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CLOUD NATIVE WORKSHOP

OPENSHIFT(K8S/DOCKER)

Good to know ;)

Op de wiki van GitHub vind je de workshop



<http://bit.ly/30Cuvkc>

<https://github.com/jr00n/openshift-cloudnative-workshop/wiki>

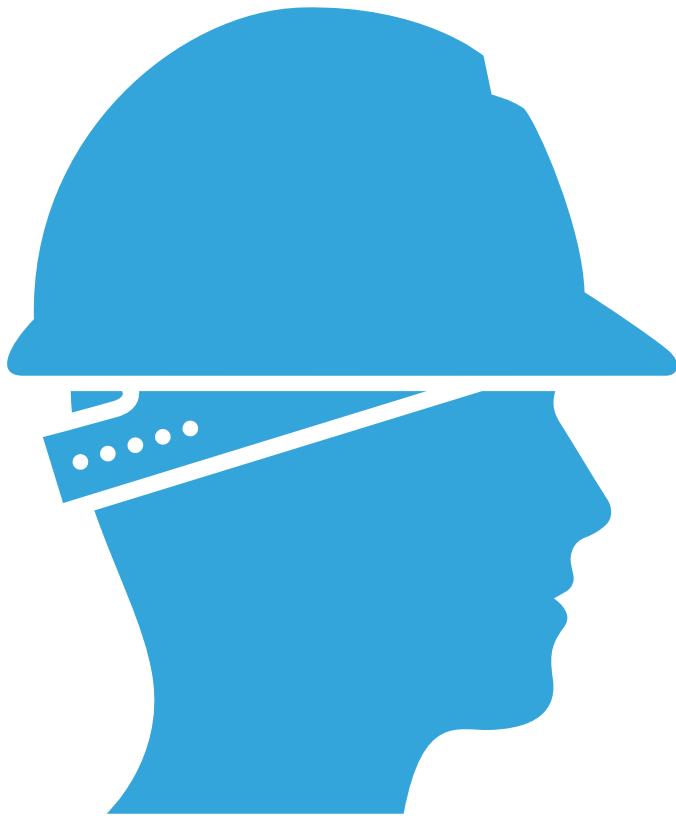
I ❤️ Lab7...POWER!!

selecteer niet de '\$' in de voorbeelden dat is de bash prompt ;)



```
$ cd inventory-wildfly-swarm  
$ mvn package -s settings.xml
```

mvn --version < 3.6?



Zorg voor de goede ontwikkeltools...

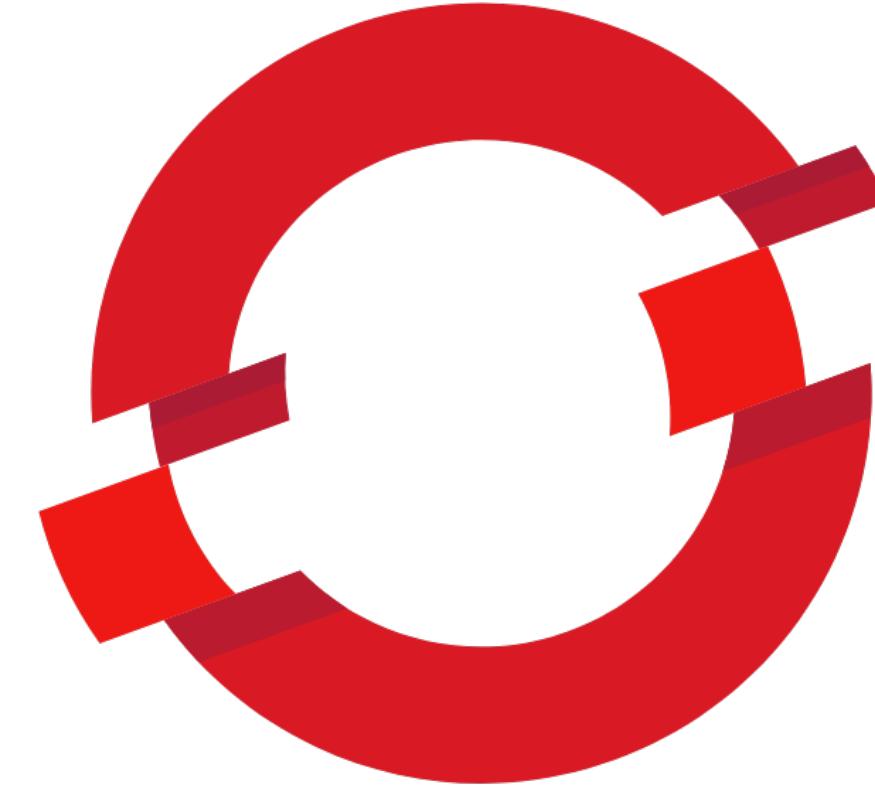
Terminal (Windows? Cmder...what else?, iTerm2)

Zorg dat OpenShift CLI (oc.exe) v3.11 op je PATH staat ;)

<https://github.com/jr00n/openshift-cloudnative-workshop/wiki/1.-Getting-Started-with-OpenShift>

```
~ » oc version
oc v3.11.0+0cbc58b
kubernetes v1.11.0+d4cacc0
features: Basic-Auth

Server https://master.apeldoorn-7f3a.openshiftworkshop.com:443
openshift v3.11.43
kubernetes v1.11.0+d4cacc0
```



OPENSIFT



Thanks **Red Hat** voor
beschikbaar stellen van
het cluster!

<http://bit.ly/openshiftconsole>

<https://master.taxes-105a.openshiftworkshop.com>

\$ oc login <https://master.taxes-105a.openshiftworkshop.com/>

user: user1..24

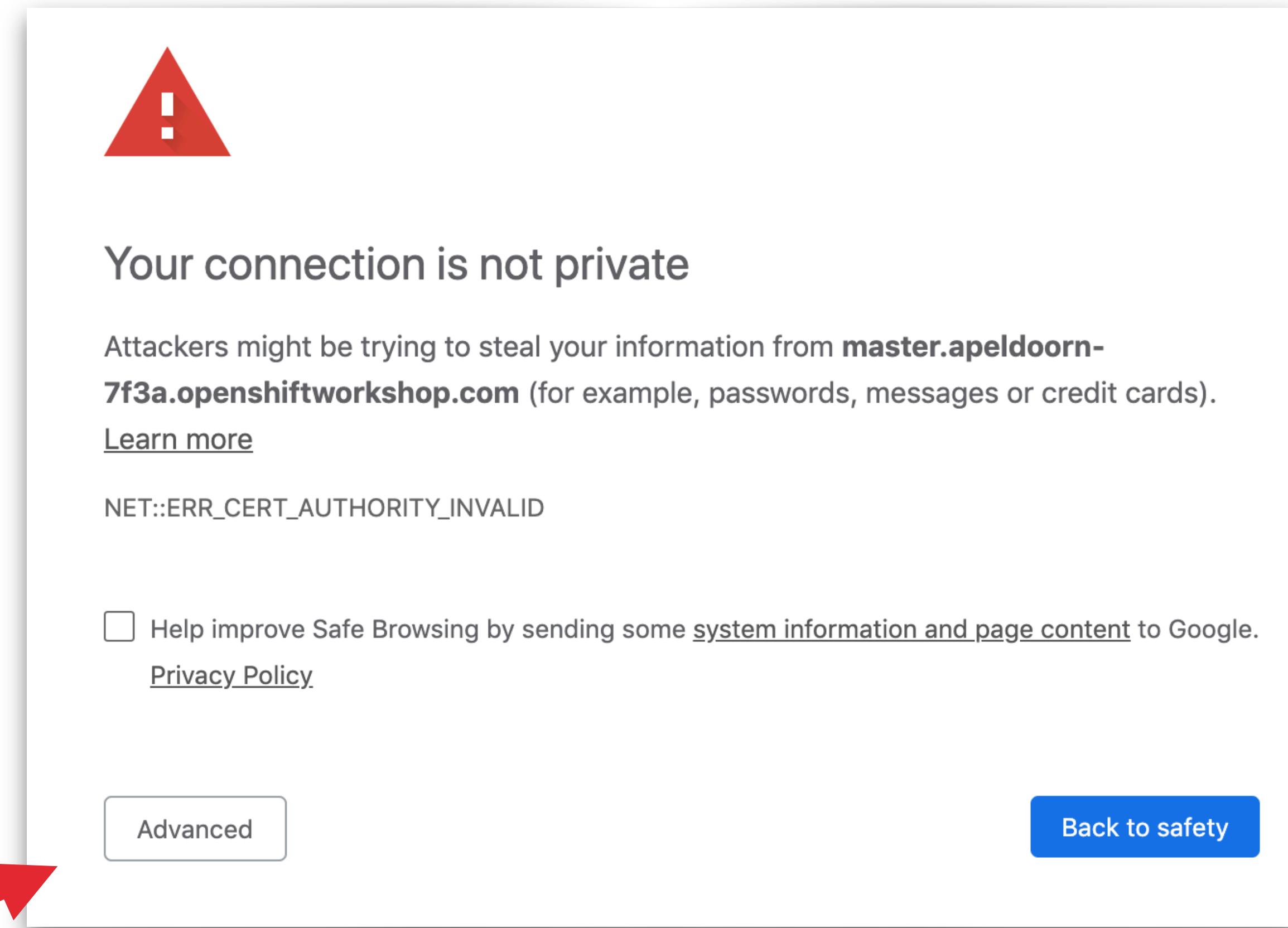
password: openshift

project: coolstore1...coolstore24





self signed certificates (chrome)



proceed (unsafe)

<https://master.taxes-105a.openshiftworkshop.com/>





self signed certificates (oc)

```
openshift/openshift-cloudnative-workshop - [master•] » oc login https://master.apeldoorn-7f3a.openshiftworkshop.com/  
The server uses a certificate signed by an unknown authority.  
You can bypass the certificate check, but any data you send to the server could be intercepted by others.  
Use insecure connections? (y/n):
```

```
openshift/openshift-cloudnative-workshop - [master•] » oc new-project coolstoreXX
```



<https://master.taxes-105a.openshiftworkshop.com>



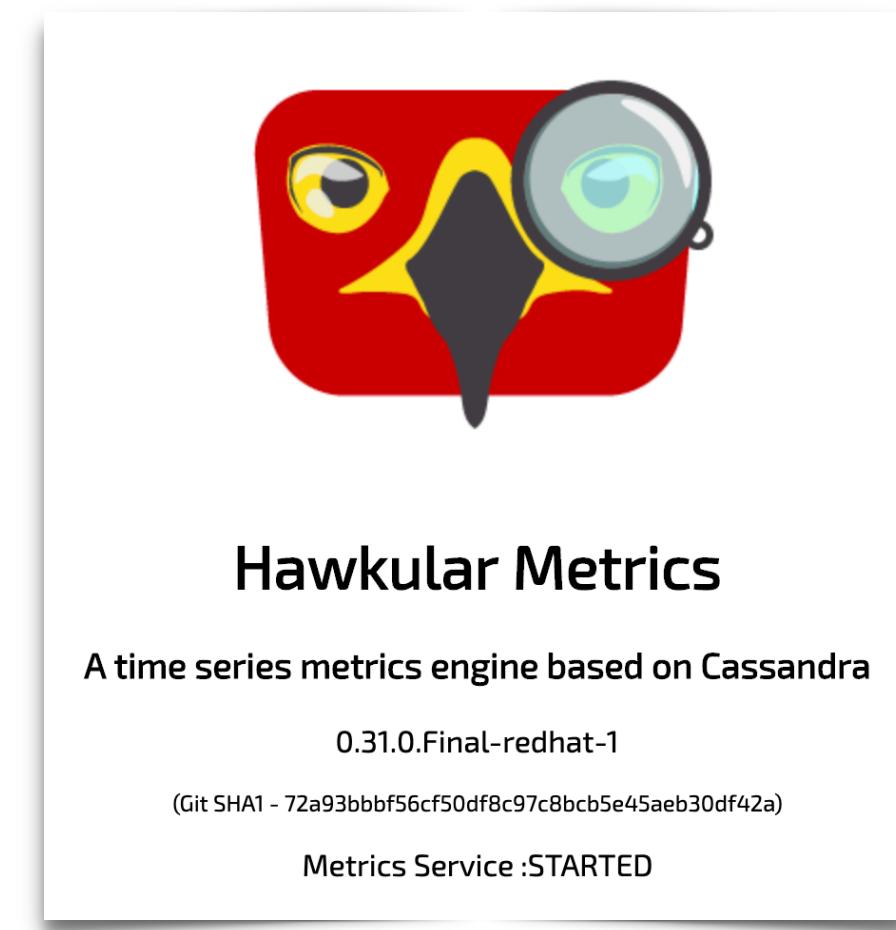
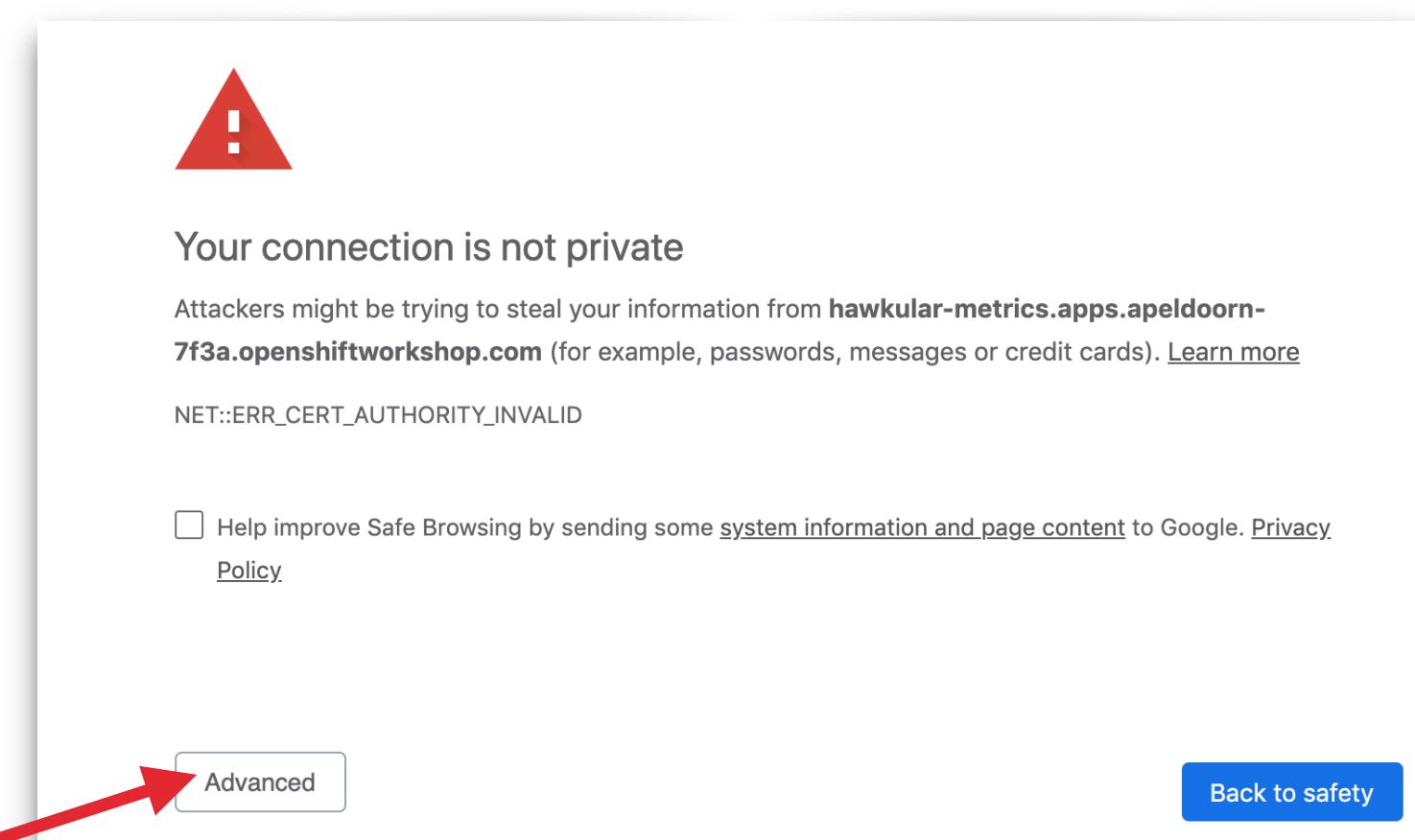
self signed certificates (chrome)

OPENSHIFT CONTAINER PLATFORM Application Console

coolstore

Overview Applications

An error occurred getting metrics. [Open Metrics URL](#) | [Don't Show Me Again](#)



<https://hawkular-metrics.apps.master.taxes-105a.openshiftworkshop.com/>



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Op verschillende manieren met de OpenShift API communiceren

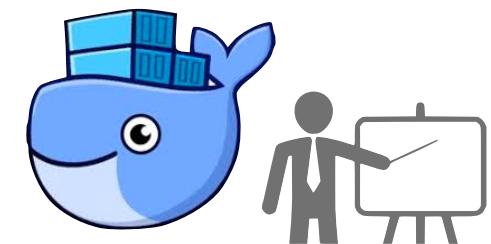
jr@On



Beetje context....

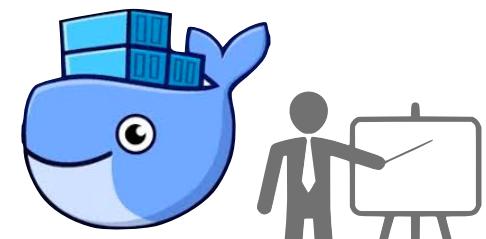
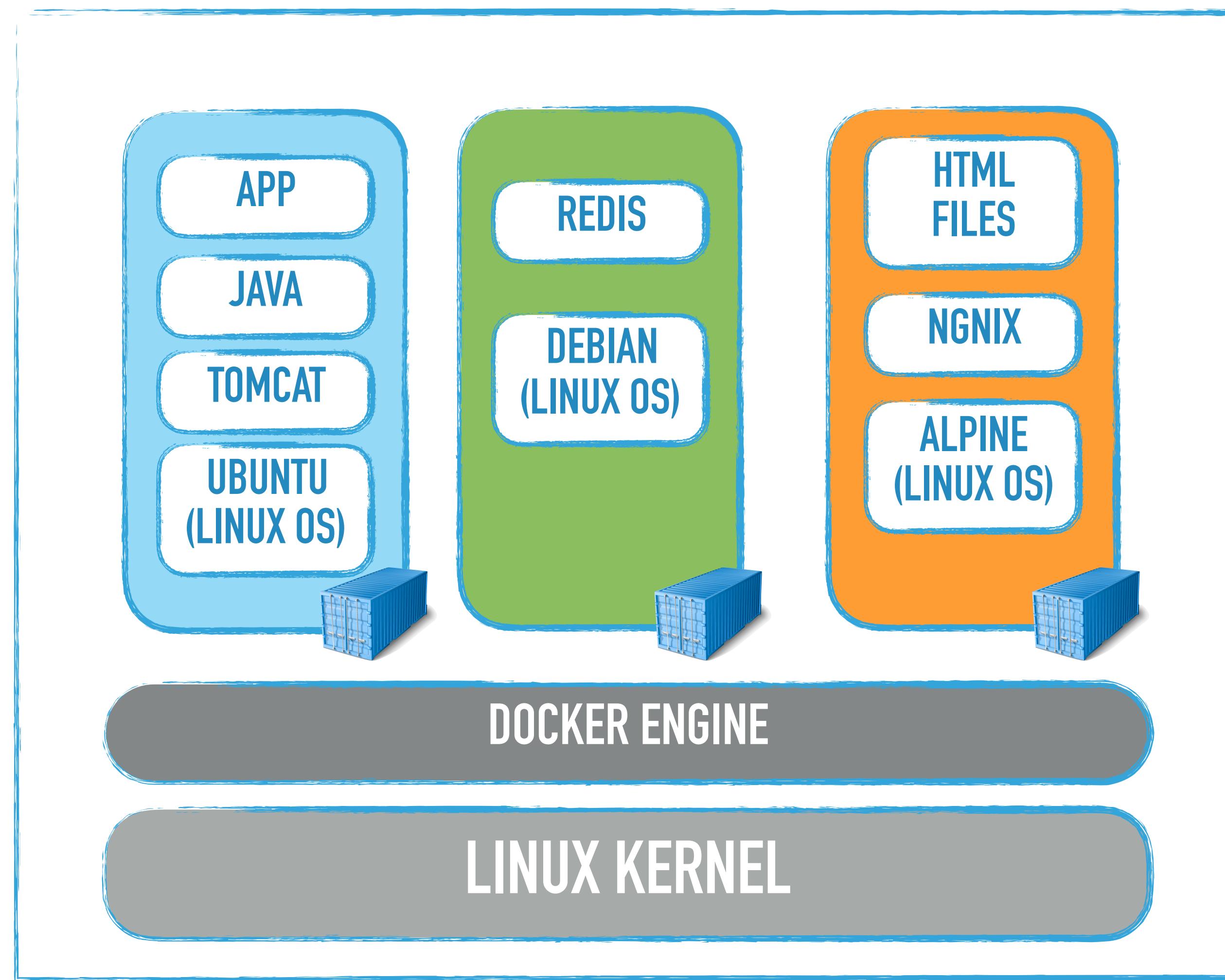


Docker Basics

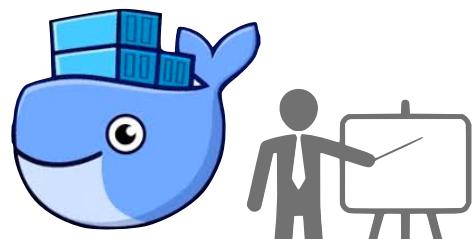
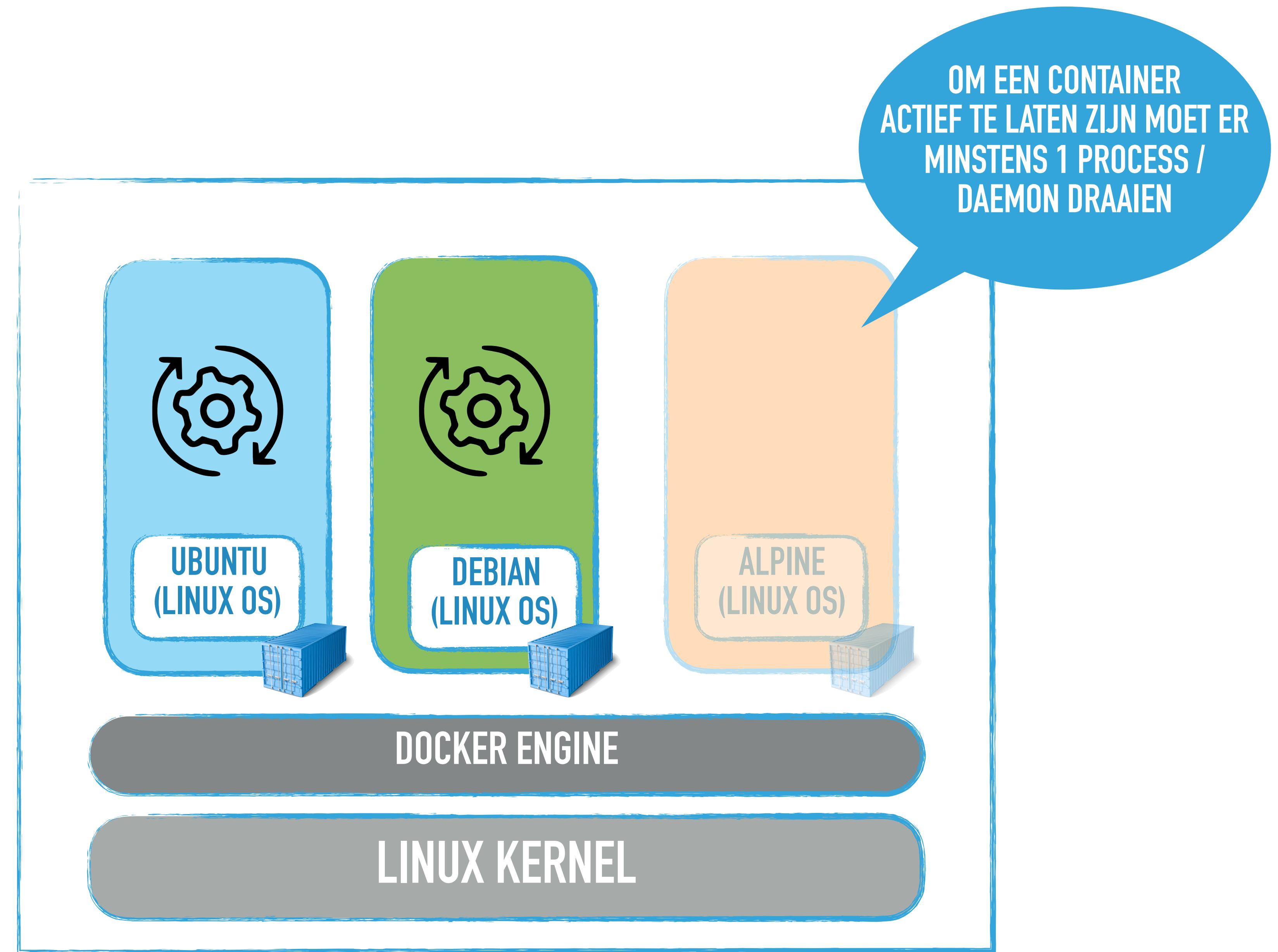


jr@On

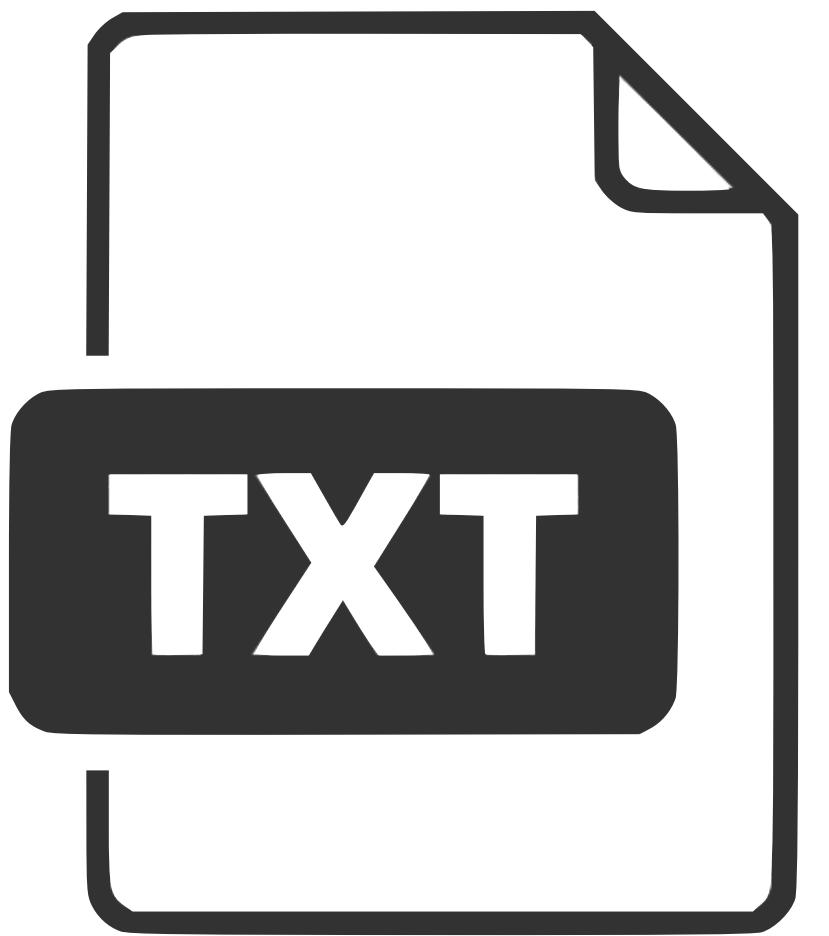
Docker Host



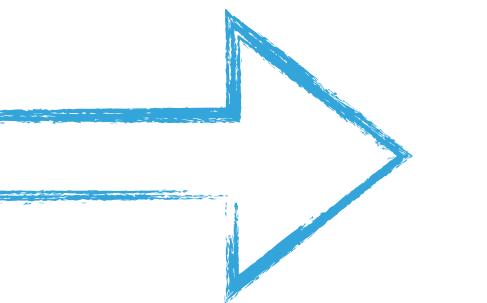
Running Container



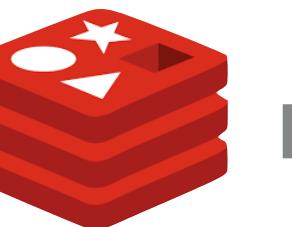
Docker Images



Dockerfile



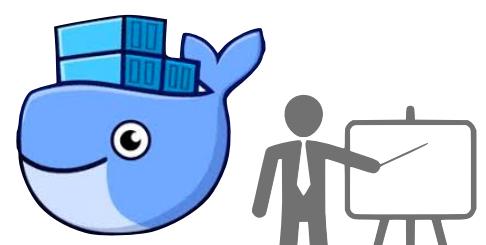
Docker Image



redis:3.2.11 (repository:tag)



Docker Container's



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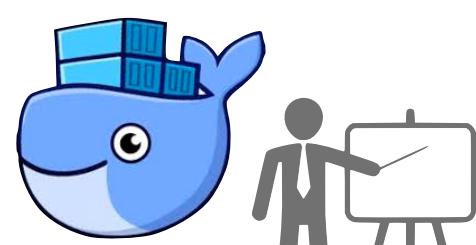
Docker Hub

Docker Store is the new place to discover public Docker content. [Check it out →](#)

Dashboard Explore Organizations Create jr0n

Explore Official Repositories

 alpine official	3.3K STARS	10M+ PULLS	DETAILS
 nginx official	8.1K STARS	10M+ PULLS	DETAILS
 httpd official	1.6K STARS	10M+ PULLS	DETAILS
 redis official	4.9K STARS	10M+ PULLS	DETAILS
 busybox official	1.2K STARS	10M+ PULLS	DETAILS
 ubuntu official	7.4K STARS	10M+ PULLS	DETAILS
 mongo official	4.2K STARS	10M+ PULLS	DETAILS

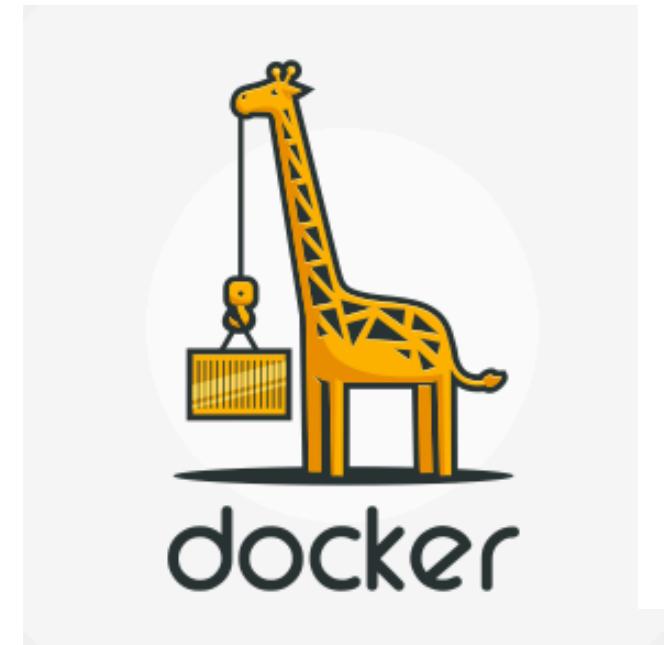


<https://hub.docker.com/explore/>

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docker
(containers, haven, docks etc)



<https://en.99designs.nl/logo-design/contests/create-cool-open-source-project-logo-219415/entries>



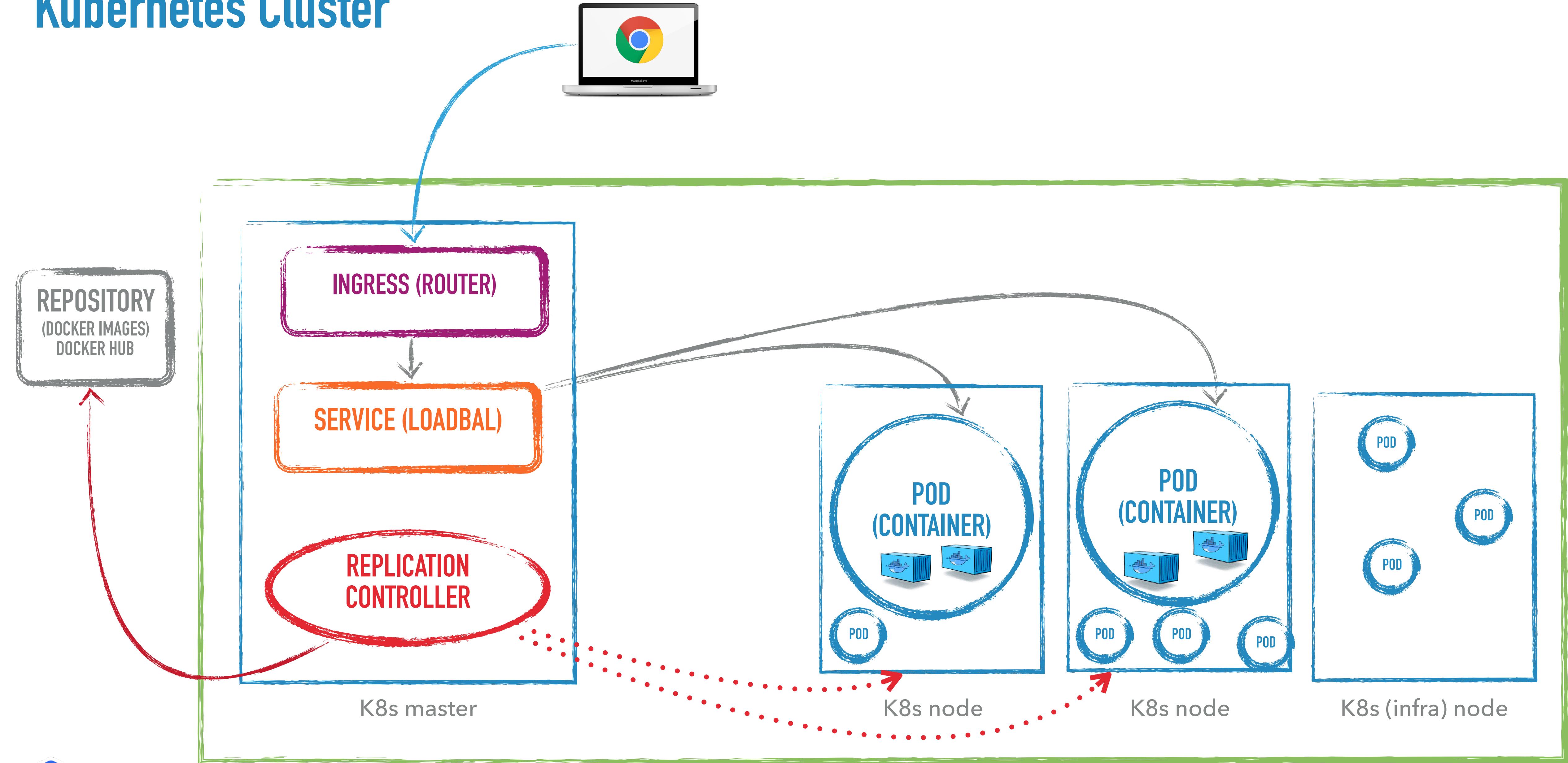
kubernetes = kapitein op een schip (grieks)

"We had 13 other names we couldn't get past Google's legal department. It was the last day, and I had to pick something. I was driving in to work, and I thought, 'Well, [the technology] is like driving a container ship. What would the helmsman be called?' So I tried to find something exotic. I had no idea what the Greek for that was. I had to look it up." -- Craig McLuckie

Pod = verzameling walvissen

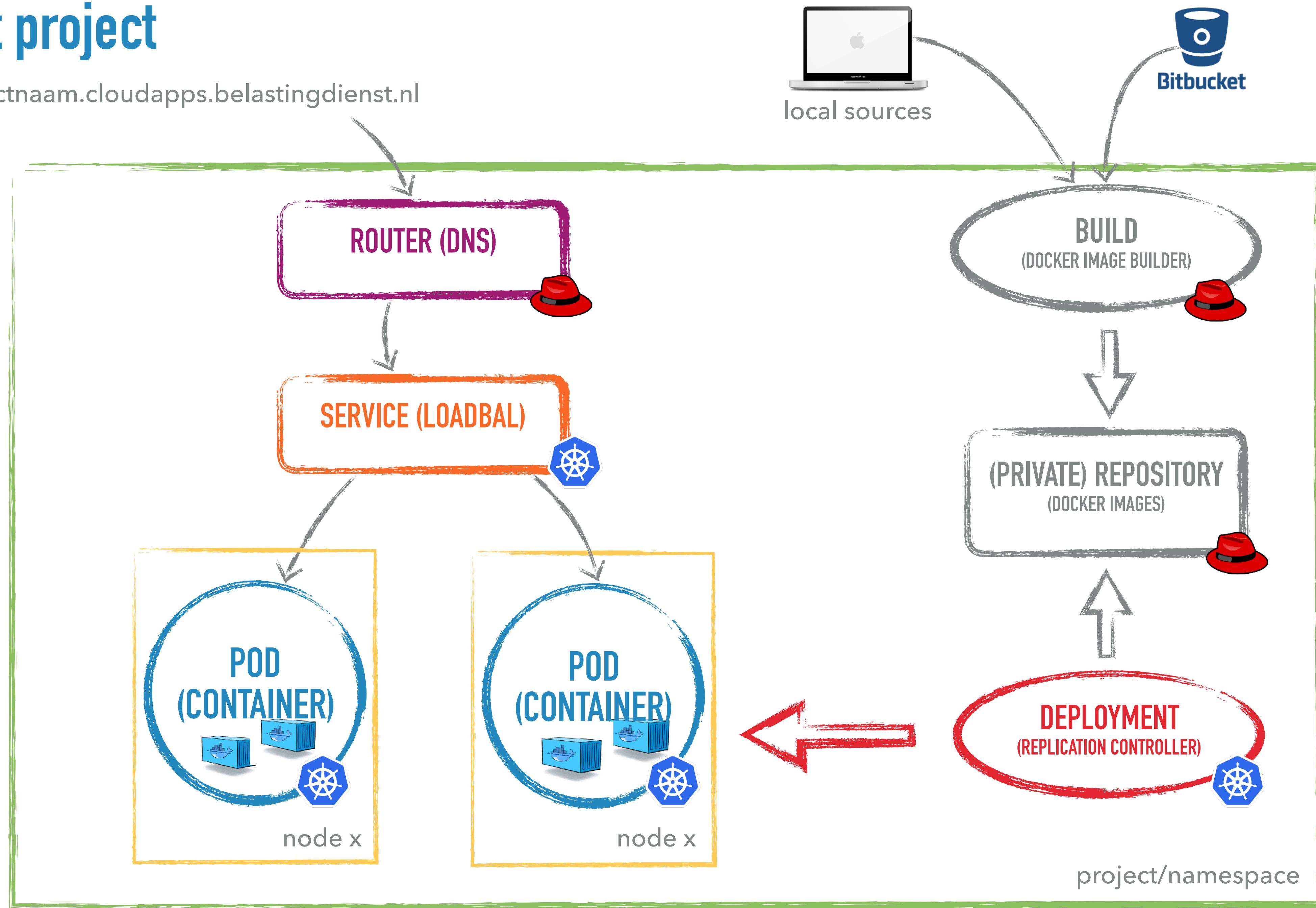


Kubernetes Cluster

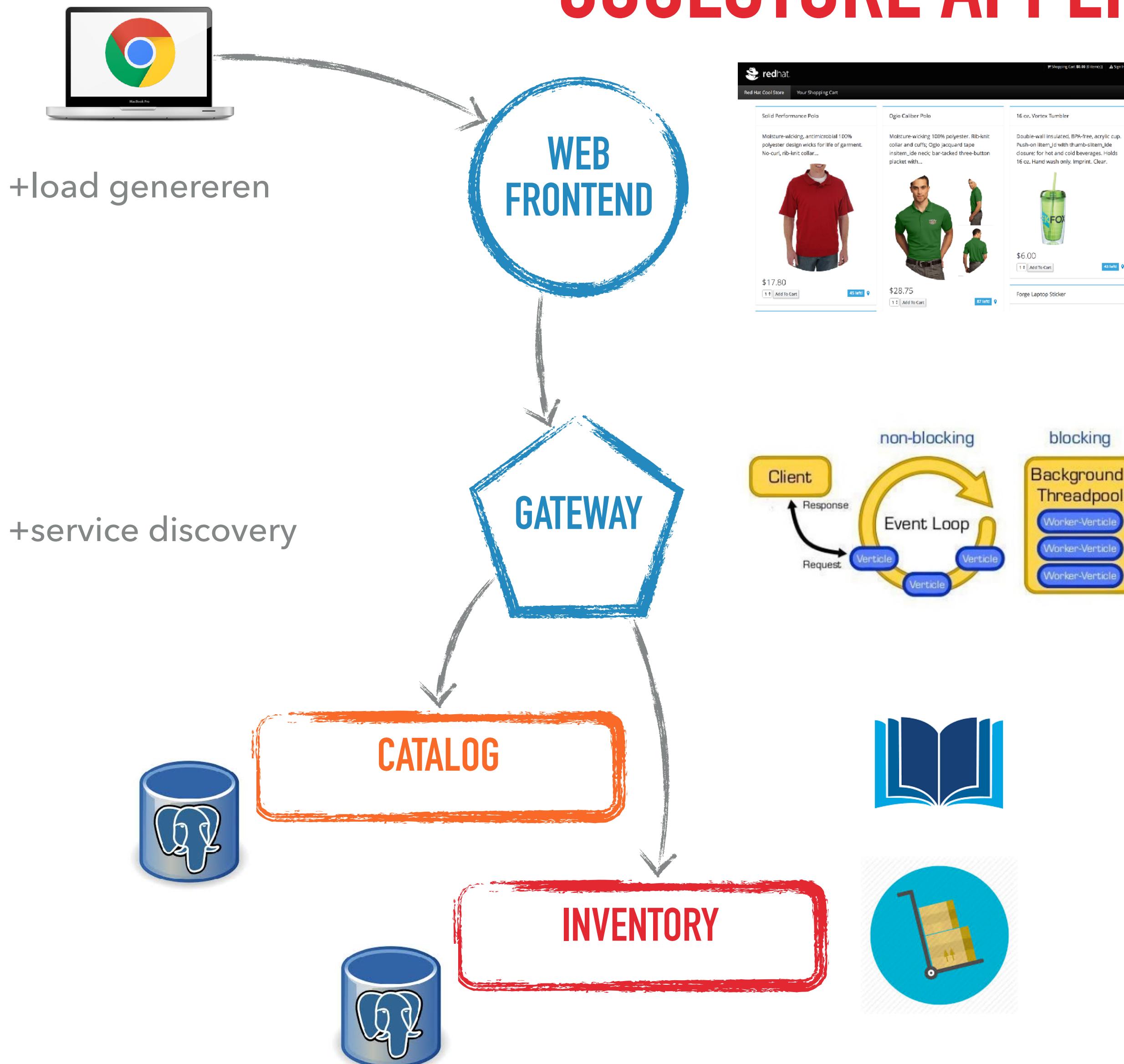


OpenShift project

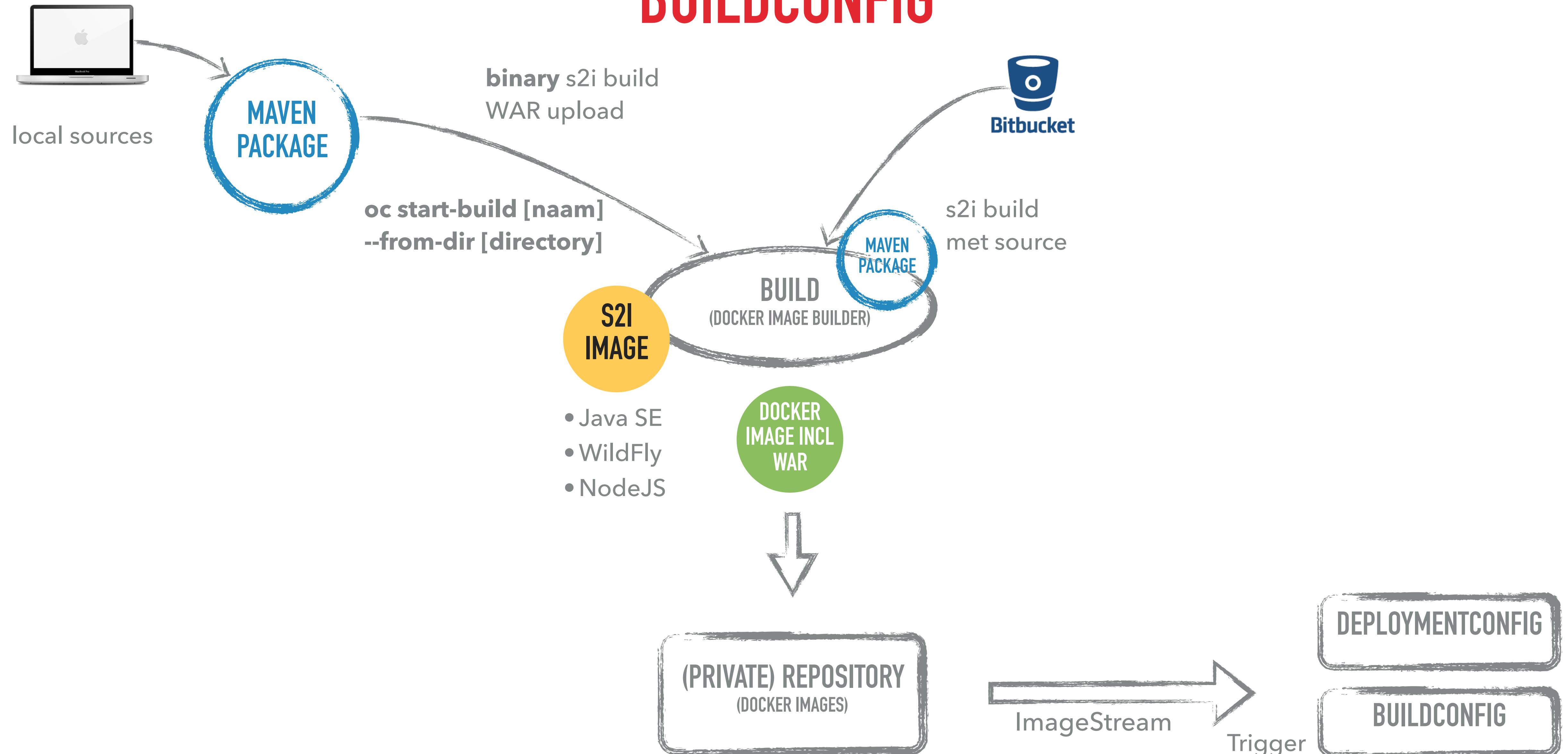
app-projectnaam.cloudapps.belastingdienst.nl



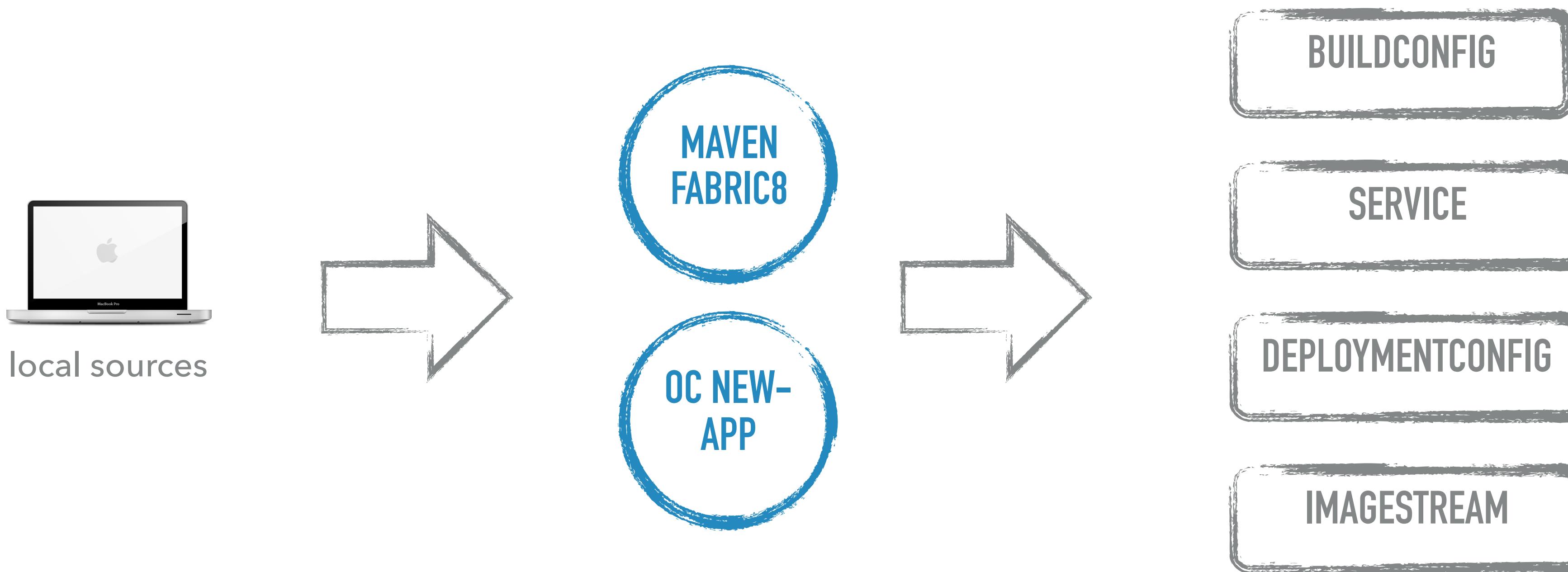
COOLSTORE APPLICATIE



BUILDCONFIG



MAVEN FABRIC8 PLUGIN / OC NEW-APP

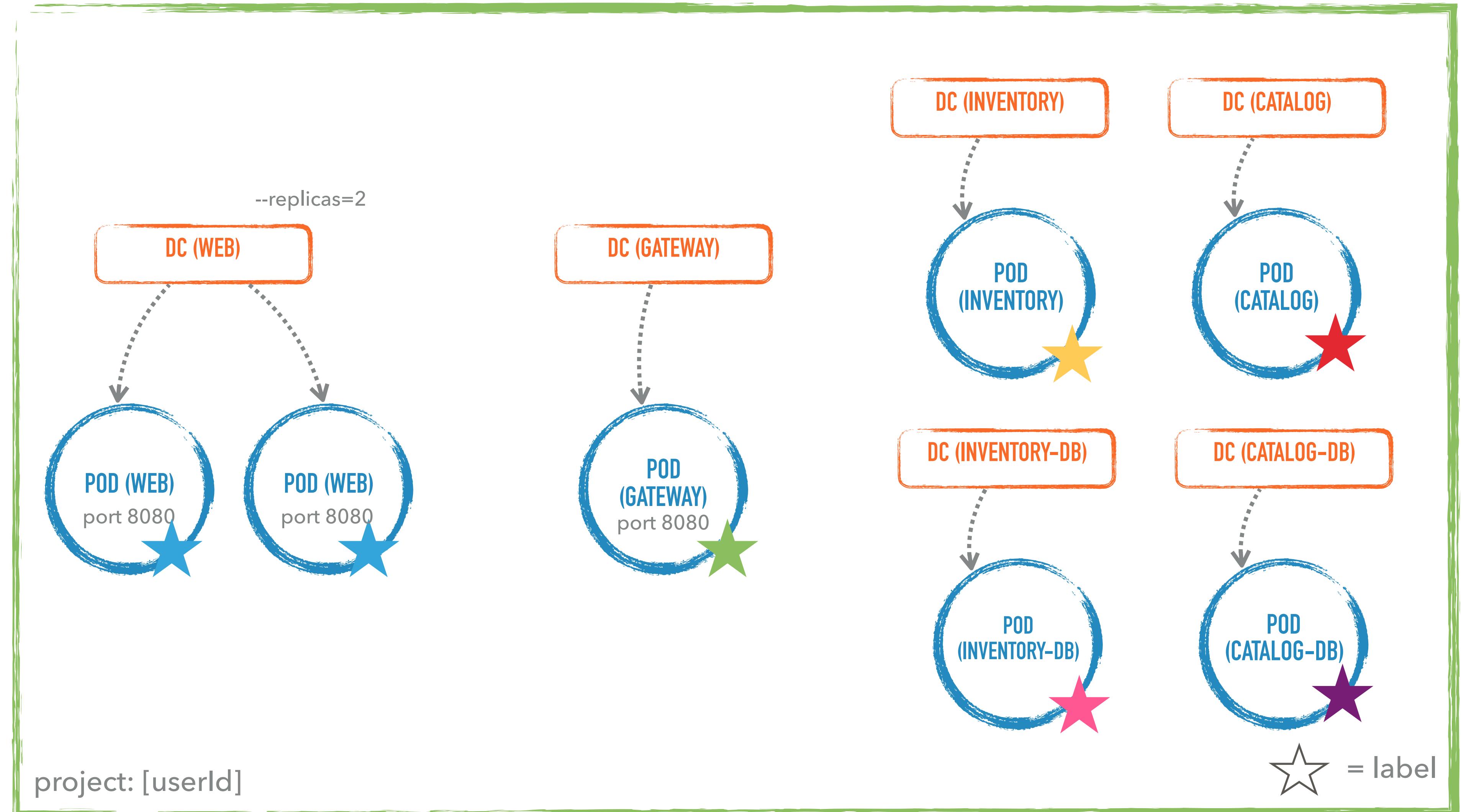
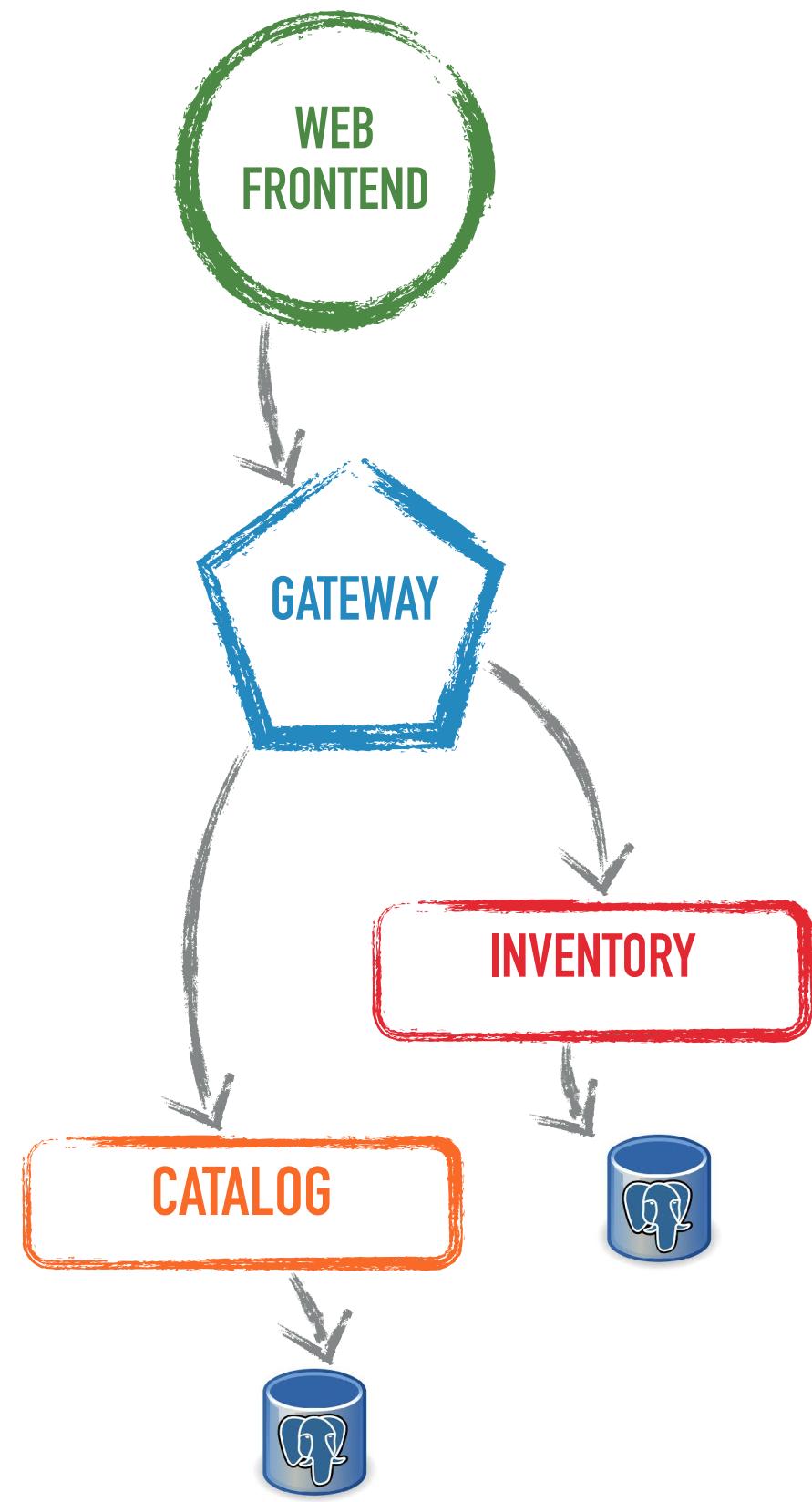


Handige tools om OpenShift objecten te maken.

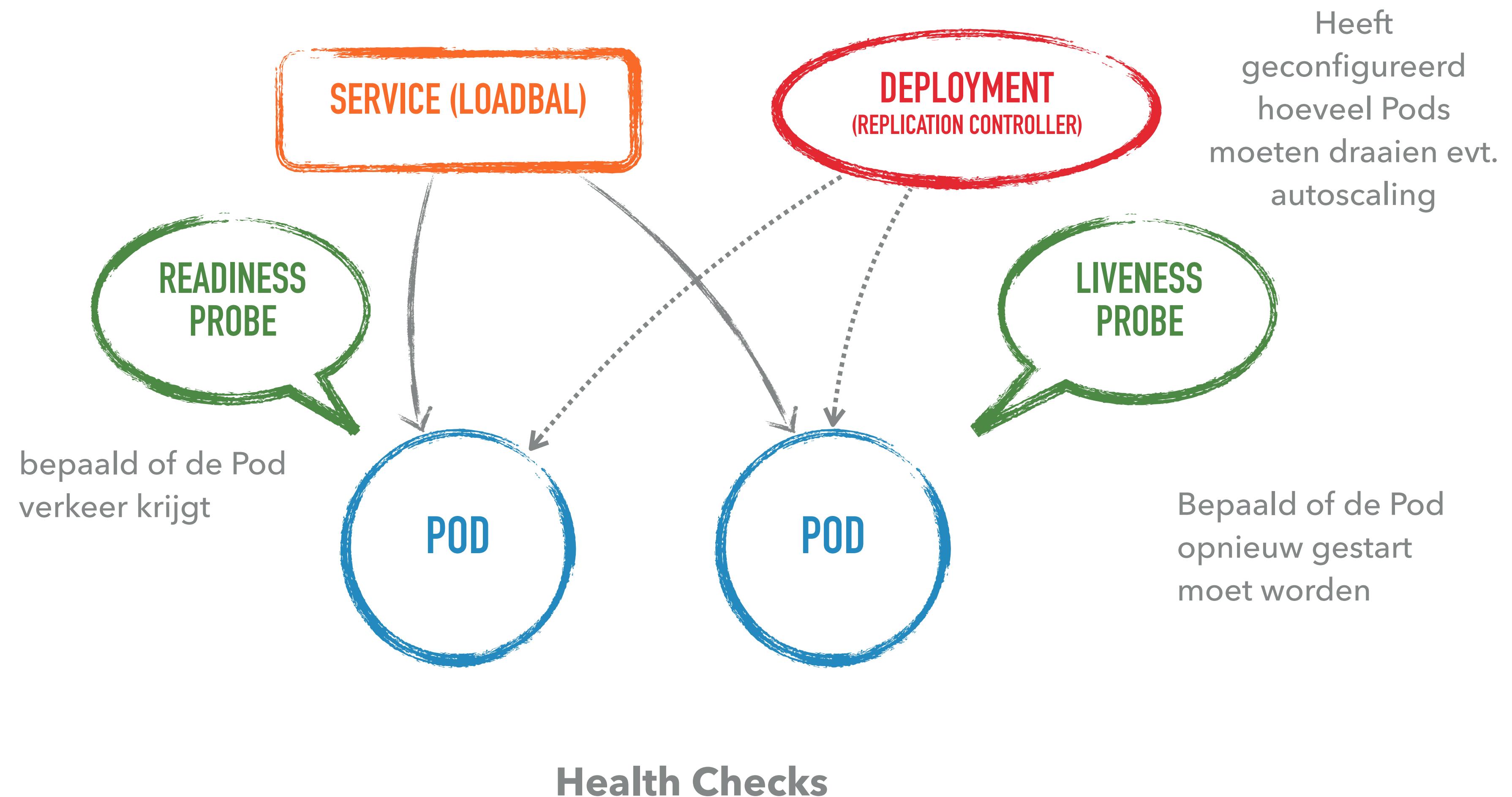


DEPLOYMENTCONFIG (DC)

CoolStore



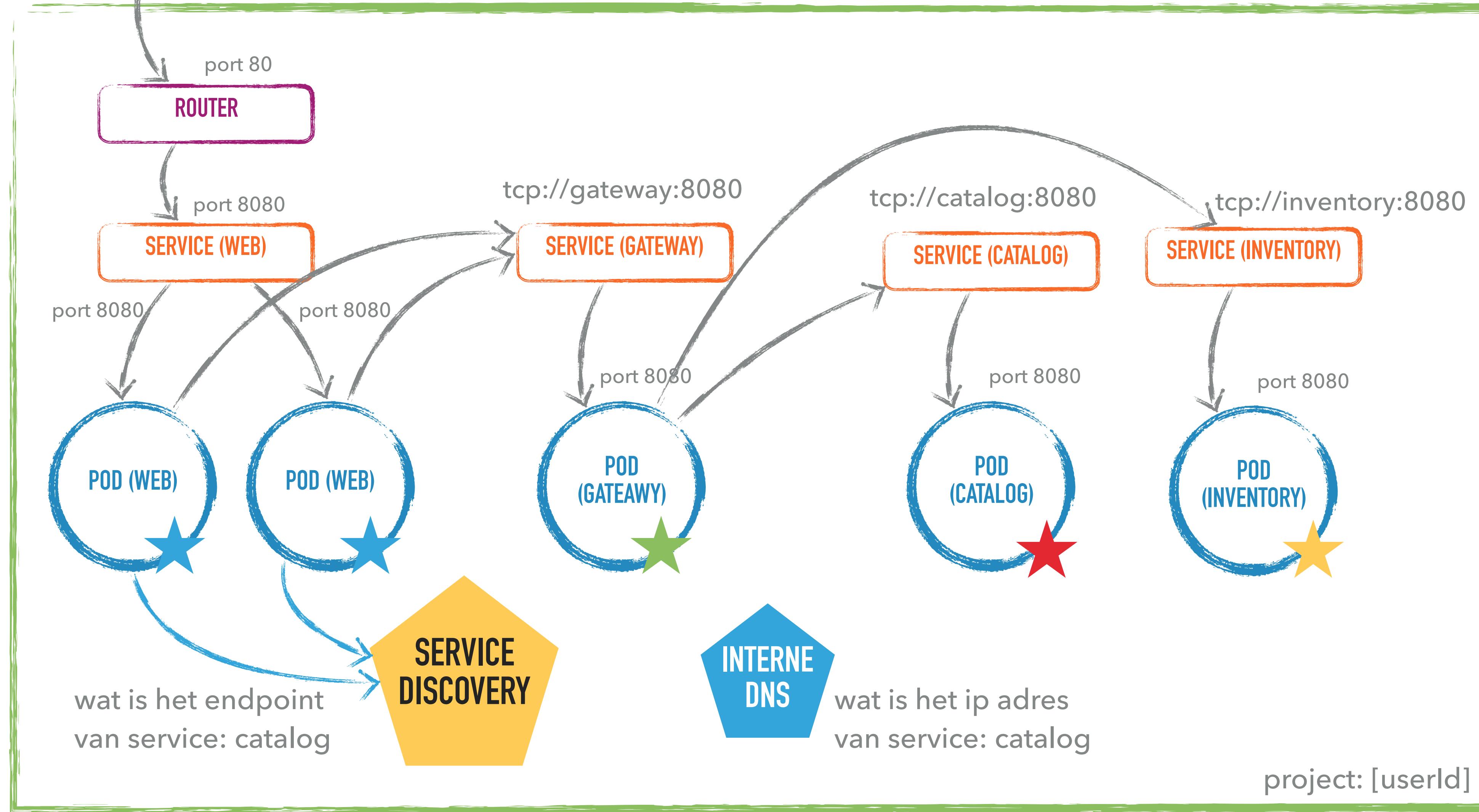
PROBES



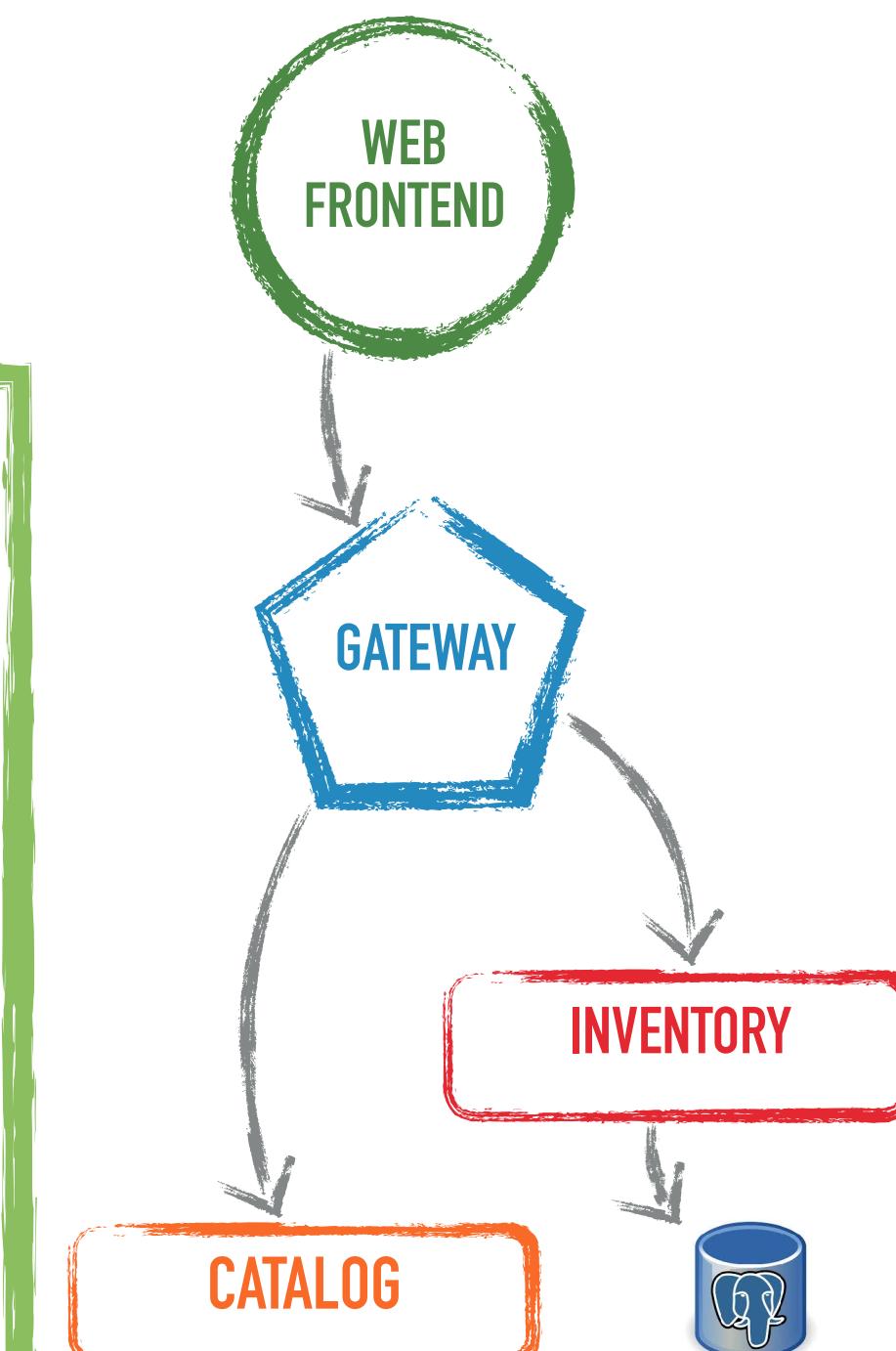
web-[project].cloudapps.belastingdienst.nl



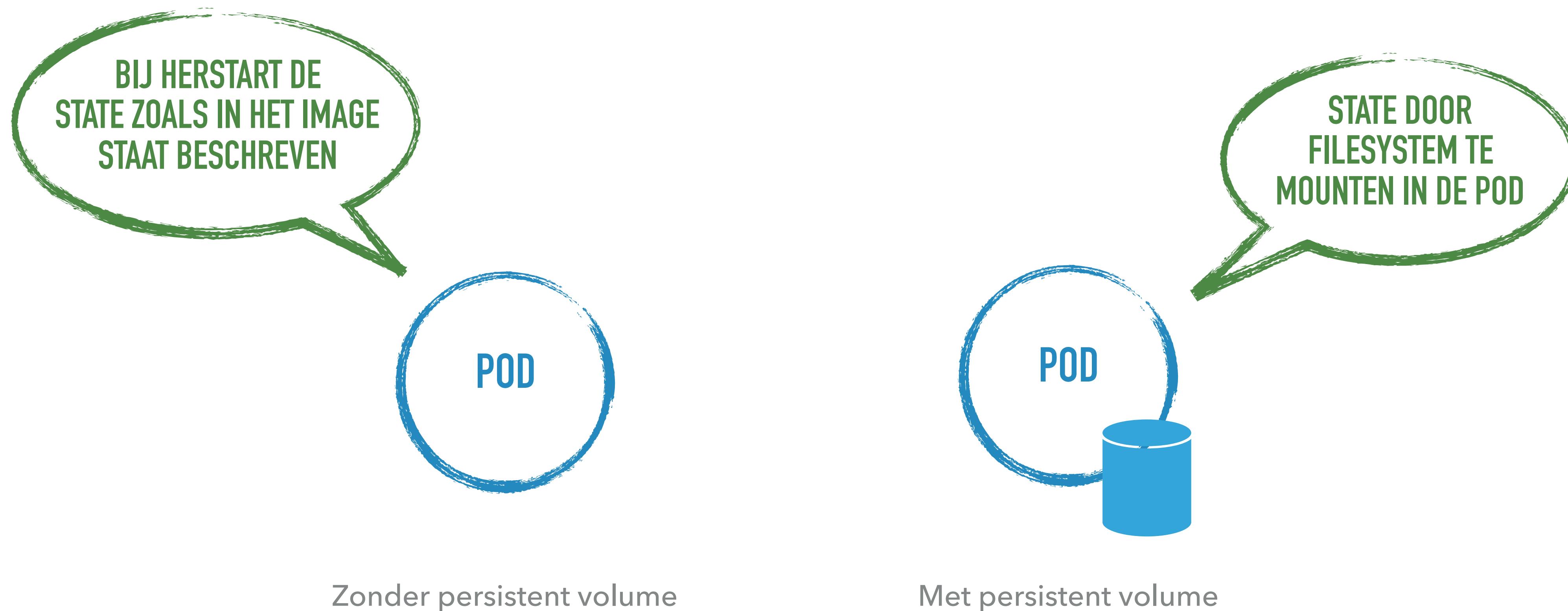
SERVICES (SVC)



CoolStore



STORAGE (PVC)





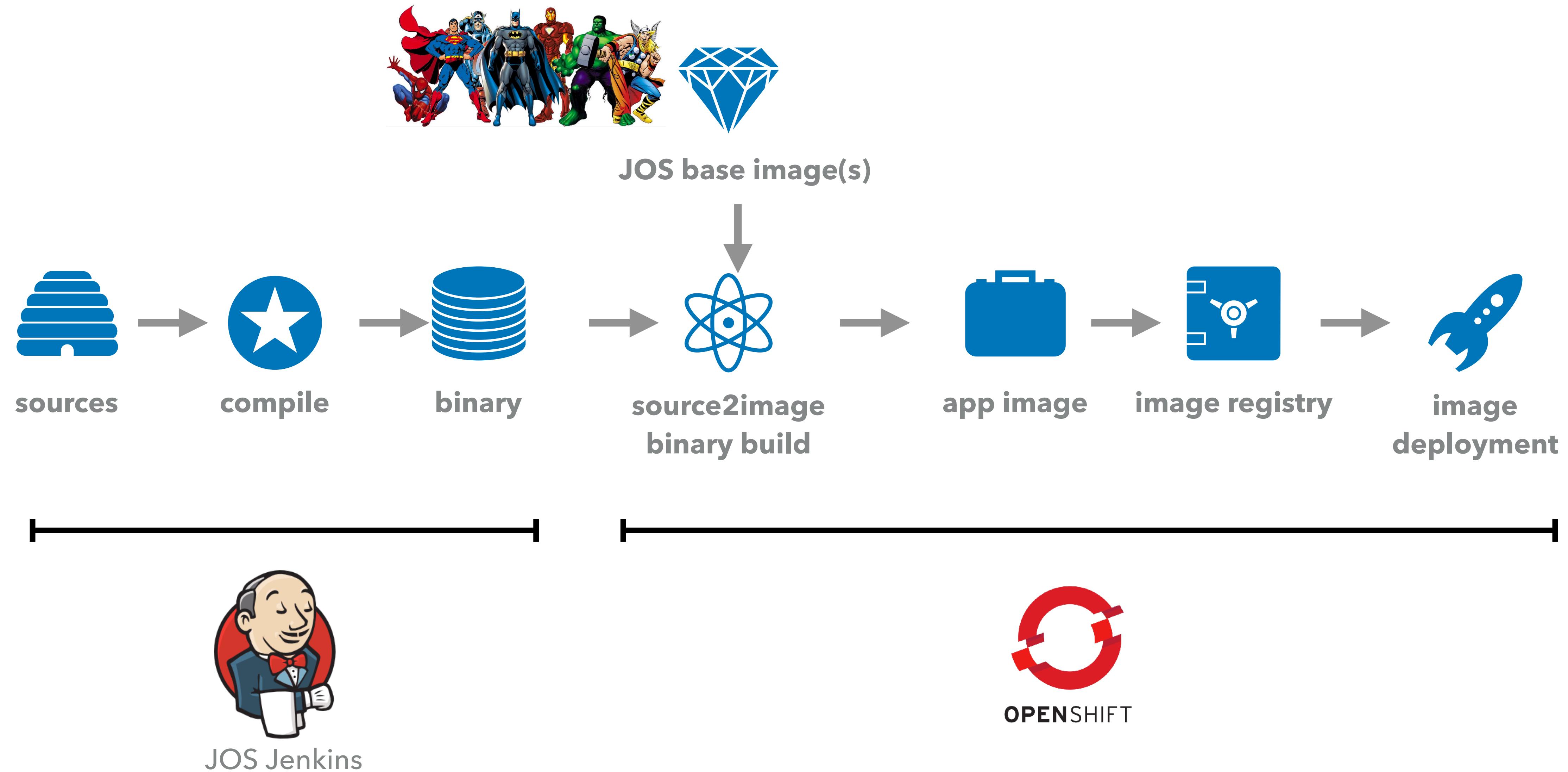
LAB1..8

Ready? Set? **GO!!!**

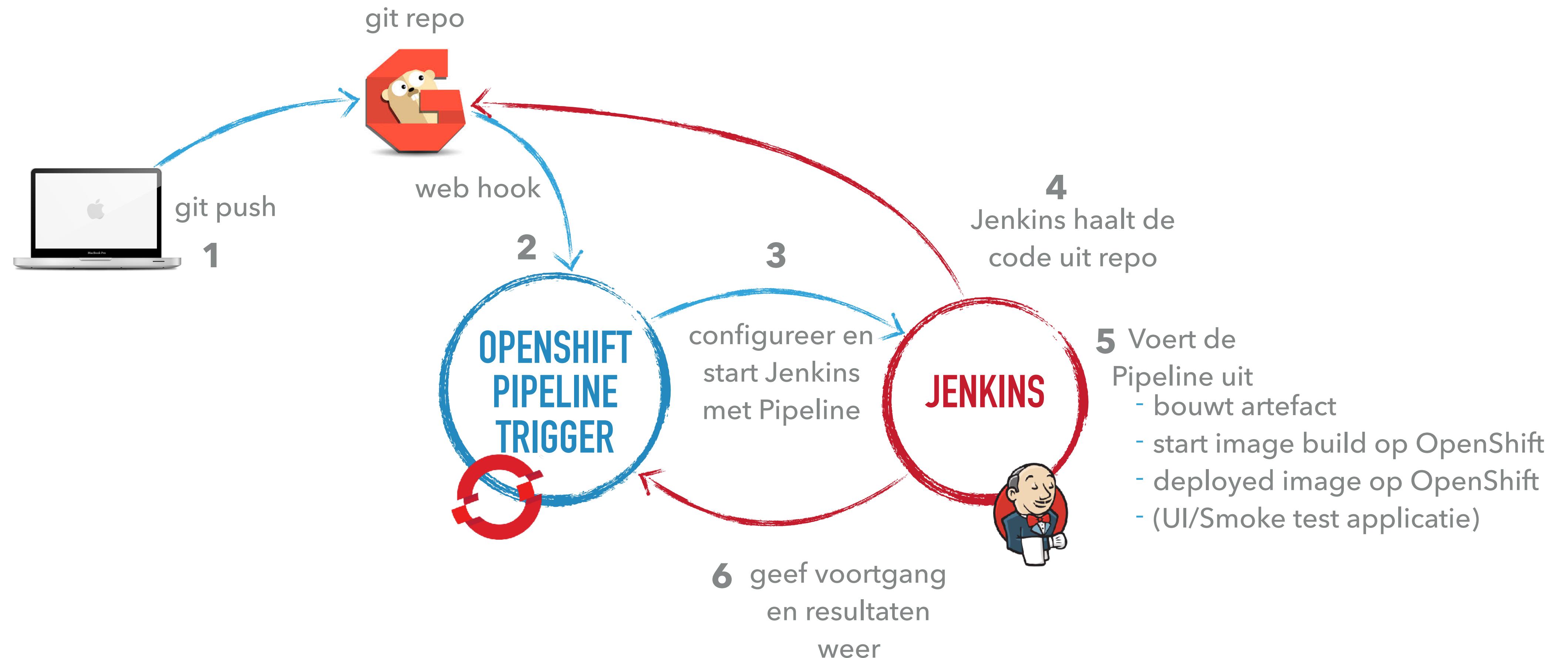
<http://bit.ly/30Cuvkc>

<https://github.com/jr00n/openshift-cloudnative-workshop/wiki>

App build with (JOS) Base Images



OPENSHIFT PIPELINE'S



SDP TOOLS voor een ontwikkelteam

