



Red Hat OpenShift Cloud Services

Build and scale applications with confidence. We do the rest.

Robert Åkerblom
Senior Black Belt, Managed OpenShift, Red Hat EMEA

The story of a cloud architect...





The story of a cloud architect

... and his name was Robert, he stands right in front of you

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Achieve your business goals

What's blocking you?



Limited time, resources & budget



Complex implementations & integrations



Legacy systems, hurdles to modernization

What are you trying to achieve?



Innovation at speed



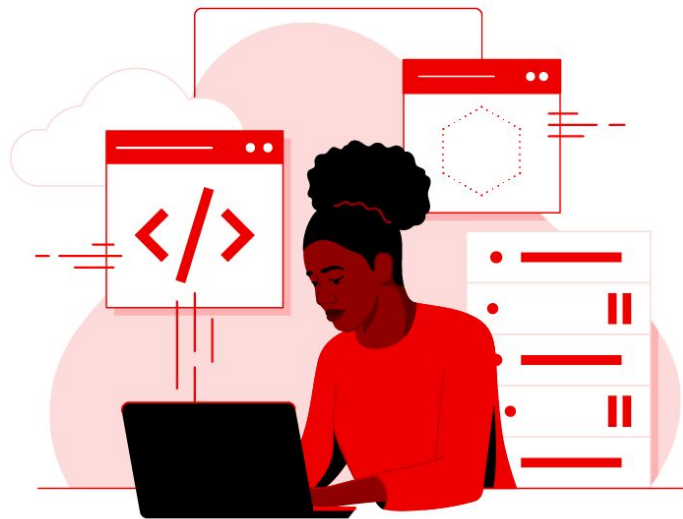
New customer experiences and lines of business



Flexibility to adapt, business agility

Where do you want to spend your time?

“73.5% of technology leaders are outsourcing the implementation, maintenance and optimization of their cloud platforms...”



We can help.



Empower developers to innovate

Get applications, both new and modernized, to production sooner with a wide range of technologies and streamlined workflows.

Provide a cloud-like experience, everywhere

Have full-stack and automated operations on a consistent foundation for on-premises or hybrid cloud infrastructures.

Transform your people, process, culture

Continuous security, world-class support and professional services, and deep expertise from Red Hat..

64% of the top 25 companies on the Fortune Global 500 list use Red Hat OpenShift.

OpenShift delivers a complete application platform

Integrated tools and services for faster application development and delivery



Red Hat OpenShift Service Mesh with Istio to connect, secure, and observe services



Red Hat OpenShift Serverless with Knative to provide hybrid serverless, FaaS, & event-driven architectures



Red Hat OpenShift pipelines with Tekton to provide Kubernetes-native CI/CD pipelines



Red Hat OpenShift GitOps with ArgoCD to provide declarative GitOps based continuous delivery



Red Hat OpenShift builds with Shipwright to build images from code using S2I + other & integrate with Github actions



Red Hat Runtimes, including Spring Boot, Quarkus, OpenJDK, JBoss SSO, node.js, Apache Tomcat, Apache HTTP, and .NET



Red Hat OpenShift developer console & CLI enhancements to improve dev experience



CodeReady Workspaces with Eclipse Che for cloud- native development & collaboration



Red Hat OpenShift IDE plugin integrations to meet the developer where they are



OpenShift developer sandbox and local cluster enhancements to improve access



Application level observability for developers to build and manage their apps



Red Hat OpenShift API Management offers first 100k API calls per day free with some solutions

Red Hat OpenShift Streams on Apache Kafka, OpenShift Data Science and Advanced Cluster Security available.

Kubernetes cluster services

Kubernetes (orchestration)

Linux (container host operating system)



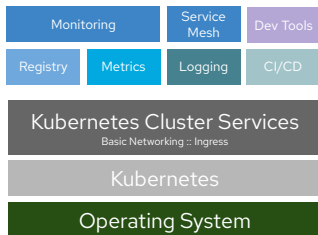
Kubernetes is the engine in any modern application platform



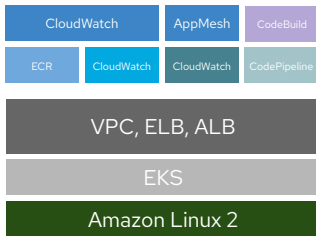
Complexities of Building an Application Platform on Public Clouds



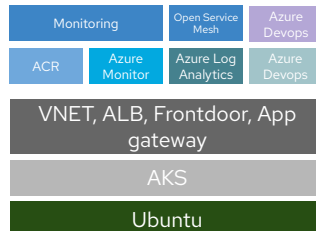
The required Parts



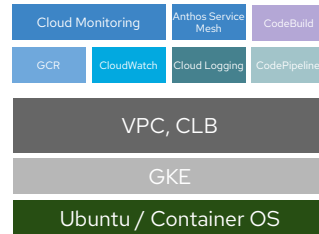
The AWS Car



The Azure Car



The Google Cloud Car



3 Different Cars

- Different component versions
- Different life cycles
- Different support models
- Different developer and ops tooling



3 different drivers and pit crews needed



Build and run a platform **VS** using a turnkey cloud service

"Batteries Included"

... but swappable

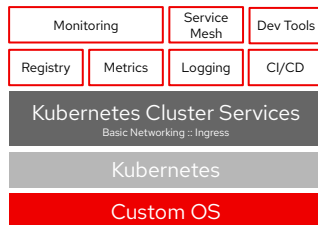
Individual components can be swapped out

Eg.

- Using AWS CloudWatch for logging on AWS
- Use specific cloud services or ISV offerings



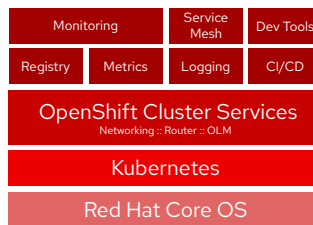
The Parts



xKS + 'native'
services



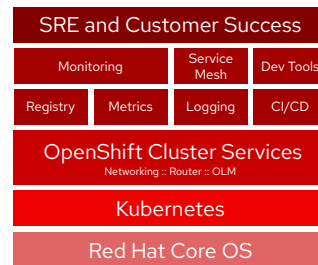
The Assembled Car



- Application Platform -
Self-managed Red Hat OpenShift



The Car & Pit Crew



- Turnkey Application Platform -
Red Hat OpenShift cloud services

A consistent platform no matter how or where you run

Red Hat OpenShift cloud services—Fully managed, start quickly



Red Hat OpenShift Service
on AWS



Azure Red Hat
OpenShift



IBM Cloud

Red Hat OpenShift
on IBM Cloud



Google Cloud

Red Hat OpenShift
Dedicated

Self-Managed Red Hat OpenShift—Customer managed, for control and flexibility



Red Hat
OpenShift

On **public cloud**, on-premises on **physical** or
virtual infrastructure, and at the **edge**

Red Hat OpenShift cloud services

A turnkey application platform with management and support from Red Hat and leading cloud providers



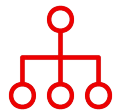
Accelerate time to value

Quickly build, deploy, and run applications that scale as needed.



Operational efficiency

Enhance operational consistency, efficiency and security with proactive management and support.



Focus on innovation

Simplify operations so your teams can refocus on innovation, not managing infrastructure.



Hybrid cloud flexibility

Deliver a consistent experience on premises and in the cloud.

How are Red Hat OpenShift cloud services different?



1st party, joint solutions with
leading cloud providers



Turnkey application
platform



Consistent hybrid cloud
experience

OpenShift cloud services are 1st party, cloud native solutions



Red Hat OpenShift
Service on AWS



Azure Red Hat
OpenShift



Red Hat OpenShift on
IBM Cloud



Integrated
Dev tools and cloud
native services



Joint
Support & Engineering



Automation and Day
2 Operations



Security and
compliance



Single invoicing,
utilize cloud
committed spend

Intricacy of running your own Kubernetes Cluster

Responsibilities

User management

Project and quota management

Application life cycle

Cluster creation

Cluster management

Monitoring and logging

Network configuration

Software and security updates

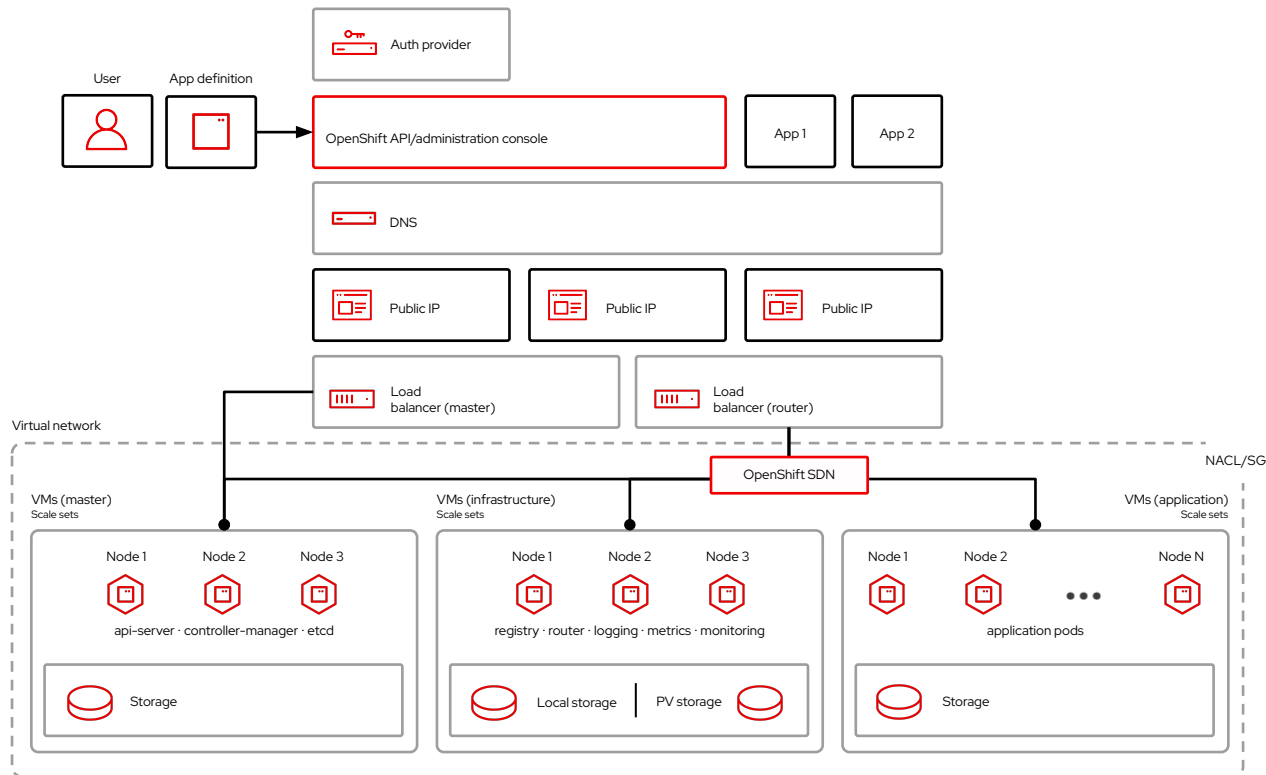
Platform support



Customer












Cloud provider & Red Hat



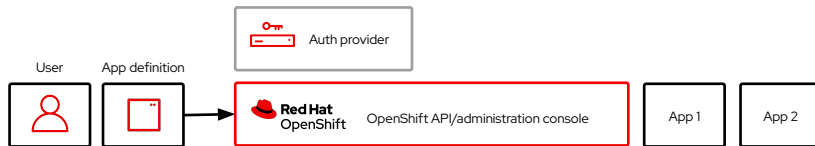
Simplify with fully managed clusters

Red Hat OpenShift cloud services

Responsibilities	
User management	
Project and quota management	
Application life cycle	
Cluster creation	
Cluster management	
Monitoring and logging	
Network configuration	
Software and security updates	
Platform support	

 Customer

 Cloud provider and Red Hat



Let Red Hat & your cloud provider...

Manage all your clusters.

Monitor and operate your VMs.

Secure your nodes.

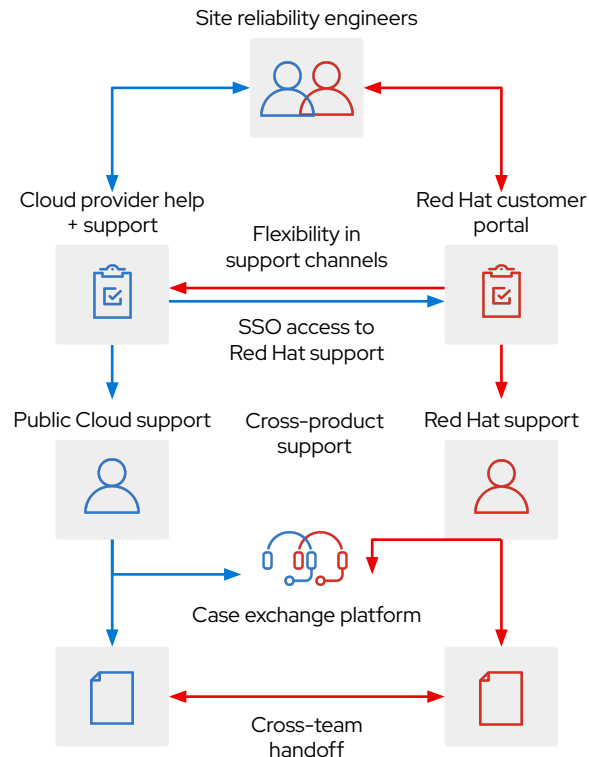
Manage environment patches.

You...

Integrated support

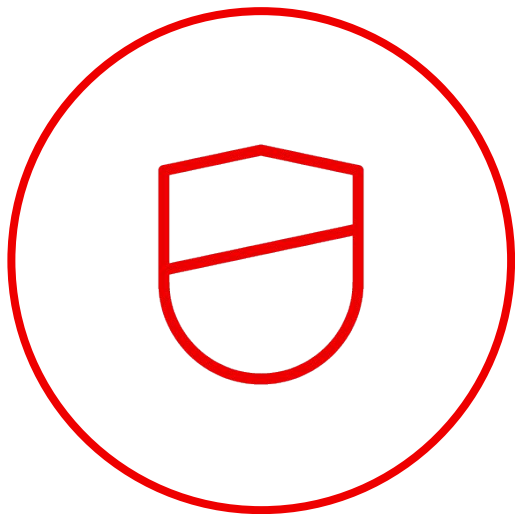
Jointly engineered, operated, and supported by Red Hat and our cloud partners

- ▶ 24x7 in-portal integrated support experience
- ▶ Colocated support with Red Hat onsite team
- ▶ Integrated case systems
- ▶ Red Hat and cloud provider security response team collaboration



Move from 24x7 operations to 9-5 innovation

End-to-End support for your entire application platform



- ▶ OpenShift cloud services includes **full support for worker nodes**
 - Zero downtime upgrades
 - Proactive monitoring
 - Automated patching
 - **Compliance and certifications** extend to worker nodes
- ▶ **99.95%** financially backed SLA
- ▶ **24x7 joint support** from Red Hat and cloud provider
- ▶ Automation and **Day 2 Operations** by global SREs

Full Stack management from a global Site Reliability Engineering (SRE) team



Product



Systems

Who are our SREs?

- ▶ Developers and systems engineers who know how to handle volume and a diversity of clusters.
- ▶ Uniquely offer both an engineering and development mindset.

SRE responsibilities

- ▶ Build solutions and features.
- ▶ Automate at scale.
- ▶ Day 2 operations: monitor, patch, and upgrade the platform.
- ▶ Work hand in hand with cloud providers and open source community.

Customer benefits

- ▶ Accelerate application development and delivery through automation.
- ▶ Improve operational efficiency, security and resiliency.
- ▶ Refocus on innovation and core competencies.

Customer Stories

Delta Airlines on ROSA (*Red Hat OpenShift on AWS*)

ExxonMobil on ARO (*Azure Red Hat OpenShift*)

Delta Airlines running Wi-Fi on 600+ planes using Red Hat OpenShift Service on AWS (ROSA)

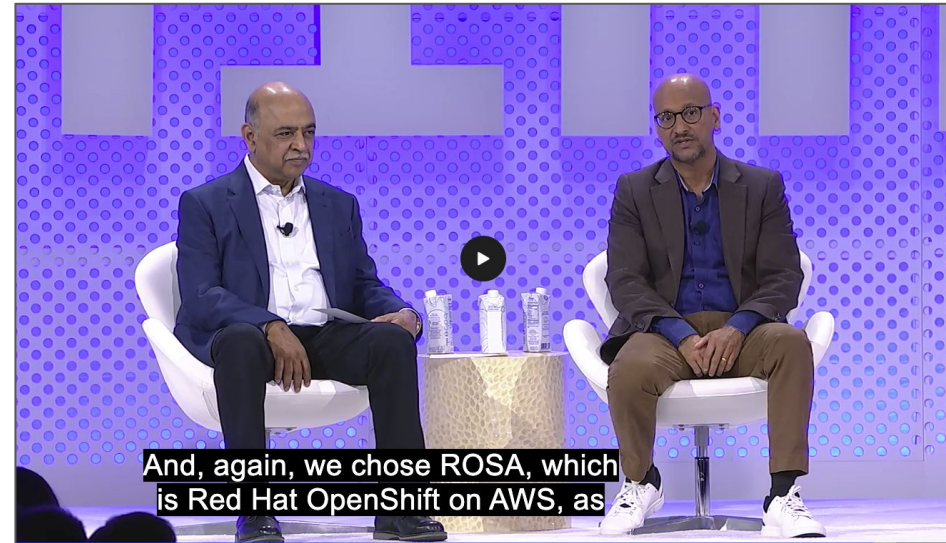


Think 2023

“Opening Keynote” at IBM Think 2023

“We chose ROSA as our container platform and its given us great benefits. If you’ve flown us recently it’s hard to miss the free wifi. We’ve got about 600 planes flying all across the United States that are equipped with fast, free streaming Wi-Fi. That entire chassis, that entire user experience is built, with your help, on the cloud in a native way on ROSA. A real example of business value, business benefit, **speed to market with security, with portability, with scalability, resilience**, all of those things that we need as technologists.”

Rahul Samant,
*Executive Vice President and Chief Information Officer,
Delta Air Lines*



[View video. Timestamp ~ 48.00](#)

ExxonMobil moves from on-premises to Azure using Azure Red Hat OpenShift (ARO) to focus on delivering new services quickly

Red Hat
Summit

“Containerization at ExxonMobil: From premises to the cloud” at Red Hat Summit 2023

“[Azure Red Hat OpenShift has allowed us to] **move our focus up the stack** so my team of platform engineers didn't have to worry about any of this anymore. We only had to focus on what was important to our (internal) customers which was helping them manage the application lifecycle. No more patches for physical hardware, no more upgrades for Red Hat Enterprise Linux, no more patches for virtualization, master nodes, control plane nodes and worker nodes were taken care of for us by Microsoft and Red Hat. **It was a huge force multiplier for us.**”



Chuck Uwanna,
Container Platforms Solutions Architect, ExxonMobil

[Press Release](#)





Thank you!

Happy to talk more in person during the day, find me on the floor or write me a message on LinkedIn! (scan the QR code)



Robert Åkerblom Andersson

Senior Black Belt @ Red Hat, Managed OpenShift

Greater Oulu Area · [Contact info](#)

[500+ connections](#)

