

# **Red Hat Day Events**

January 30, Vancouver

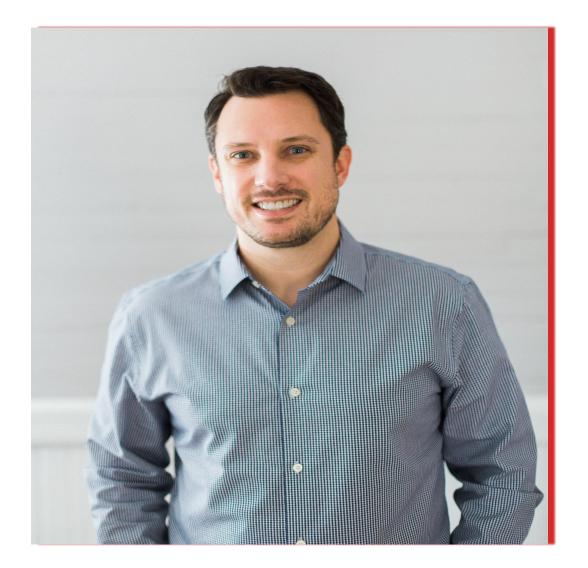
# OpenShift The Platform for Big Ideas





# **Software Success is Business Success**





## Brian Gracely

Sr. Director Product Strategy Red Hat OpenShift



Software is the interface to customers, markets and decision-making.

Either your business will be good at software, or your business will eventually fail.



# **Big ideas drive Business Innovation**

Cloud Containers DevOps Digital Containers transformation Artificial intelligence Internet of things Open source communities

#### **Open organization**

Kubernetes

#### Business innovation is all around us.

Every organization in every geography and in every industry can innovate and create more customer value and differentiation with open source technologies and an open culture.





Digitally advanced enterprises are 8x more likely to grow share and exceed their objectives.



### 6699

We provide a 5-hour head start in treating sepsis. And in the hands of clinicians, 5 hours saves lives.

Dr. Edmund Jackson VP & Chief Data Scientist HCA Healthcare

## HCA Healthcare Using data insights to save lives



# **UPS** Analytics-driven logistics



### 6699

We can localize clusters in different markets if we need to and therefore serve our customers on a worldwide scale.

8 4 2 00 00

Dr. Alexander Lenk Lead Architect Connected Vehicle, Digital Backend, Big Data, Blockchain BMW Group

BMW Connected Drive

## **EMIRATES NBD**

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## **VOLKSWAGEN** Autonomous Vehicle Testing

### 6699

We got the idea to have all these tests we do with hardware on virtual test environments, and that's why we've come to OpenShift and containers.

Michael Denecke Head of Test Technology Volkswagen AG

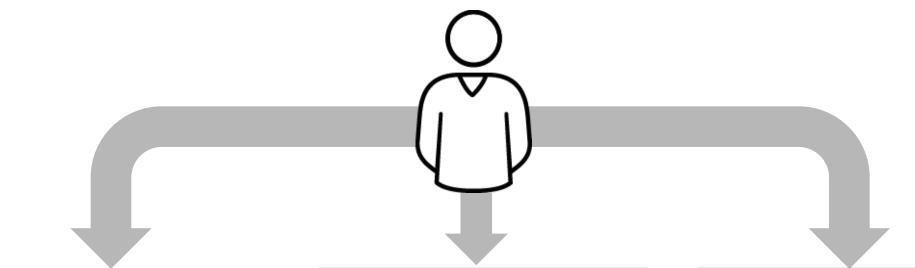
an idea, we can start uilding the p This agility is something we have never experienced before.

**Tobias Mohr** Head of Technology and Infrastructure Lufthansa Technik

## LUFTHANSA TECHNIK From Idea to Innovation in Days

Aircraft Typ

# **Business Interactions are Hybrid**





**DIRECT / PHYSICAL** 



DIGITAL ENGAGEMENT



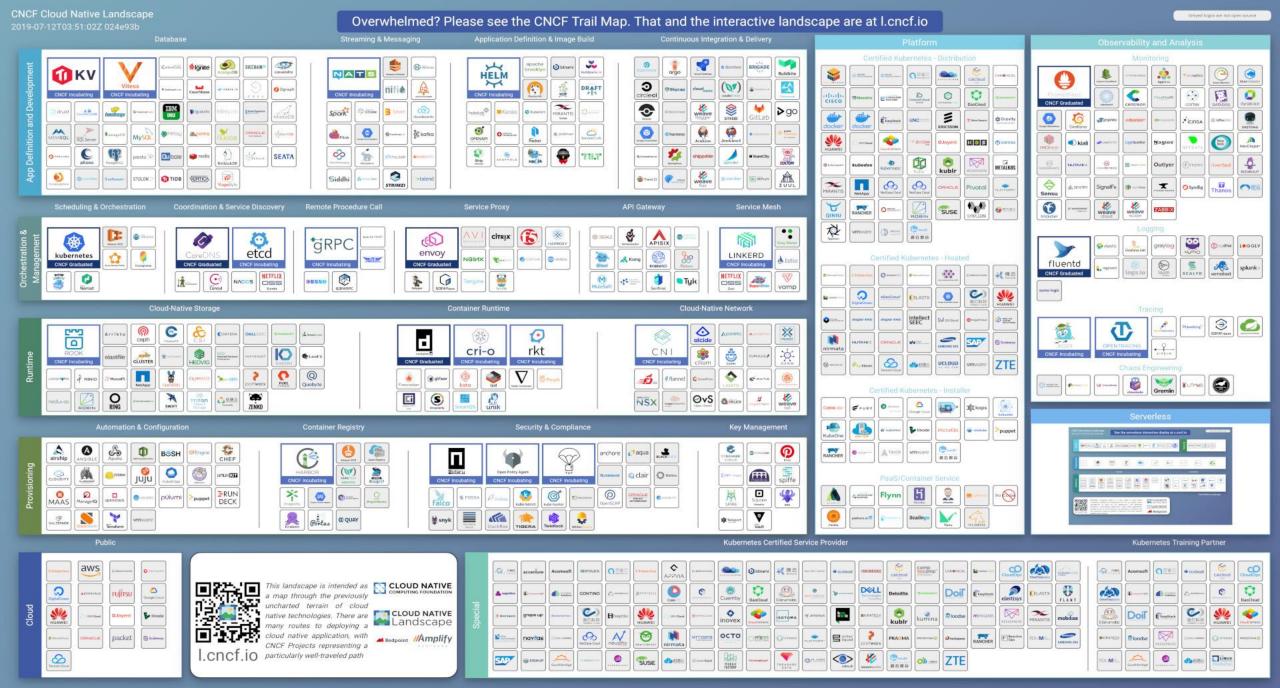
MARKETPLACE APIS

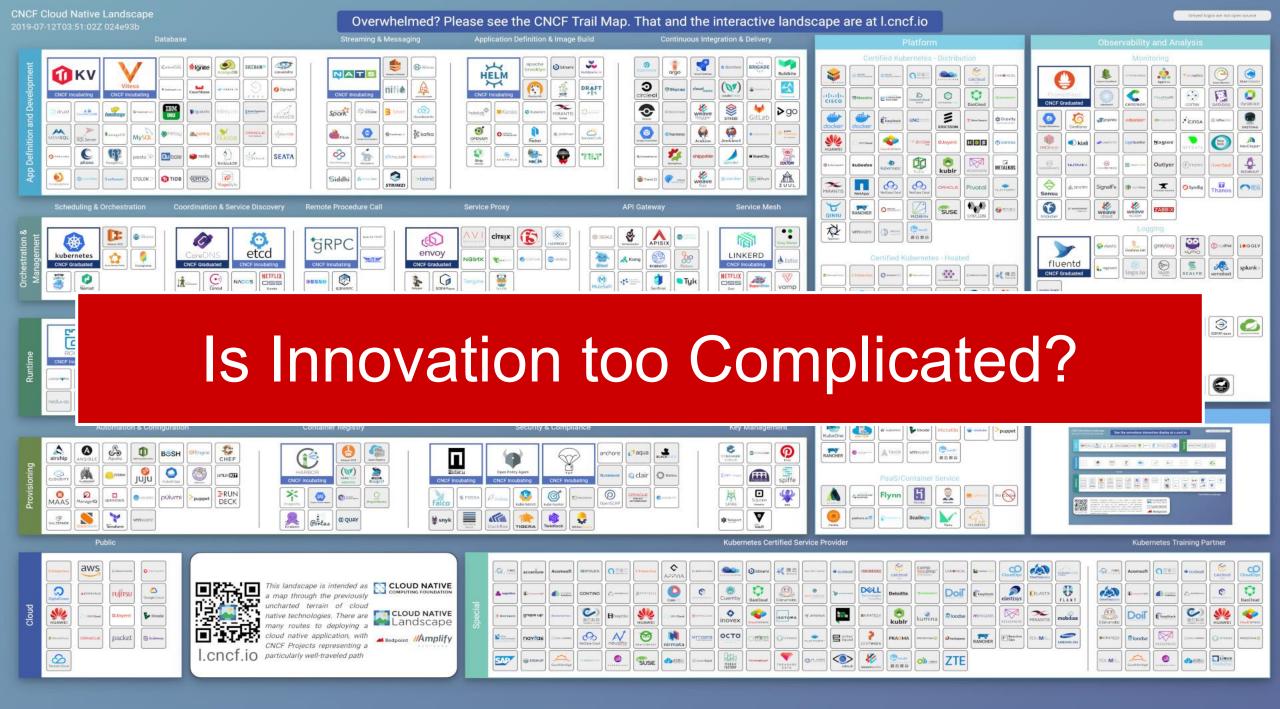




# Making Software Successful



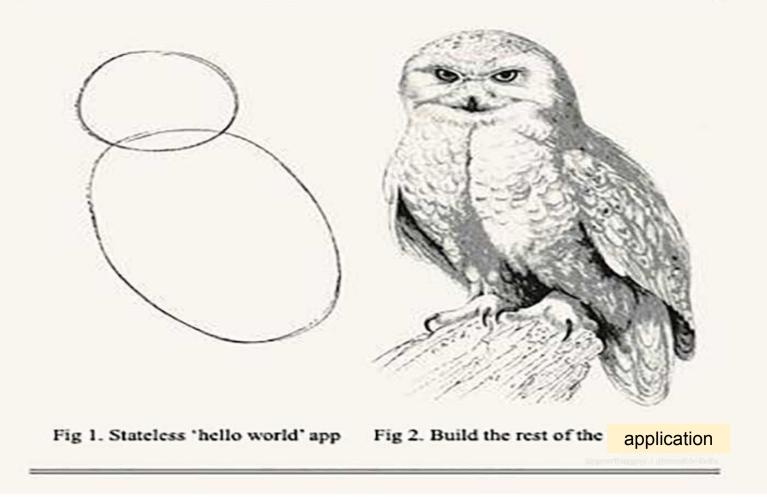




## How to manage apps in Kubernetes

"A fun and creative guide for beginners"

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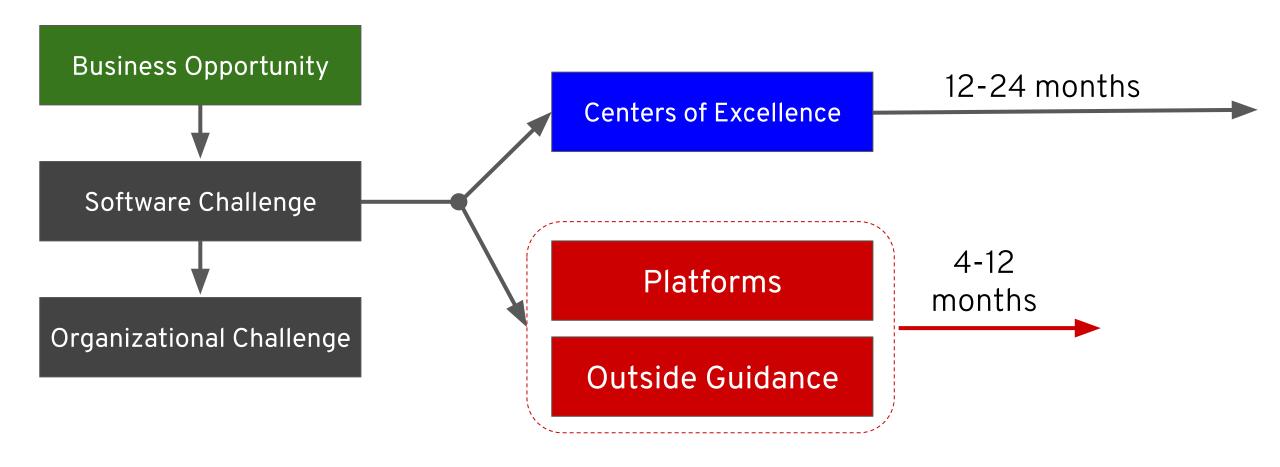


# Getting to Figure 2 can be difficult





# Companies take Multiple Paths





# Red Hat OpenShift business value



**531%** 5-year ROI

66% Faster development life cycle 36%

More applications per year

8 MONTHS

Payback period US\$1.29M

Average annual benefits per 100 developers

The Business Value of Red Hat OpenShift, IDC #US41845816, October 2017, <u>https://www.redhat.com/en/resources/The-Business-Value-of-Red-Hat-OpenShift</u>.



# CATHAY PACIFIC



Increased application development throughput from 20 to 200 changes a day

> OpenShift on public & private cloud



## Months → Days

Improved time to market by accelerating development time

> OpenShift on public cloud



## 50%

Reduction in development time for new services and APIs. Launched a new cloud platform in **10 days** 

> OpenShift on multiple public cloud, & private cloud

Source:

Cathay Pacific: Red Hat press release, Cathay Pacific Takes Customer Experiences to New Heights with Red Hat's Hybrid Cloud Technologies, May 2018.

Hilton: Red Hat case study, Hilton enhances digital guest experience with Red Hat container and automation technology, October 2018.

Schiphol: Red Hat case study, Amsterdam Airport Schiphol builds agile cloud with Red Hat, August 2017.

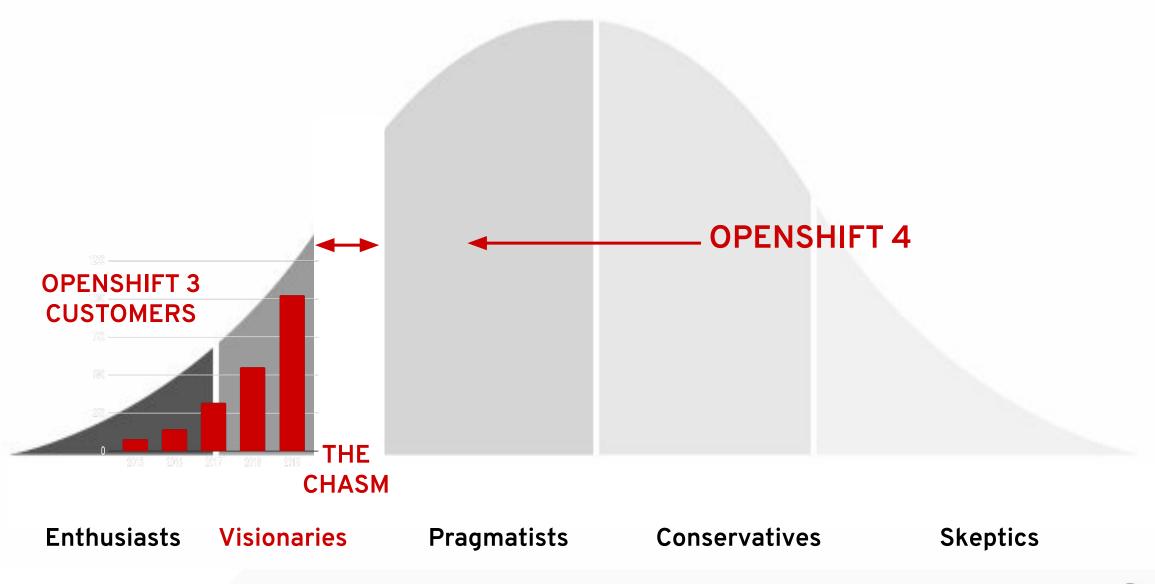




# Choosing the Right Application Platform

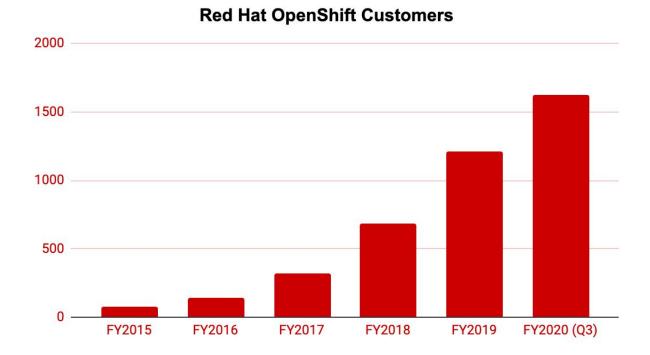


## **OPENSHIFT 4 - Crossing the Chasm**

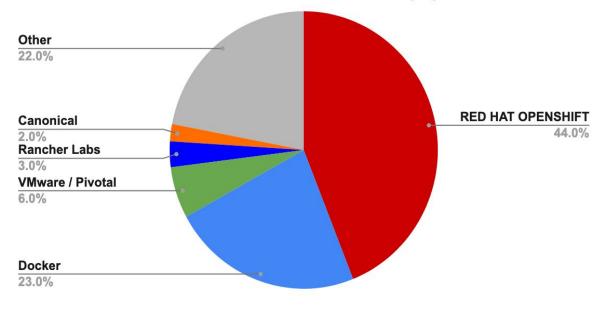




## OpenShift leads the Kubernetes Application Platform Market



#### Container Market Share (%)



\* IHS Container Market Share



24

# Market Expectations for Application Platforms

**CLOUD EXPECTATIONS** 

**BROAD APPLICATION SUPPORT** 

CONTINUOUS SECURITY

ON-DEMAND | AS-A-SERVICE MARKETPLACES

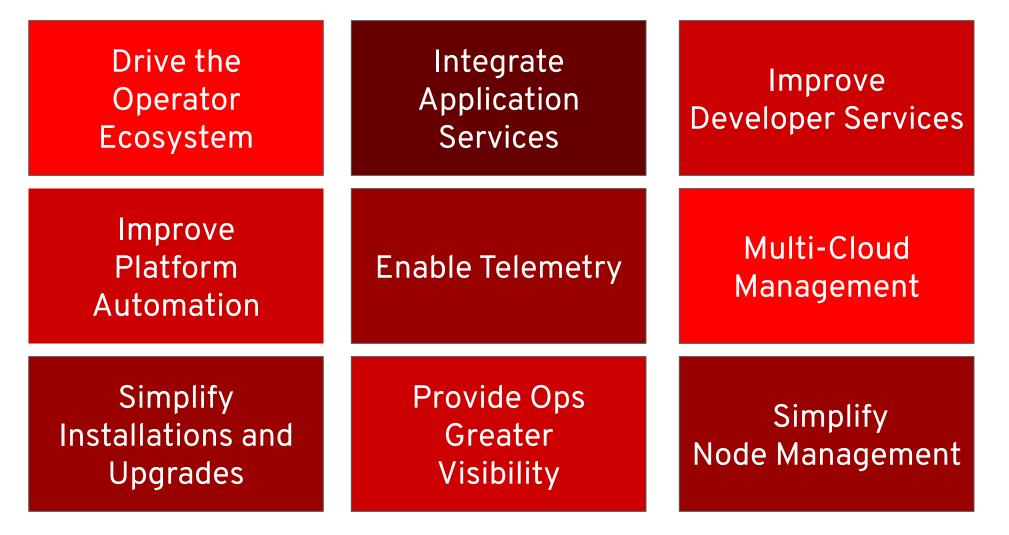
STANDARDS | INTEROPERABILITY | PORTABILITY | AVOID LOCK-IN

> LIMITED OPERATIONS or MANAGED SERVICES





# Reimaging OpenShift - OpenShift 4





# Red Hat OpenShift 4 Platform

#### CLUSTER SERVICES

Metrics, Chargeback, Registry, Logging

#### APPLICATION SERVICES

Middleware, Service Mesh, Serverless and Functions, ISV

#### **DEVELOPER SERVICES**

Dev Tools, Automated Builds, CI/CD, IDE

#### AUTOMATED OPERATIONS

**ENTERPRISE KUBERNETES** 

Red Hat Enterprise Linux or RHEL CoreOS

Best IT Ops Experience

CaaS ←→ PaaS ←→ FaaS

Best Developer Experience



Routing & transformation Technology Adapters Error Handling Development Patterns

Application Concerns

Declarative programming Event orchestration Activation & scale-to-zero Service Binding

Continuous Integration GitOps Continuous Delivery

Traffic Routing Network Resilience Security

Infrastructure Concerns Provisioning Scheduling & Deployment Scaling & Service Discovery Monitoring and Recovery



Routing & transformation Technology Adapters Error Handling Development Patterns

Application Concerns

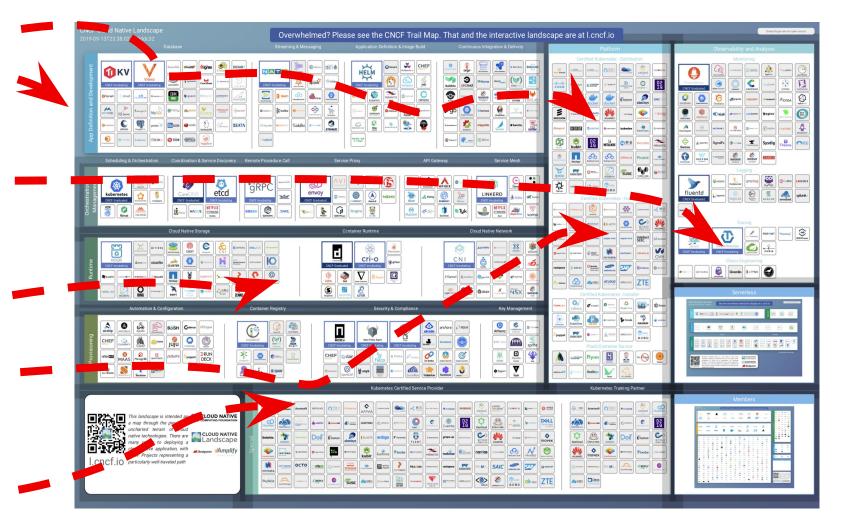
Declarative programming Event orchestration Activation & scale-to-zero Service Binding

Continuous Integration GitOps Continuous Delivery

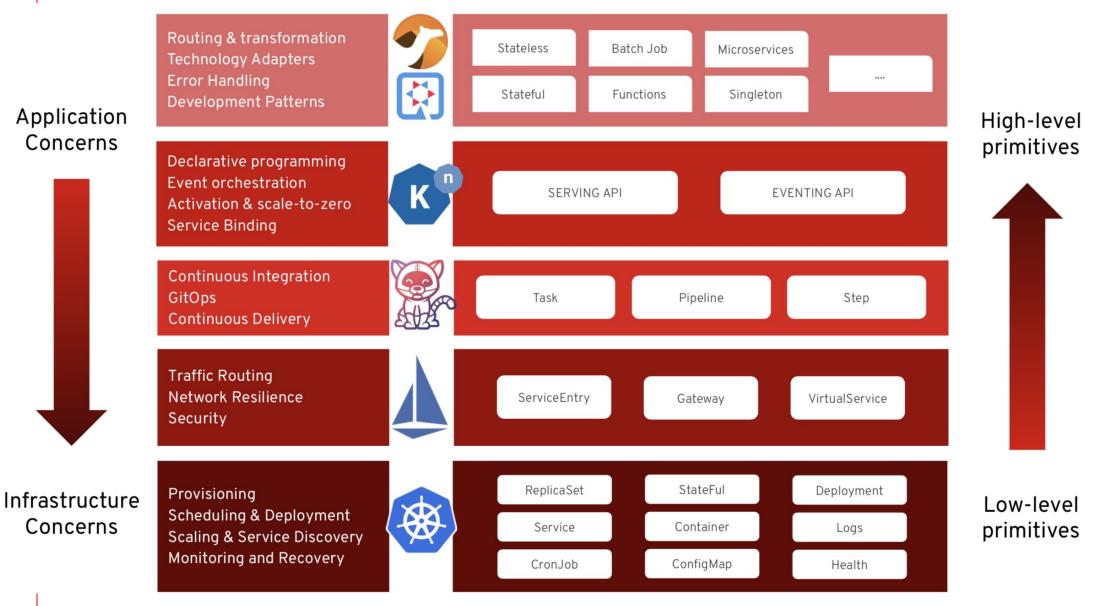
Traffic Routing Network Resilience Security

Infrastructure Concerns Provisioning Scheduling & Scaling & Ser

Scheduling & Deployment Scaling & Service Discovery Monitoring and Recovery

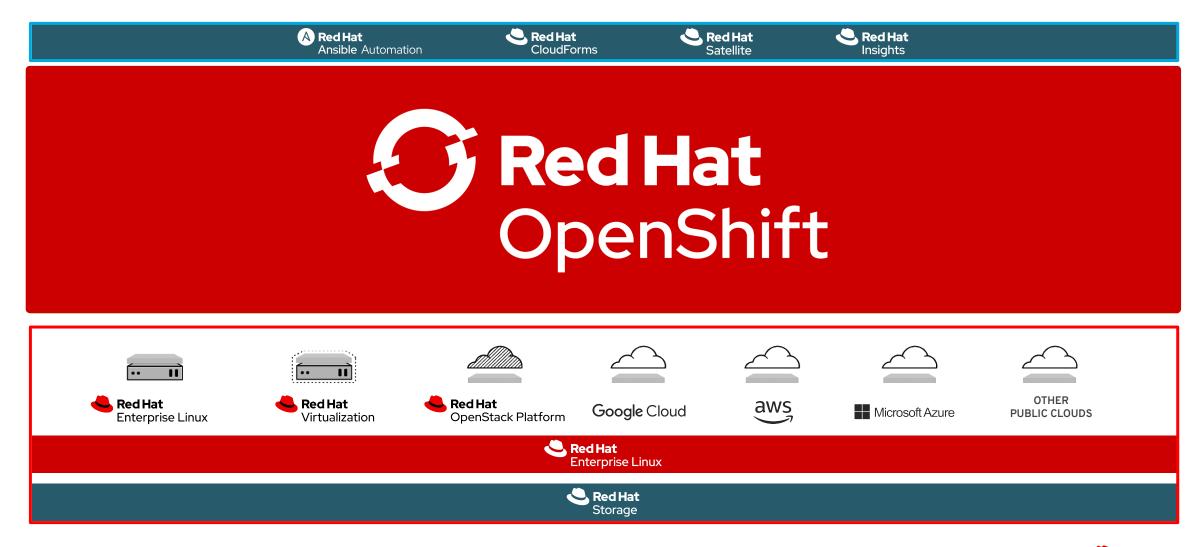




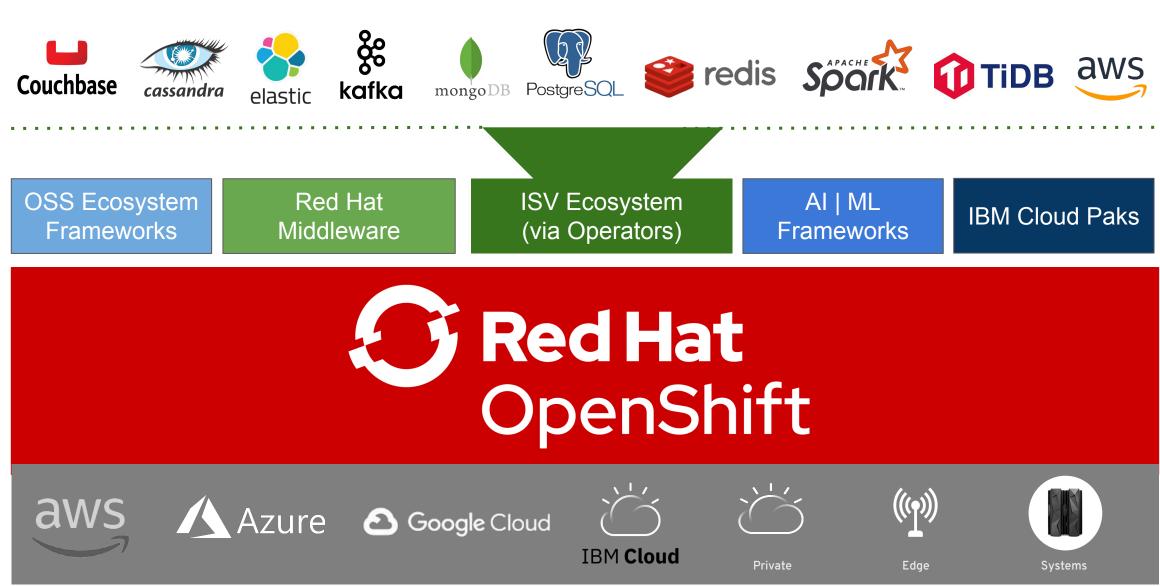




# Red Hat OpenShift - Hybrid Multi-Cloud platform

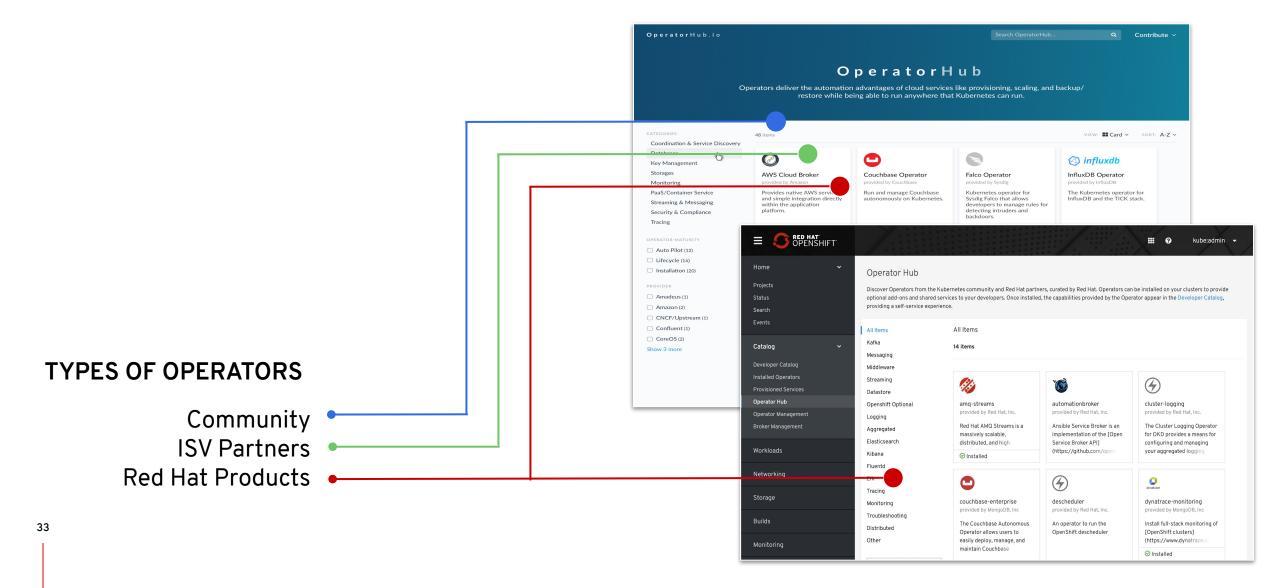




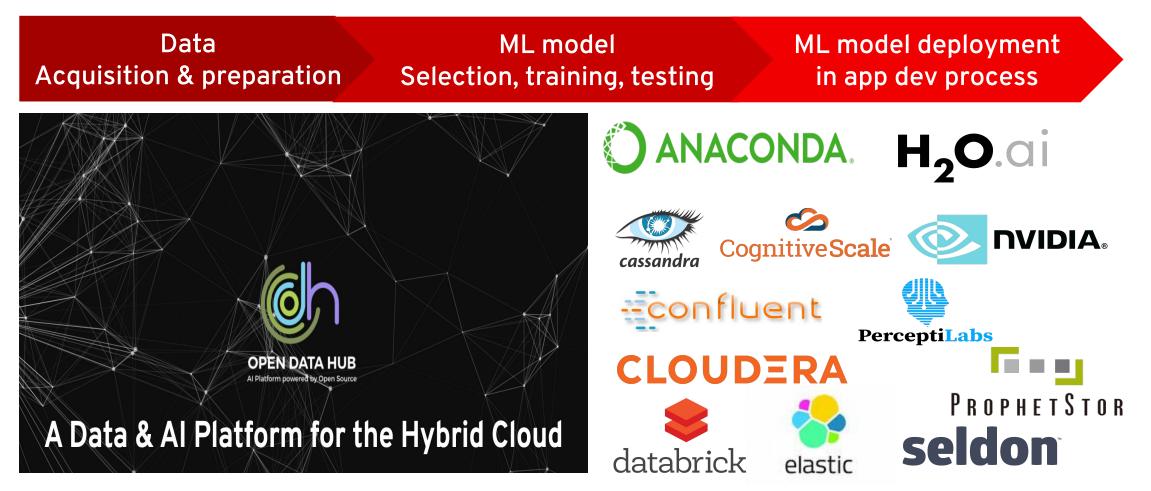




## Openshift Operators enable ISV Innovation operatorhub.io



# AI Ecosystem focusing on OpenShift integrations opendatahub.io





# OpenShift - Comprehensive Platform Security

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	<b>CONTROL</b> Application Security	Container Content	CI/CD Pipeline
		Container Registry	Deployment Policies
	<b>DEFEND</b> Infrastructure	Container Platform	Container Host Multi-tenancy
		Network Isolation	Storage
		Audit & Logging	API Management
	EXTEND		
		Security Ecosystem	



# Hybrid and Multi-Cloud Management

#### **OpenShift Cluster Manager**





# Red Hat Services for OpenShift adoption

#### **RED HAT OPEN INNOVATION LABS**





**EXPERIMENT** Rapidly build prototypes, do DevOps, and be agile.

**CATALYZE INNOVATION** Bring modern application development back to your team.



**IMMERSE YOUR TEAM** Work side by side with experts in a residency-style engagement.

TO SHOW YOUR TEAMS HOW OPENSHIFT AND MODERN DEVELOPMENT PRACTICES CAN DRIVE INNOVATION: START WITH A 4- TO 12-WEEK LABS RESIDENCY

#### **RED HAT CONTAINER ADOPTION PROGRAM**



#### FRAMEWORK FOR SUCCESSFUL CONTAINER ADOPTION AND I.T. TRANSFORMATION:

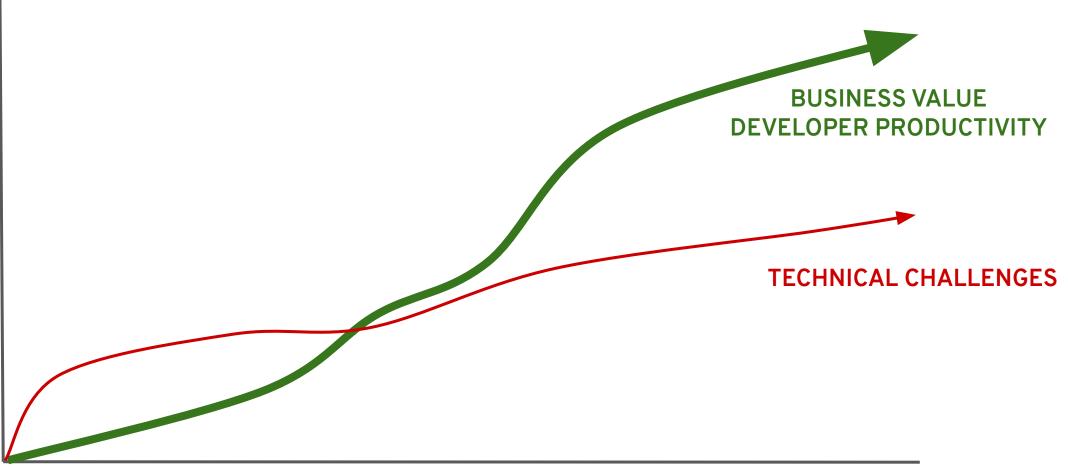
Mentoring, training, and side-by-side collaboration to:

- Create a production platform and team to run it
- Create end-to-end container-driven deployment automation
- Scale application onboarding expertise
- Guide new Kubernetes-native development
- Align business with IT through included Red Hat Open Innovation Labs

TO BEGIN A COMPREHENSIVE PROGRAM (INCLUDING OPEN INNOVATION LABS): START WITH THE 12-WEEK <u>RED HAT</u> <u>CONSULTING CONTAINER PLATFORM PILOT</u>



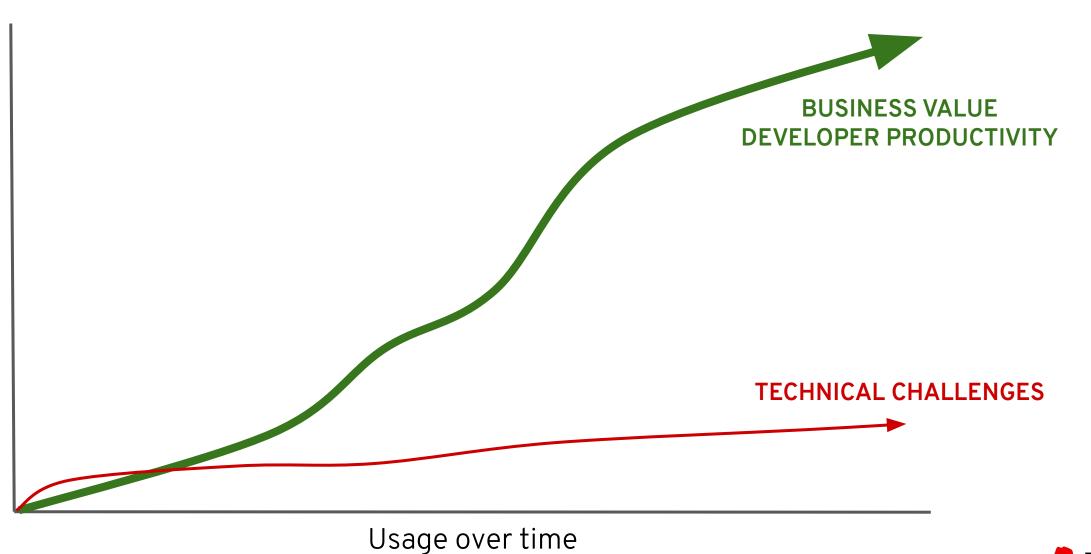
# Just Software is not Business Success



Usage over time



# Software Success is Business Success







# Thank You

in linkedin.com/company/red-hat

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# OpenShift The Platform for Big Ideas

