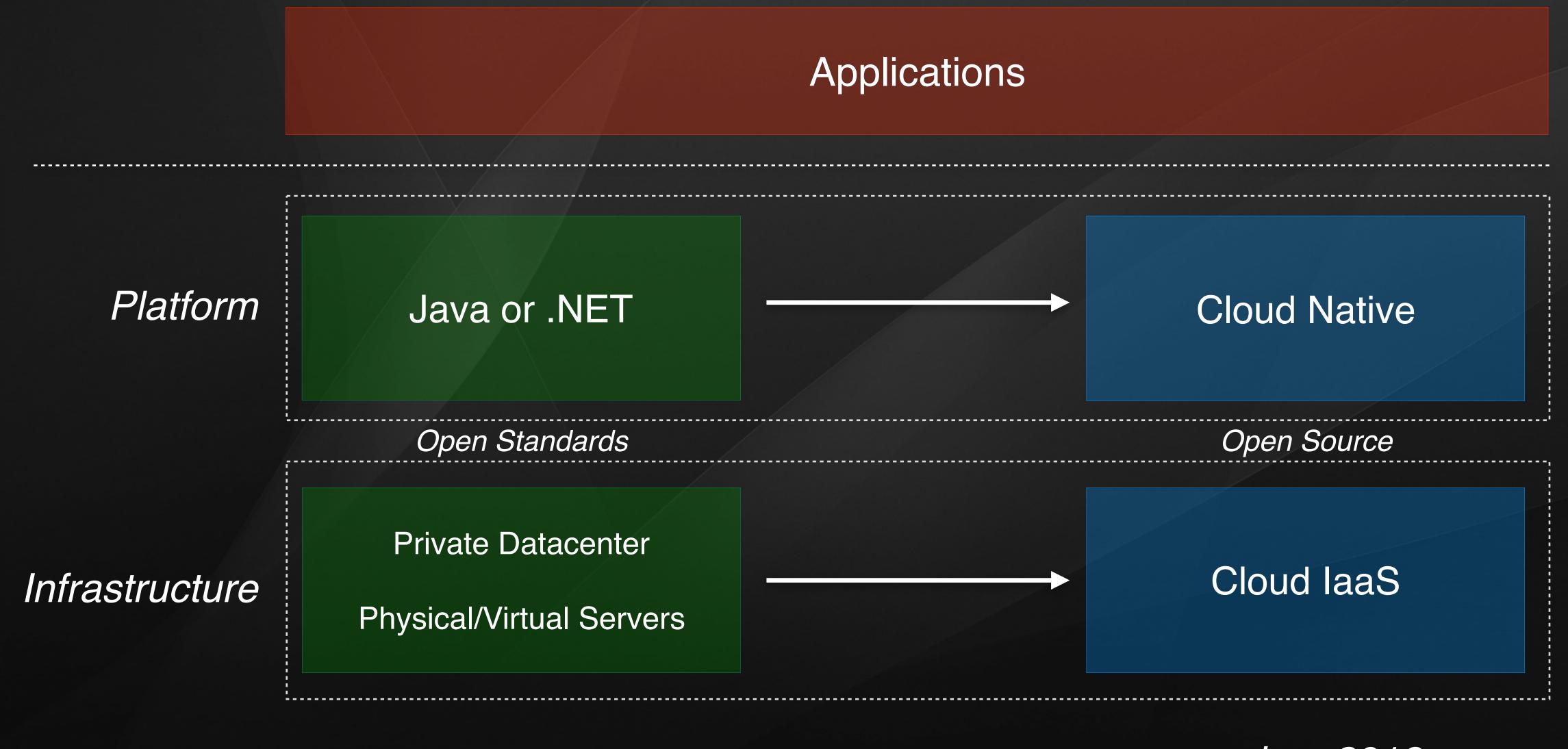


Evolution of the App Platform

circa 1998



circa 2018

Tradeoffs in app design

Application Requirements

Stateful & Stateless

Events & Requests

Simple & Flexible

3 Stacks for 3 Styles

12-Factor Apps



Cloud Foundry + others Functions



OpenWhisk + many others

Containers

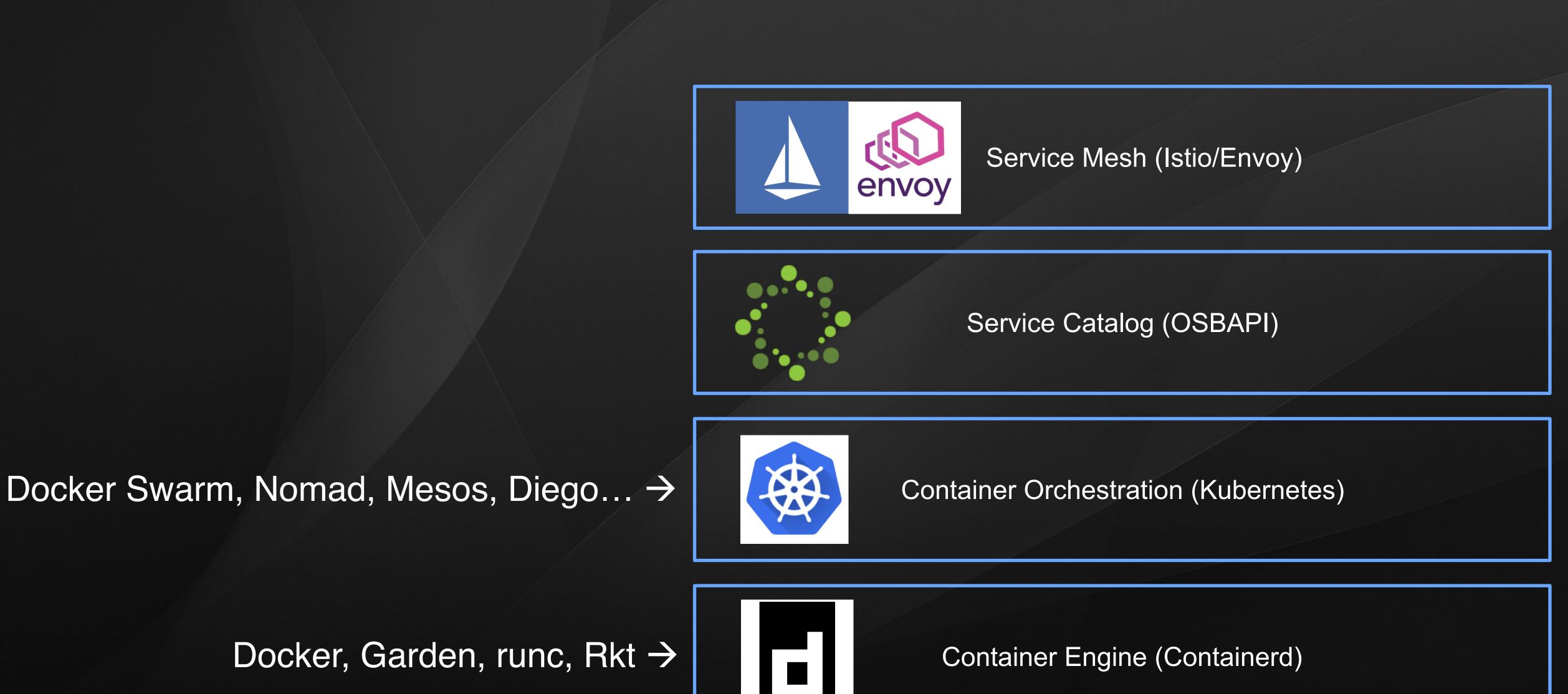


Kubernetes

Container Runtime



Common elements in the stack



What about apps and functions?

Cloud Foundry for apps



Service Broker

Cloud Foundry

Go Router

CAPI

Diego

Garden-linux

BOSH

Aligned on container engine

Service broker pioneer became OSBAPI

Evolving to come closer to Kubernetes and Istio

OG Cloud Foundry

Cloud Foundry for apps



Service Broker

Cloud Foundry

Go Router

Service Broker

Cloud Foundry

Go Router

Diego

CAPI

Garden-linux

BOSH

OG Cloud Foundry

Diego

CAPI

Garden-runC

Kubernetes

Cloud Foundry on Kube

Service Broker

Cloud Foundry

Istio-based Go Router

CAPI

Eirini

Kubernetes

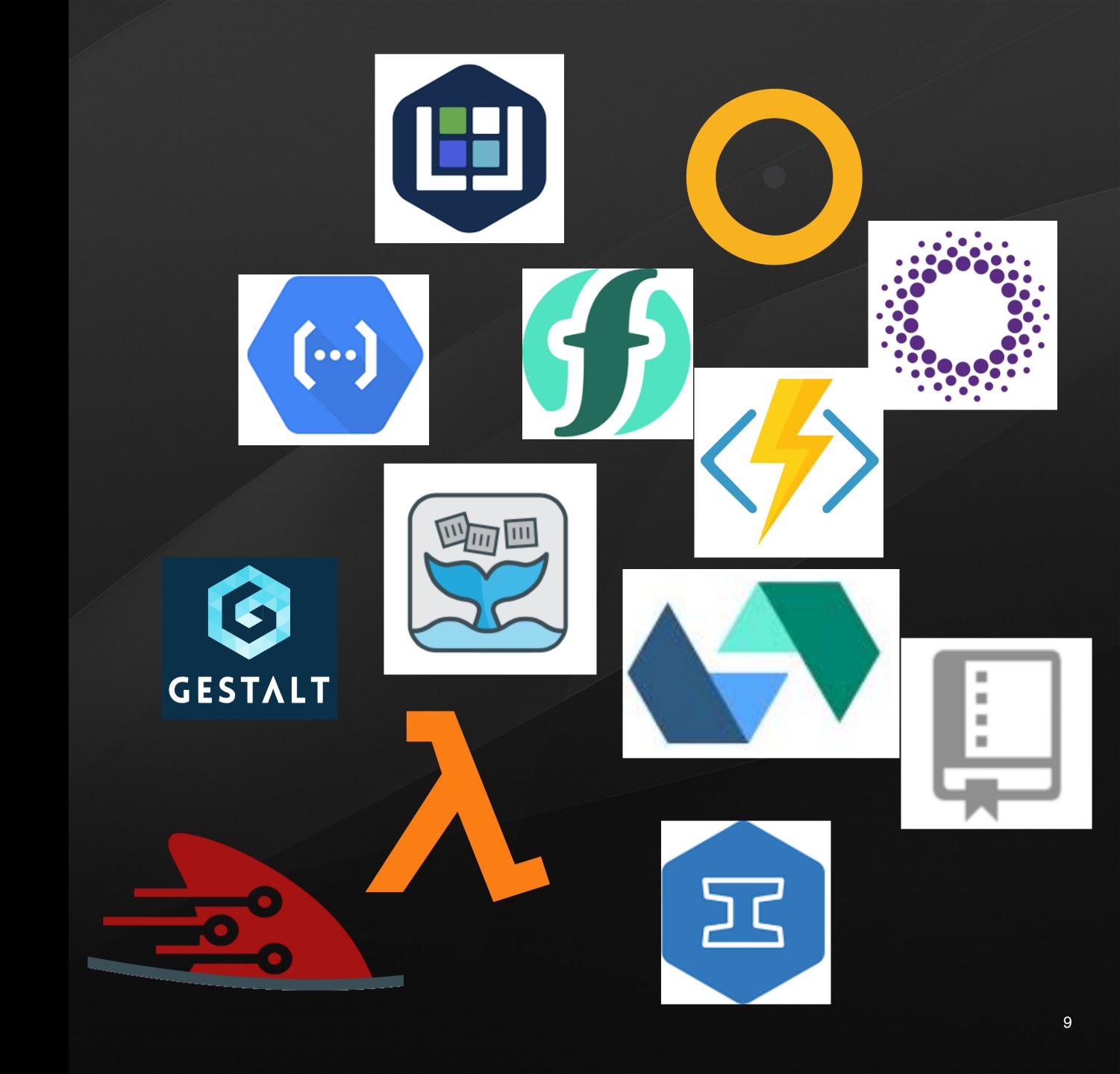
containerD

Cloud Foundry in Kube

Functions landscape

Many products and projects

Some aligned with Kubernetes - some not



Knative

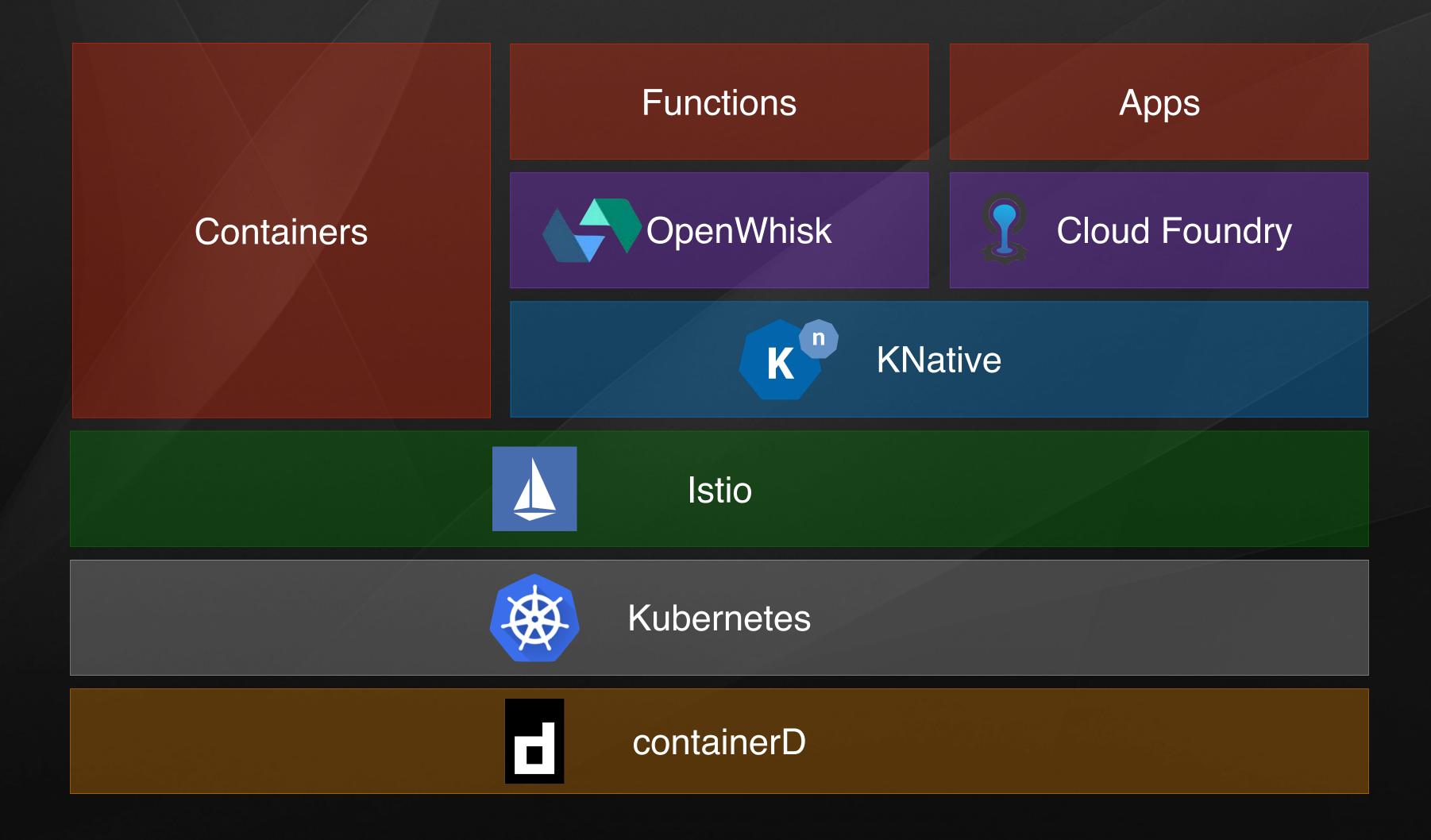
Build

Eventing

Serving



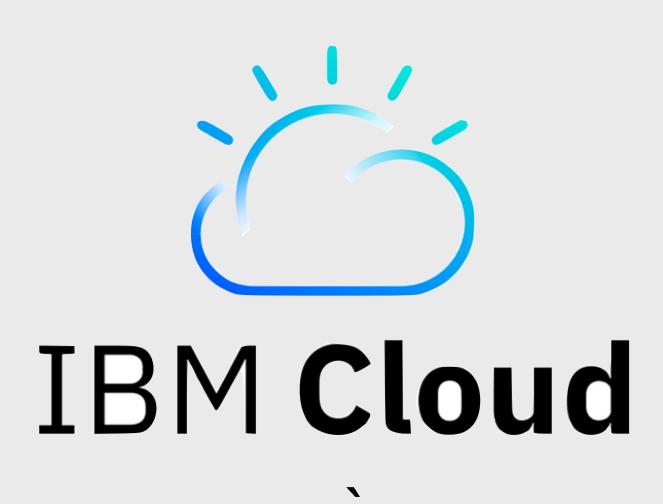
Unified Platform for containers, apps, and functions



Kubernetes: the core of IBM Cloud

Cloud Foundry Enterprise Environment	Event Streams	Watson Al	IBM Cloud Database	DashDB Warehouse	Cloud Console BSS	IAM	Security - Key Protect CertManager AppID	Cloud Functions	Weather Company	Blockchain	Log Analysis with LogDNA	Monitoring with Sysdig

IBM Cloud Kubernetes Service





IBM Cloud Kubernetes Service



IBM Cloud Functions



IBM CloudFoundry



IBM Cloud Private

Give it a try today: http://ibm.biz/knative

cloud.ibm.com

Thank you

Jason McGee IBM Fellow, VP and CTO IBM Cloud Platform

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