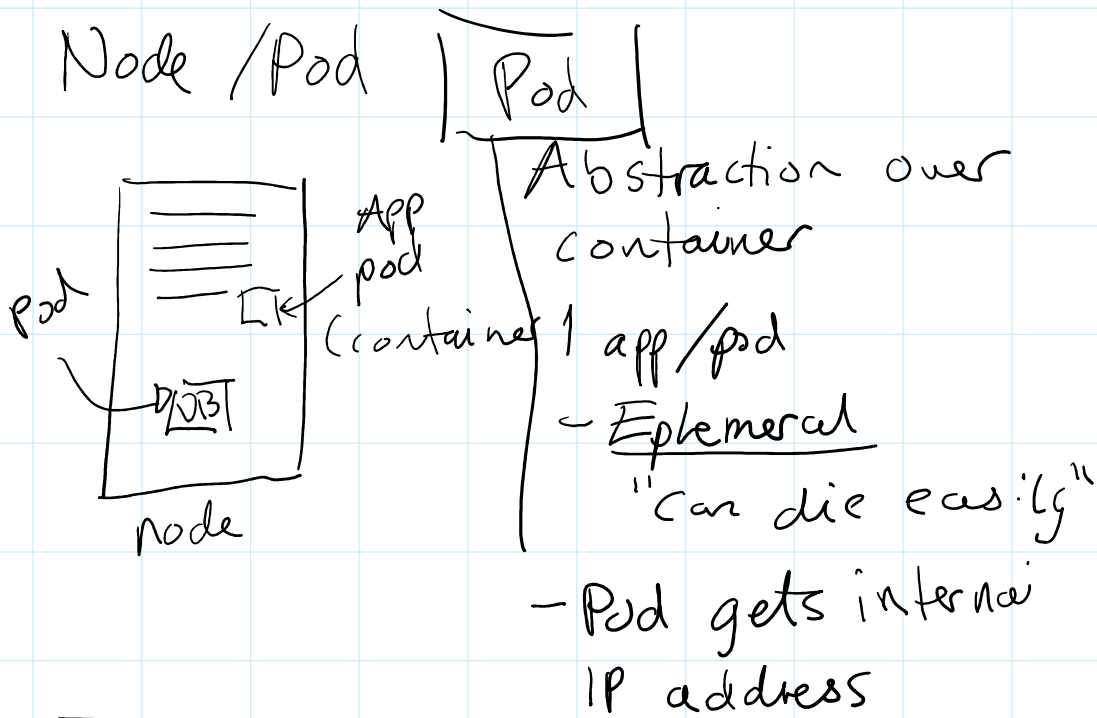


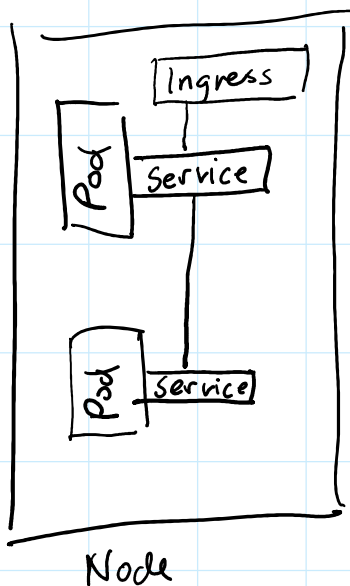
# Components

Monday, June 6, 2022 12:40 PM



## Service

permanent IP address attached to pod.



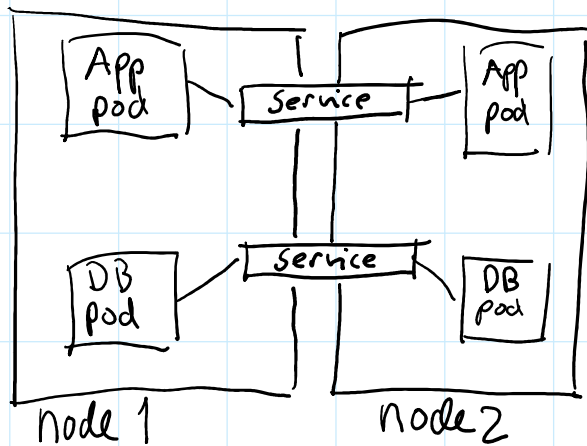
Services can be internal or external

## Ingress

forward domain to service

A service also does Load balancing between pods in different nodes

between pods in different nodes



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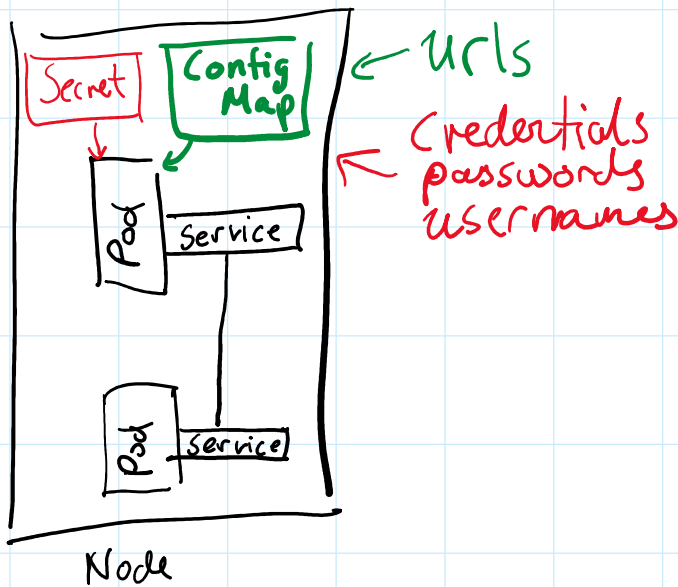
Environment variables can be injected into the apps without redeploy

### Config Map

- External configuration
- eg. URL-addresses
- Attached to pods
- Stored in plaintext
- Non-secrets!!

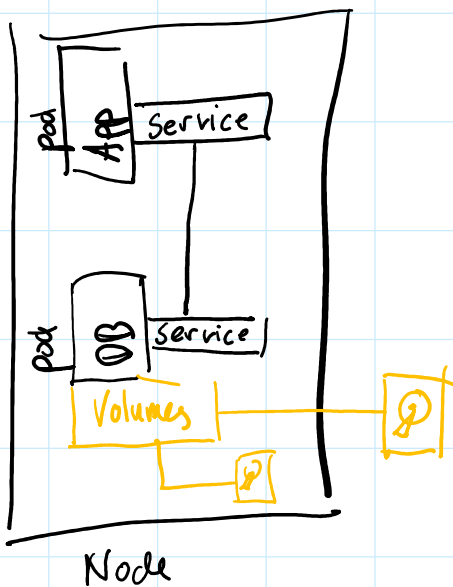
### Secret

- Used to store credentials/Passwords
- Stored in base64 encoded



## Volumes

Data persistence  
for DB-pods



Can be internal  
or external relating  
to the K8 cluster.

External harddrive  
"plugged in"  
to the cluster

## Deployments

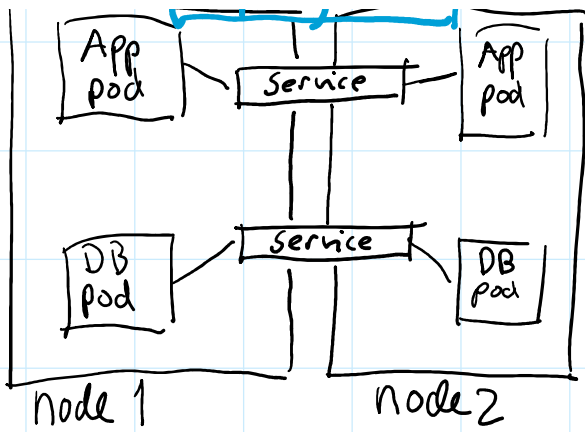
### Deployment



- Abstraction of  
pods

- Blueprint for  
"app"-pods

- Define the

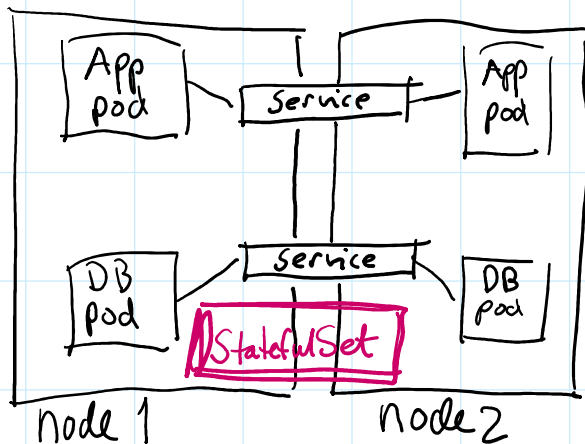


- Scaling the available amount of pods
- Configurations
- Stateless pods

## Stateful Set

"pod blueprints"

- "Deployments" (replication/scaling) for stateful apps/databases
- Synchronizing state across pods
- Tricky deployments. DB might be better kept outside



K8