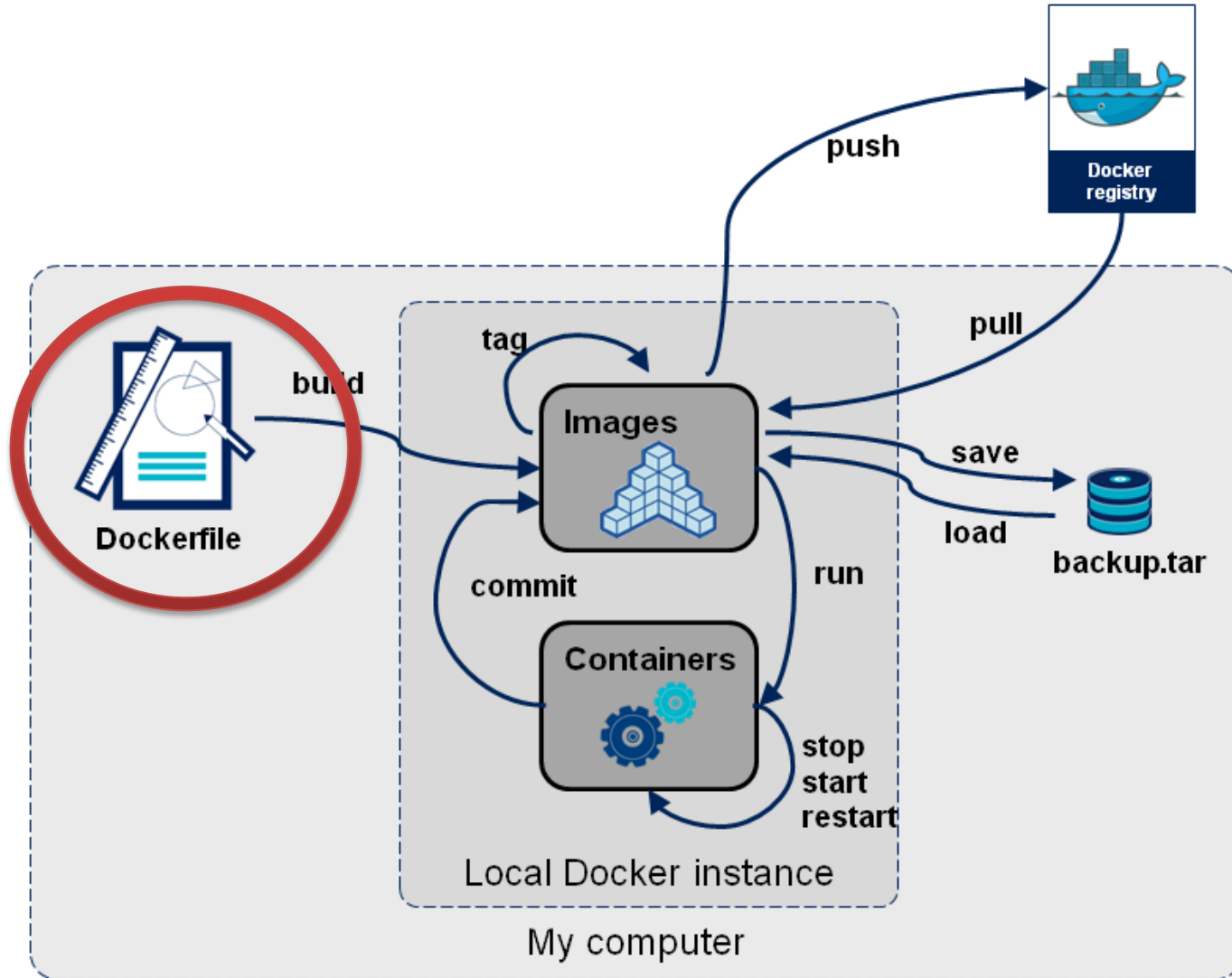


Docker – első lépések és hálózati opciók

vitmma02

DOCKER KÍSÉRŐFÓLIÁK – AZ ÓRÁN BEMUTATOTTAKHOZ

Building docker images



Eureka moment #1

Installation

- `$ sudo curl -sSL https://get.docker.com/ubuntu/ | sudo sh`
- `$ sudo yum install docker`

Use

```
$ docker run busybox echo foobar
```

```
FooBar
```

```
$ docker run -ti ubuntu:14.04 /bin/bash
```

```
root@0156ad334ca4:/#
```

The App store

```
$ docker push runseb/application
```

```
$ docker pull runseb/application
```

```
$ docker run -d runseb/application
```

Docker gotchas

Networking

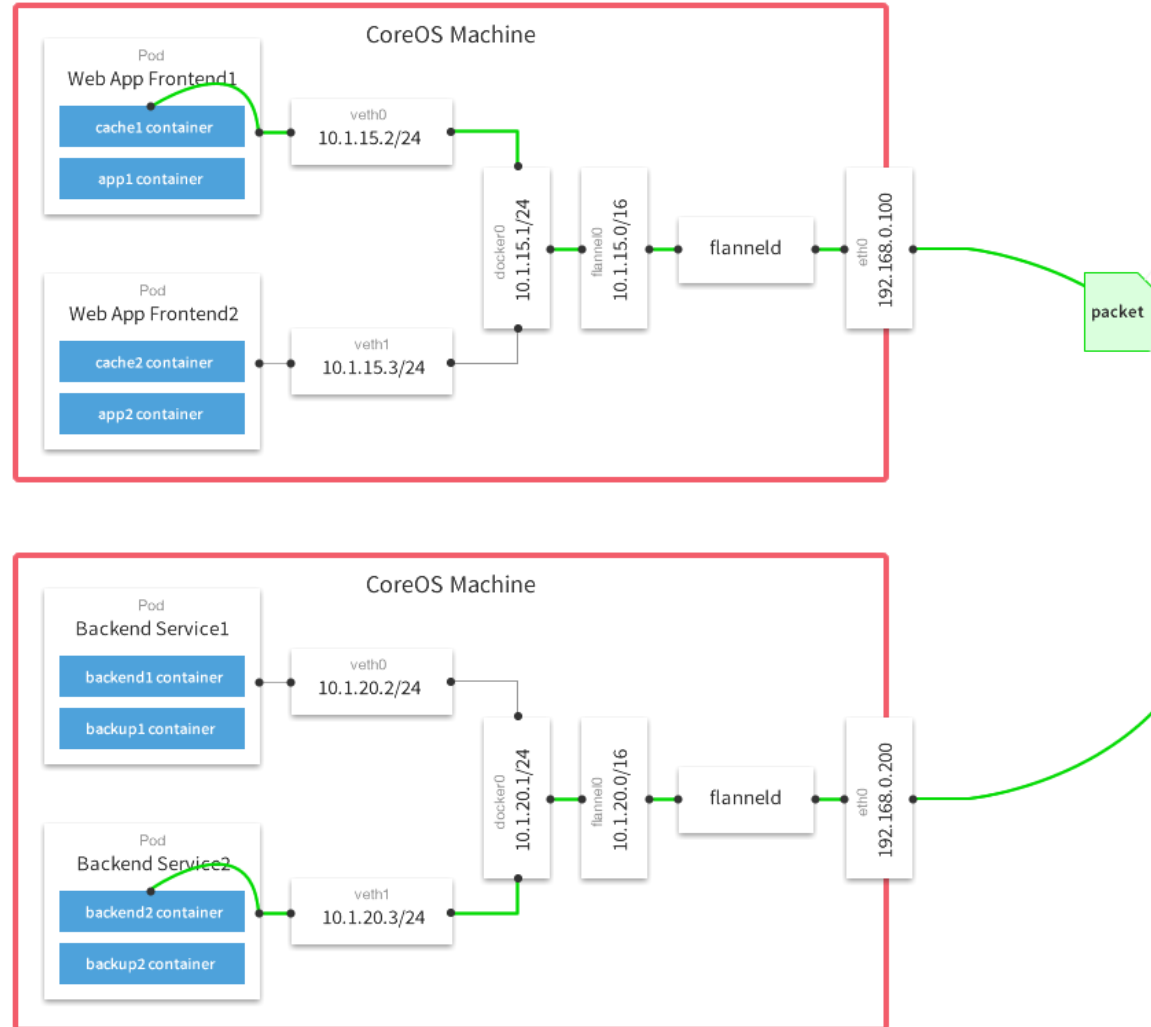
- Bridge in the host
- Port mapping to expose services on the host
- Chain DOCKER (1 references)
- target prot opt source destination
- ACCEPT tcp -- anywhere 172.17.0.4 tcp dpt:www

Multi-Host networking

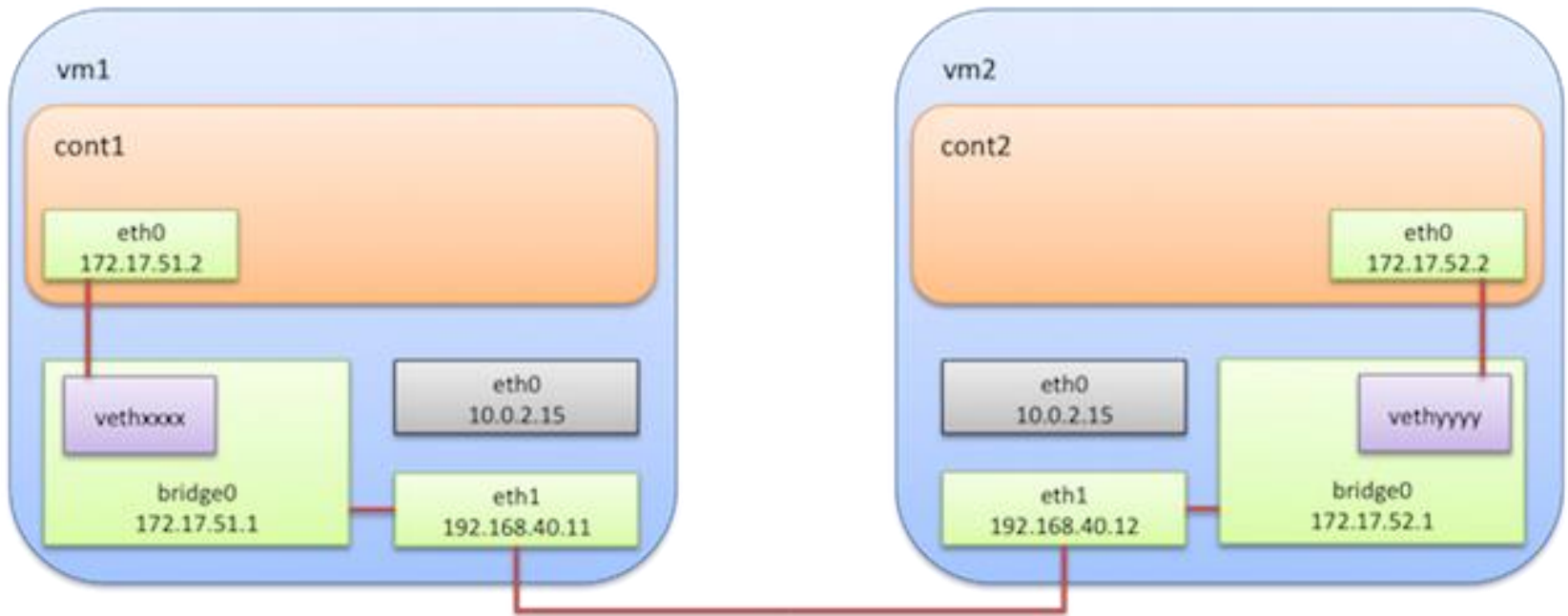


Weave.works

Flannel



Docker routing



Other gotchas

- No init system in the container
- Foreground processes
- Root
- Data volumes
- Data persistence
- How small does an image get for real applications ?

KUBERNETES

Kubernetes

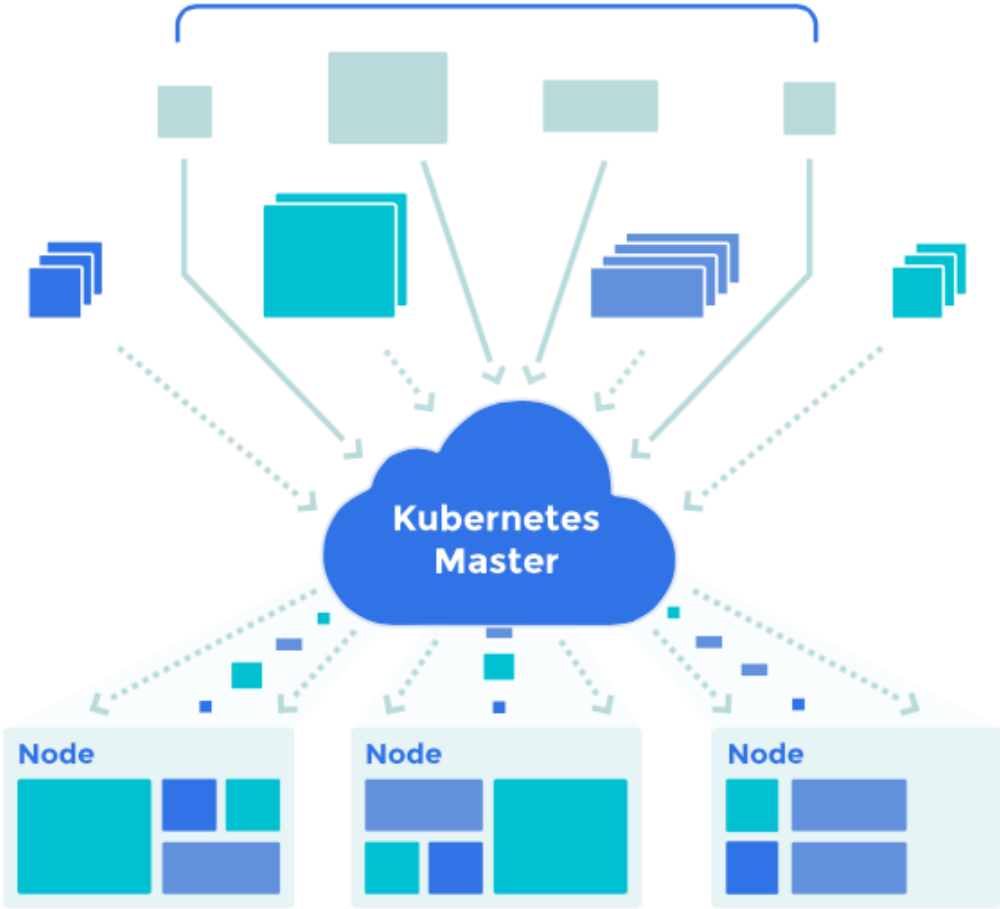
κυβερνήτης: *Greek for "pilot" or "helmsman of a ship"*
the open source cluster manager from Google



Kubernetes

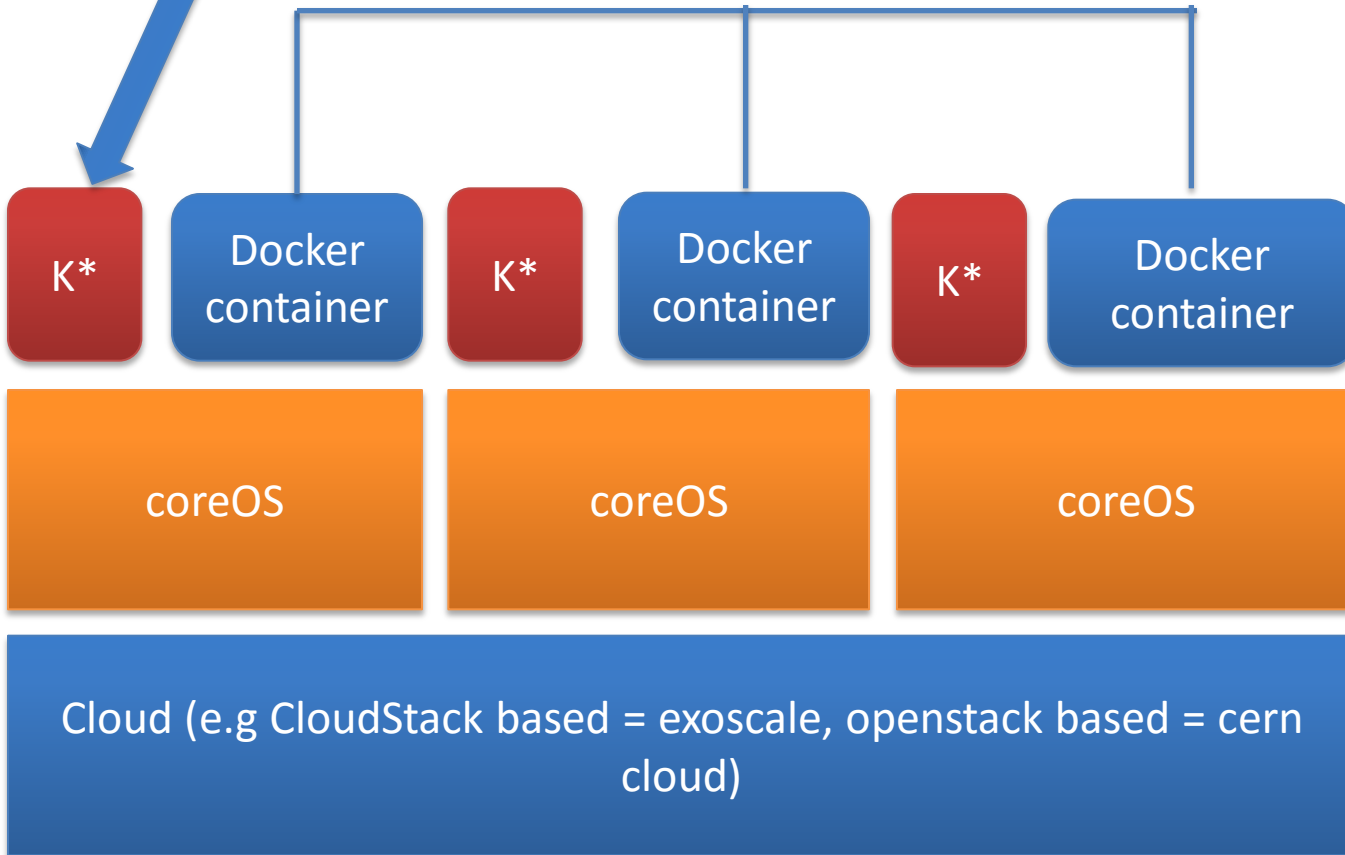
- Docker application orchestration
- Google GCE, rackspace, Azure providers
- Deployable on CoreOS
- Container replication
- HA services

**An ocean of
user containers**



**Scheduled and packed
dynamically onto nodes**

API calls to
Kubernetes API



Kubernetes API

/pods

/pods

GET

POST

/pods/{podId}

GET

PUT

DELETE

/replicationControllers

/replicationControllers

GET

POST

/replicationControllers/{controllerId}

GET

PUT

DELETE

/services

/services

GET

POST

/services/{serviceId}

GET

PUT

DELETE

Források

- Docker networking

<http://blog.sequenceiq.com/blog/2014/08/12/docker-networking/>

- Docker bevezető

<https://www.jayway.com/2015/03/21/a-not-very-short-introduction-to-docker/>

- Docker networking lépések

<http://www.slideshare.net/lorispack/docker-networking-101>