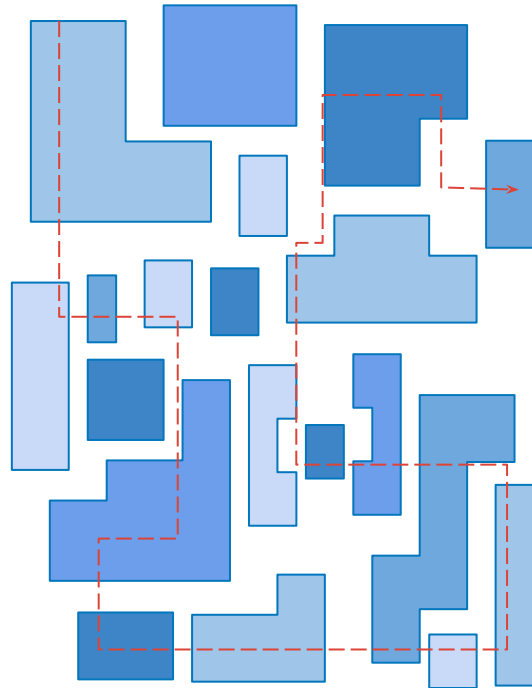
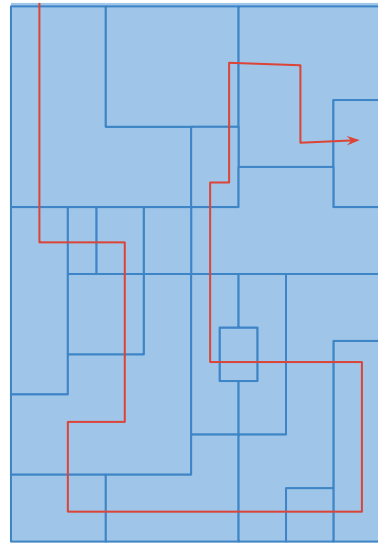


Kubernetes
@gianarb





Fast iteration

is

the

new

BLACK

Production-Grade Container Orchestration

Automated container deployment, scaling, and management

Try Our Interactive Tutorials

Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications.

It groups containers that make up an application into logical units for easy management and discovery. Kubernetes builds upon [15 years of experience of running production workloads at Google](#), combined with best-of-breed ideas and practices from the community.



“Production-Grade Container Orchestration”

“Automated container deployment, scaling, and management”

“Groups containers that make up an application **into logical units** for easy management and discovery”

“Planet Scale”

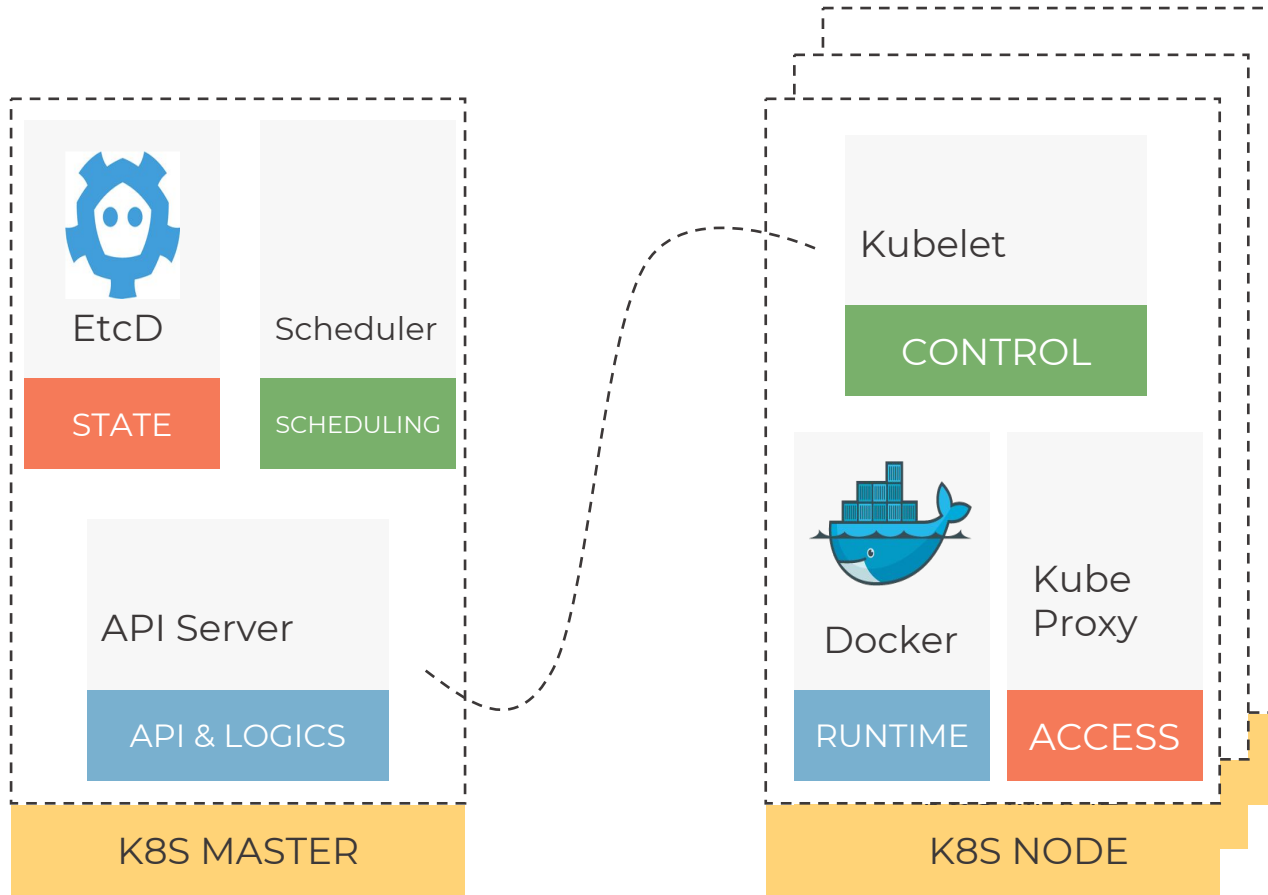
“Never Outgrow”

“Run Anywhere”

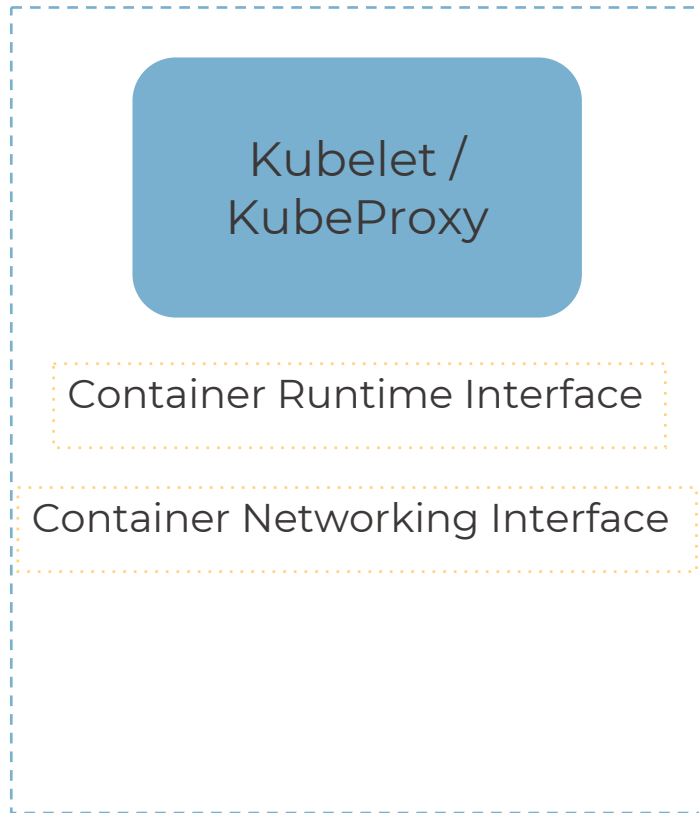
“Production-Grade Container Orchestration”

Container	ReplicationController	
DaemonSet	StatefulSet	Volume
Deployment	Ingress	PersistentVolumeClaim
Job	Service	PersistentVolume
Pod	ConfigMap	HorizontalPodAutoscaler
ReplicaSet	Secret	

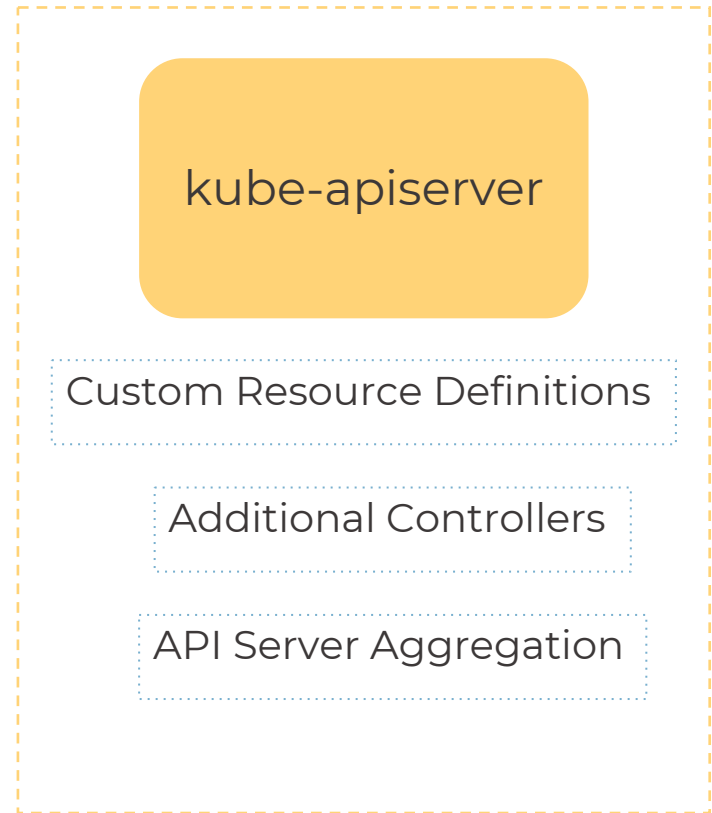
Beyond



Beyond

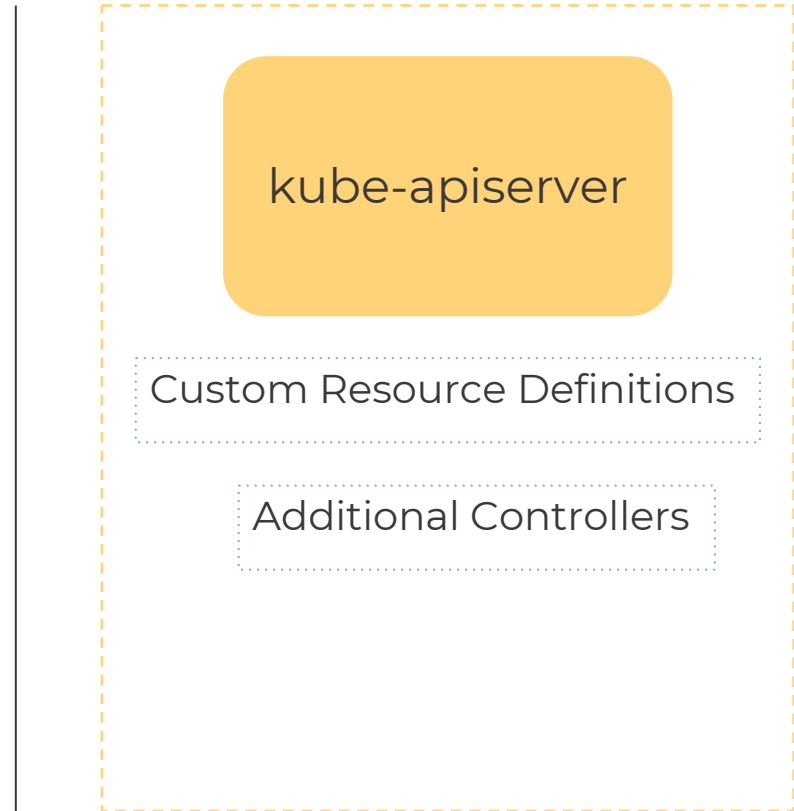


**South
Bound**

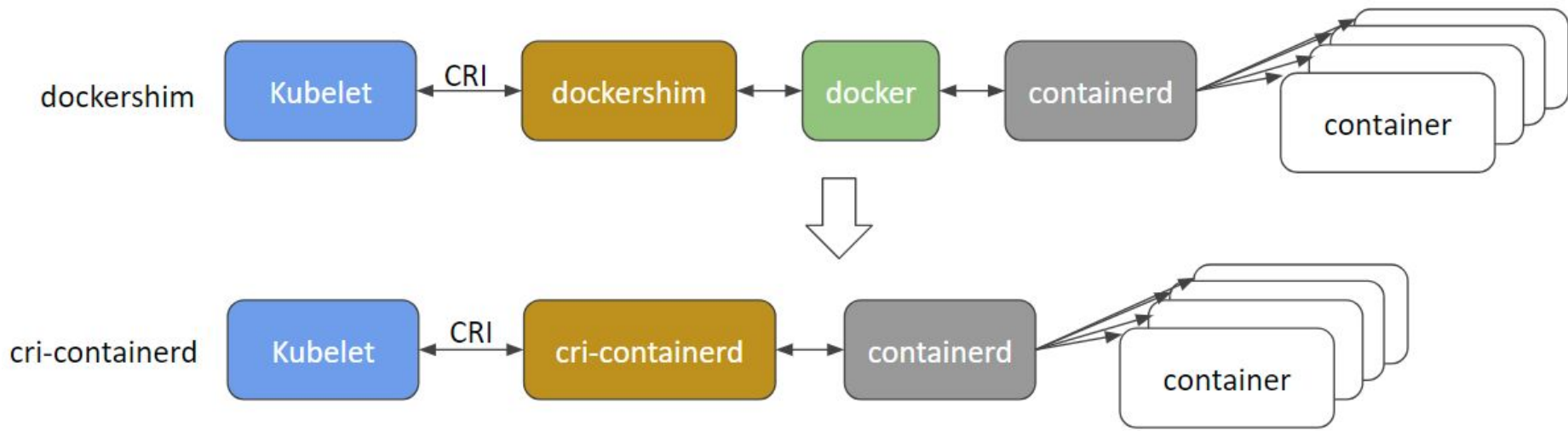


**North
Bound**

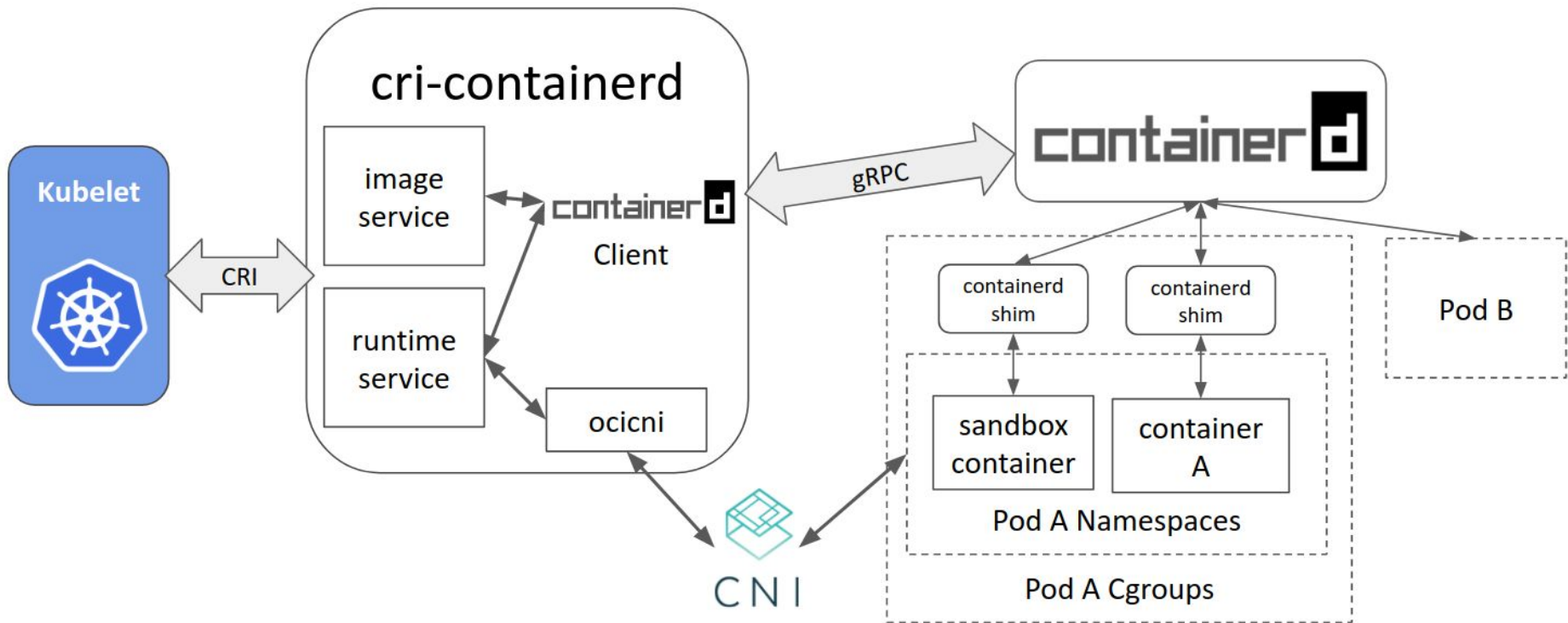
Beyond



**North
Bound**



<http://blog.kubernetes.io/2016/12/container-runtime-interface-cri-in-kubernetes.html>





end of the game

Thanks and credits

- *CNCF - Cloud Native Foundation*
- *Andrea Tosatto* (ho “rubato” in prestito alcune slides)

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Links

- <https://kubernetes.io/>
- <https://amzn.to/2zflChj>
- <https://github.com/kelseyhightower/kubernetes-the-hard-way>
- <http://cri-o.io>
- <https://thenewstack.io/containerd-1-0-release/>
- <https://kubernetes.io/docs/tutorials/stateless-application/guestbook>
- <https://docs.docker.com/docker-for-mac/>
- <https://kubernetes.io/docs/tasks/tools/install-minikube/>