Welcome to the Commons: Collaboration in Action

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Co-Host sponsor
IBM Cloud

The Search for Connections Across the OpenShift Ecosystem

(Kubecon/NA Edition)

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@pythondj

November 18th, 2019 - OpenShift Commons Gathering - San Diego

Facial Recognition

https://commons.openshift.org/gatherings/San_Diego_2019.html

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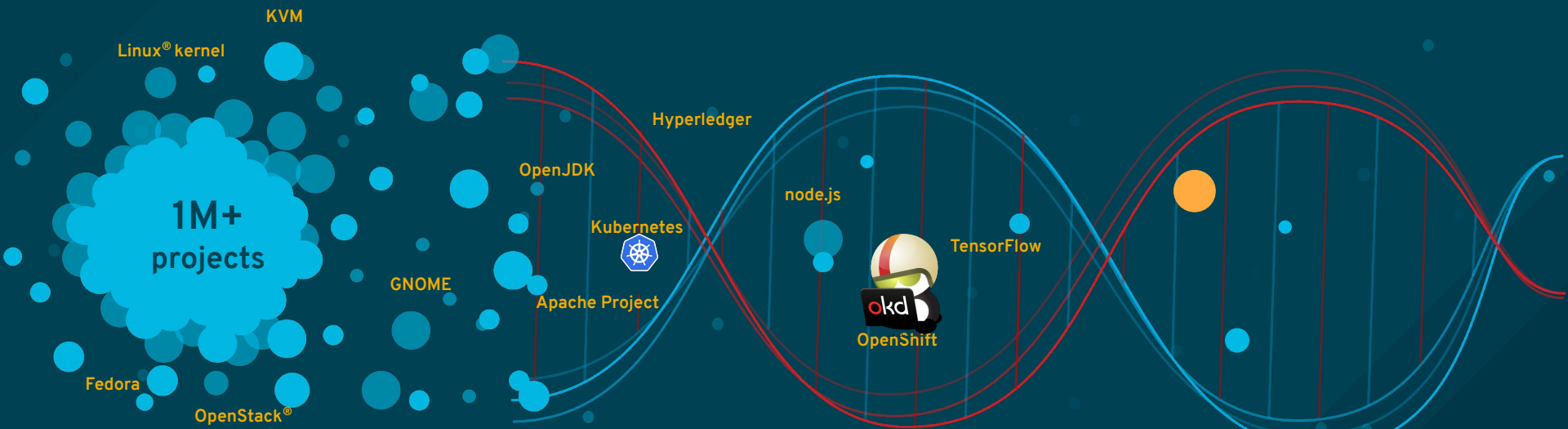
OPEN SOURCE
OPEN COMMUNITIES
OPEN COLLABORATION

making connections that drive continuous innovation

redhat.

OPEN SOURCE IS THE SOURCE

OF TECHNOLOGICAL INNOVATION



96M* REPOSITORIES
31M* DEVELOPERS
2.1M* BUSINESSES

*GitHub Oct 2018

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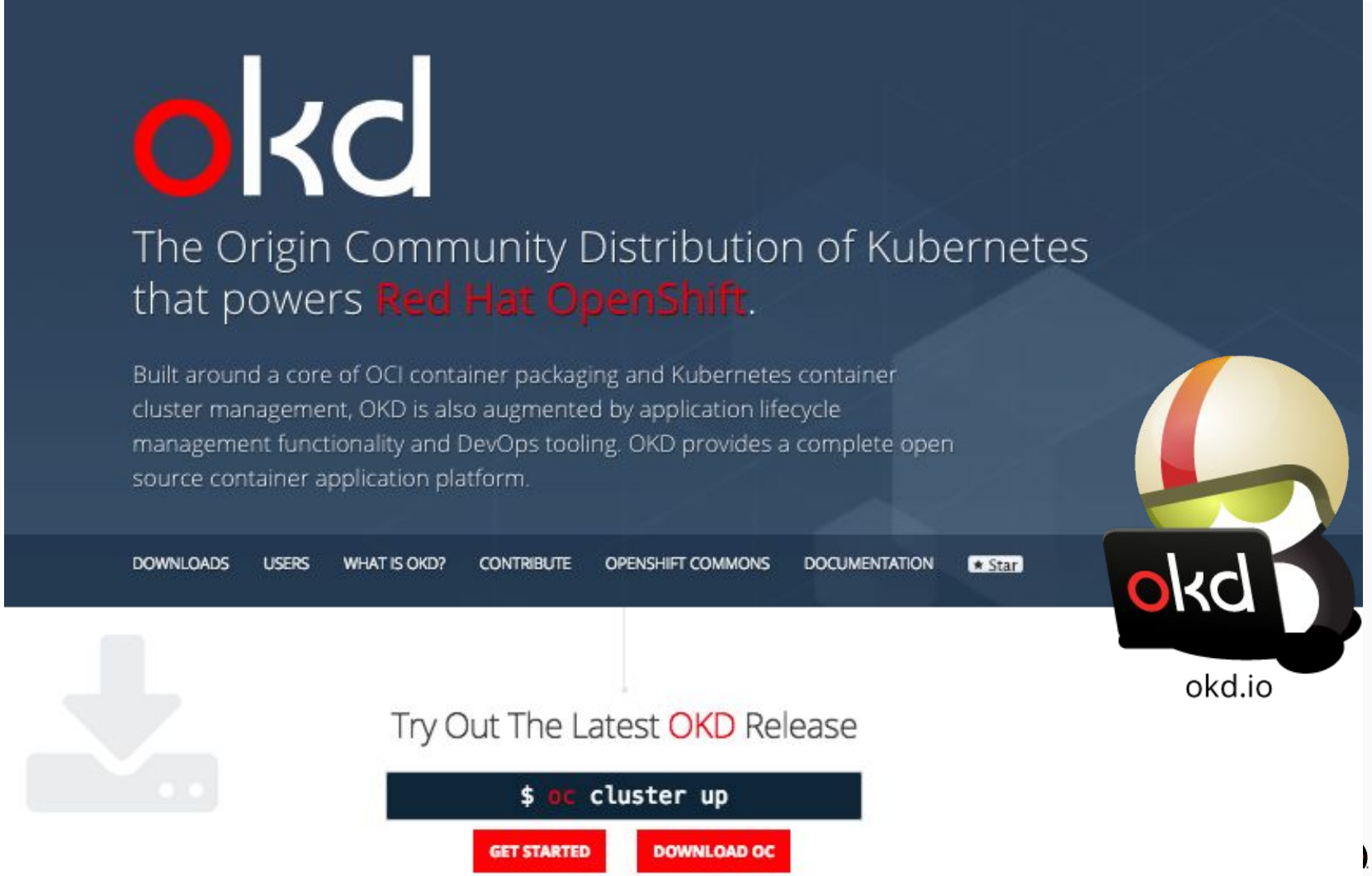
okd
The Origin Community Distribution of Kubernetes that powers Red Hat OpenShift.
Built around a core of OCI container packaging and Kubernetes container cluster management, OKD is also augmented by application lifecycle management functionality and DevOps tooling. OKD provides a complete open source container application platform.
DOWNLOADS
USERS
WHAT IS OKD?
CONTRIBUTE
OPENSHIFT COMMONS
DOCUMENTATION
Star
okd
okd.io
Try Out The Latest OKD Release
$ oc cluster up
GET STARTED
DOWNLOAD OC

OKD = f(Kubernetes++)

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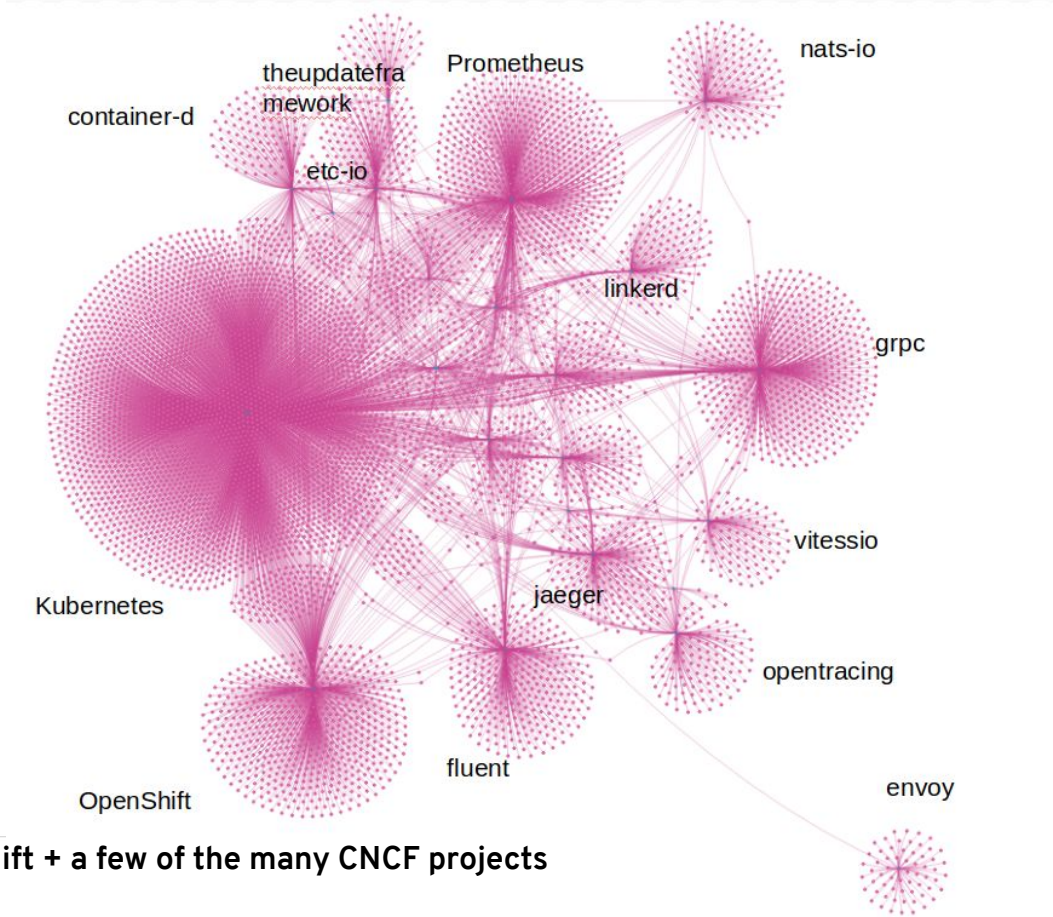
The health of an open source community is most accurately measured by the connections with members of other upstream and downstream projects' communities within its ecosystem.
- From Art to Science: The Evolution of Community Development (2019)
Red Hat
okd
okd.io

It’s All About Creating Connections



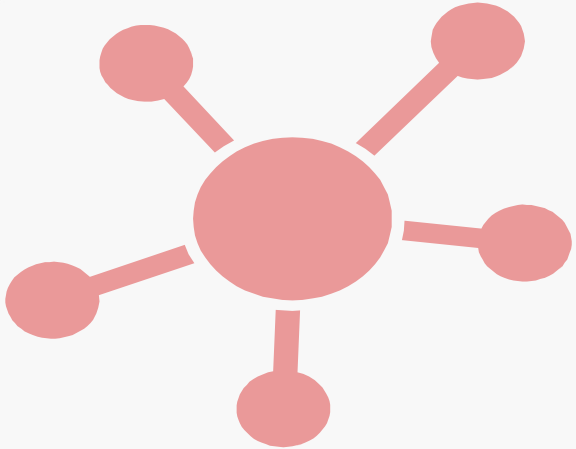
Kubernetes + OpenShift + a few of the many CNCF projects

okd.io

Connected Communities foster Cross-Community Collaboration

https://commons.openshift.org/#join

New Community Models



530+ Member Organizations

Promote Peer-to-Peer Interactions

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CNCF Cloud Native Interactive Landscape

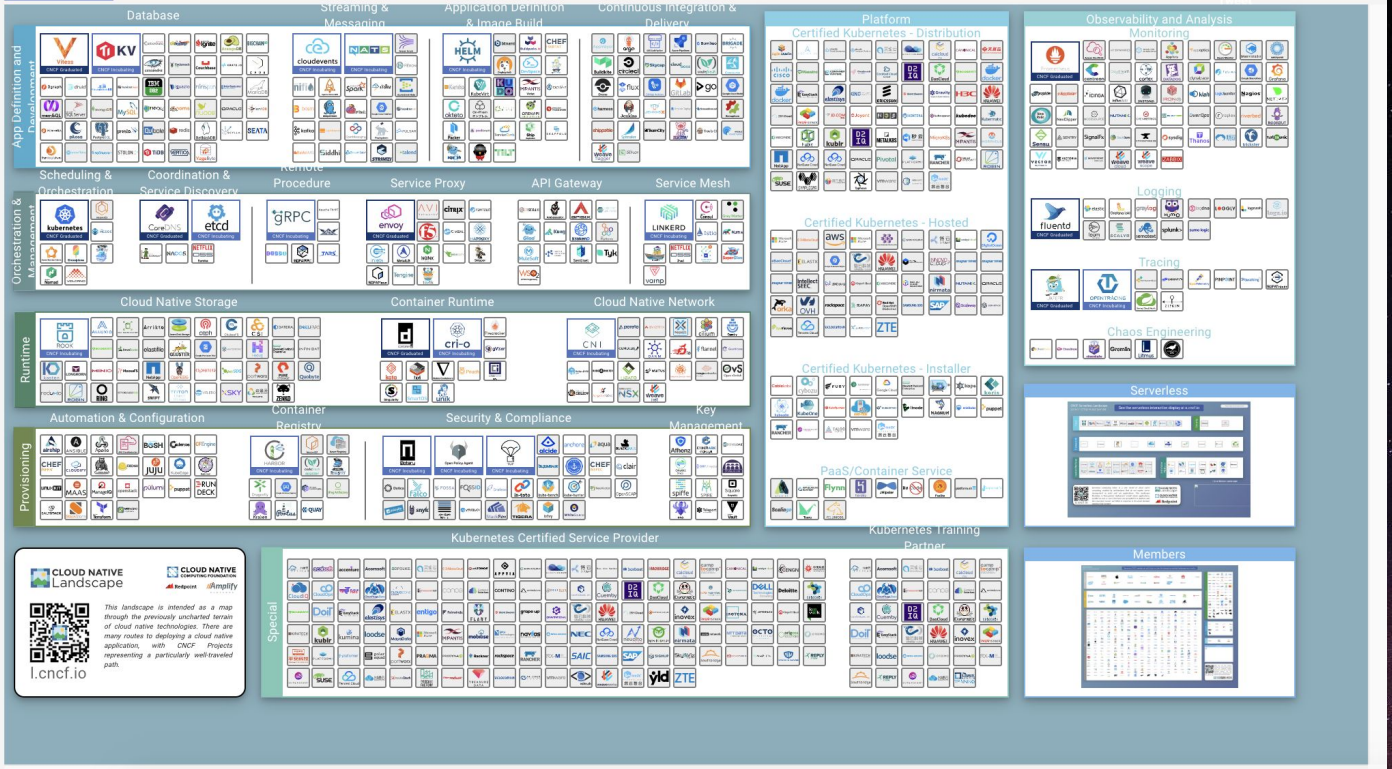
CLOUD NATIVE COMPUTING FOUNDATION

The Cloud Native Trail Map (png, pdf) is CNCF's recommended path through the cloud native landscape. The cloud native landscape (png, pdf), serverless landscape (png, pdf), and member landscape (png, pdf) are dynamically generated below. Please open a pull request to correct any issues. Greyed logos are not open source. Last Updated: 2019-11-17 03:42:15Z

You are viewing 1,275 cards with a total of 1,919,568 stars, market cap of $14.45T and funding of $63.28B.

Landscape | Card Mode | Serverless | Members

100%



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Fun Fact: 300,000 Species Remain Undiscovered

With a current species list hovering at around 2000, there are more undiscovered jellies than there are discovered. It has been speculated that there could be as many as 300,000 species yet to be seen by humans.

https://www.thedailyresearch.com/jellyfish-facts/

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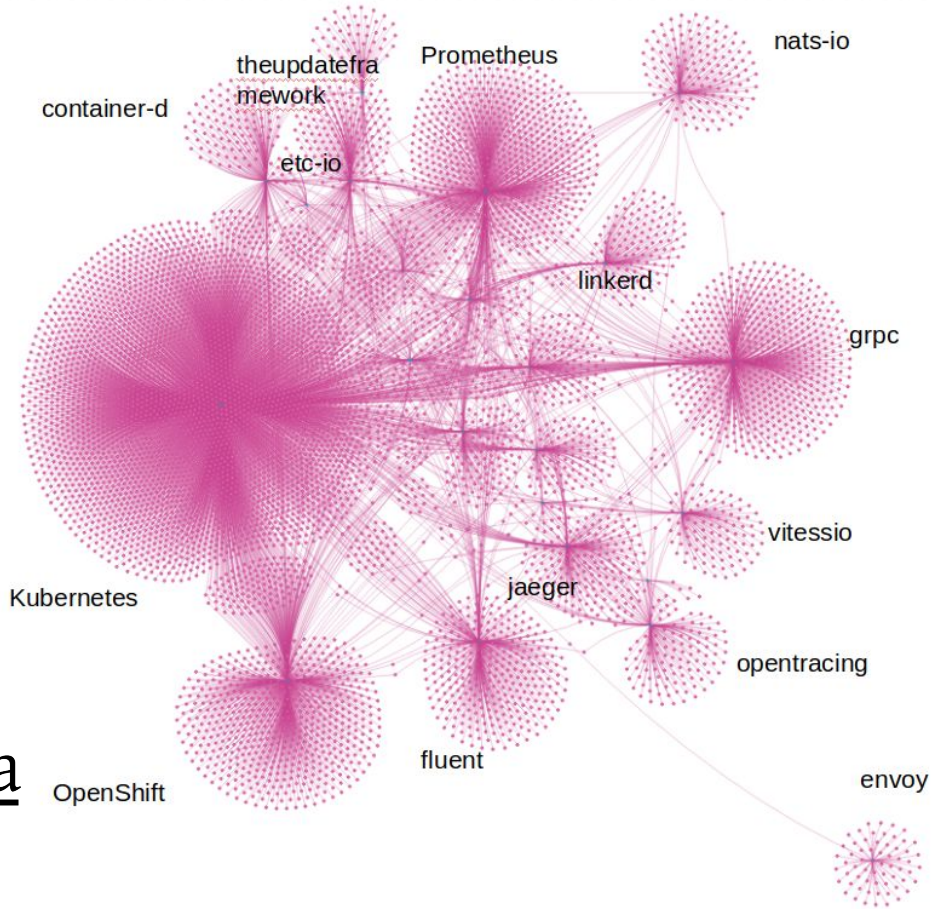
CNCF projects + OpenShift



Bitergia

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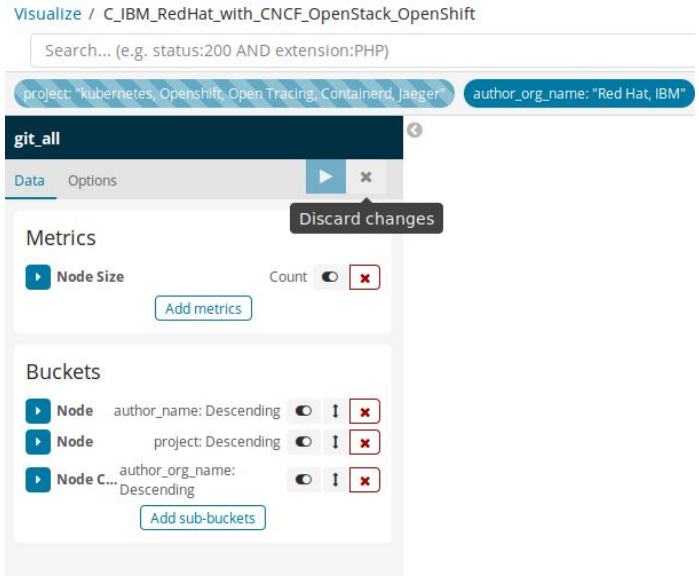
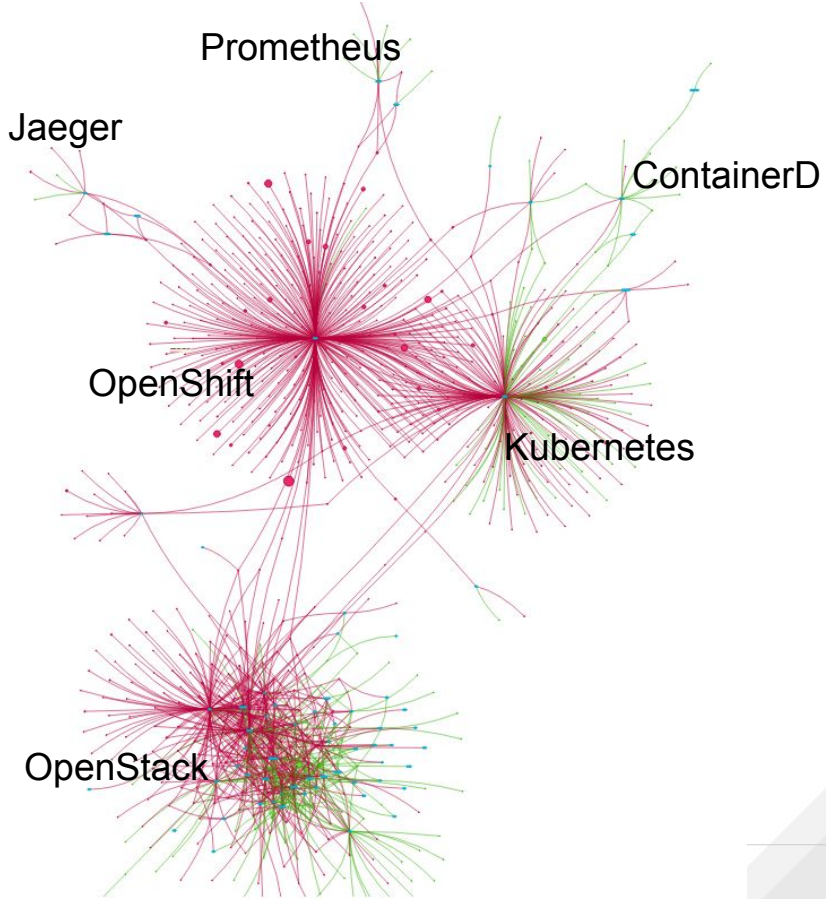
Inter-Corporate Relationships: Red Hat / IBM





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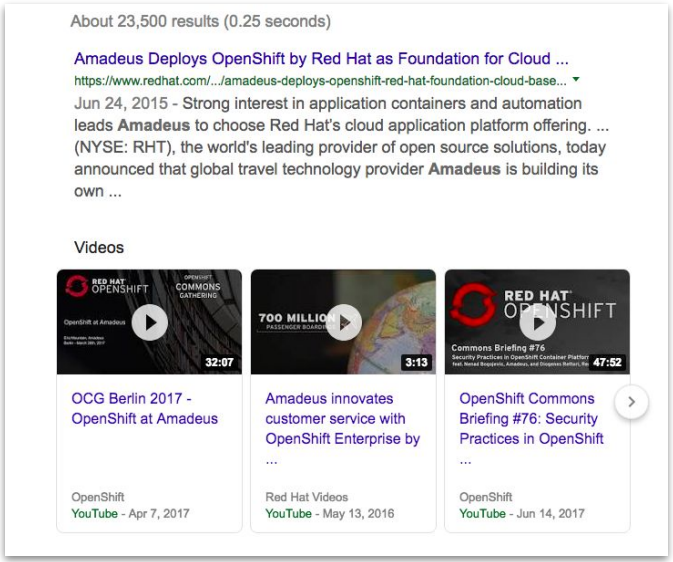
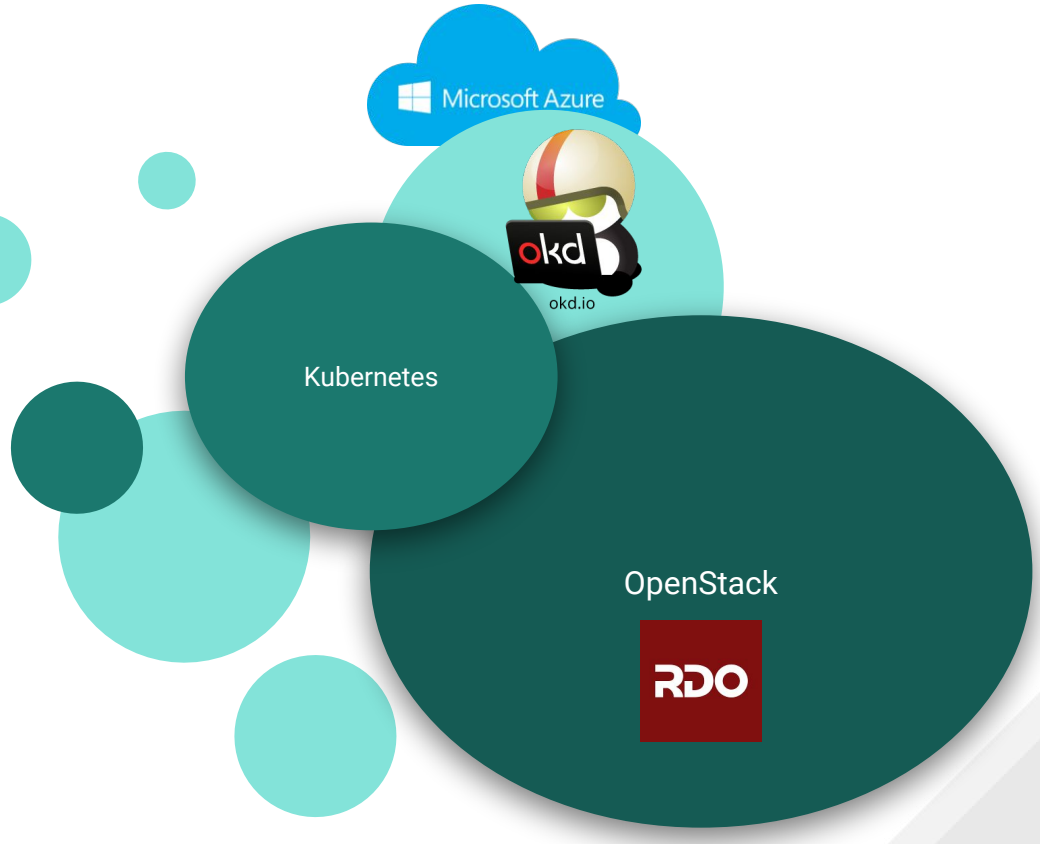
Corporate Persona: Amadeus

amadeus





How they show up: Kubernetes, OKD, OCP on Azure, OCP on OpenStack

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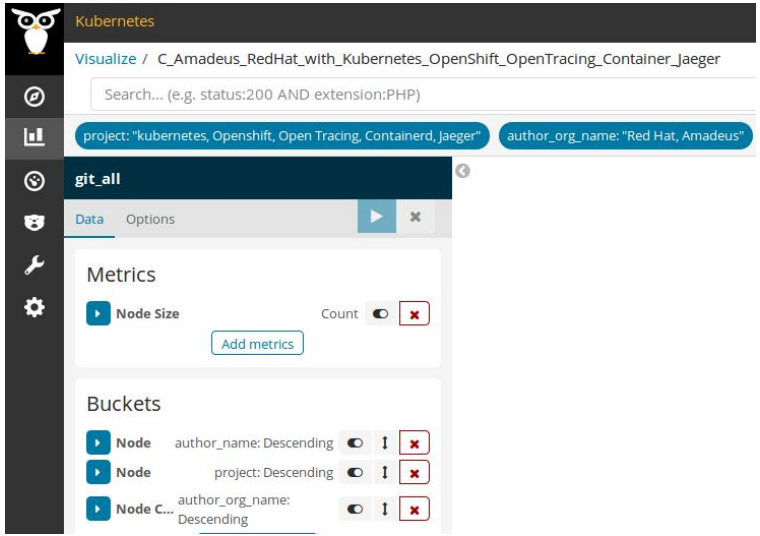
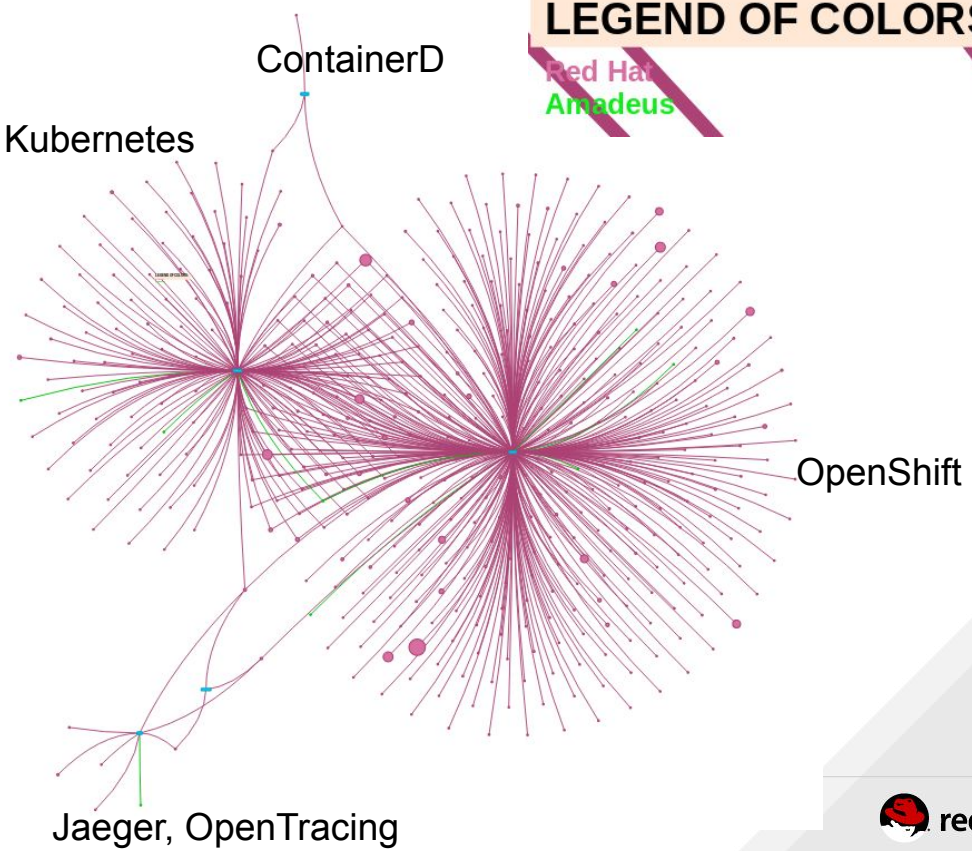
Corporate Persona: Amadeus





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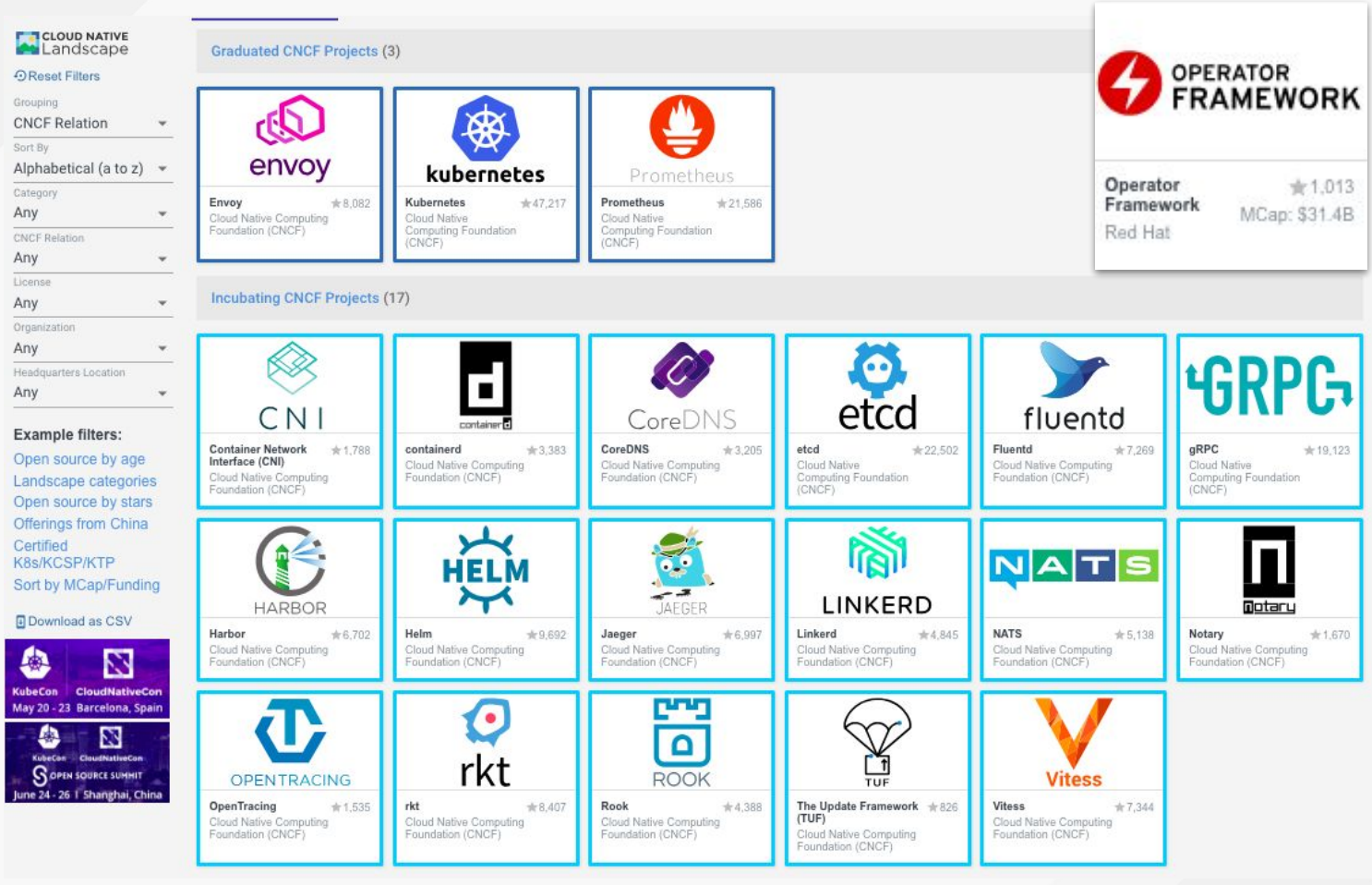
CLOUD NATIVE Landscape
Reset Filters
Grouping
CNCF Relation
Sort By
Alphabetical (a to z)
Category
Any
CNCF Relation
Any
License
Any
Organization
Any
Headquarters Location
Any
Example filters:
Open source by age
Landscape categories
Open source by stars
Offerings from China
Certified K8s/KCSP/KTP
Sort by MCap/Funding
Download as CSV
KubeCon CloudNativeCon May 20 - 23 Barcelona, Spain
KubeCon CloudNativeCon OPEN SOURCE SUMMIT June 24 - 26 Shanghai, China
Graduated CNCF Projects (3)
envoy
Envoy ★8,082
Cloud Native Computing Foundation (CNCF)
kubernetes
Kubernetes ★47,217
Cloud Native Computing Foundation (CNCF)
Prometheus
Prometheus ★21,586
Cloud Native Computing Foundation (CNCF)
OPERATOR FRAMEWORK
Operator Framework ★1,013
MCap: $31.4B
Red Hat
Incubating CNCF Projects (17)
CNI
Container Network Interface (CNI) ★1,788
Cloud Native Computing Foundation (CNCF)
containerd
containerd ★3,383
Cloud Native Computing Foundation (CNCF)
CoreDNS
CoreDNS ★3,205
Cloud Native Computing Foundation (CNCF)
etcd
etcd ★22,502
Cloud Native Computing Foundation (CNCF)
fluentd
Fluentd ★7,269
Cloud Native Computing Foundation (CNCF)
GRPC
gRPC ★19,123
Cloud Native Computing Foundation (CNCF)
HARBOR
Harbor ★6,702
Cloud Native Computing Foundation (CNCF)
HELM
Helm ★9,692
Cloud Native Computing Foundation (CNCF)
JAEGER
Jaeger ★6,997
Cloud Native Computing Foundation (CNCF)
LINKERD
Linkerd ★4,845
Cloud Native Computing Foundation (CNCF)
NATS
NATS ★5,138
Cloud Native Computing Foundation (CNCF)
notary
Notary ★1,670
Cloud Native Computing Foundation (CNCF)
OPENTRACING
OpenTracing ★1,535
Cloud Native Computing Foundation (CNCF)
rkt
rkt ★8,407
Cloud Native Computing Foundation (CNCF)
ROOK
Rook ★4,388
Cloud Native Computing Foundation (CNCF)
TUF
The Update Framework (TUF) ★826
Cloud Native Computing Foundation (CNCF)
Vitess
Vitess ★7,344
Cloud Native Computing Foundation (CNCF)

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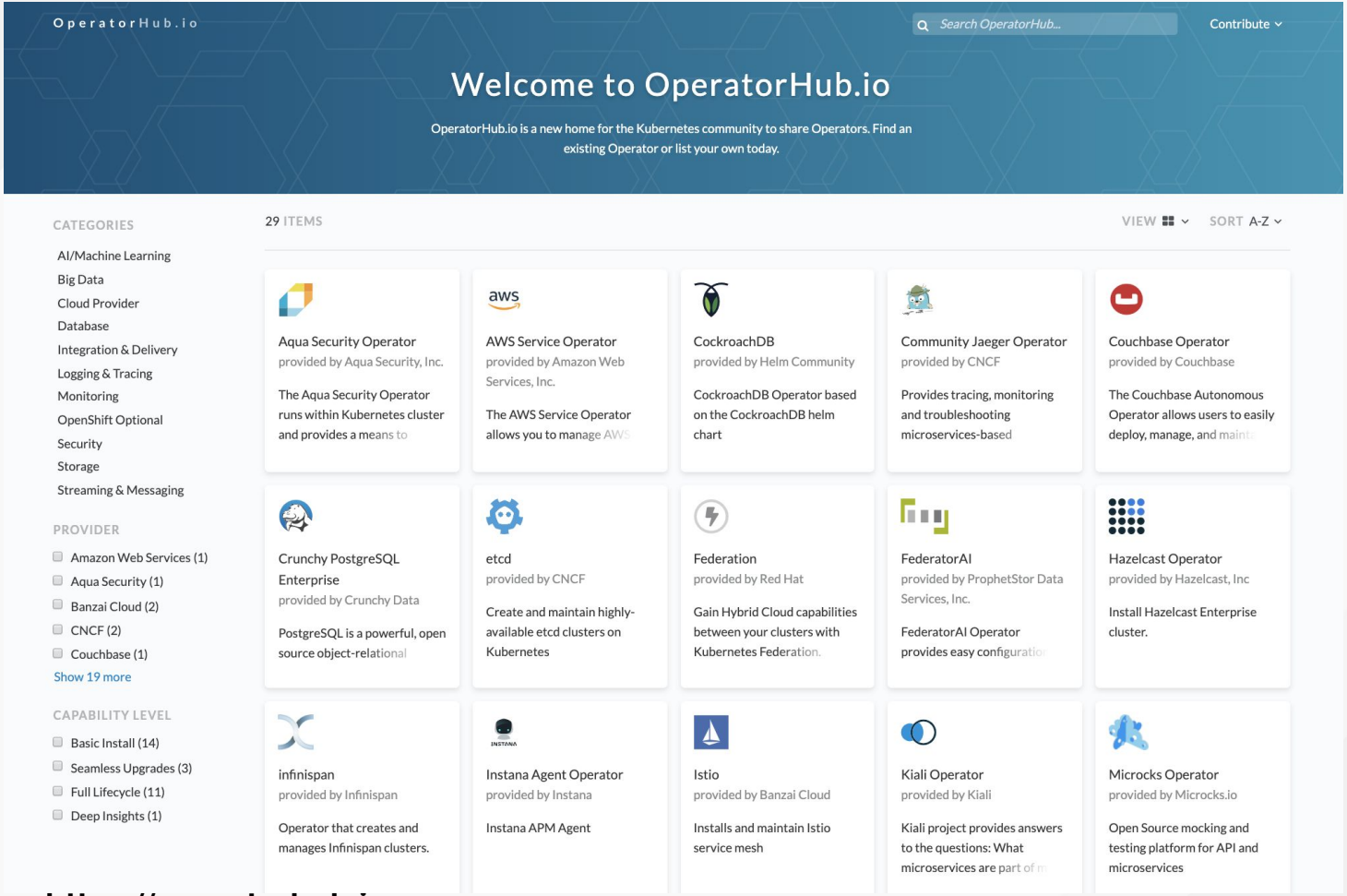

https://operatorhub.io

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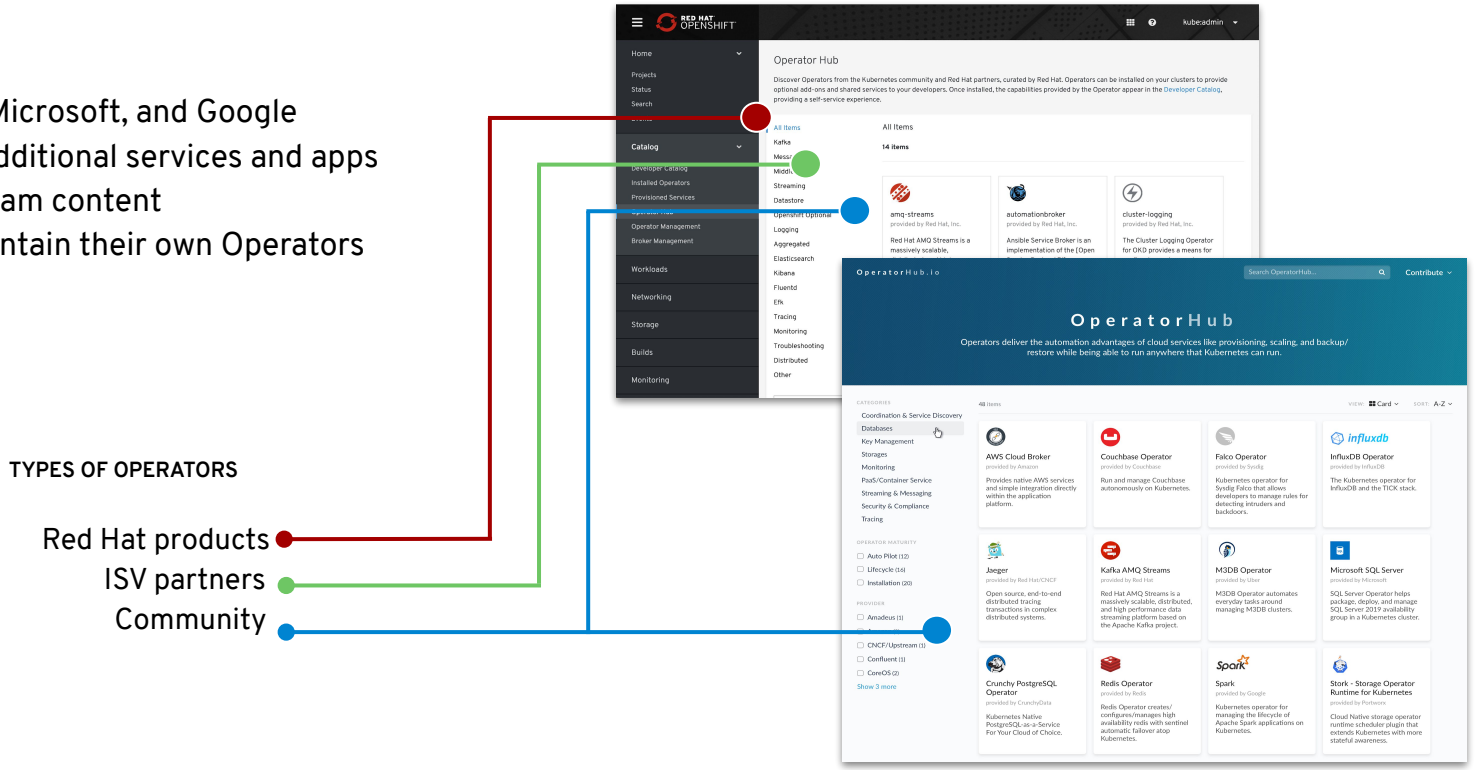
OpenShift Operators and OperatorHub

- Launched with AWS, Microsoft, and Google
- Discover and install additional services and apps
- Upstream & downstream content
- Partners support/maintain their own Operators



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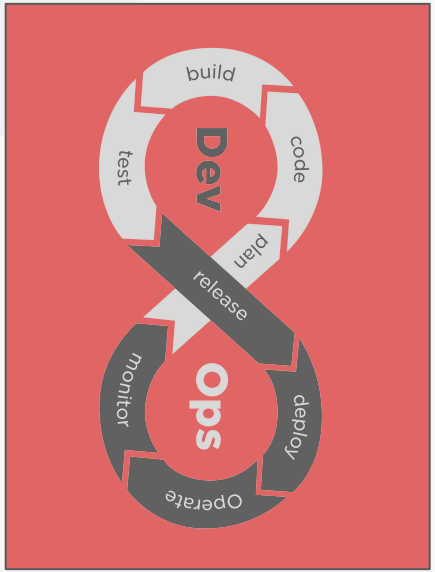
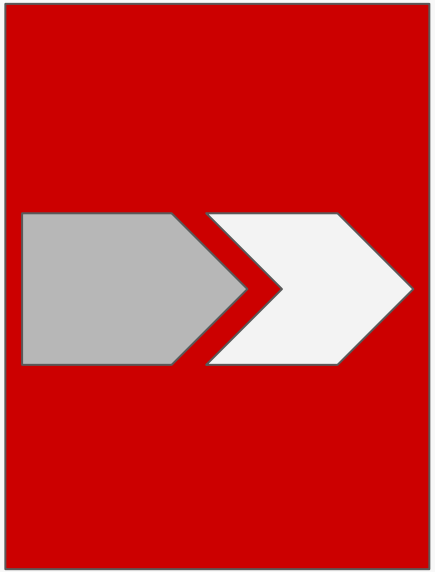
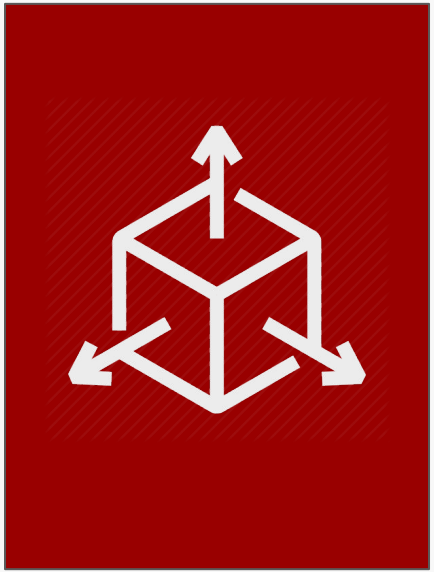
“Common” Challenges we hear at Commons



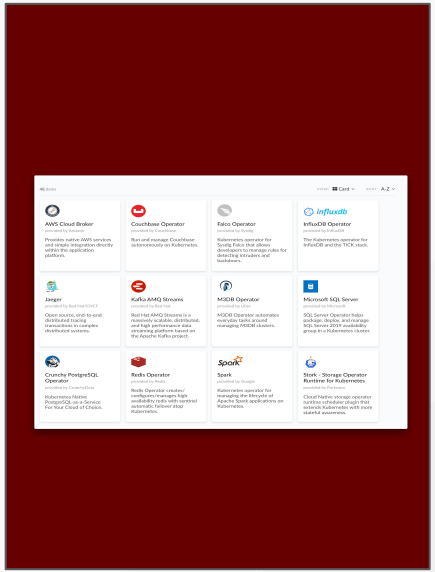
Organizational Transformation



Migrating to OpenShift 4



Operating at Scale



Enabling More Workloads

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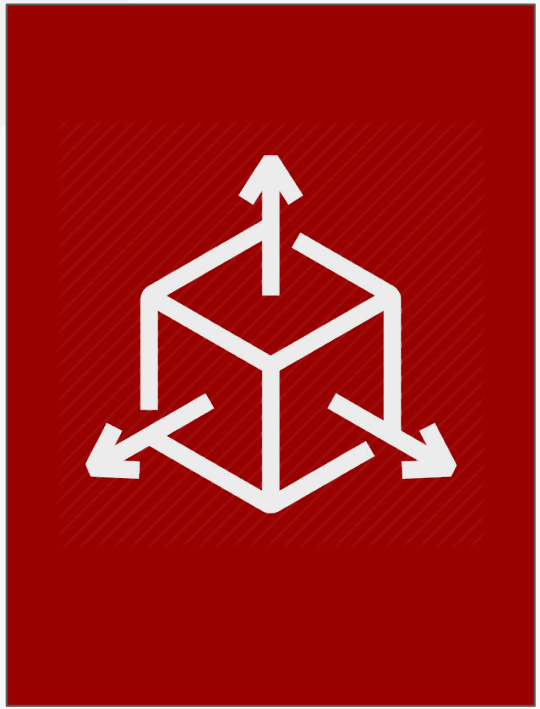
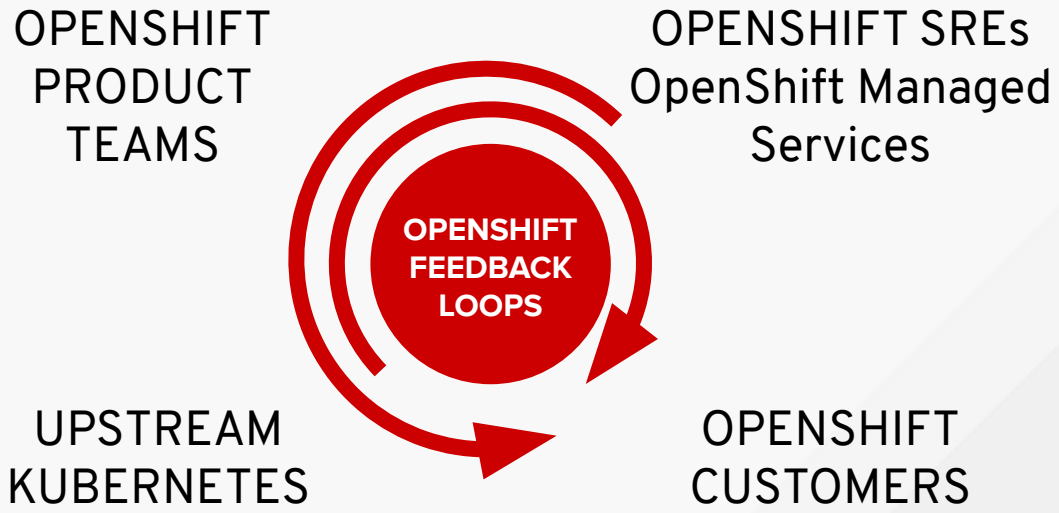
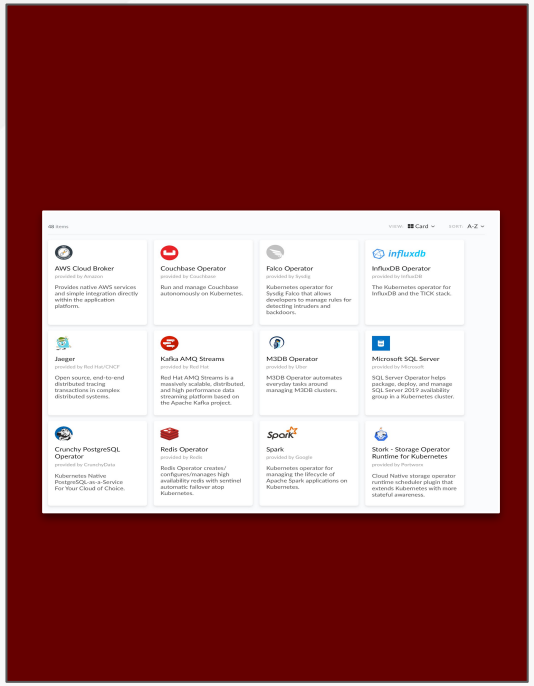
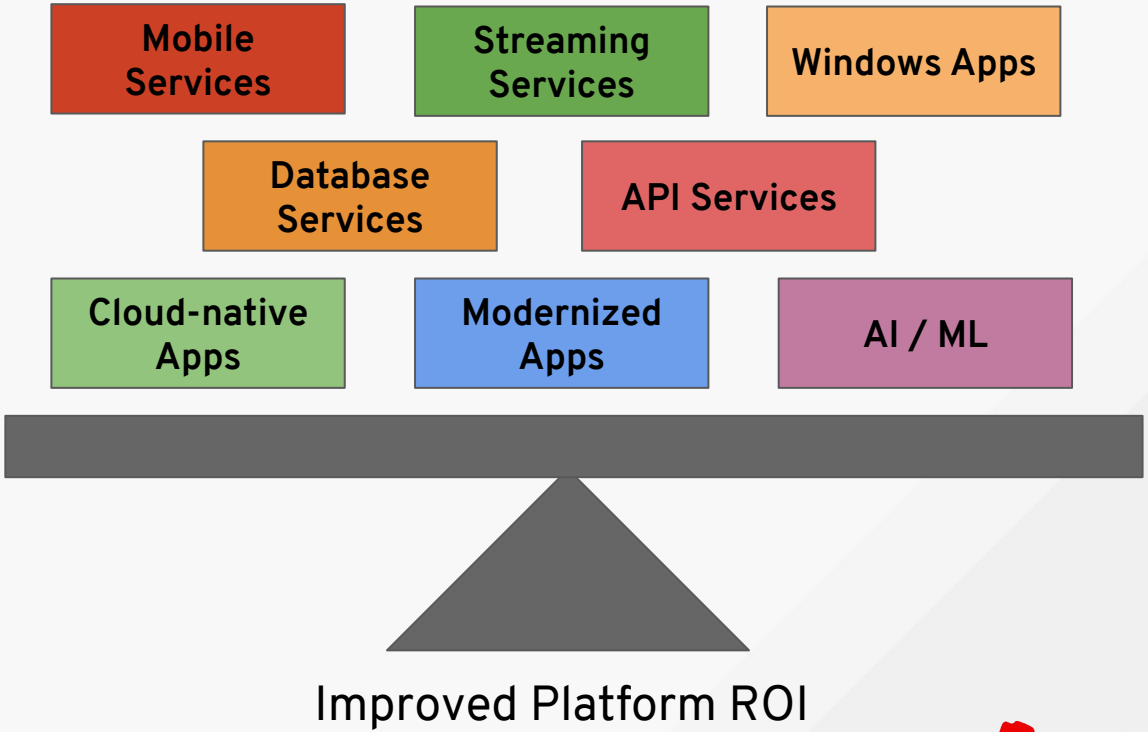
Day 2....how about Day 200? How about 200 clusters?





Enabling Workloads, Developers and Platform ROI





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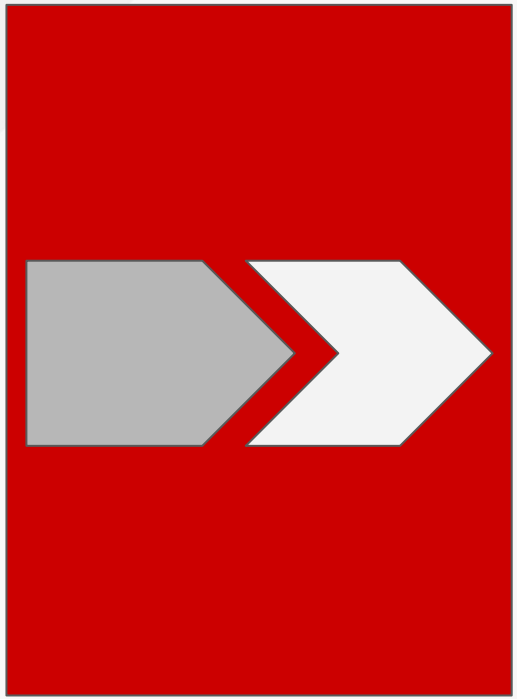
Understanding OpenShift 4 Architectural Evolution



- Simplified Installations
- Managing Upgrades
- A NoOps Platform
- A Containerized Operating System
- New Scaling Concepts
- Multi-Cluster Management
- Operators and OLM
- Enhanced Developer Experience
- And more….

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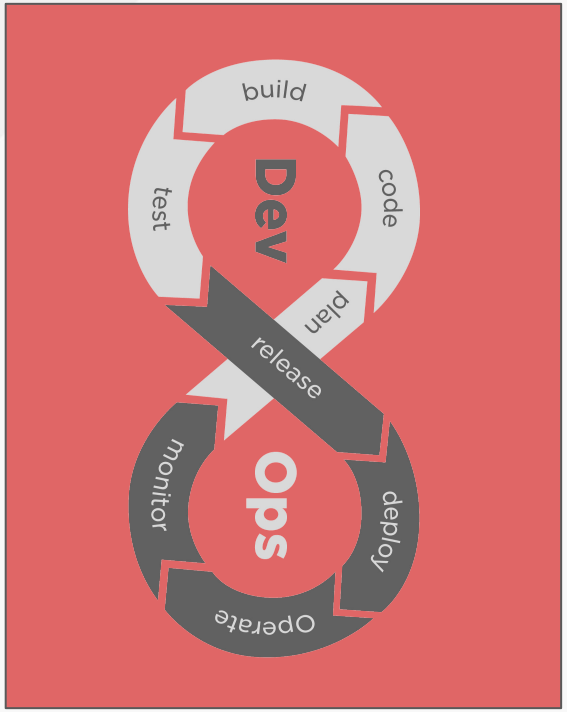
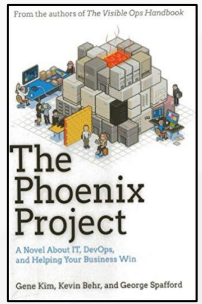
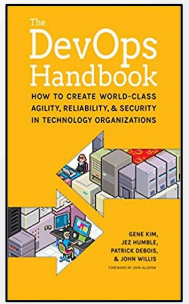
Enabling DevOps Transformation at Scale



Global Transformation Office
Open Innovation Labs

- Kris Pennella
- Jabe Bloom
- Andrew Clay Shafer
- John Willis





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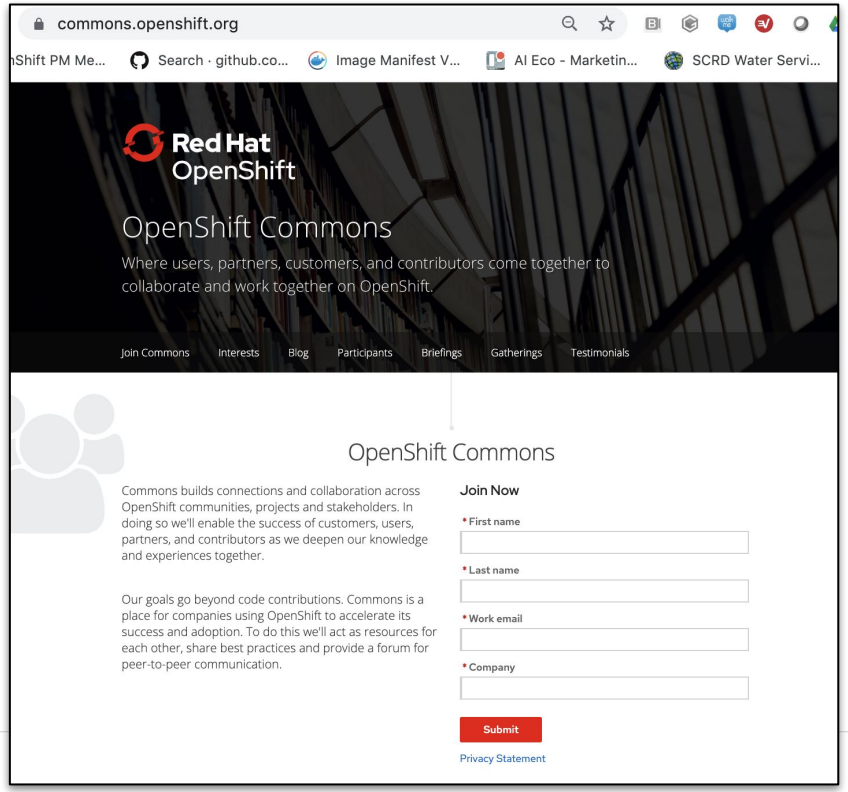
Join OpenShift Commons, it's free and open!

See Tanja Repo in the Lobby and Sign up today!

https:/commons.openshift.org



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OPENSHIFT COMMONS GATHERING

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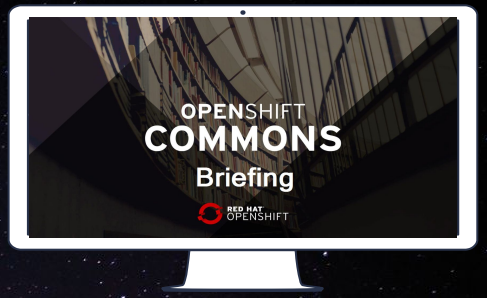

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