Agenda

- The sweet spot
- The modernization Goal - it is a fact - but why?
- Kubernetes as the industry standard and its “standalone” challenges
- Standalone Kubernetes “vs” Openshift
- Self Managed vs Cloud Services
- Summary
- Q/A
"The sweet spot"

Technical Stack

Customer applications

Platform
(OS, Databases, Kubernetes, etc)

Infrastructure
(Compute, network, storage, etc)

Time spent to deliver an application
Goal: Application modernization & migration to the Cloud

“Accelerate the point of valuable outcomes”

“Cloud Computing is the future”

“Competitive edge - stay relevant”
Modernization -> Containers -> Kubernetes

"And loads more!"
This leads professionals to climb Mt. Kubernetes…

Many new skills to be learnt..

“Not many apps migrated (yet!)”
Running containers on a laptop.

Running some early, simple multi-container apps

We need more servers

We need Kubernetes

CI/CD? Kind of having it work!

Monitoring at scale

Monitoring and observability at scale is actually quite hard

Enterprise authentication, hybrid connectivity, audit controls

Developers are asking for better tooling, flexibility, plugins

App team #2 needs a fundamentally different stack

That ISV app isn’t certified to run on our in-house stack

That business unit uses another public cloud? They need on-prem?! Isn’t Helm supposed to be reusable? Operators?!


OpenShift vs Standalone Kubernetes?

I’m leaving

All these bits we’ve built don’t talk with each other

Security... software supply chain? Connectivity between services? OS?
Level 1: Time to value with Kubernetes

Kubernetes enables Application Migration & Modernization

Time spent to deliver an application

Customer applications
Platform (OS, Databases, Kubernetes, etc)
Infrastructure (Compute, network, storage, etc)

Point of first meaningful outcome: Application delivered in Production
Standalone Kubernetes VS Openshift
OpenShift is a complete application Platform

- Hundreds of defect and performance fixes
- Plethora of validated integrations with other cloud services
- Certified container ecosystem
- Reassurance: Red Hat is one of the leading Kubernetes contributor since day 1
OpenShift offers functionality fully integrated

Dashboard
- Kubernetes dashboard

DevOps
- Deployment automation
- Build automation
- CI/CD

Orchestration
- Container orchestration

Monitoring
- Logs/metrics

Infrastructure
- RBAC
- Container registry
- Storage
- Networking
- Linux container host

Required capabilities fully integrated

Day 1-2 operations simplicity to deliver “Enterprise Container Platform”

Manual integrations

Day 1-2 operations complexity to deliver “Enterprise Container Platform”

Kubernetes services
Level 2: Time to value with OpenShift

Technical Stack
- Customer applications
- Platform (OS, Databases, Kubernetes, etc)
- Infrastructure (Compute, network, storage, etc)

Time spent delivering an application

Self-Managed OpenShift

Standalone Kubernetes
OpenShift Cloud Services
OpenShift offers the broadest set of hybrid cloud services

Red Hat OpenShift

Developer Efficiency  Business Productivity  Enterprise Ready

Red Hat OpenShift Service on AWS
Azure Red Hat OpenShift
Red Hat OpenShift on IBM Cloud
Red Hat OpenShift Dedicated
OpenShift Container Platform

Joint offerings with Cloud Provider

Offered as a Native Console offering on equal parity with cloud provider Kubernetes service

or

Customer Managed OCP
Fully managed clusters with Openshift Cloud Services

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Let **Cloud Provider** and **Red Hat** deal with this stuff..
Red Hat OpenShift Cloud Services

**Faster Time To Value**
- Production-ready clusters that deploy easily in ~ 40 minutes!
- Less time on infrastructure, more time spend on your applications
- Fully HA Standard Arch

**Reduced Complexity**
- **Fully** monitored clusters, managed and updated from infrastructure to daily operations
- Monitoring, logging, networking, etc. included
- Flexible consumption-based pricing
- 24x7 support from industry leading SRE team with financially backed 99.95+ % SLAs

**Integrated into the Cloud**
- Only company to offer managed Kubernetes on all major public clouds
- **Consistent** OpenShift experiences across clouds, with ability to do multi cloud.

**Details may differ slightly with each Cloud Provider offering - Ask us for more details**
What is your starting point?

Build it yourself Kubernetes

Self Managed OpenShift

OpenShift Managed Cloud Services

+ HyperScaler
Do you care about the engine and parts, or about getting from A to B

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**The Engine**

**The Parts**

**The Assembled Car**

**The Full Service**

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**Kubernetes Cluster Services**

- Monitoring
- Service Mesh
- Dev Tools
- Metrics
- Logging
- C/C

**Kubernetes**

**Custom OS**

**aws**

**Google Cloud**

**xKS**

**xKS PLUS “NATIVE” SERVICES**

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**OpenShift Cluster Services**

- Networking: Ingress
- Registry
- Metrics
- Logging
- C/C

**Kubernetes**

**Red Hat Core OS**

**Clouds**

**OPENSHIFT PLATFORM**

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**Support and Operations**

- Monitoring
- Service Mesh
- Dev Tools
- Metrics
- Logging
- C/C

**OpenShift Cluster Services**

- Networking: Ingress
- Registry
- Metrics
- Logging
- C/C

**Kubernetes**

**Red Hat Core OS**

**Clouds**

**MANAGED OPENSHIFT PLATFORM**
Summary
How are OpenShift Cloud Services Different?

**Some Details may differ slightly with each Cloud Provider offering - Ask us for more details**

- Native cloud services, jointly engineered between Red Hat and Cloud Provider
- Consistent OpenShift experience across workloads in different clouds
- Turnkey application development platforms, with integrations into the respective CP Ecosystem
- Global Site Reliability Engineering expertise with 24x7 support, 99.95% + SLA
OpenShift offers the broadest set of hybrid cloud services

Developer Efficiency  Business Productivity  Enterprise Ready

Red Hat OpenShift

- Red Hat OpenShift Service on AWS (ROSA)
- Azure Red Hat OpenShift (ARO)
- Red Hat OpenShift on IBM Cloud (RHOIC)
- Red Hat OpenShift Dedicated (OSD)
- OpenShift Container Platform (OCP)

Joint offerings with Cloud Provider

Offered as a Native Console offering on equal parity with cloud provider Kubernetes service

or

Customer Managed OCP
Final Stage (Level 3): Time to value with Fully Managed OpenShift

Technical Stack

- Infrastructure (Compute, network, storage, etc)
- Platform (OS, Databases, Kubernetes, etc)
- Customer applications

Time spent delivering an application

- OpenShift Managed Services
- Self-Managed OpenShift
- Standalone Kubernetes
Red Hat Cloud Services
Managed OpenShift + Application Services + Data Services

Full stack management and unified experience

Maximize full value of Red Hat OpenShift

Hybrid cloud flexibility

Application layer

Streamlined developer experience

Unified platform to build cloud-native applications

Application and data services
- Red Hat OpenShift API Management
- Red Hat OpenShift Streams for Apache Kafka
- Red Hat OpenShift Data Science
- Red Hat OpenShift Service Registry
- Red Hat OpenShift Connectors
- Red Hat OpenShift Database Access

Platform services
- Red Hat OpenShift Service on AWS
- Microsoft Azure
- Red Hat OpenShift on IBM Cloud
- Red Hat OpenShift Dedicated

Cloud providers
- AWS
- Microsoft Azure
- IBM Cloud
- Google Cloud
Improve **efficiency and productivity**

Forrester Research: The Total Economic Impact™ of OpenShift cloud services

50% improvement in operational efficiency
20% of developer time is recaptured
Shortened development cycle by 70%

“"One of our pain points is we don’t want to do infrastructure. We just want to **focus on building great experiences**. We wanted to find somebody who could manage this for us, so we didn’t have to."

Director for operations and infrastructure, Telecom company

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Thank you

linkedin.com/company/red-hat

youtube.com/user/RedHatVideos

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