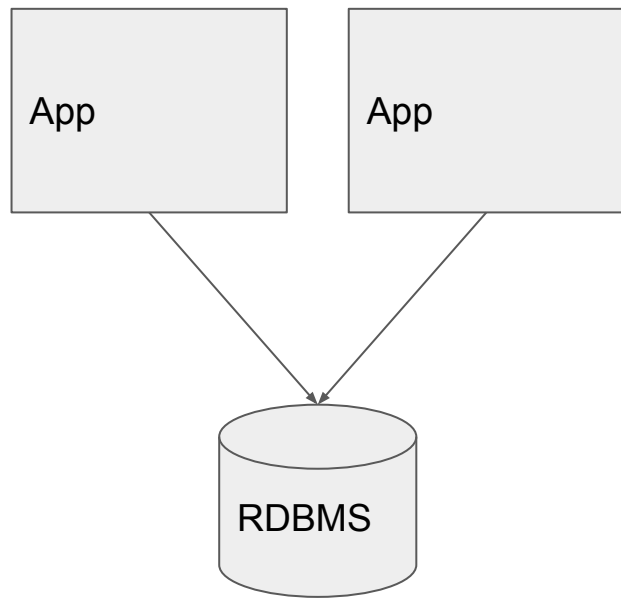


# Container

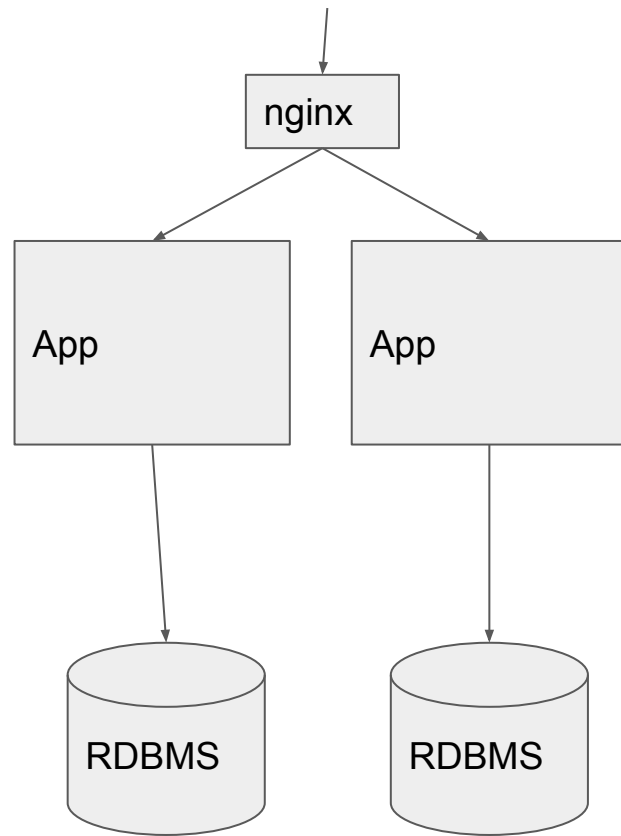
May 19 - 22

Day 1



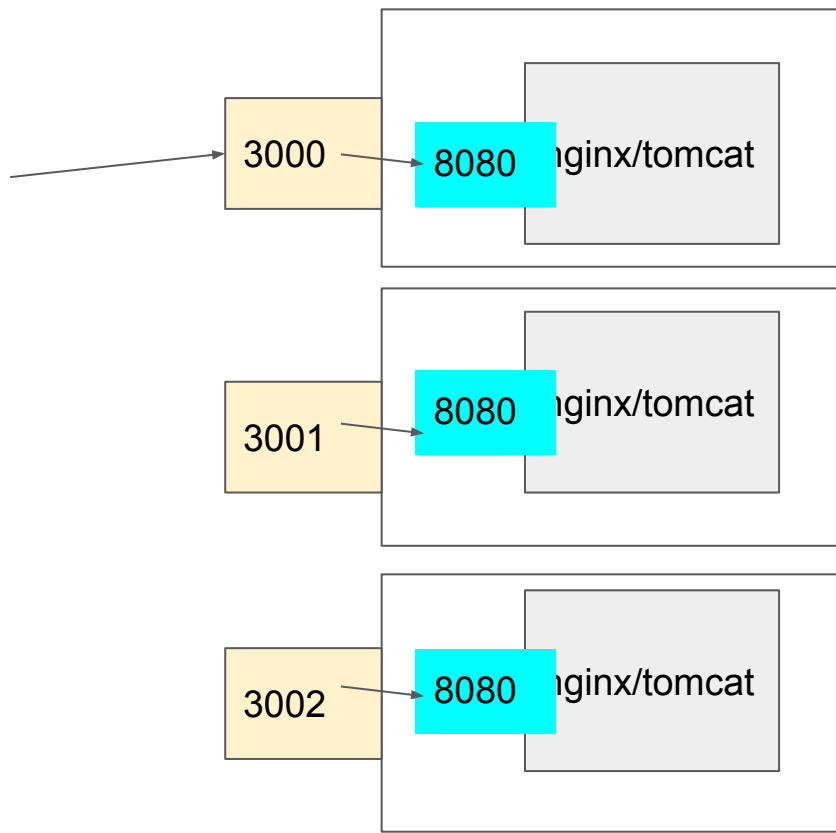


customer id 1 - 1000

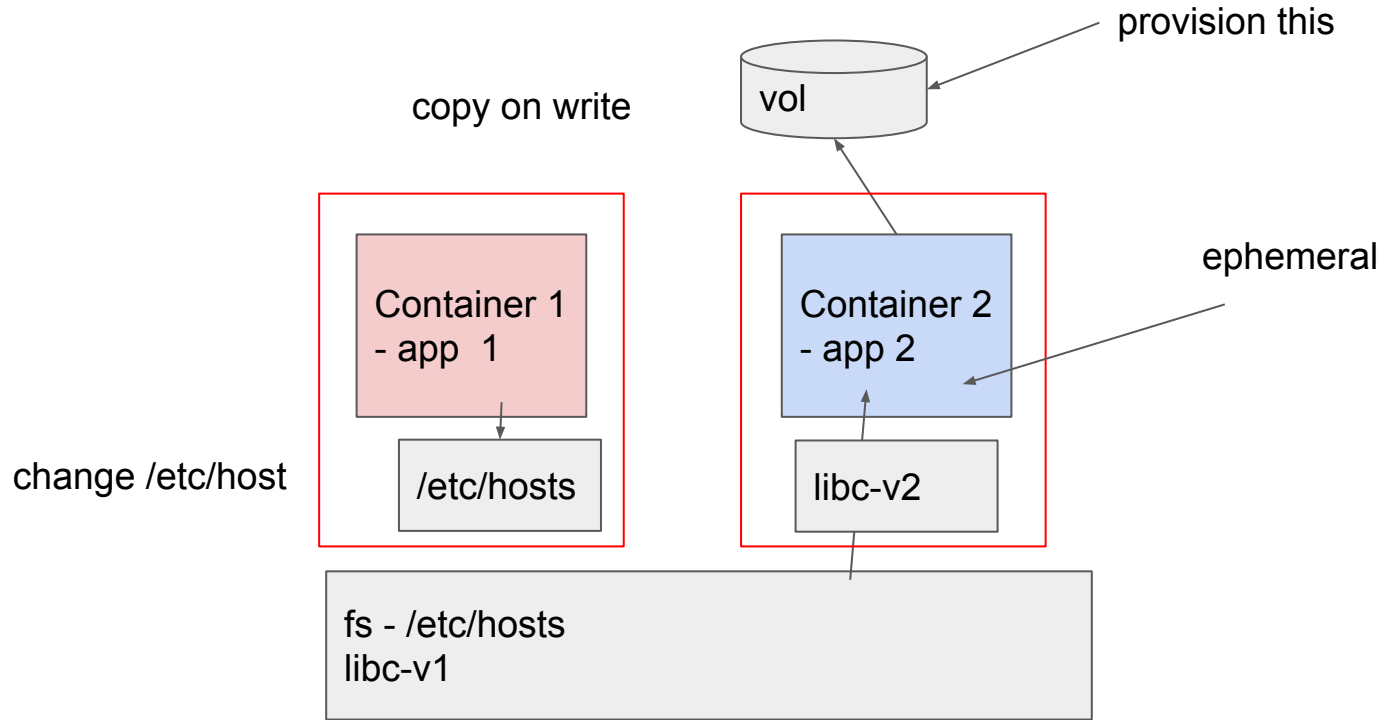


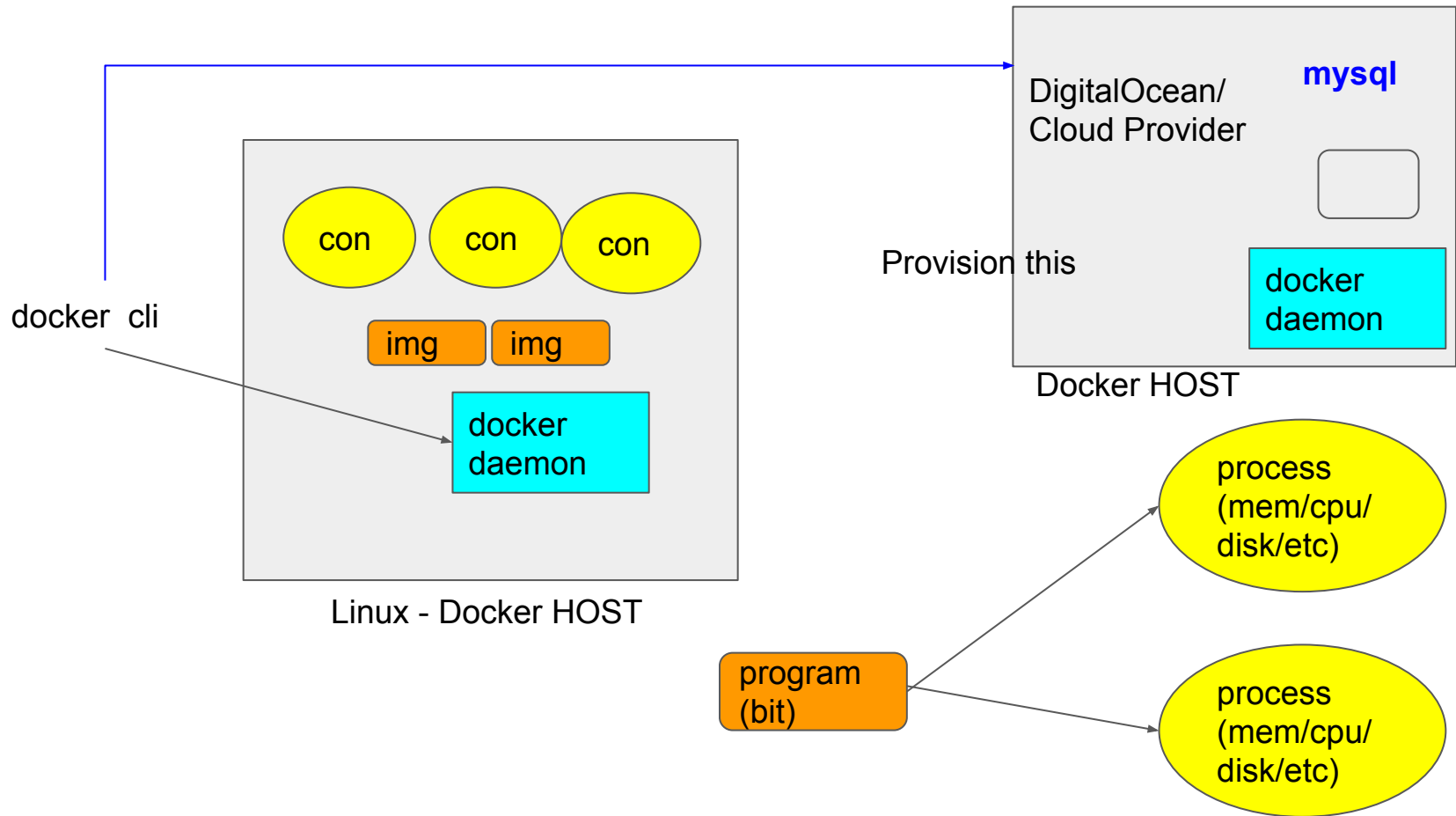
customer id

customer id



immutable infra





`docker-machine` - provision a remote docker host

`docker-machine env <name>` - to get the config

`docker`



Build - `docker build -t <acct_name>/<app_name>:v1 .`

Examine image - `docker images`

Run - `docker run -d -p <ext port>:<cont port> --name <cont_name>  
<acct_name>/<app_name>:v1`

Ps - `docker ps -a`

Log - `docker logs <container-name>`

Exec - `docker exec -ti <cont-name> ls`

# Test mysql

```
docker exec -ti <mysql-cont> bash
```

```
mysql -uroot -p<password>
```

```
show databases;
```

```
use northwind;
```

```
show tables;
```

```
exit;
```

```
mysqladmin ping -uroot -p<password>
```

will return 0 - OK, or non 0 - failed

```
docker network create mynet
```

a-name becomes an entry in DNS  
in mynet

```
# run the container inside the network - DNS
```

```
docker run -d --network mynet --name a-name ...
```

```
docker run -d --network mynet --name b-name ...
```

```
docker run -d --network mynet --name c-name ...
```

nw-net

```
docker run -d --name nwdb --network nw-net \  
nwdb:v1
```

8  
0  
8  
0

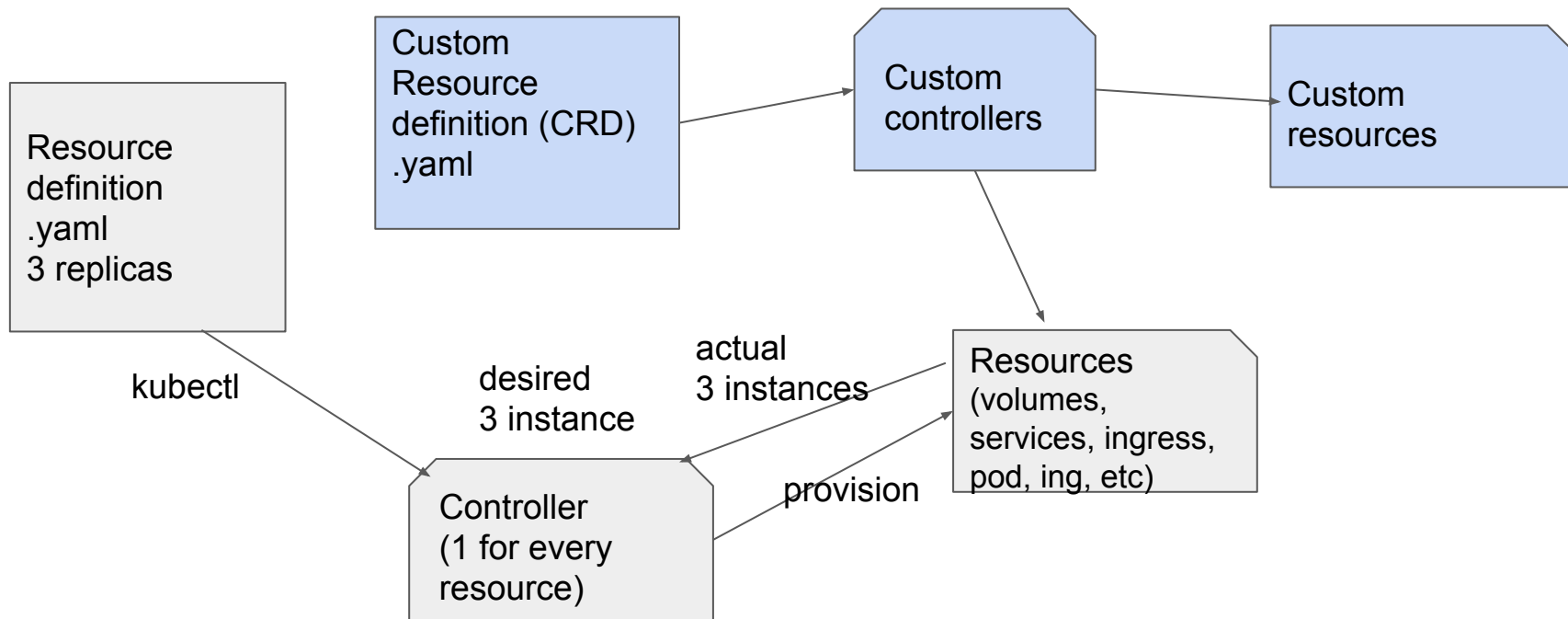
Node  
(nwapp)

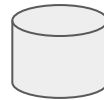
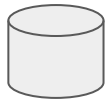
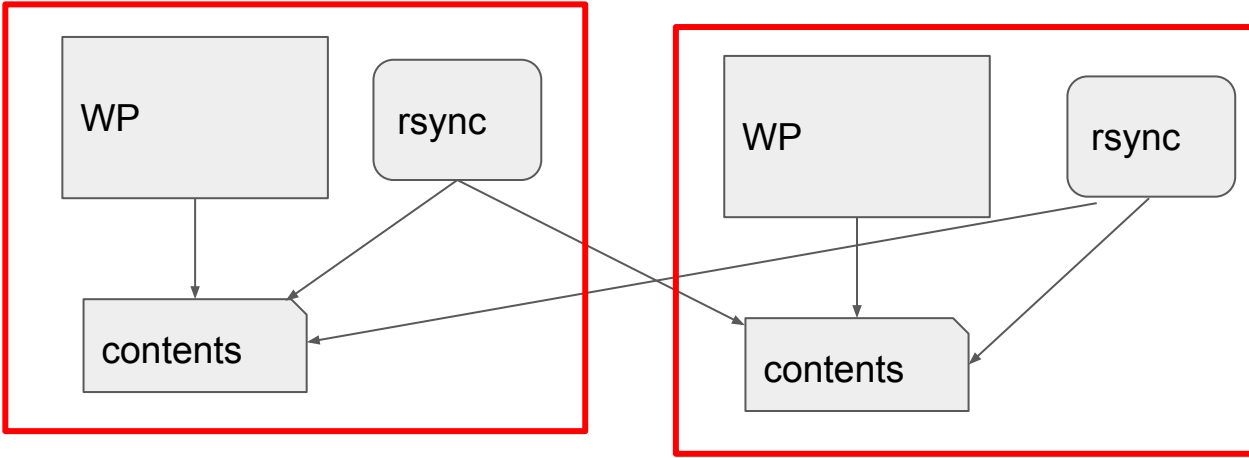
MySQL  
(nwdb)

volume

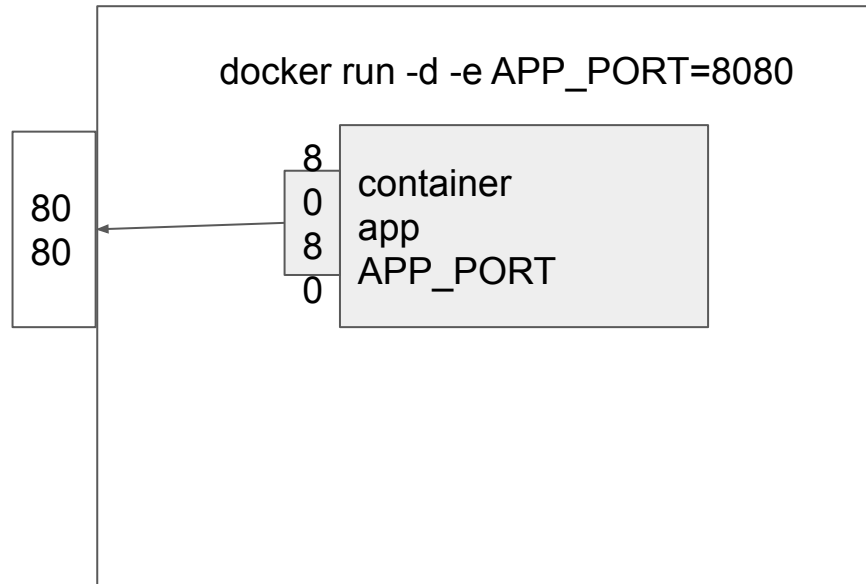
```
docker run -d --name nwapp \  
--network nw-net \  
-p 8080:3000 -e DB_HOST=nwdb \  
nwapp:v1
```

Day 2







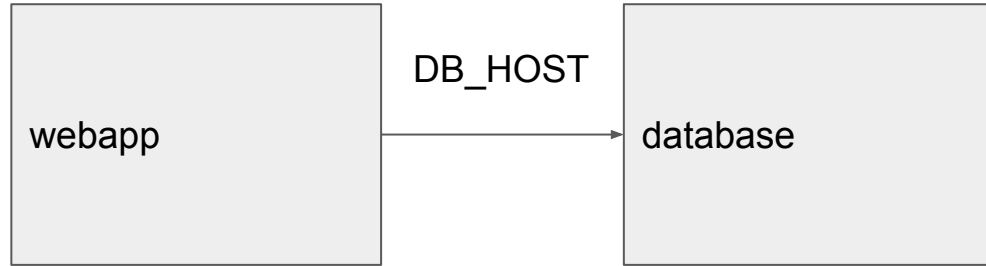


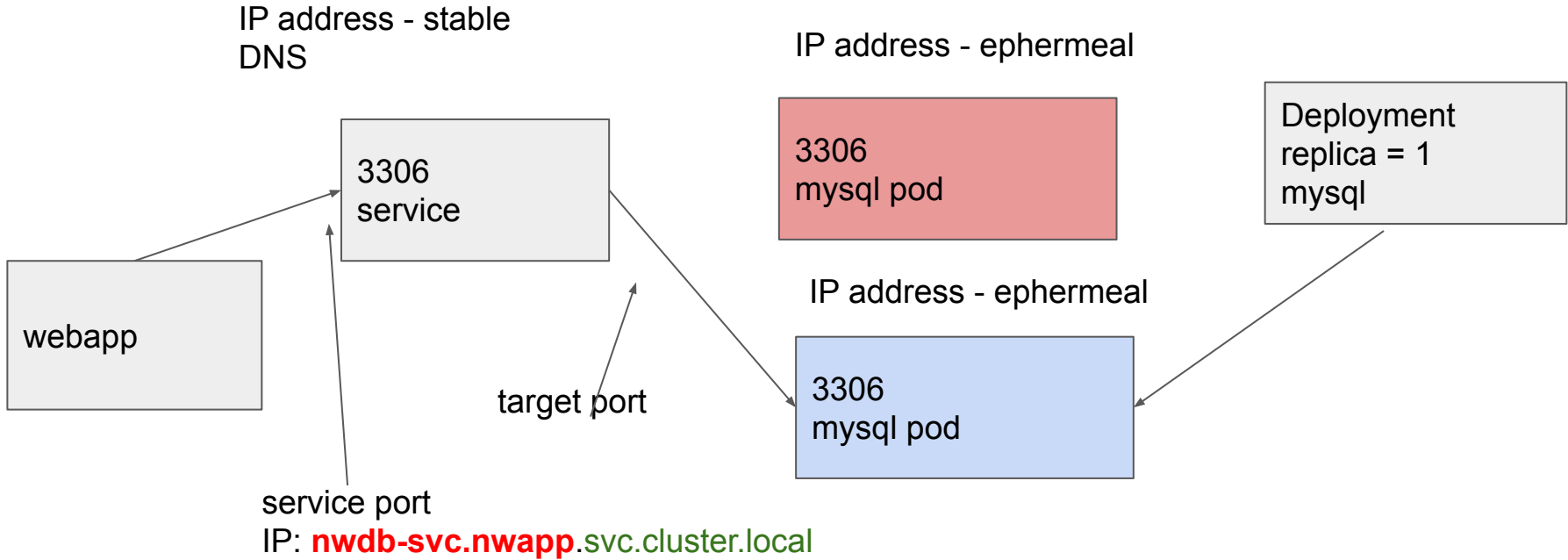
Deployment  
replica=3

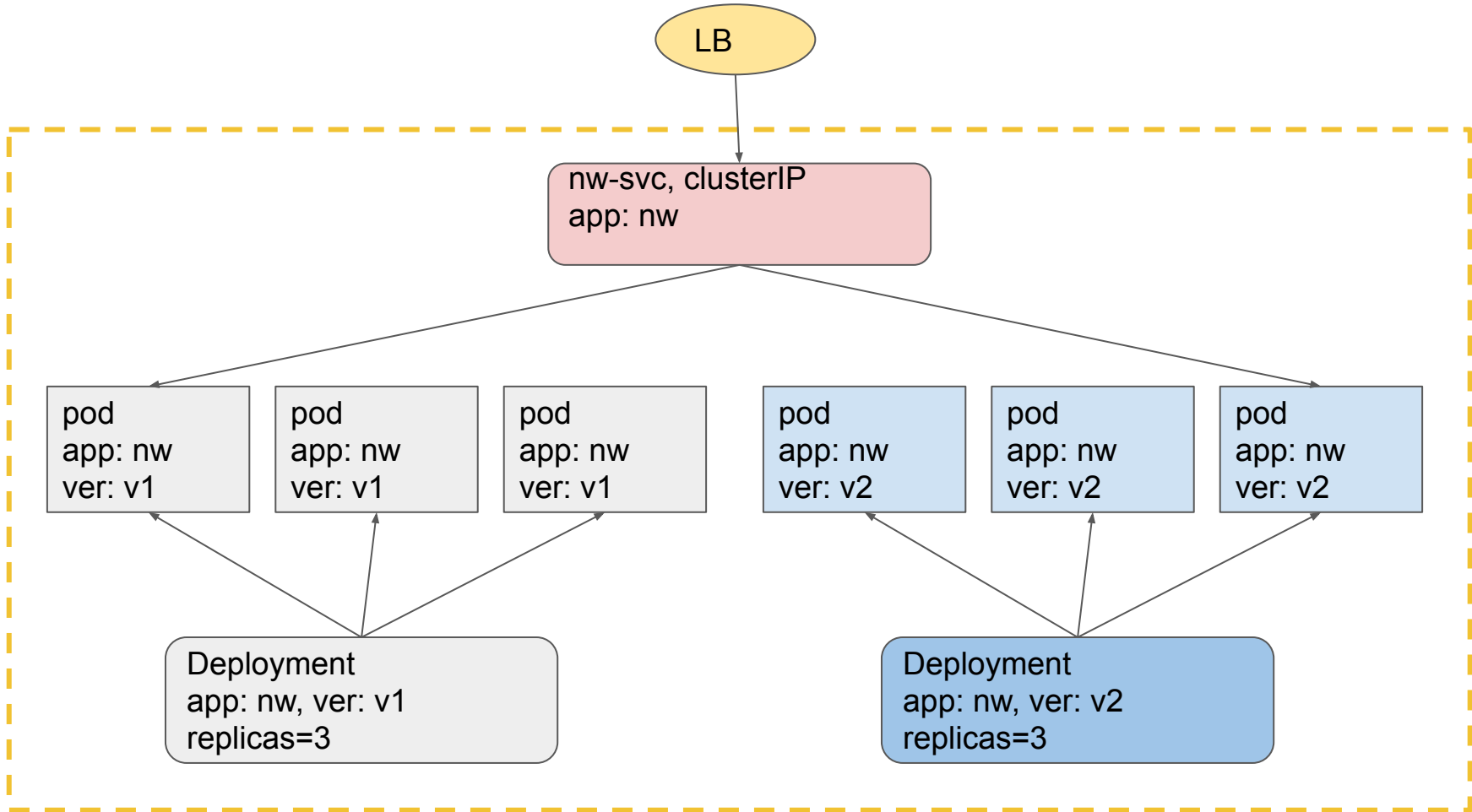
Deployment  
replica=2

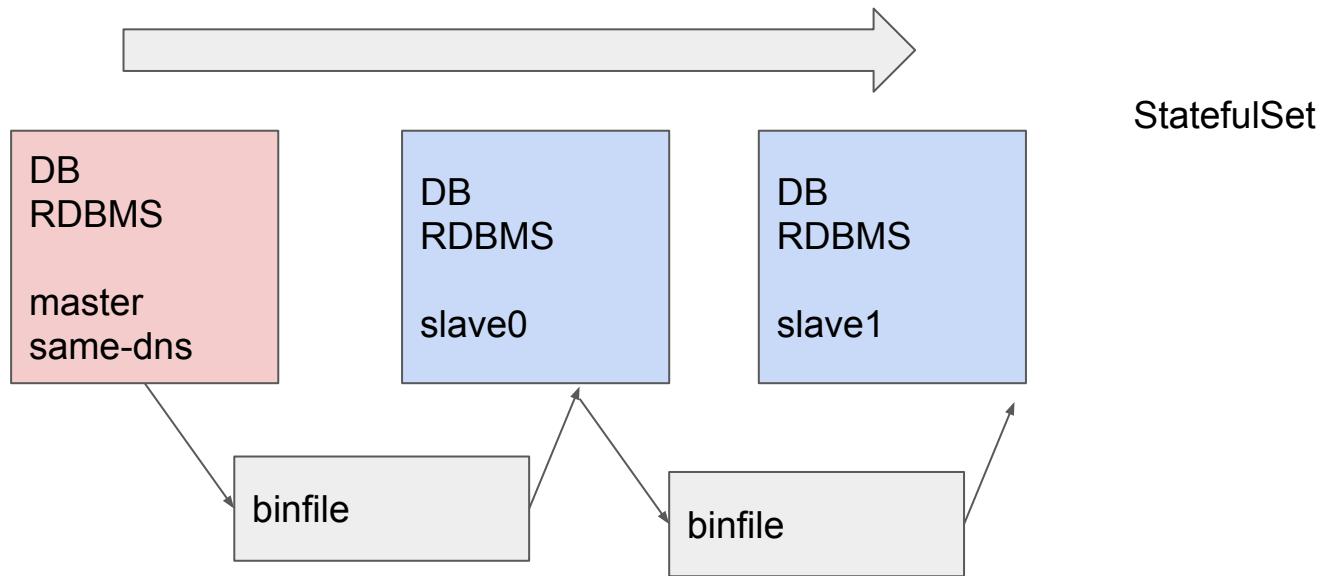
fp, hr

fp, eng







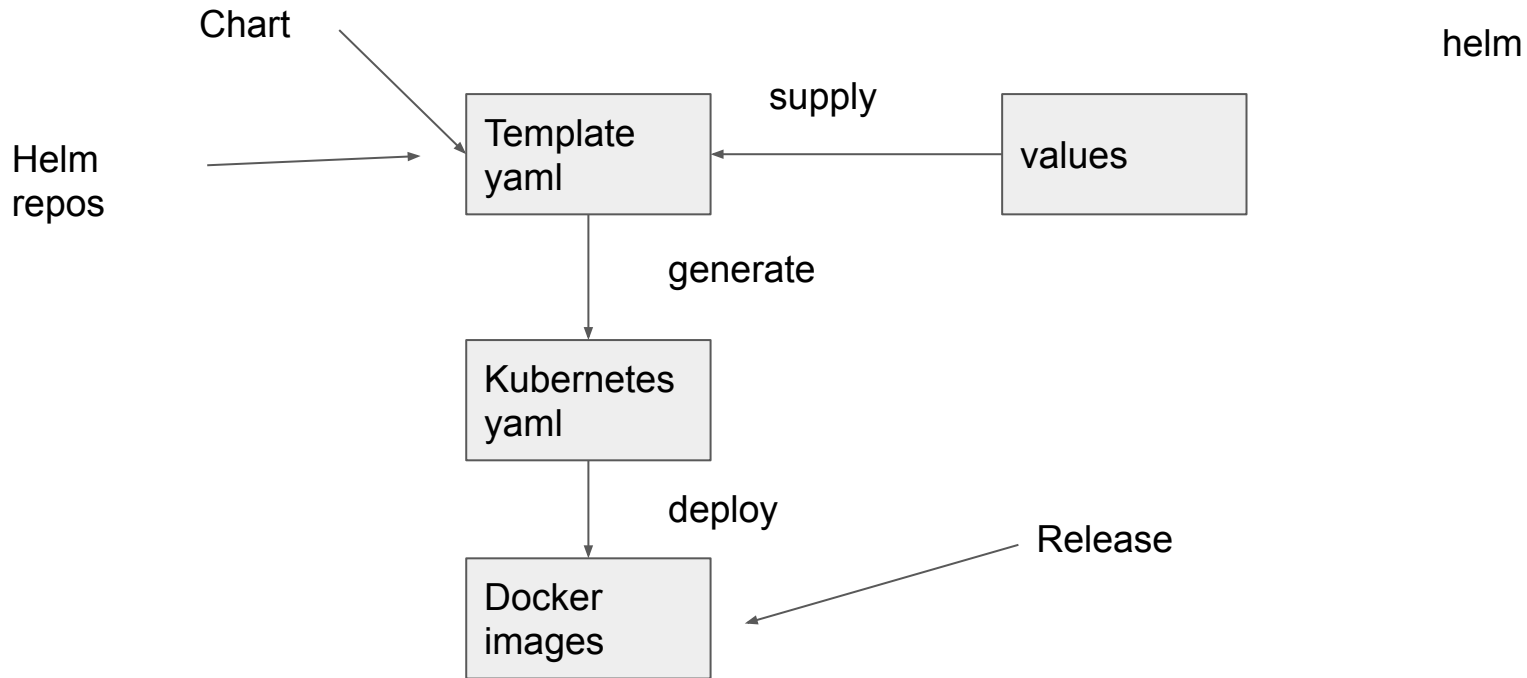


port-forward  
8085 -----> 80

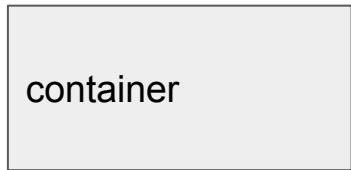
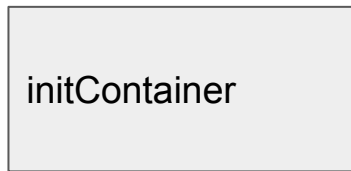
svc  
80 -----> 3000

pod  
3000





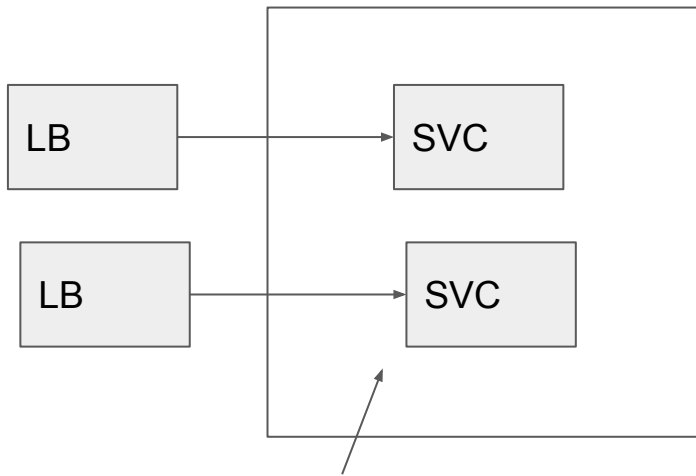




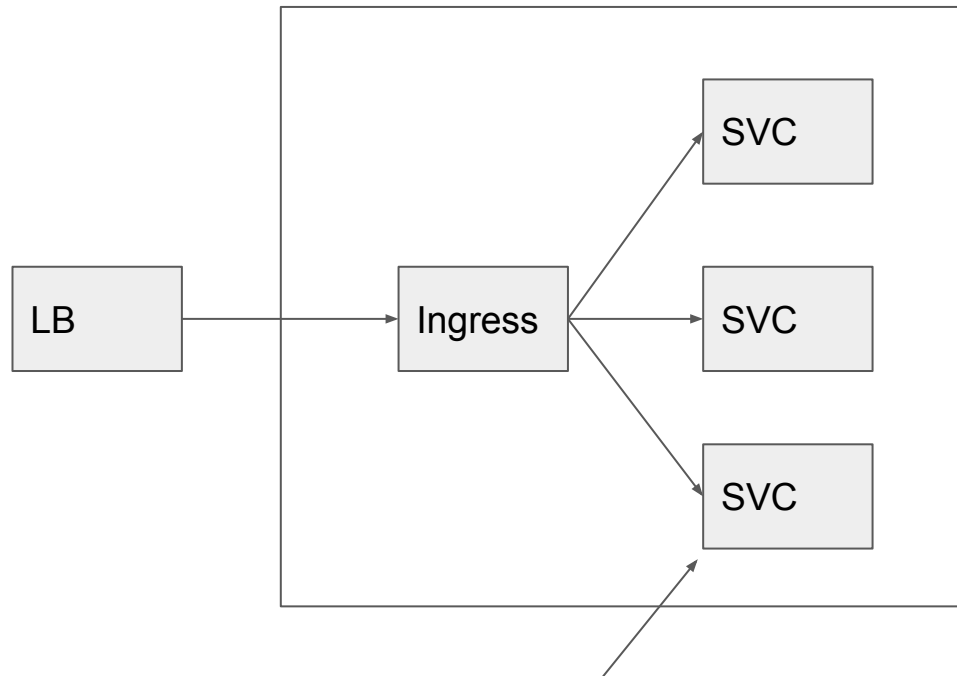
scrub

/var/lib/mysql

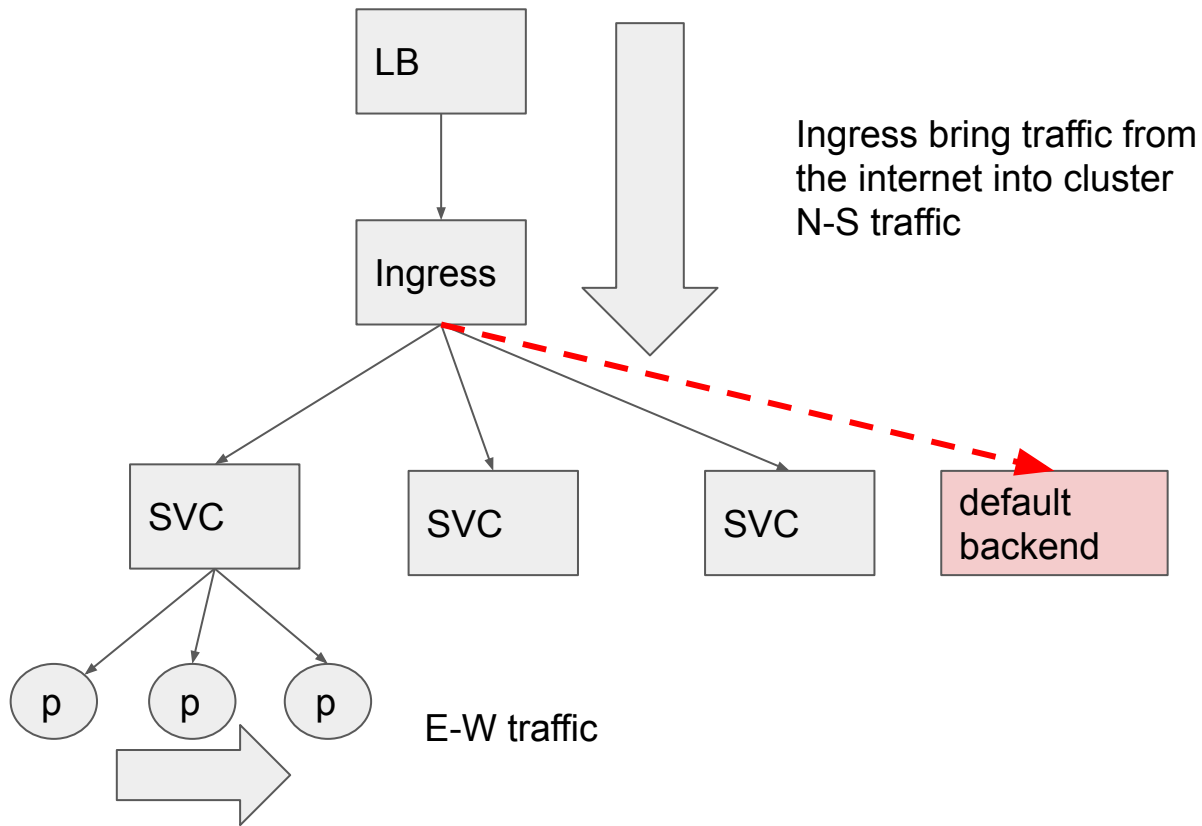




type: LoadBalancer



type: ClusterIP  
svc\_name.namespace.svc.cluster.local



HTTP Request

Host: acme.167.172.4.82.nip.io

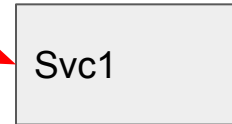
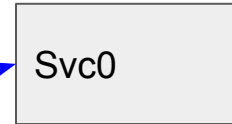
acme.167.172.4.82.nip.io

www.acme.com



www.foobar.com

foobar.167.172.4.82.nip.io



GET /v1/cat.png

nwapp.167.172.4.82.nip.io



fortune.167.172.4.82.nip.io

Ingress

/v1

/v2

/

nwapp1-svc

nwapp2-svc

fortune-svc

<img src="http://cdn.co

GET /v1



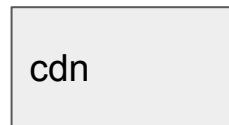
GET /

GET /v1/customer/1



GET /customer/1

cdn



Lunch  
Resume at 1330