Container Platform @EOS TS

$ whoami

- **Gerhard Häring**
- **Linux 1997**
- **Developer**
- **2014-2018 DevOps/Docker/AWS**
- **05/2018 Container Platform Engineer @EOS**

EOS

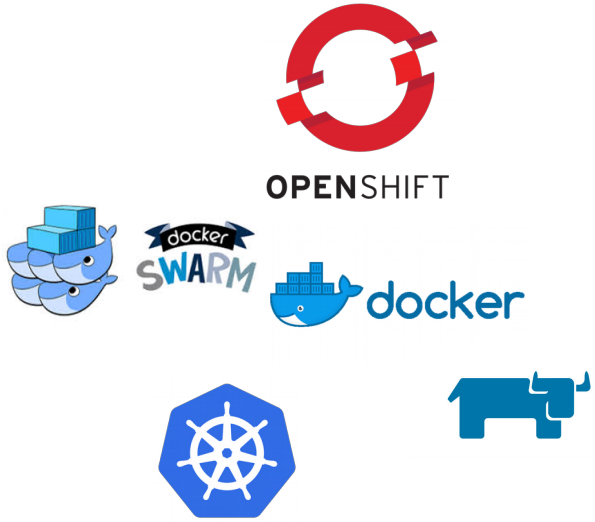
2017 ...

FX team

F2 team

Portals team

...



EOS infra team

PAAS: Container Platform as a Service

- Centralize support/knowledge
- Scaling effects
- Integration in EOS ecosystem
- Customers can concentrate on core tasks
- “EWS” - Next Gen Infrastructure

K8s

OPENSHIFT

Infoblox

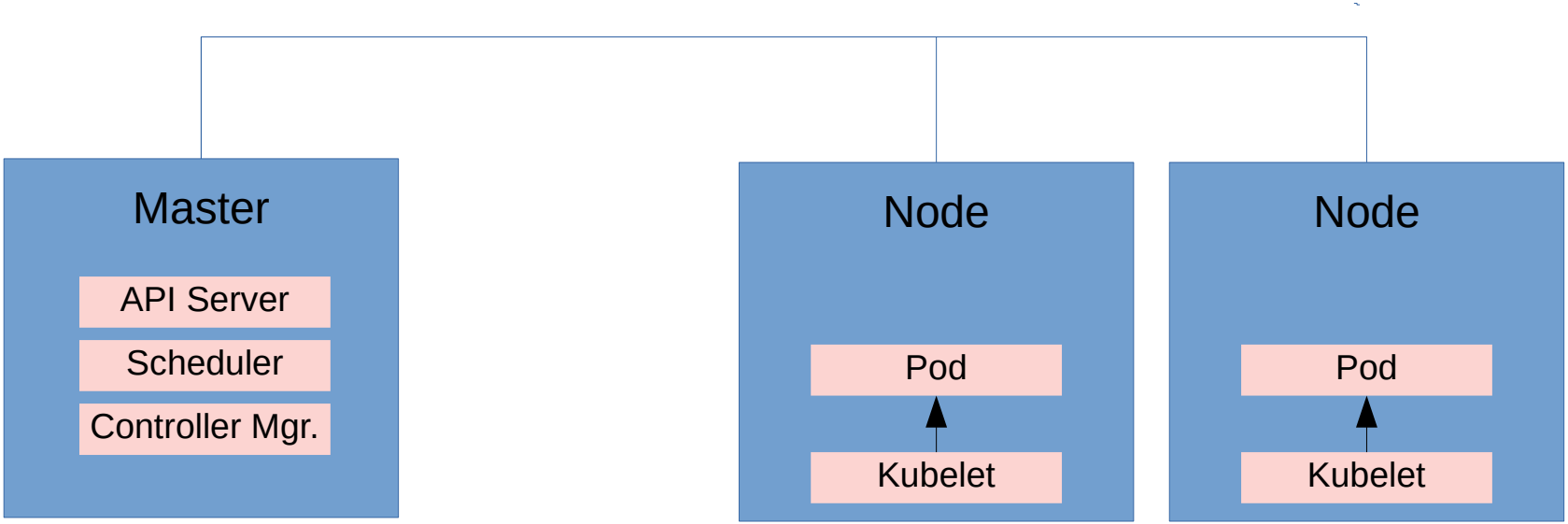
vmware vSphere 6

influxdb

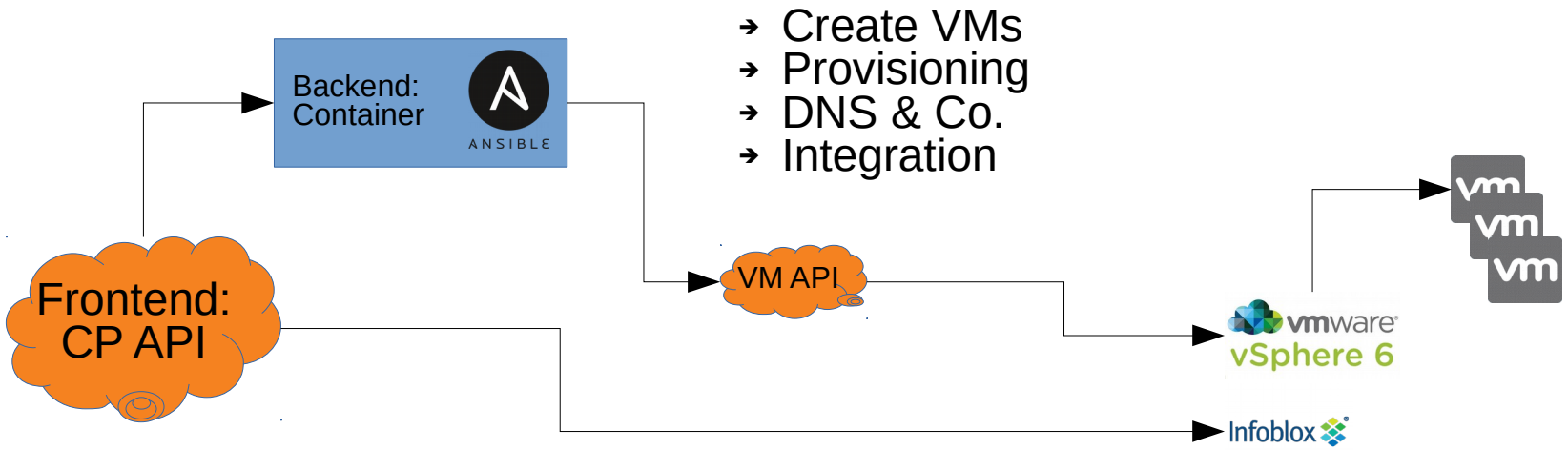
EOS

Refresher: Kubernetes Architecture

- Container Orchestrator/Scheduler



Implementation



- API: ~ 1000 lines of Go code
- POST /v1/k8s/cluster
- DELETE /v1/k8s/cluster/***<name>***
- GET /v1/request/***<operation>***/status
- GET /v1/request/***<operation>***/logs

Demo time

What we deliver

- Cluster (1 master, n worker nodes)
- Latest Kubernetes version
- In a particular EOS network
- Common addons preinstalled
- Stable base installation
- Storage integration
- Platform monitoring

Challenges

- On premise/enterprise challenges
- Legacy infrastructure 
- EWS stability
- Storage
- State

Feedback?

- How do you manage clusters (on premise)?
- What would you do different?
- Make or buy (Loodse, Giant Swarm, …)
- Anything else?