



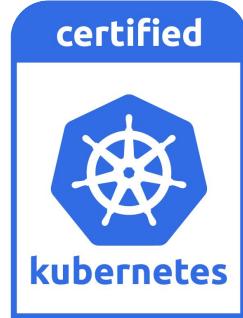
Why using a Hybrid Cloud ?

Alfred Bach

Customer or partner NDA required

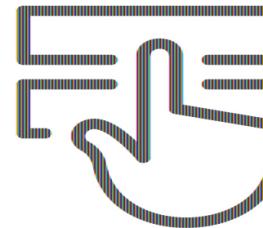
Why OpenShift

CONFIDENTIAL Red Hat associates only



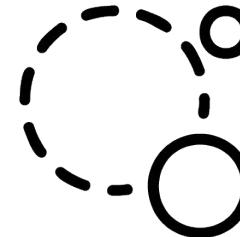
100% Kubernetes

OpenShift is certified as 100% Kubernetes by the CNCF.



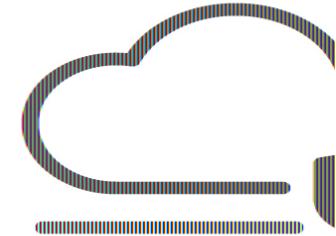
Ecosystem of choice

Red Hat partners offer customers a choice of technologies: Networking, Storage etc without lock-in



Open source

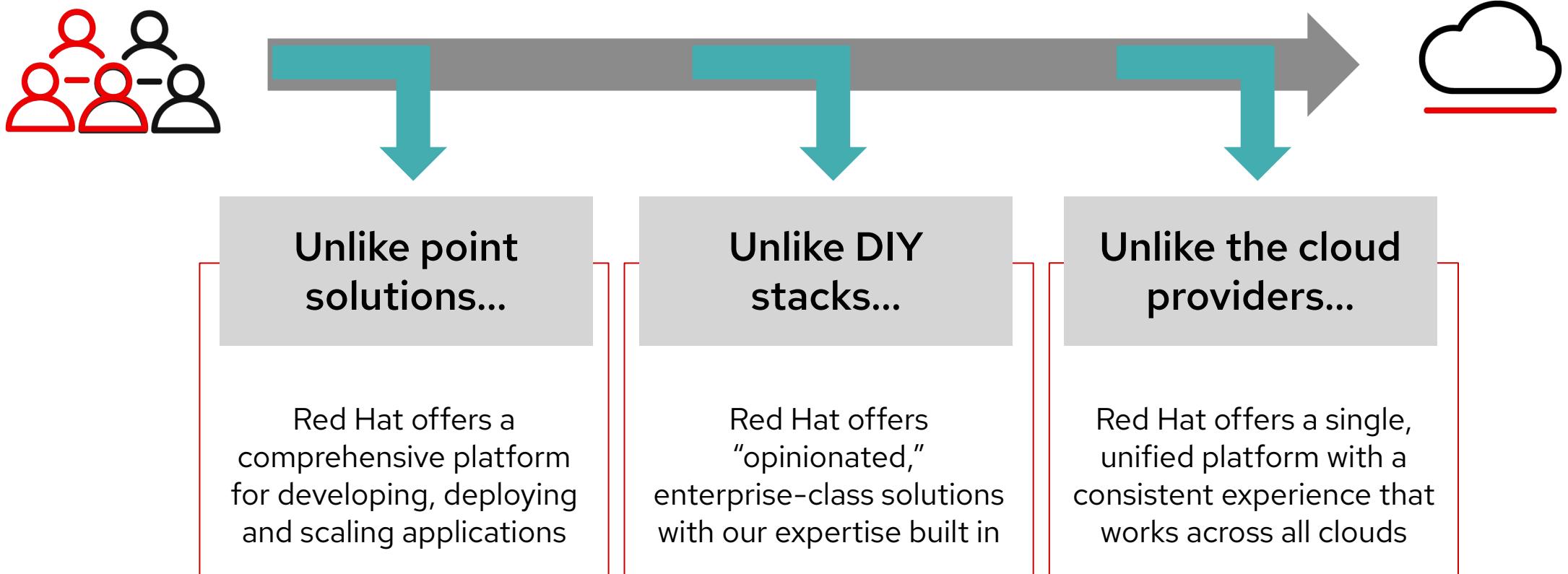
OpenShift platform code is 100% open source, developed and collaborated in the upstream community.



Open Hybrid Cloud

OpenShift provides a consistent operator and developer experience on-prem and in public cloud

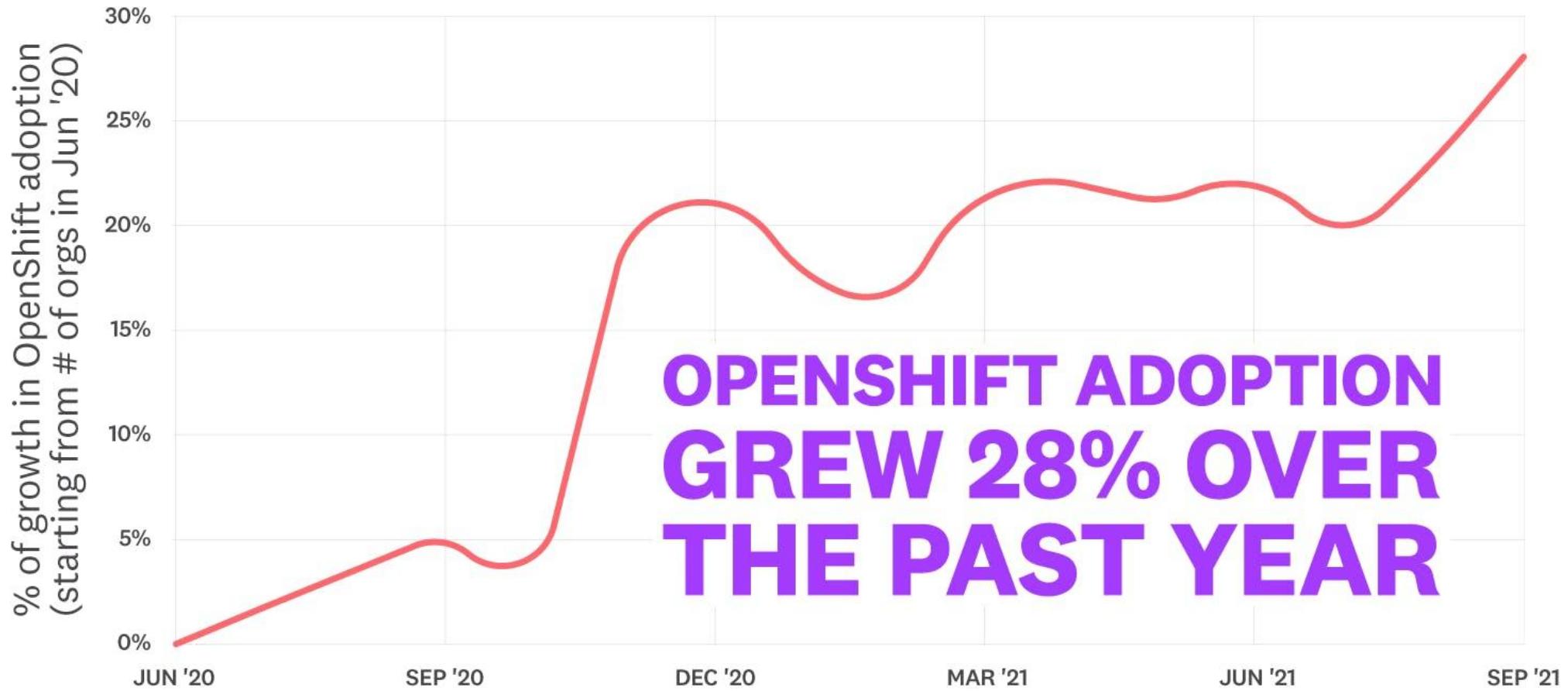
Red Hat's unique approach to cloud services



Analyst coverage

OpenShift growth

OpenShift Usage



Source: Datadog

Gartner

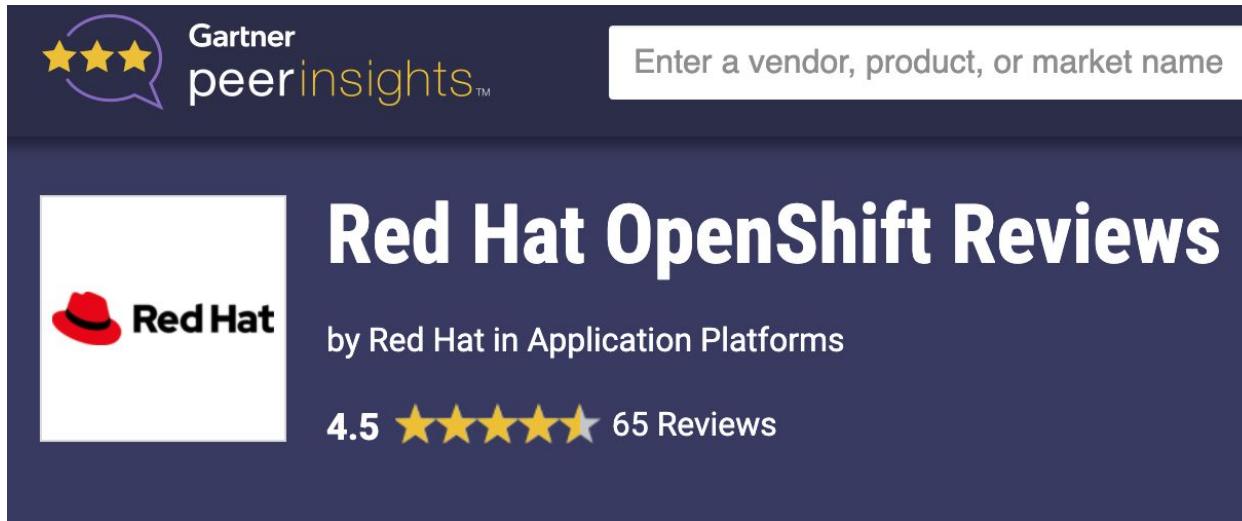
Red Hat's Open Hybrid Cloud Portfolio Can Accelerate Digital Transformation

Published 31 May 2021 - ID G00750806 - 11 min read

By Chirag Dekate, Arun Chandrasekaran, [and 4 more](#)

Red Hat provides a rich portfolio of self-managed and managed cloud services to enable “open hybrid cloud” for modernizing existing and developing new cloud-native applications. SPVM seeking enterprise-grade digital transformation capabilities should evaluate Red Hat solutions.

Gartner peer reviews – OpenShift



The screenshot shows a Gartner Peer Insights search interface. At the top, there's a search bar with the placeholder "Enter a vendor, product, or market name". Below the search bar, the text "Gartner peerinsights™" is displayed next to a 5-star rating icon. The main content area features a large title "Red Hat OpenShift Reviews" in white text on a dark blue background. To the left of the title is a white box containing the Red Hat logo (a red hat icon and the text "Red Hat"). Below the title, it says "by Red Hat in Application Platforms". Underneath that, it shows a rating of "4.5 ★★★★★ 65 Reviews".

Gartner®

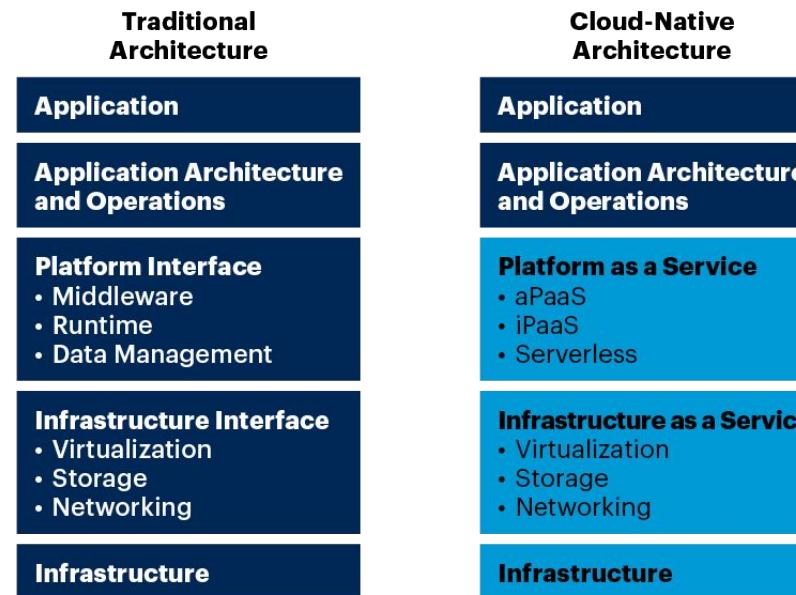
"We started the adoption of containers with the RedHat Openshift platform. Setup was easy and fast, and the system provided a very feature-rich environment out of the box. Onboarding was very easy for developers and operations people. One of the most significant selling points for us was the possibility to start small and then scale-up. "

Gartner recommends that you focus on cloud native application

- In a tight market for technical talent, focus on hiring to build revenue generating applications.
- Red Hat provides a 99.95% uptime SLA and 24x7 support for the application development platform on AWS, Azure, Google or IBM clouds.

Gartner recommends that you focus on cloud native application development.

Cloud-Native Architecture Versus Traditional Architecture



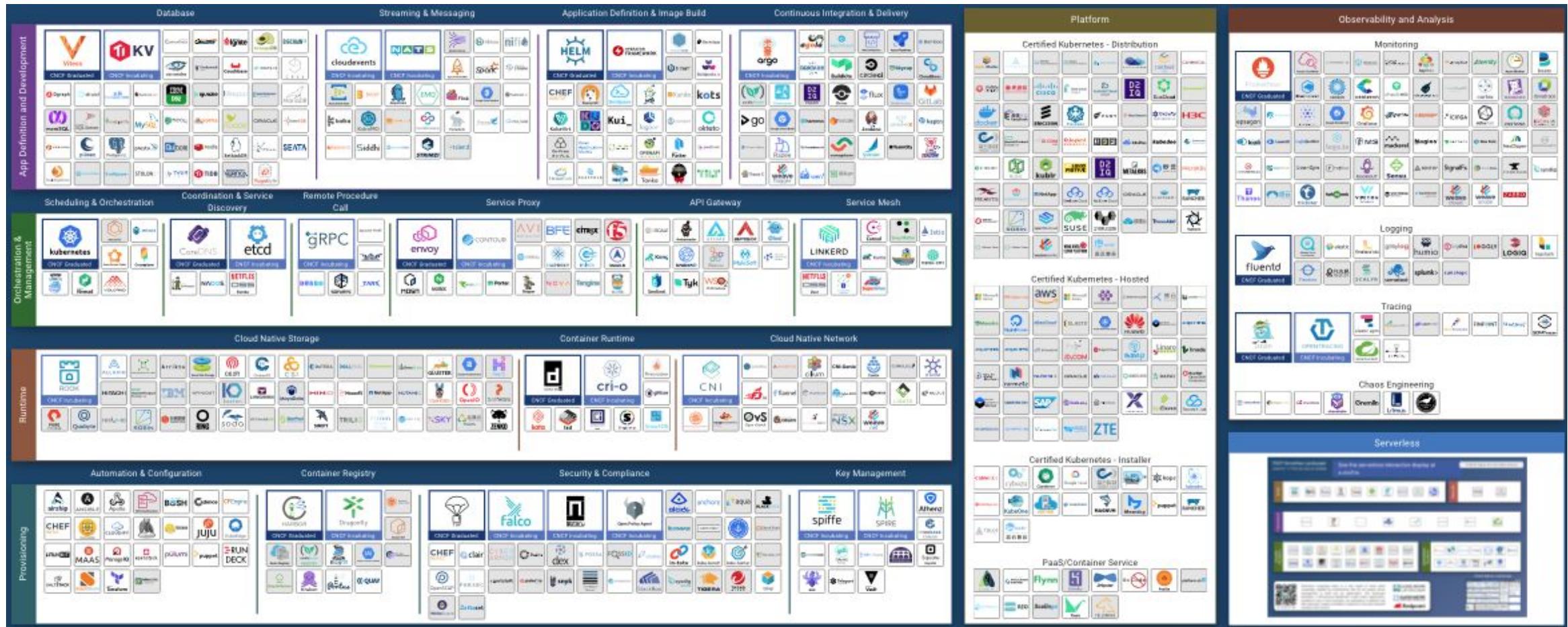
■ Your
Responsibility
■ Provider
Responsibility

Source: Gartner

718692_C

Components of OpenShift

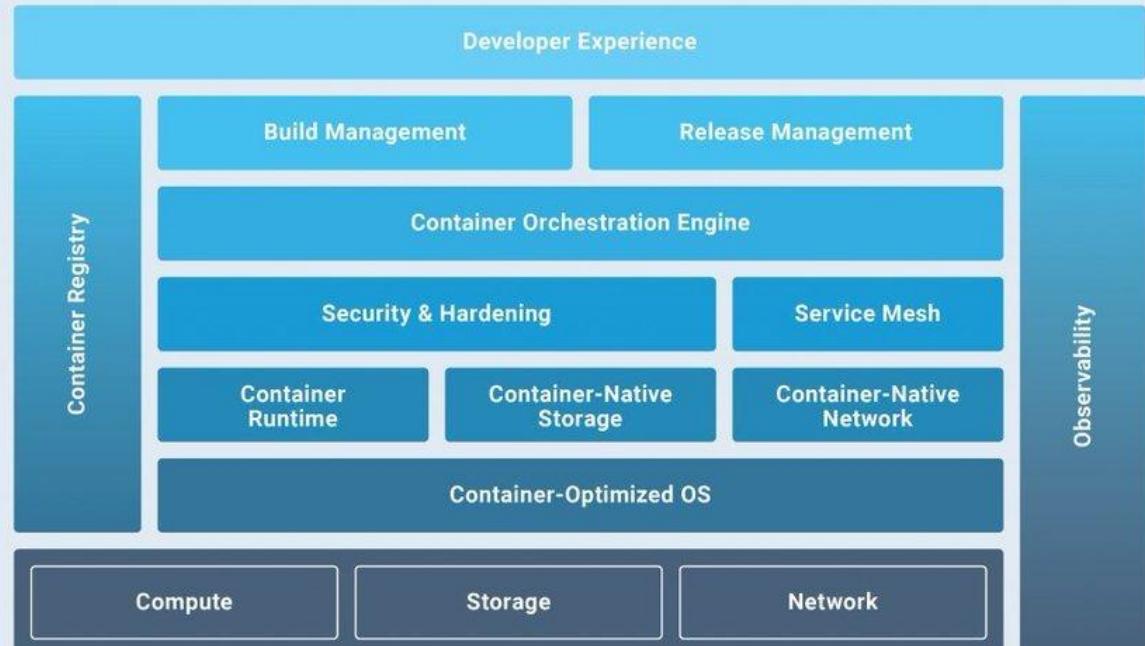
Have your dev teams select and integrate what they need?



Or use OpenShift, a modern cloud native stack

CONFIDENTIAL Designator

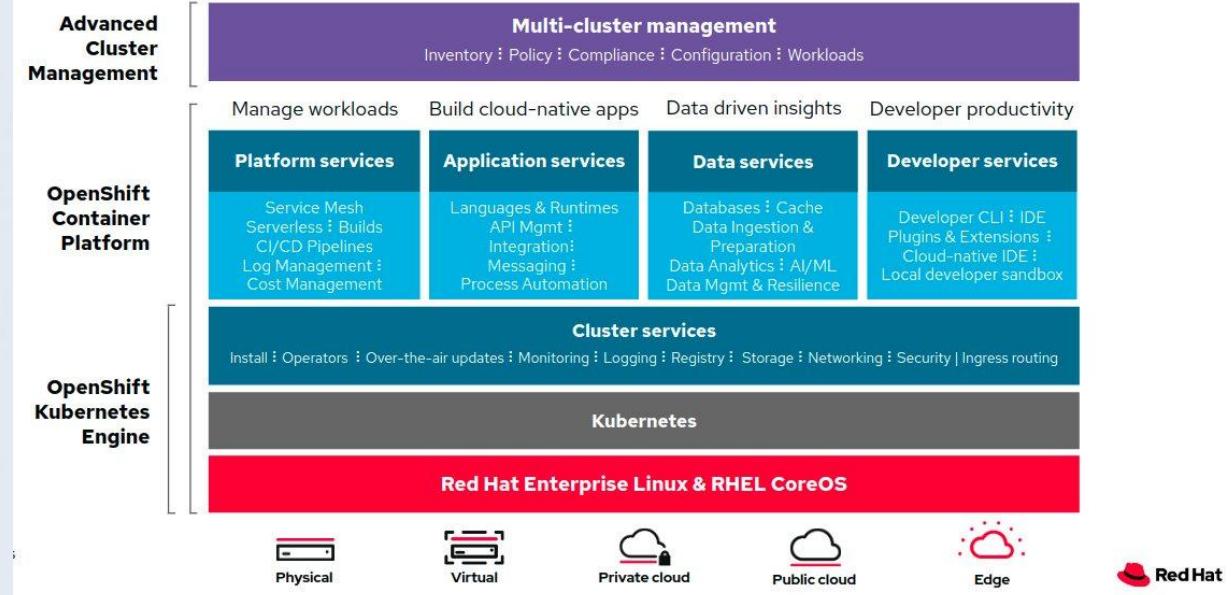
The Cloud Native Stack



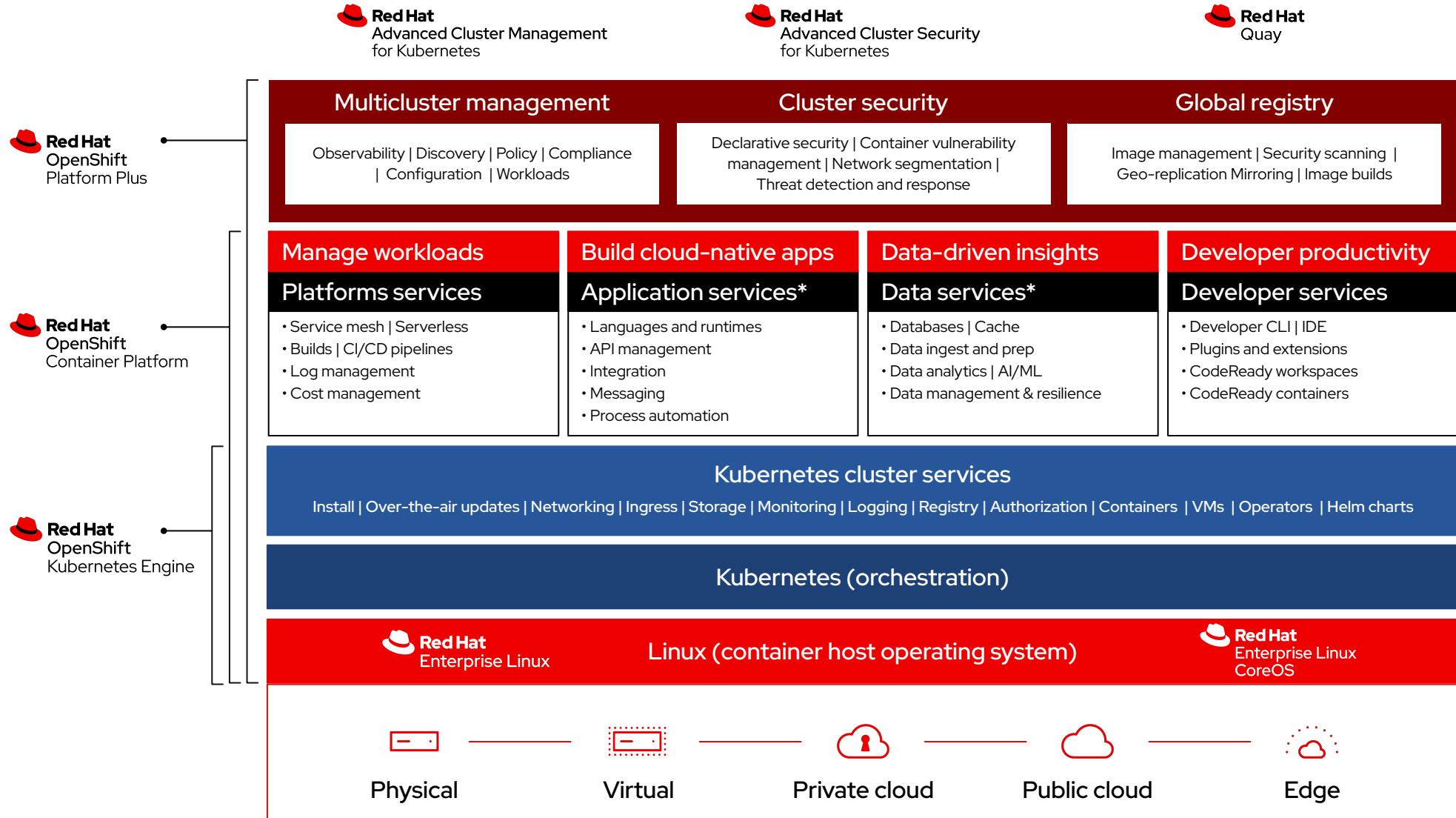
Source: Janakiram MSV

© 2020 THE NEW STACK

OpenShift Container Platform

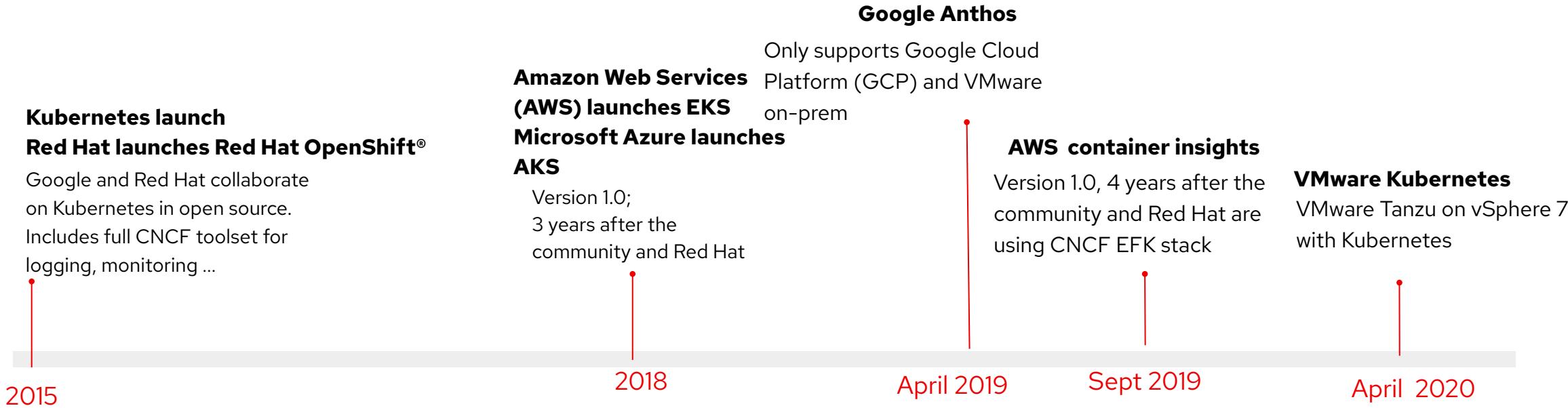


From a newstack article defining a cloud native stack, OpenShift container platform neatly fits the definition. [What Is the Modern Cloud Native Stack? – The New Stack](#)



Red Hat leads Kubernetes development from the start

CONFIDENTIAL designator



5+ years of enterprise
Kubernetes leadership

Red Hat OpenShift

Kubernetes, developer services, operators, serverless, service mesh, container-optimized Linux operating system



Source:
Insert source data here
Insert source data here
Insert source data here



Physical



Virtual



Private cloud



Public cloud



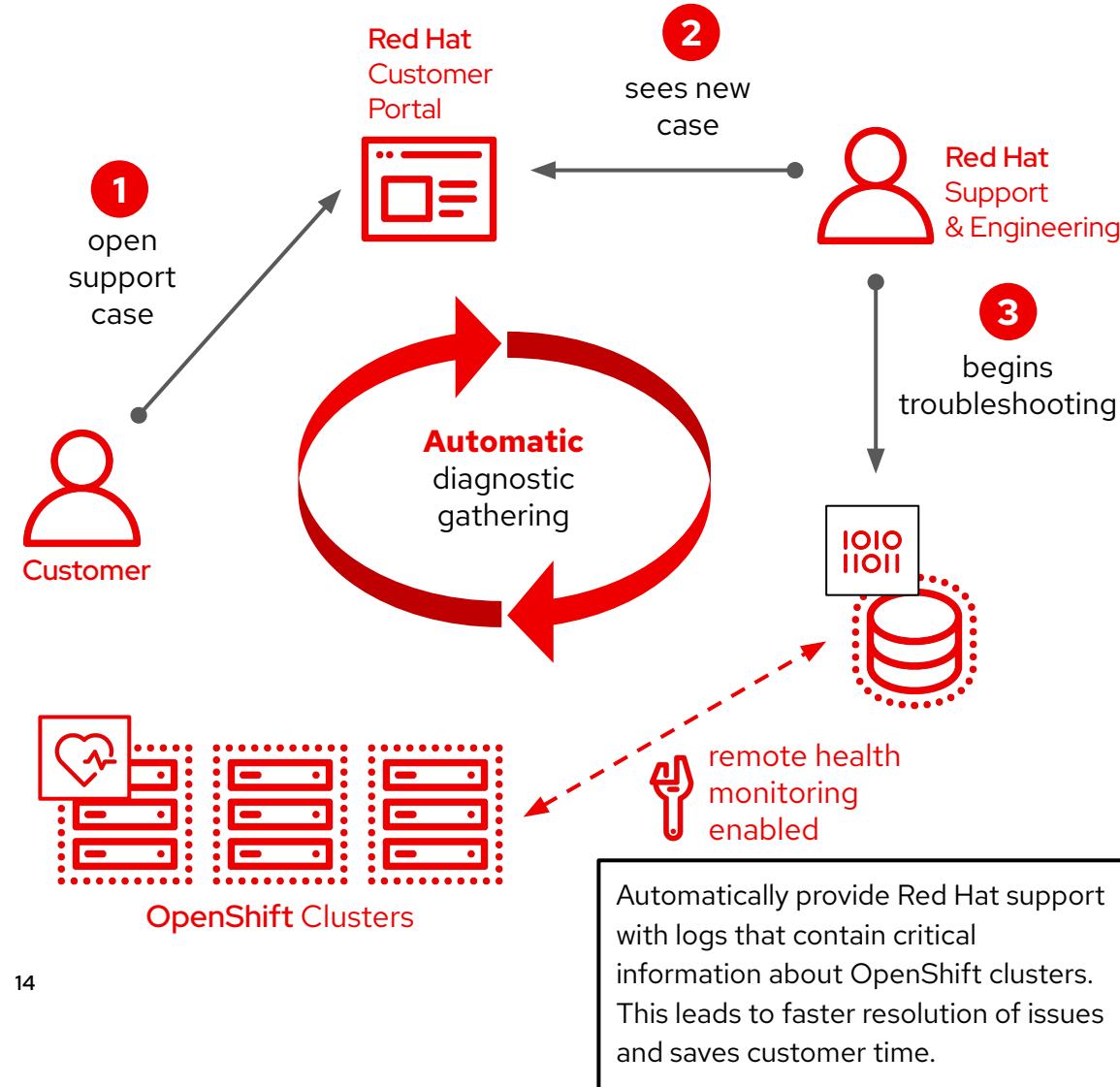
Managed cloud
(Azure, AWS, IBM, Red Hat)

V00000000



Red Hat OpenShift Customer Support Experience

Red Hat's Remote Health Monitoring



Public cloud and OpenShift

Cloud Partner Strategic Partnerships

CONFIDENTIAL designator



**Azure Red Hat
OpenShift
(ARO)**



**Red Hat OpenShift
Service on AWS
(ROSA)**



“ARO is the best way to run
Kubernetes in the cloud.”

Scott Guthrie, EVP, Cloud + AI, Microsoft,
(Red Hat Summit April 2021)

Microsoft Azure

OpenShift clusters



Azure Stack HCI

Kubernetes - Azure Arc

Fully-managed Red Hat
OpenShift service on Azure
and AWS, jointly supported by
both Red Hat and Azure/AWS

“ROSA allows customers to take
advantage of OpenShift and the
breadth of AWS services, and allows
customers to build more secure &
scalable applications faster.”

Matt Garman, VP, Worldwide Sales &
Marketing, AWS (Red Hat Summit April 2021)

Containers

Elastic Container Registry

Elastic Container Service

Elastic Kubernetes Service

Red Hat OpenShift Service on AWS

Open Hybrid Cloud

Red Hat Cloud

Red Hat Marketplace

Open Ecosystem

Red Hat Cloud Experience

Applications



Red Hat
Advanced Cluster Management
for Kubernetes



Red Hat
OpenShift

- Cluster Management
- Policy Management
- Governance
- Cost Management
- Telemetry
- Platform Lifecycle
- Application Lifecycle



Red Hat
Enterprise Linux



Red Hat
Virtualization



Red Hat
OpenStack Platform



vmware®



aws



Google Cloud



IBM Cloud



Microsoft Azure



Alibaba Cloud



Edge Computing

Open Standards || Enterprise-Class || Secure || Scalable || Customer Choice

Red Hat

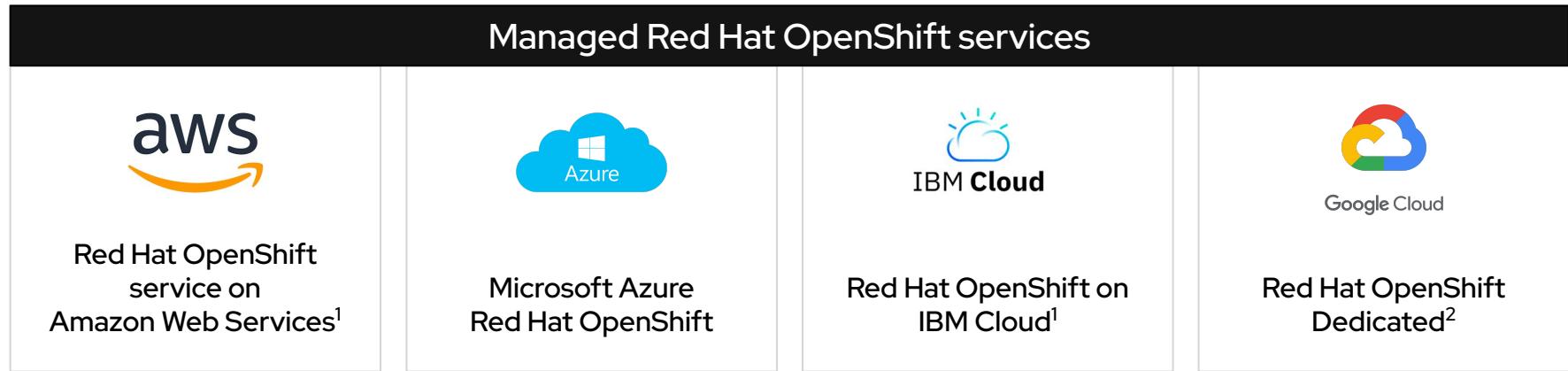
Red Hat OpenShift

CONFIDENTIAL designator

Available as self-managed platform or fully managed cloud service

Start quickly, we
manage it for you

Cloud managed

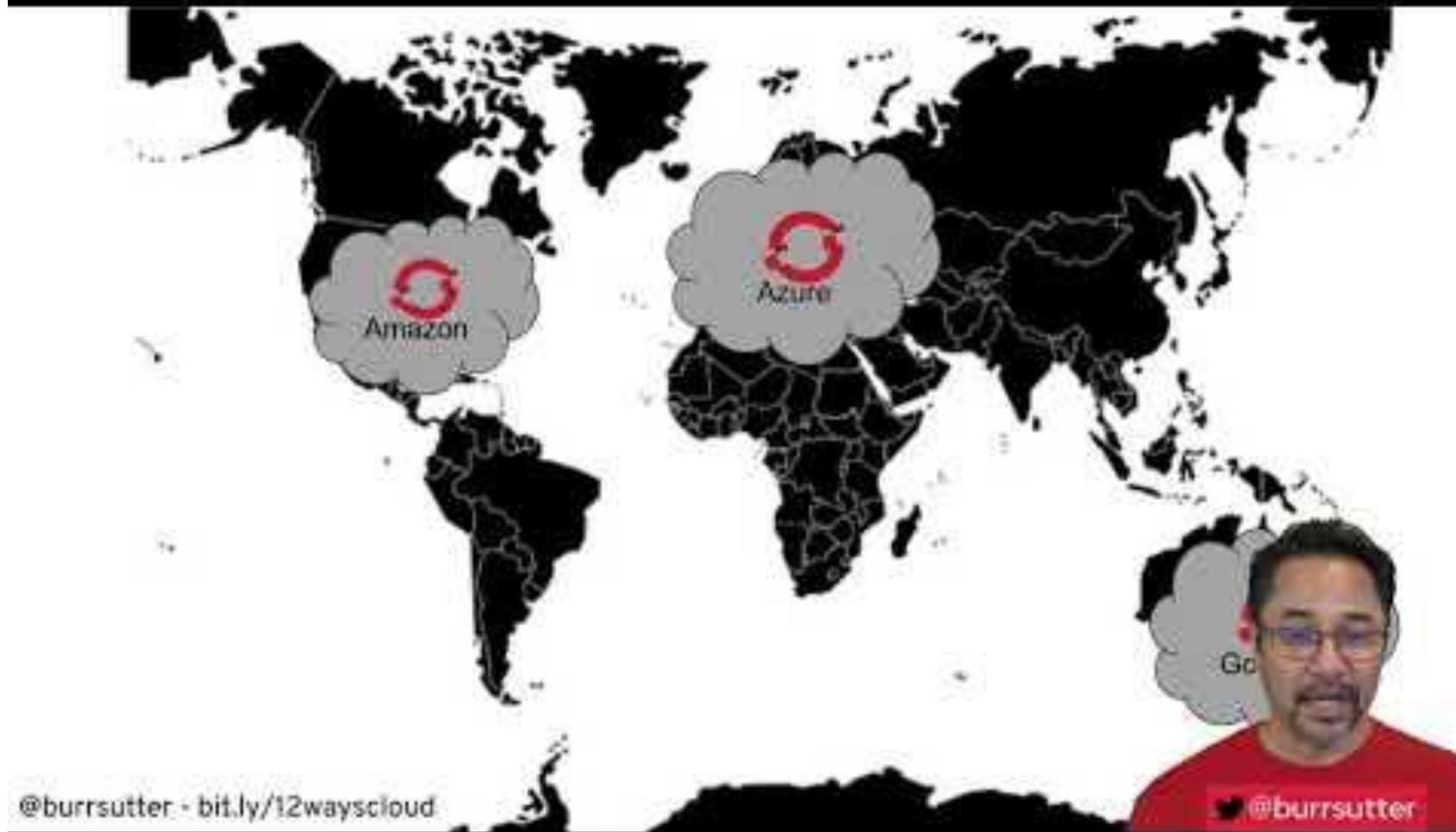


You manage it, for
control and flexibility

Customer managed

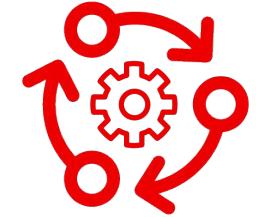


Open Hybrid Cloud Demo



Manage OpenShift Anywhere

Overview



- OCP Cluster Lifecycle Management:
 - Provision new OCP 4.5.x and above
 - Manage existing OCP 3.11, 4.5.x and above
- Import ARO, OSD, OSP and IBM Z
 - Deploy and manage applications across any of these clusters
 - Define security policy, compliance and violations
- Multi-cluster networking with Submariner
 - Support for the Submariner Operator
 - Provides inter-cluster networking for apps that span multiple clusters

The screenshot shows a web-based management interface for Red Hat Advanced Cluster Management for Kubernetes. The title bar reads "Red Hat Advanced Cluster Management for Kubernetes". The main area is titled "Cluster management" and shows a table of clusters. The table has columns for Name, Status, Provider, Distribution, Labels, and Nodes. There are two entries:

Name	Status	Provider	Distribution	Labels	Nodes
cluster1	Ready	aws	Amazon Web Services	OpenShift 4.6.12 cloud=Amazon clusterID=4593ffd4-c18c-4b51-84b0-33ead77c0ee1 name=cluster1 region=us-east-2 vendor=OpenShift	6
local-cluster	Ready	aws	Amazon Web Services	OpenShift 4.6.4 Upgrade available cloud=Amazon cluster.open-cluster-management.io/clusterset=submariner cluster.open-cluster-management.io/submariner-agent=true clusterID=e5275847-4c69-432c-a096-52685029a378 installer.namespace=open-cluster-management local-cluster=true name=local-cluster vendor=OpenShift	7

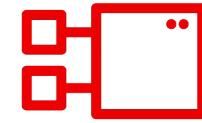
Open hybrid cloud: The platform for big ideas



The same developer experience



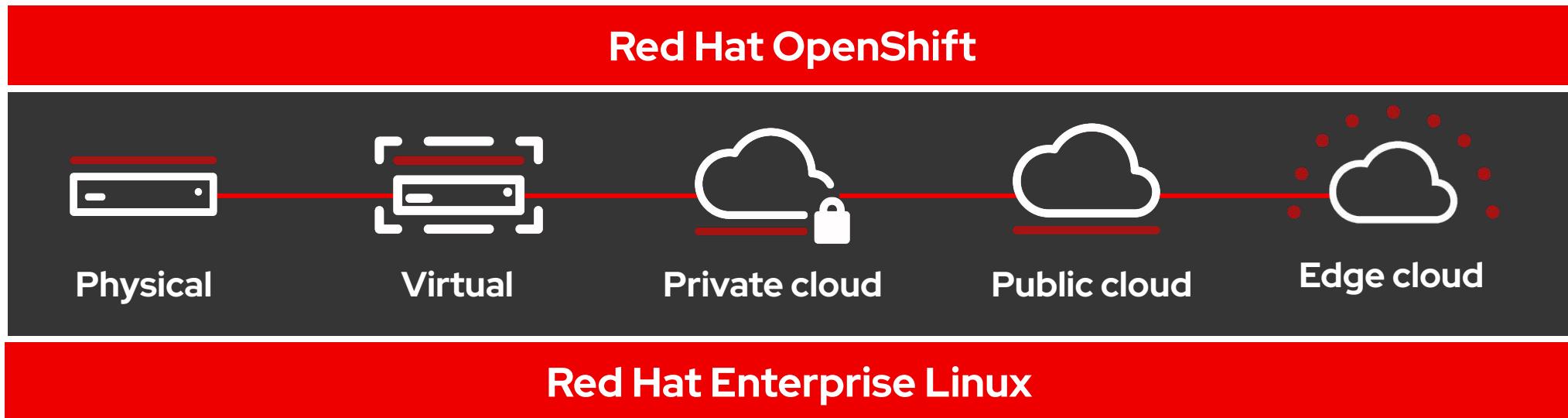
Modernize apps



App migration



Secure



Manage OpenShift Anywhere

- OCP Cluster Lifecycle Management:
 - Provision new OCP 4.4.x - 4.6.x
 - Manage existing OCP 3.11, 4.4.x - 4.6.x
 - Public cloud managed kubernetes: EKS, AKS, GKE, IKS, ROKS
 - Search, find and modify kubernetes resources.
 - Deploy applications, across clusters
 - Define security policy, compliance and violations
 - Provision OCP to **Bare Metal** and **vSphere**
 - More opportunity to mix clouds (public / private)

Red Hat
Advanced Cluster Management for Kubernetes

Clusters /

Create a cluster ⓘ YAML: On

Cancel Create

Configuration

Cluster name* ⓘ

Enter cluster name

Distribution

Select the type of Kubernetes distribution to use for your cluster.

Red Hat OpenShift

Select an infrastructure provider to host your Red Hat OpenShift cluster.

 **AWS** Amazon Web Services

 **Google Cloud**

 **Microsoft Azure**

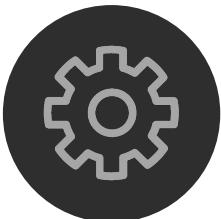
 **VMware vSphere**

 **Bare Metal**

Cluster YAML Reset ↶ ↷ 🔍 F ↶ ↷ X

```
1 apiVersion: hive.openshift.io/v1
2 kind: ClusterDeployment
3 metadata:
4   name: cluster
5   namespace: openshift
6   labels:
7     cloud: ''
8     vendor: 'OpenShift'
9 spec:
10   baseDomain:
11   clusterName:
12   controlPlaneConfig:
13     servingCertificates: {}
14   installed: false
15   platform:
16     provisioning:
17       installConfigSecretRef:
18         name: -install-config
19       sshPrivateKeySecretRef:
20         name: -ssh-private-key
21     pullSecretRef:
22       name: -pull-secret
23   ...
24   apiVersion: cluster.open-cluster-management.io/v1
25   kind: ManagedCluster
26   metadata:
27     labels:
28       name:
29       vendor: OpenShift
30   name:
31   spec:
32     hubAcceptsClient: true
33   ...
34   apiVersion: v1
35   kind: Secret
36   metadata:
37     name: -install-config
38     namespace: openshift
39   type: Opaque
```

How is Red Hat Marketplace different?



Any cloud. On-prem. Anywhere OpenShift runs.

Build once, deploy to any environment with software that allows for workload portability across clouds.



Certified enterprise software

All software is certified for Red Hat OpenShift and uses Kubernetes operators for built-in management logic.



Continuous support

Central support portal offers a single point of entry for any software purchased in the marketplace.



Consolidated usage tracking and spend optimization

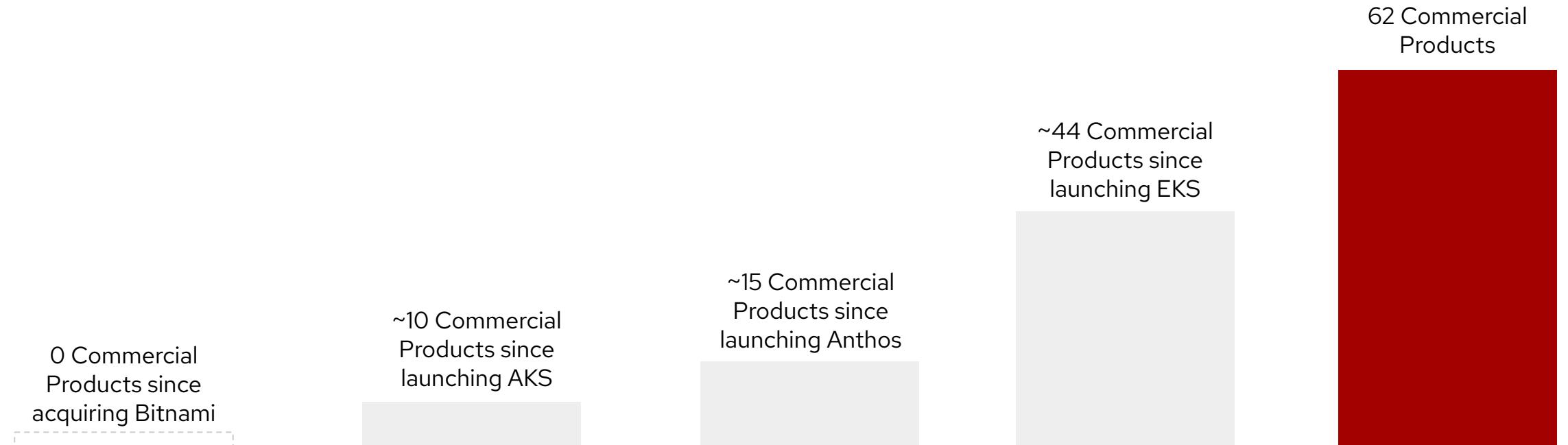
Pool spending across clouds. Monitor license usage, expiration, and renewals on a single dashboard.

The screenshot shows the Red Hat Marketplace homepage. The top navigation bar includes links for Red Hat, Marketplace, Workspace, Support, and About. The main heading is "Red Hat Marketplace" with the tagline "Quickly find, buy and deploy software to any cloud". Below the search bar, there are links for "Find your product" and "Onboard your product". The page features a sidebar with "Product Categories" and a grid of software offerings. Each item includes a thumbnail, name, developer, rating, and a "View All" link. The categories listed in the sidebar are: AI/Machine Learning, Cloud Provider, Logging & Tracing, Security, Application Monitoring, Database, Monitoring, Storage, Application Runtime, Developer Tools, Networking, Big Data, Integration & Delivery, OpenShift Optional, and Other.

Category	Product	Developer	Rating	Count
AI/Machine Learning	Airflow	By Apache	★★★★★ (3)	38
Cloud Provider	DataStax Enterprise	By DataStax	★★★★★ (38)	42
Logging & Tracing	Elasticsearch	By Elasticsearch	★★★★★ (4)	42
Security	PeerNova	By PeerNova	★★★★★ (42)	42



Though new, Red Hat Marketplace is ahead



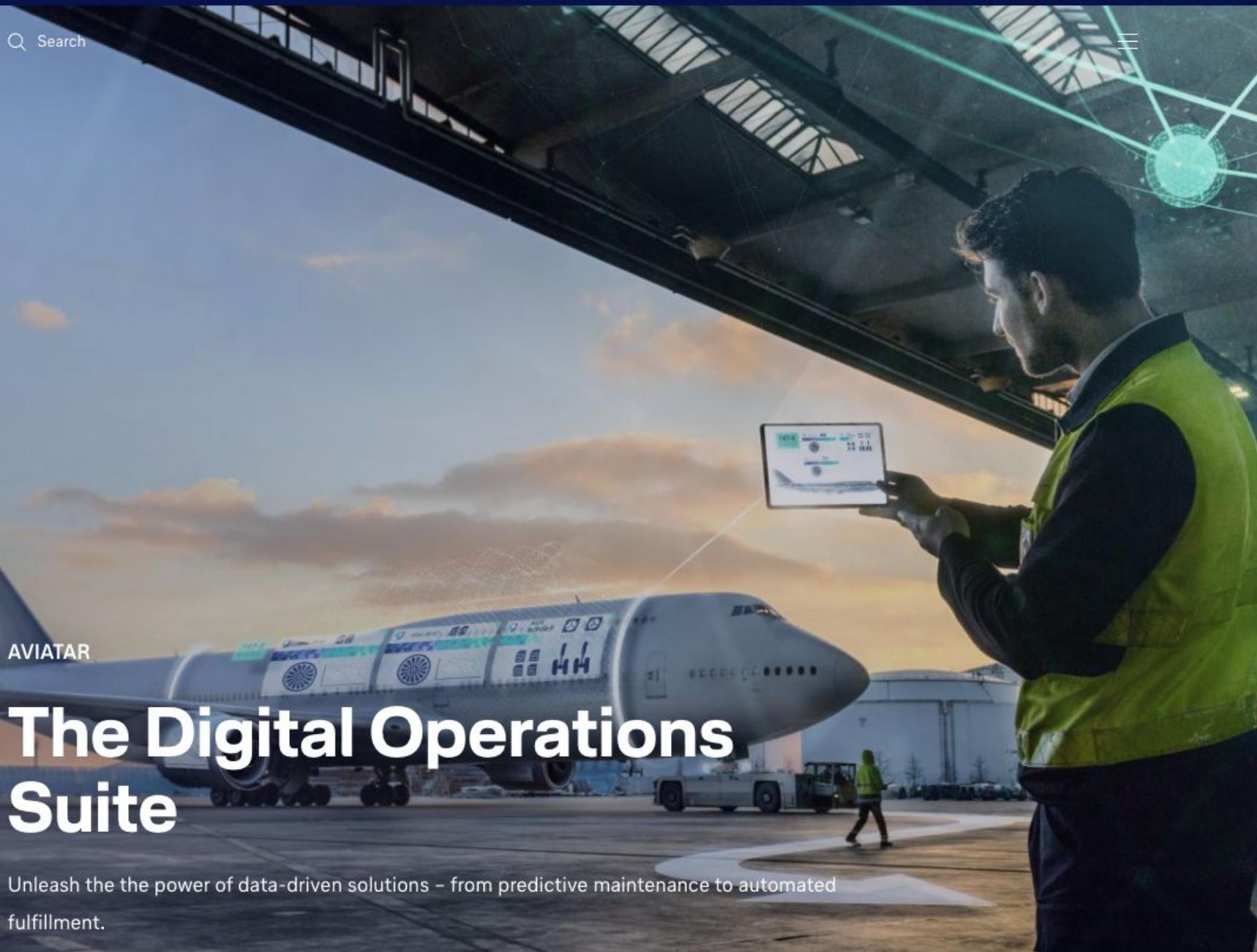
As of Sept 2020



Some Storys



Search



The Digital Operations Suite

Unleash the power of data-driven solutions – from predictive maintenance to automated fulfillment.

Customers seeing value of Managed Services, Lufthansa

- Lufthansa Technik set up a hybrid cloud environment using both **Azure and on-premise infrastructure** to run AVIATAR's application services.
- Enables the company to more quickly deploy new components and provide a public cloud option for AVIATAR users.
- Red Hat **OpenShift Container Platform**, running on Azure, designed to support the AVIATAR's agile, **DevOps** approach of continuous improvement.
- Red Hat OpenShift Container Platform also helps Lufthansa Technik to build, deploy, run and integrate the components of the new infrastructure, including cloud-native applications and microservices.

Johannes Hansen, senior director application development & user experience, Digital Fleet Solutions, Lufthansa Technik AG

"With Red Hat OpenShift Container Platform on Microsoft Azure, for example, we can start implementing a new application immediately, without waiting for any infrastructure, allowing us to produce results in just a few days and have a minimum viable product after just several weeks."

Customers seeing value of Managed Services, Vodafone, N.Z.

- Vodafone New Zealand navigated transformation and migrating from a legacy integration platform to a container-based, open source, integration solution using Red Hat Integration and Red Hat OpenShift Container Platform.
- Red Hat Fuse, Red Hat AMQ, and 3scale by Red Hat were employed to provide an integration platform to complement their new cloud-native OSS/BSS stack.
- Multicloud Red Hat OpenShift platform comprising of **Microsoft Azure Red Hat OpenShift**, on-premise **OpenShift on AzureStack**, and in the future, managed OpenShift on another public cloud.
- Quay will be providing an enterprise-grade registry for all of the OpenShift platforms.



Our network

Our commitment

For families

Managed Services on Microsoft Azure
Hybrid on Azure Stack on-prem



Customers seeing value of Managed Services, Audi, Germany

- At Audi, we have a highly-skilled Kubernetes team who has worked since 2017 with a proprietary Kubernetes control plane, called Kubika 1.0. This single-tenant solution was state of the art, but only suitable for the DevOps team. We wanted to know how we could enable teams **without the necessary staff** to own a stack end to end?
- Introduced a multitenant solution like **Red Hat OpenShift Dedicated**, which is operated by Red Hat
- With OpenShift Dedicated, we created a cross-brand collaborative ecosystem that, in the future, goes far beyond.

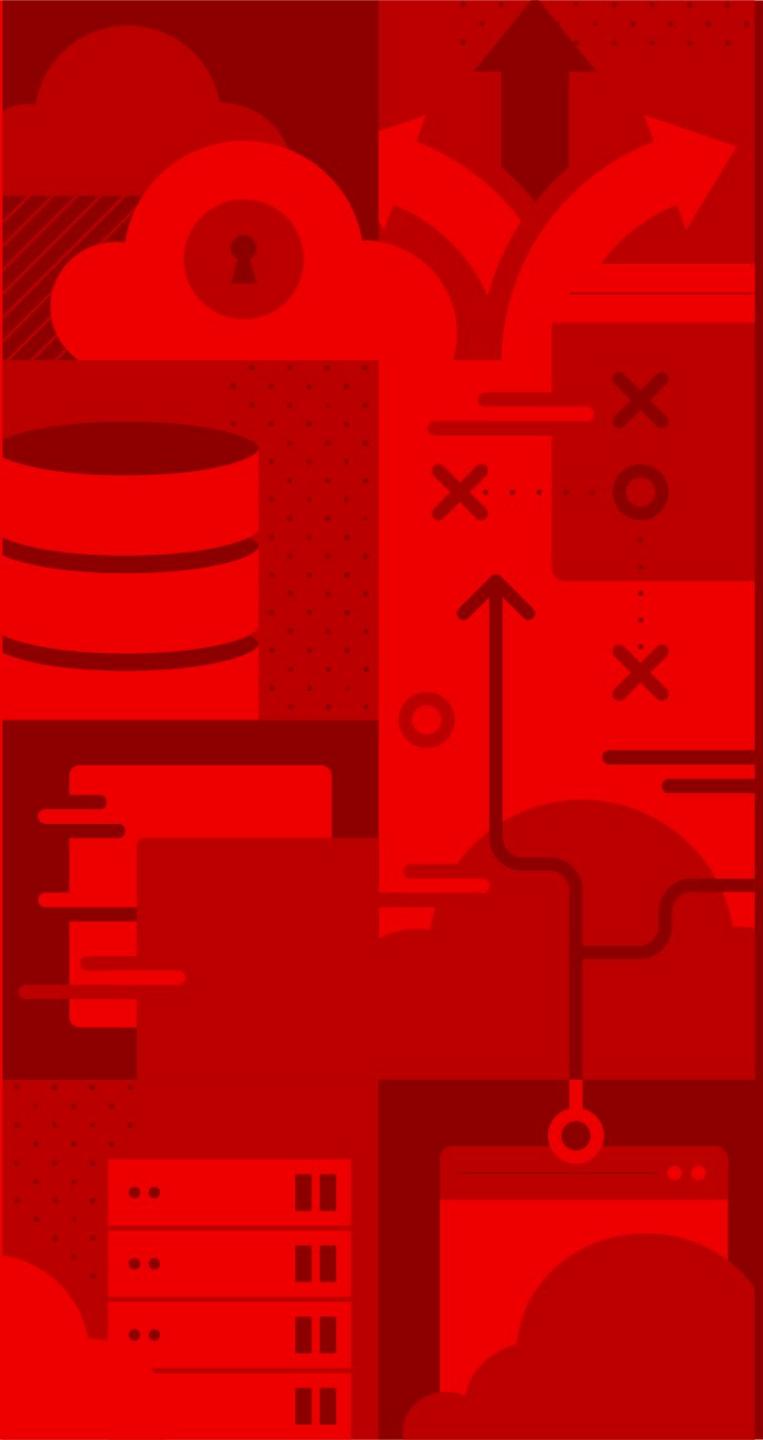
Chose Managed Services to alleviate staffing concerns



Customers seeing value of Managed Services, Snam, Italy

- Snam oversees one of the world's largest natural gas transportation networks, 2 LNG terminals and the largest European natural gas storage capacity.
- Red Hat OpenShift, to run and scale applications across its current on-premises datacenters extending out to the edge and OpenShift Data Foundation, which provides software-defined storage for containerized applications.
- Snam can now deploy applications, automated, in as little as 30 minutes, improving by more than 10x the time to delivery of its new software products.
- Red Hat OpenShift has been deployed **on-premises** and on the **edge** of the network, with Snam also taking advantage of the public cloud, using **Microsoft Azure Red Hat OpenShift**



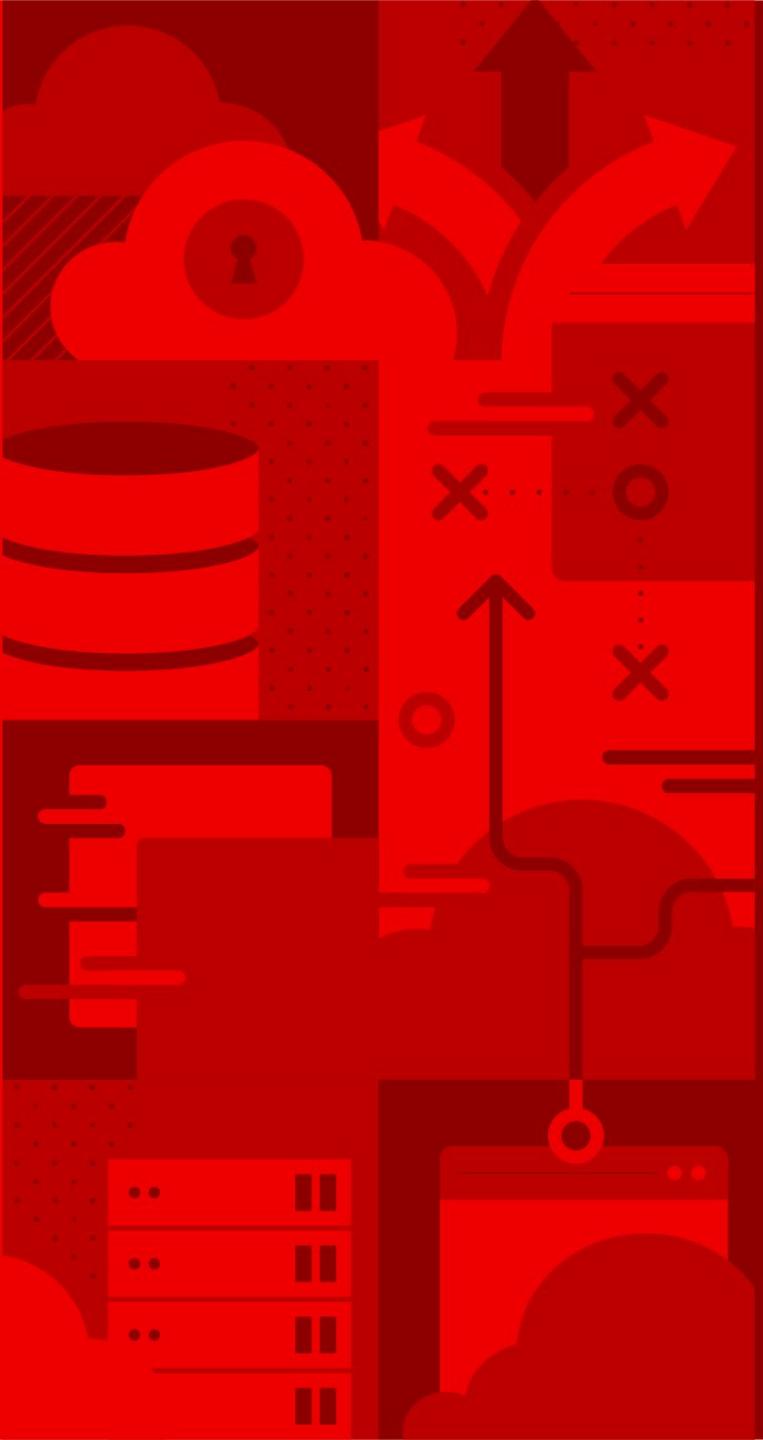


Red Hat OpenShift Managed Services Portfolio

READ ME

Instructions:

- If using this deck for a customer presentation, make a copy first!
- The next slides are solution specific across OSD, ARO, ROSA and ROKS.
- Please hide the slides that are not relevant to the discussion before presenting.
- Then hide this slide as well.



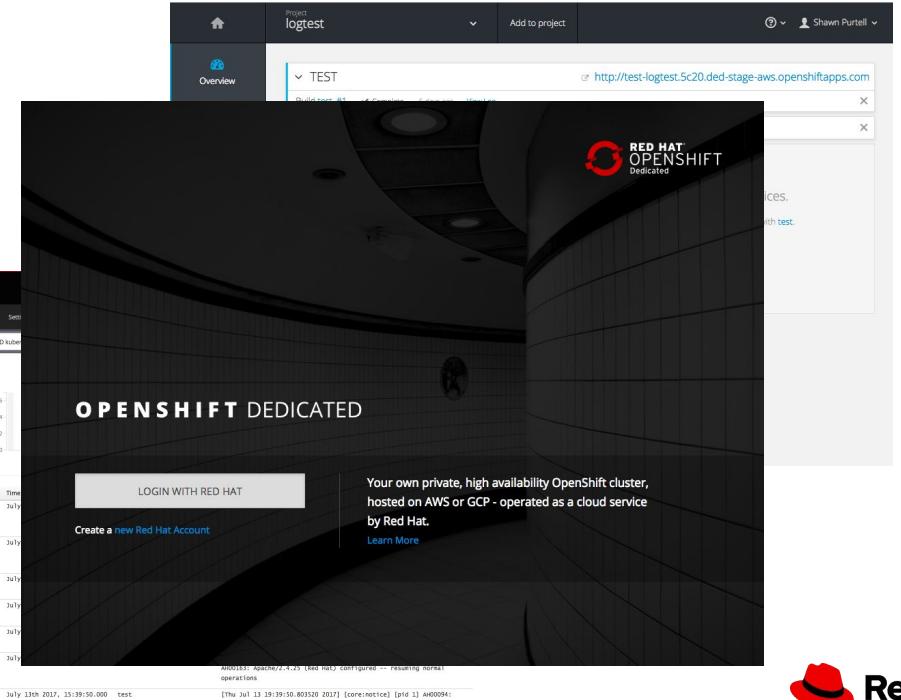
Red Hat OpenShift Dedicated

Red Hat OpenShift Dedicated

A fully managed OpenShift service

Red Hat OpenShift Dedicated offers one or more standardized OpenShift clusters, hosted in AWS or GCP and operated as a cloud service by Red Hat

- Installed and maintained by Red Hat
- Option of Red Hat or customer owned AWS or GCP account
- Choice of region, node size, AZ distribution
- Integrated logging, metrics and authentication
- OpenShift Cluster Manager for creating, viewing clusters
- Managed upgrades and patching
- VPN and VPC peering
- Premium Red Hat support with a 99.95% uptime SLA
- OpenShift API management - up to 100k calls/day



Red Hat OpenShift Dedicated on OpenShift 4

Automation

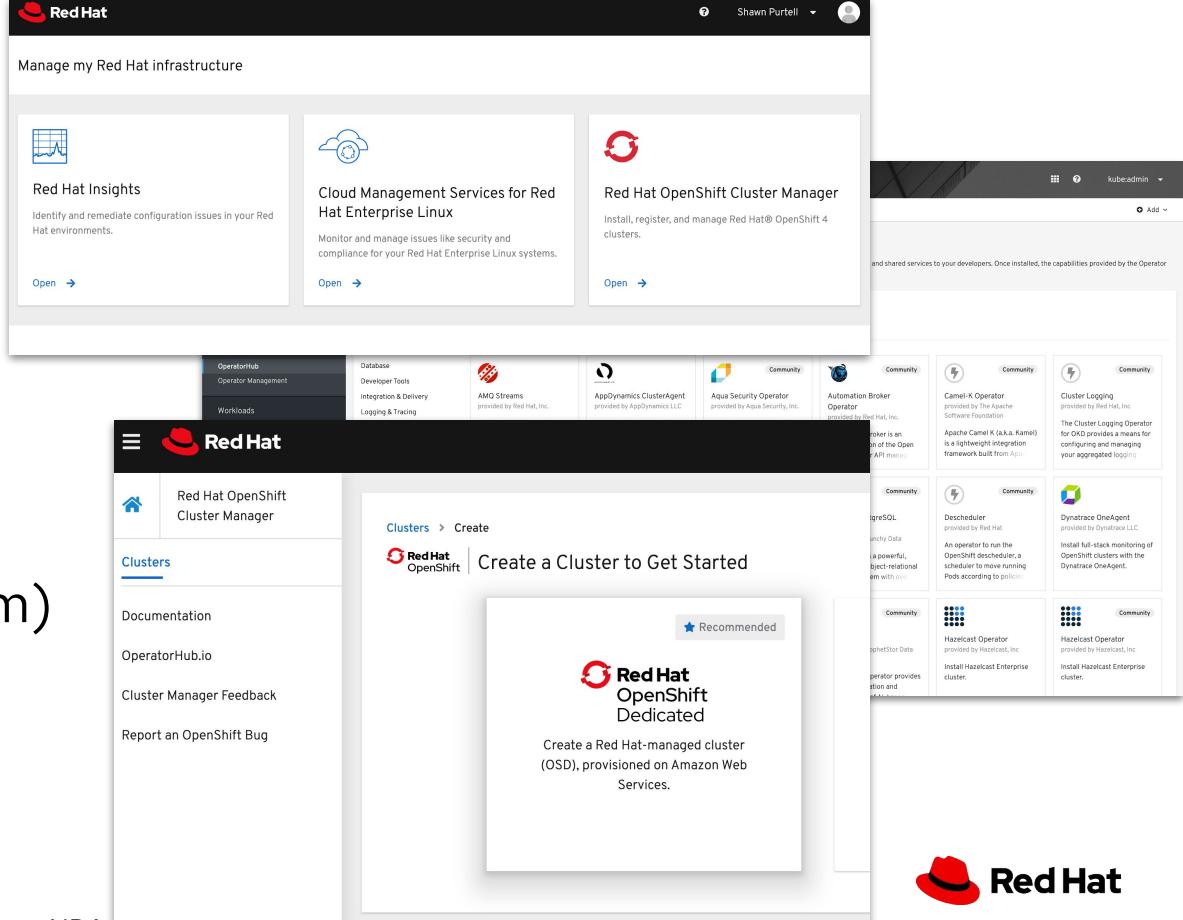
- More frequent updates
- Operator-based master and infra services

Operator Support

- Operator Framework
- OperatorHub & Certified ISVs

Self-Service

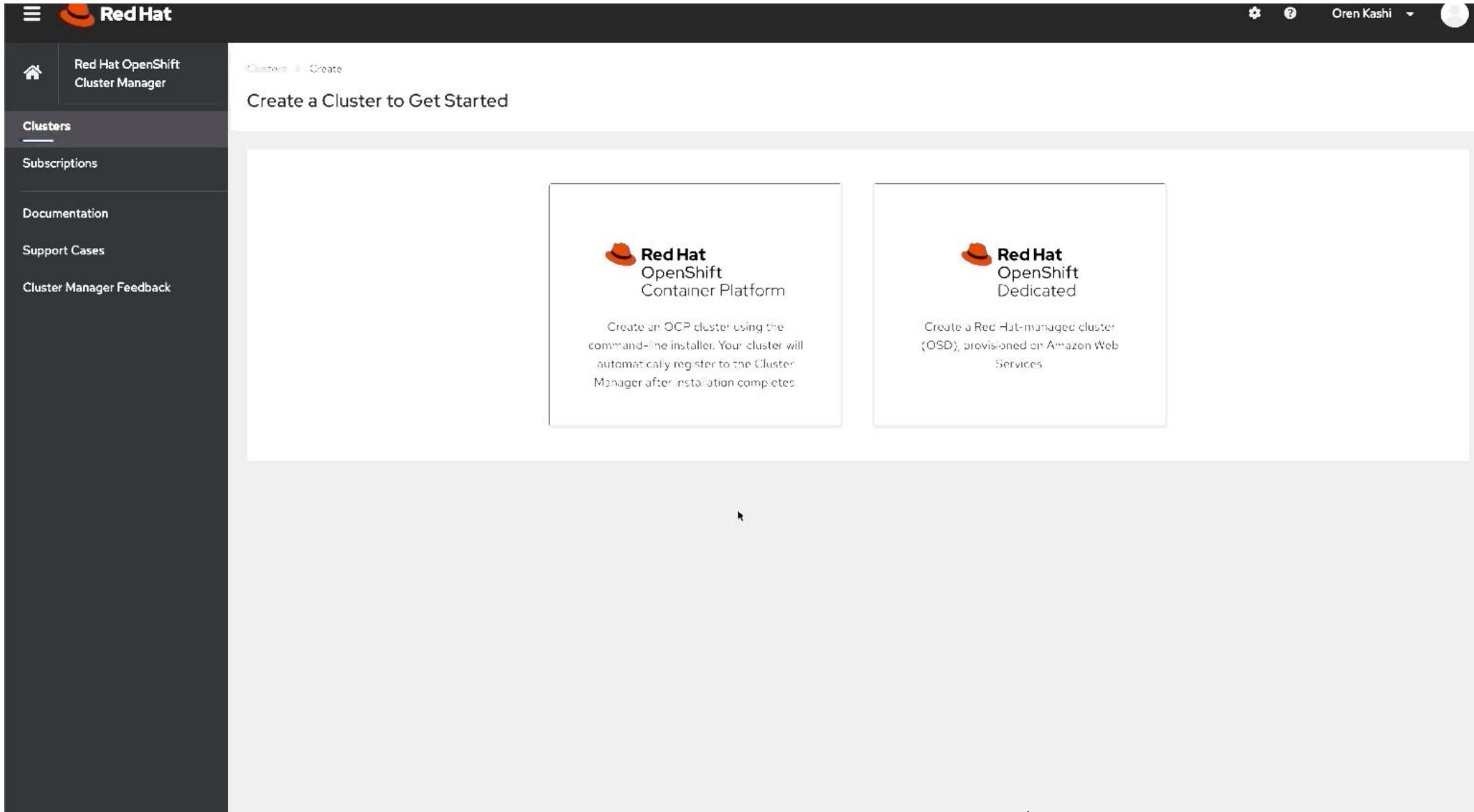
- OpenShift Cluster Manager (cloud.redhat.com)
- Provisioning clusters
- Dedicated-admin management
- Node scaling



The image shows two screenshots of the Red Hat OpenShift Cluster Manager interface. The top screenshot displays the OperatorHub with several operator cards: Red Hat Insights, Cloud Management Services for Red Hat Enterprise Linux, and Red Hat OpenShift Cluster Manager. The bottom screenshot shows a 'Clusters > Create' dialog for 'Red Hat OpenShift Dedicated', which is a recommended operator for creating a Red Hat-managed cluster on Amazon Web Services.

Deploying a new OpenShift Dedicated (OSD) Cluster using OpenShift Cluster Manager

CONFIDENTIAL Customer facing

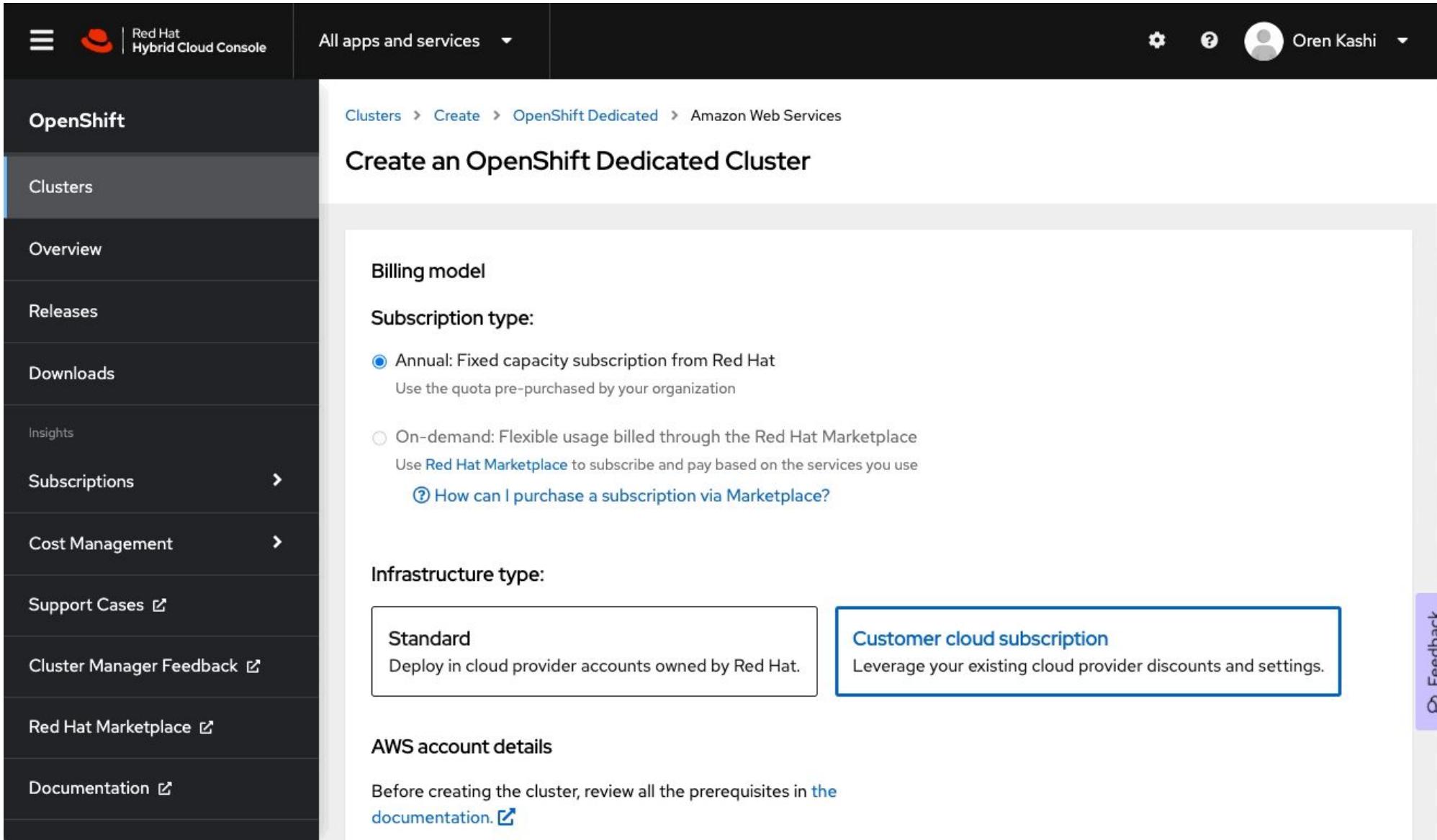


The screenshot shows the Red Hat OpenShift Cluster Manager web interface. The left sidebar is dark with the Red Hat logo and the text "Red Hat OpenShift Cluster Manager". The "Clusters" option is selected and highlighted in blue. The main content area has a light gray background with the heading "Create a Cluster to Get Started". Below this, there are two large rectangular boxes. The left box is titled "Red Hat OpenShift Container Platform" and contains the text: "Create an OCP cluster using the command-line installer. Your cluster will automatically register to the Cluster Manager after installation completes." The right box is titled "Red Hat OpenShift Dedicated" and contains the text: "Create a Red Hat-managed cluster (OSD), provisioned on Amazon Web Services". At the bottom of the page, there is a footer bar with the text "Customer or partner ID required" and a "Next" button. The top right corner of the interface shows the user "Oren Kashi" and a profile picture.



Deploying a new OpenShift Dedicated (OSD) Cluster using OpenShift Cluster Manager

CONFIDENTIAL Customer facing



The screenshot shows the Red Hat Hybrid Cloud Console interface. The top navigation bar includes the Red Hat logo, 'Red Hat Hybrid Cloud Console', a search bar ('All apps and services'), and a user profile ('Oren Kashi'). The left sidebar has a 'Clusters' section selected, with options for 'Overview', 'Releases', 'Downloads', 'Insights', 'Subscriptions', 'Cost Management', 'Support Cases', 'Cluster Manager Feedback', 'Red Hat Marketplace', and 'Documentation'. The main content area is titled 'Create an OpenShift Dedicated Cluster' and shows the 'Clusters > Create > OpenShift Dedicated > Amazon Web Services' navigation path. It starts with a 'Billing model' section, which is currently set to 'Annual: Fixed capacity subscription from Red Hat' (selected with a radio button). Below this, there are two options: 'On-demand: Flexible usage billed through the Red Hat Marketplace' (with a link to 'How can I purchase a subscription via Marketplace?'). The next section is 'Infrastructure type', with two options: 'Standard' (selected) and 'Customer cloud subscription' (highlighted with a blue border). The 'Standard' option describes deploying in cloud provider accounts owned by Red Hat. The 'Customer cloud subscription' option describes leveraging existing cloud provider discounts and settings. At the bottom, there is an 'AWS account details' section with a note to review prerequisites in the documentation. A 'Feedback' button is located on the right side of the main content area.

All apps and services

Clusters

Overview

Releases

Downloads

Insights

Subscriptions

Cost Management

Support Cases

Cluster Manager Feedback

Red Hat Marketplace

Documentation

Clusters > Create > OpenShift Dedicated > Amazon Web Services

Create an OpenShift Dedicated Cluster

Billing model

Subscription type:

Annual: Fixed capacity subscription from Red Hat
Use the quota pre-purchased by your organization

On-demand: Flexible usage billed through the Red Hat Marketplace
Use [Red Hat Marketplace](#) to subscribe and pay based on the services you use
[How can I purchase a subscription via Marketplace?](#)

Infrastructure type:

Standard
Deploy in cloud provider accounts owned by Red Hat.

Customer cloud subscription
Leverage your existing cloud provider discounts and settings.

AWS account details

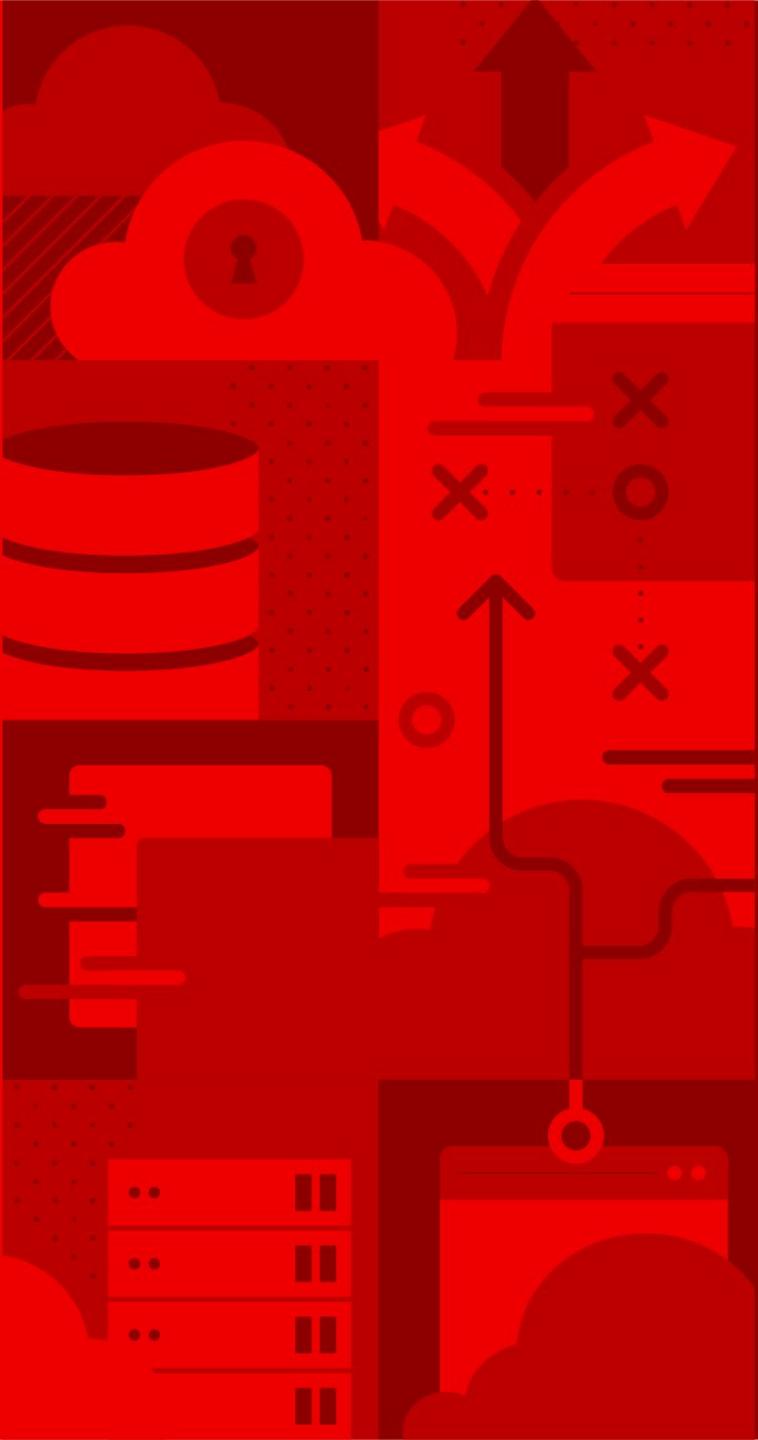
Before creating the cluster, review all the prerequisites in [the documentation](#).

Feedback

OpenShift Dedicated Cluster view in OpenShift Cluster Manager

CONFIDENTIAL Customer facing

The screenshot shows the Red Hat OpenShift Cluster Manager interface. The top navigation bar includes the Red Hat logo, a navigation menu, and user account information for 'Oren Kashi'. The left sidebar contains links for 'Red Hat OpenShift Cluster Manager', 'Clusters', 'Subscriptions', 'Overview', 'Support Cases', 'Cluster Manager Feedback', 'Red Hat Marketplace', and 'Documentation'. The main content area is titled 'Clusters' and features a table with columns: Name (sorted by ascending), Status, Type, Created, Version, and Provider (Location). The table is currently empty, showing 0 results. A 'Create cluster' button is located at the top of the table area. The 'Provider (Location)' column header is highlighted with a mouse cursor.



Azure Red Hat OpenShift

Azure Red Hat OpenShift



Jointly engineered,
operated, and
supported by
Microsoft and Red Hat
with an integrated
support experience



Empower developers to innovate

Support for traditional, cloud native & serverless tools
Easily connect to hundreds of Azure services



Scale on-demand. Pay as you go

Scale as your application demand changes
Leverage your Azure monetary commits



Enterprise-grade operations, security, and compliance

SLA: 99.95%, 24*7 premium support
Compliant with PCI DSS, HITRUST, FedRAMP, SOC2 Type 2, ISO 27001, and HIPAA



Red Hat



Microsoft

Flexible, self-service deployment

Create fully managed OpenShift clusters in minutes using `az aro create`





Highlights - Azure Red Hat OpenShift on OpenShift 4

Enhanced Features, Availability and Control

- **Full cluster admin** - Full cluster admin support for advanced customization
- **Private clusters / Express Route support** - Create fully managed clusters in a custom VNet with no public endpoints
- **Bring your own VNet** - Deploy OpenShift 4 based clusters into your own VNet
- **Cluster Autoscaling** - Automatically adjust the size of your cluster
- **Multi-AZ clusters** - Clusters automatically deploy across three availability zones

Operator Support

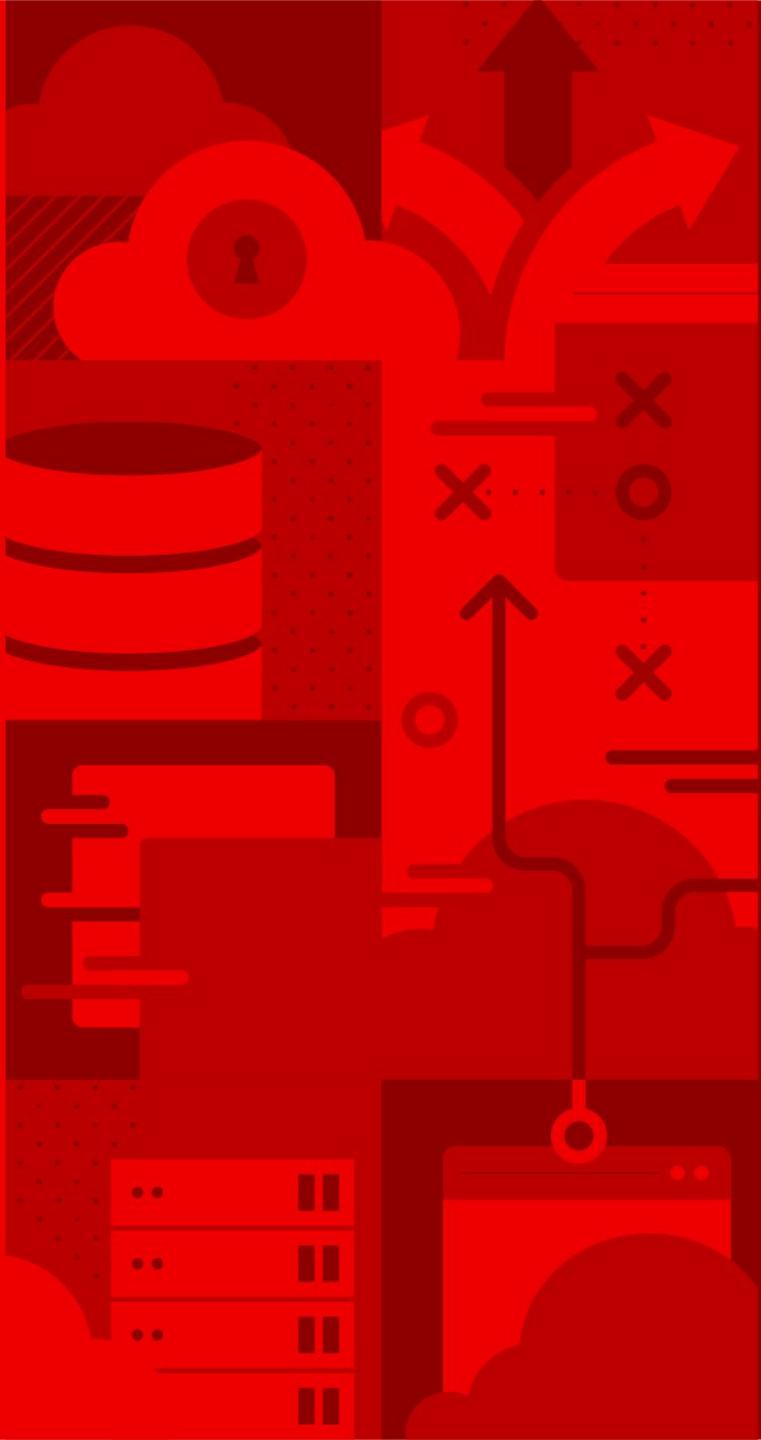
- **Operator/CRD support** - Support for Operators and Custom Resource Definitions

Improved Developer Productivity

- **Developer Productivity tools** - Service Mesh, CodeReady Workspaces, serverless etc.
- **Azure Portal Integration** - Easily view OpenShift clusters in the Azure web portal

Regulatory Compliance

- **Compliance Certifications:** PCI DSS, HiTrust, FedRAMP High, SOC 2, ISO 27001 (HIPAA coming soon)



Red Hat OpenShift Service on AWS

Red Hat OpenShift Service on AWS



Fully-managed Red Hat OpenShift service on AWS, jointly supported by both Red Hat and AWS



Clear path to hybrid cloud deployments

Delivers the production-ready Kubernetes that many enterprises already use on-premises today, simplifying the ability to shift workloads to the AWS public cloud as business needs dictate.



Empower developers to innovate

Give your team the focus and tools to accelerate the development process with familiar APIs, [API management](#) and existing Red Hat OpenShift tools for deployment in AWS



Flexible, consumption-based pricing

Scale as per your business needs and pay as you go with flexible pricing with an on-demand hourly or annual billing model.

ROSA Benefits



Native AWS Service

- Access on-demand from the AWS console
- AWS integrated experience for cluster creation and management
- Foundation based on RHEL, providing a stable and secure platform for hybrid deployments



Unified Bill

- Leverage your existing AWS commitment to use OpenShift
- Get a single unified bill from AWS for both OpenShift and AWS consumption



Joint Support

- Integrated support systems
- Contact Red Hat or AWS support
- Built on Red Hat and AWS' decades of enterprise IT knowledge and experience

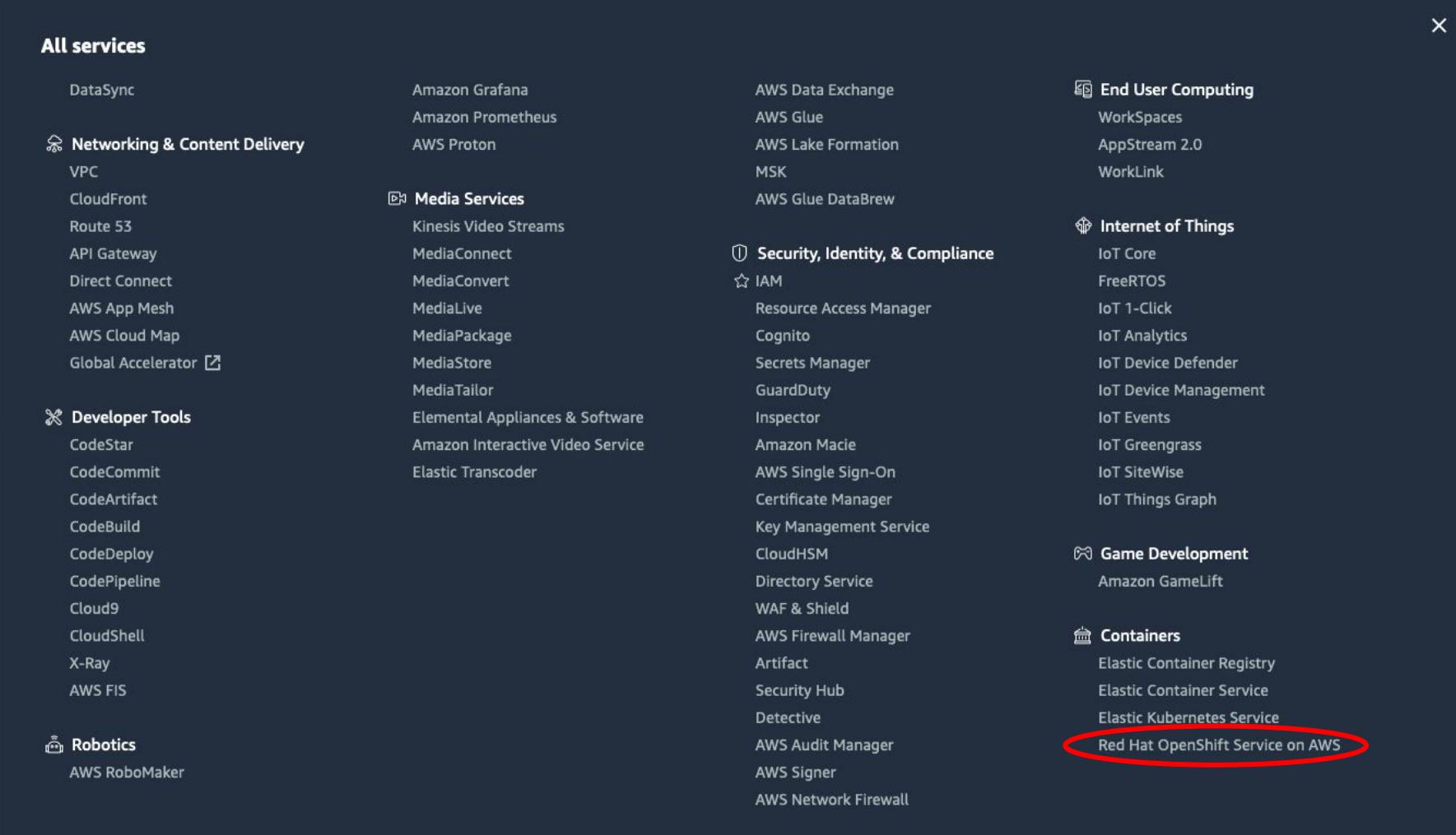


Integration with AWS Services

- Build containerized applications that integrate natively with the more than 170 AWS cloud-native services

Red Hat OpenShift Service on AWS

Amazon Red Hat OpenShift is located in the Amazon Console along with other container services and can access all AWS and OpenShift services

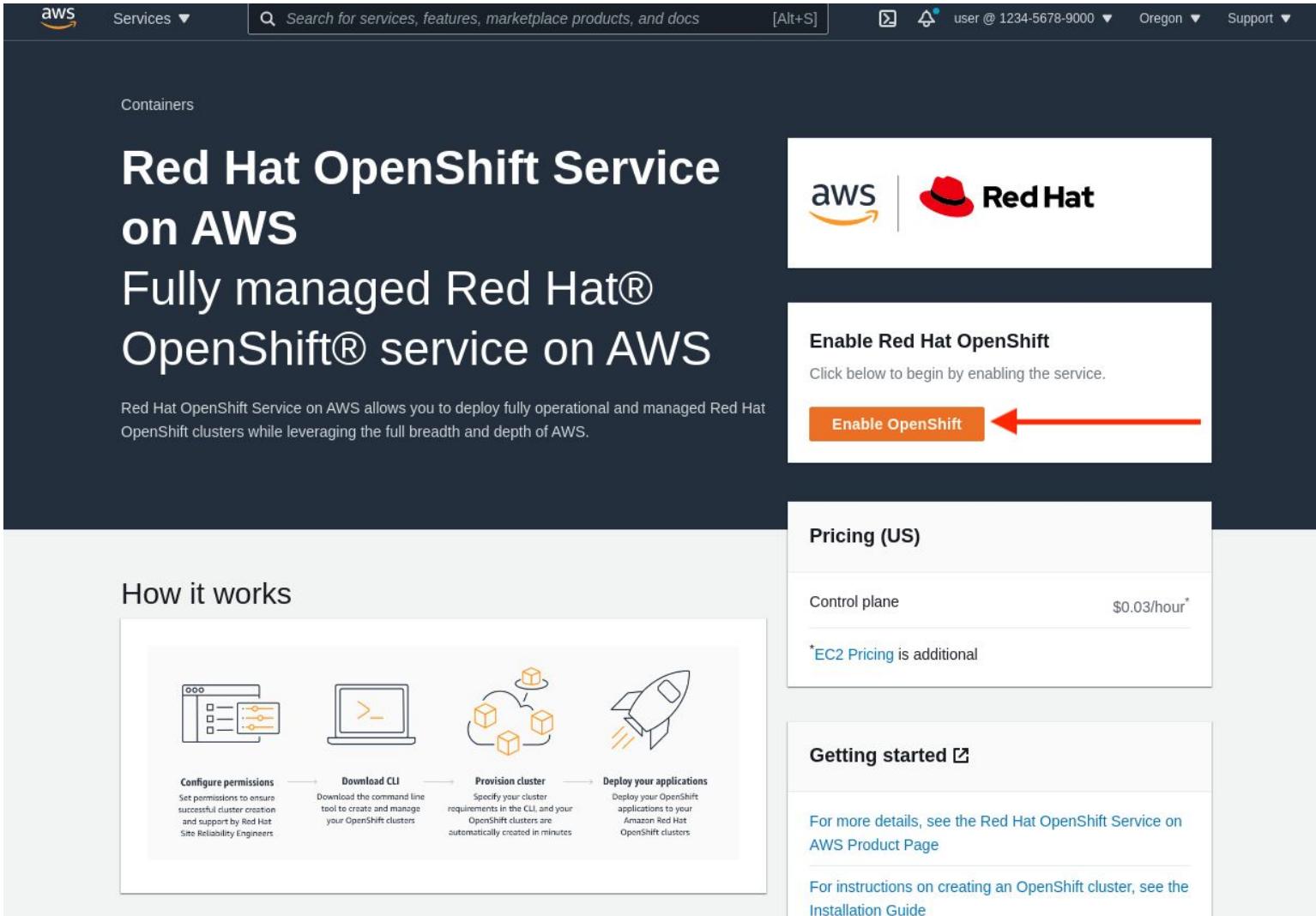


The screenshot shows the AWS Services Catalog interface with a dark theme. The 'All services' list is displayed in a grid format. The services are categorized into groups: Networking & Content Delivery, Media Services, Security, Identity, & Compliance, Internet of Things, Game Development, and Containers. The 'Red Hat OpenShift Service on AWS' service is located in the 'Containers' group, which is circled in red at the bottom right of the list.

All services					
DataSync	Amazon Grafana	AWS Data Exchange	End User Computing		
Networking & Content Delivery	Amazon Prometheus	AWS Glue	WorkSpaces		
VPC	AWS Proton	AWS Lake Formation	AppStream 2.0		
CloudFront	Media Services	MSK	WorkLink		
Route 53	Kinesis Video Streams	AWS Glue DataBrew			
API Gateway	MediaConnect		Internet of Things		
Direct Connect	MediaConvert		IoT Core		
AWS App Mesh	MediaLive		FreeRTOS		
AWS Cloud Map	MediaPackage		IoT 1-Click		
Global Accelerator	MediaStore		IoT Analytics		
	MediaTailor		IoT Device Defender		
Developer Tools	Elemental Appliances & Software		IoT Device Management		
CodeStar	Amazon Interactive Video Service		IoT Events		
CodeCommit	Elastic Transcoder		IoT Greengrass		
CodeArtifact			IoT SiteWise		
CodeBuild			IoT Things Graph		
CodeDeploy			Game Development		
CodePipeline			Amazon GameLift		
Cloud9					
CloudShell			Containers		
X-Ray			Elastic Container Registry		
AWS FIS			Elastic Container Service		
Robotics			Elastic Kubernetes Service		
AWS RoboMaker			Red Hat OpenShift Service on AWS		

Red Hat OpenShift Service on AWS

Enable ROSA directly from the console page



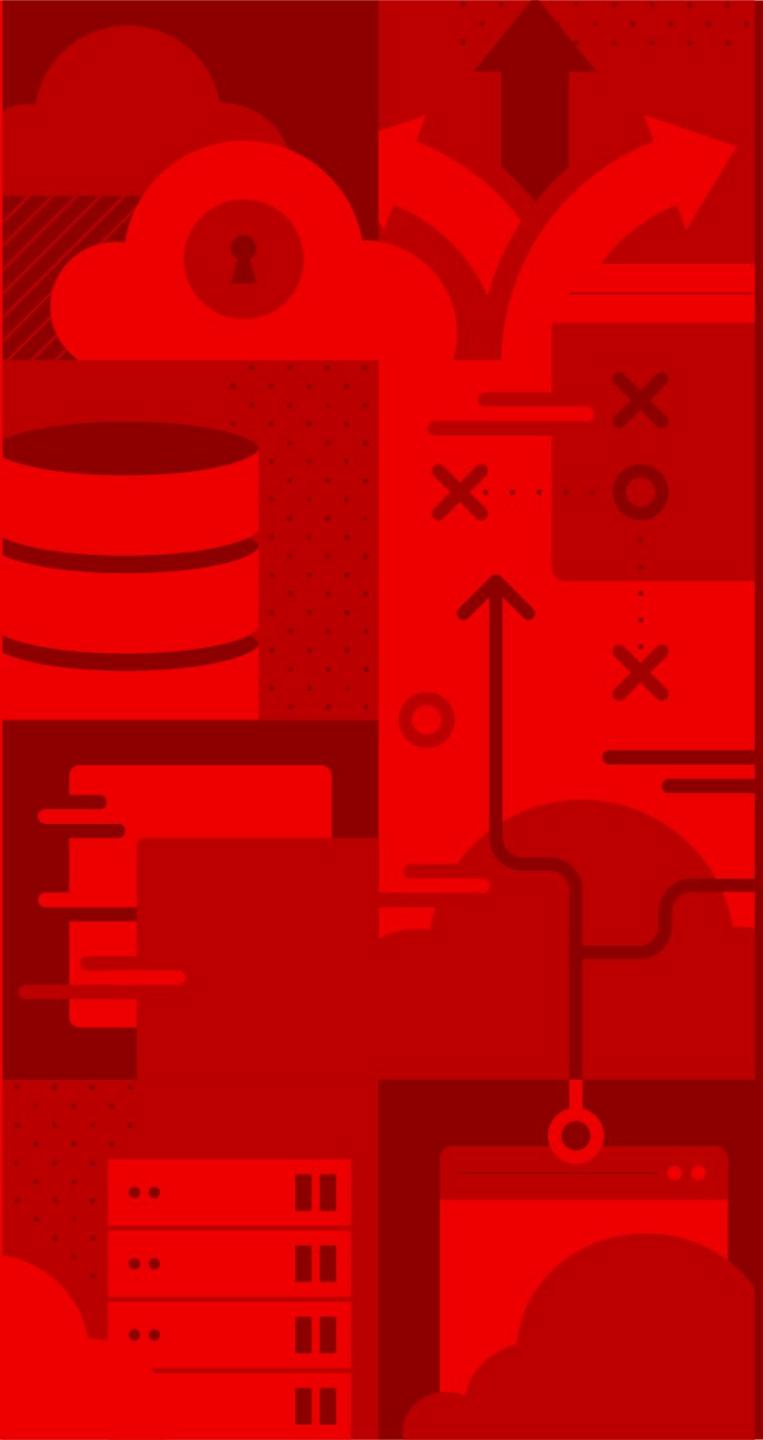
The screenshot shows the AWS Lambda console with the following elements:

- Header:** AWS logo, Services dropdown, search bar ("Search for services, features, marketplace products, and docs"), [Alt+S] key, user info ("user @ 1234-5678-9000"), Oregon region, and Support dropdown.
- Left Sidebar:** Containers
- Main Content Area:**
 - Red Hat OpenShift Service on AWS:** A large heading with the text "Fully managed Red Hat® OpenShift® service on AWS".
 - Description:** "Red Hat OpenShift Service on AWS allows you to deploy fully operational and managed Red Hat OpenShift clusters while leveraging the full breadth and depth of AWS."
 - aws | Red Hat:** A logo box containing the AWS logo and the Red Hat logo.
 - Enable Red Hat OpenShift:** A section with the text "Click below to begin by enabling the service." and a prominent orange "Enable OpenShift" button. A red arrow points to this button.
 - How it works:** A diagram showing a workflow: "Configure permissions" (with a box icon), "Download CLI" (with a laptop icon), "Provision cluster" (with a cluster icon), and "Deploy your applications" (with a rocket icon).
 - Pricing (US):** A table showing the cost of the control plane: "Control plane" at "\$0.03/hour*". A note below states "*EC2 Pricing is additional".
 - Getting started:** A section with links: "For more details, see the Red Hat OpenShift Service on AWS Product Page" and "For instructions on creating an OpenShift cluster, see the Installation Guide".

User Experience

```
● [ ~]$ rosa describe cluster rosa-demo
Name:                      rosa-demo
DNS:                       rosa-demo.y4a3.p1.openshiftapps.com
ID:                        1gmvvosttfqln598vhb16sprct8ma0vo
External ID:                a0413f1a-edcf-4ac0-90c9-46ea0cf68e4d
AWS Account:                021212686670
API URL:                   https://api.rosa-demo.y4a3.p1.openshiftapps.com:6443
Console URL:                https://console-openshift-console.apps.rosa-demo.y4a3.p1.openshiftapps.com
Nodes:                      Master: 3, Infra: 2, Compute: 5
Region:                     us-east-1
State:                      ready
Channel Group:              stable
Created:                    Nov  2 2020 18:20:20 UTC
Details Page:                https://cloud.redhat.com/openshift/details/1gmvvosttfqln598vhb16sprct8ma0vo
```

Users can create and manage clusters using the *rosa* command line utility



Red Hat OpenShift Kubernetes Service on IBM Cloud

Red Hat OpenShift on IBM Cloud



Highly available, OpenShift clusters as-a-service on IBM Cloud, that leverage the enterprise security of IBM.



Fully Managed

Automated provisioning, installation and configuration of infrastructure, including compute, network and storage as well as automatic upgrades of components and 24x7 global SRE support and a 99.99% SLA



Resilient and Secure

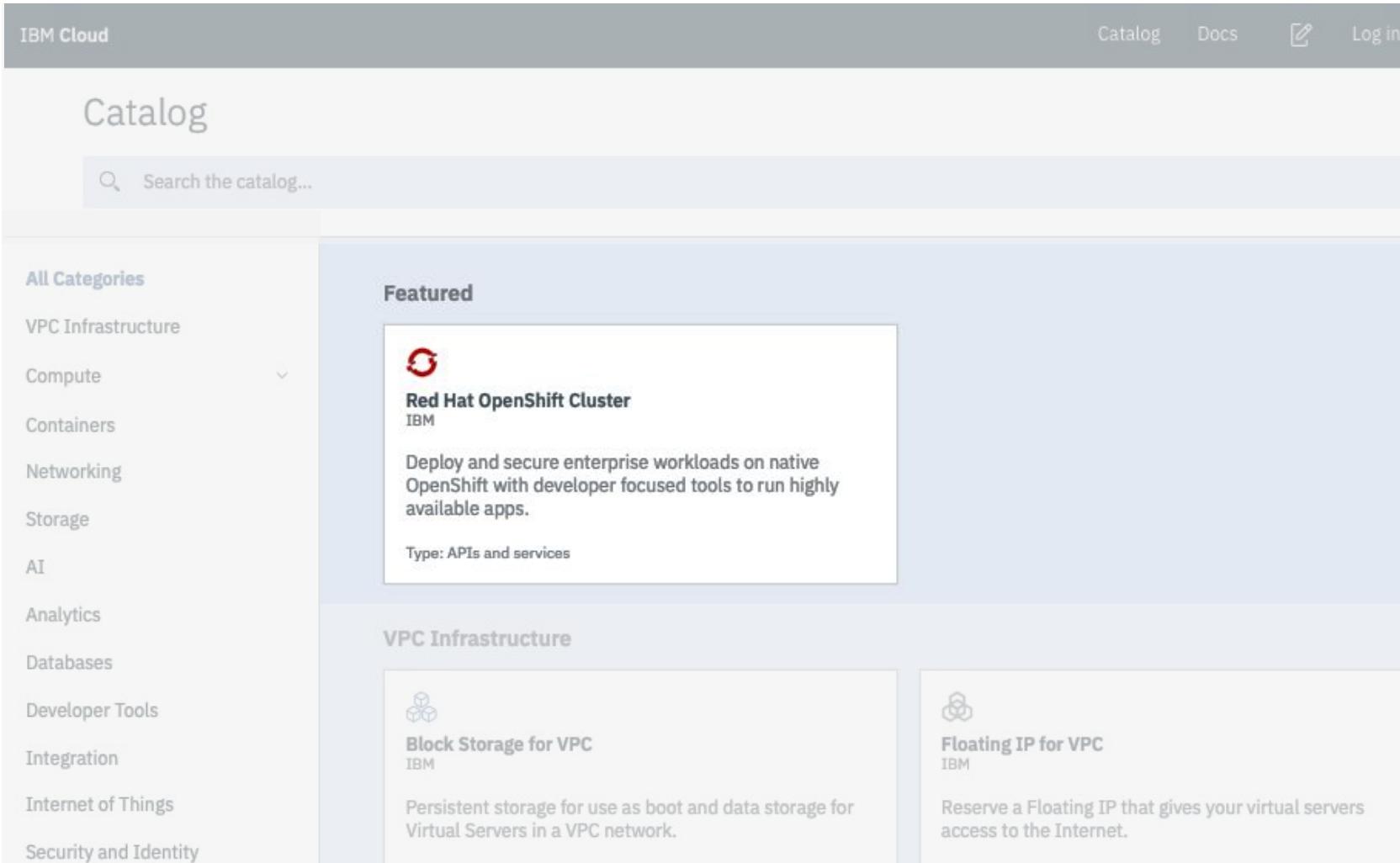
Automatic multi-zone deployments with failure recovery, enterprise isolation including dedicated compute, bare metal servers and private clusters and optimized for compliance



Complete Platform

Easily integrate AI with Watson APIs to extend the power of your apps. Includes built-in services for monitoring, logging, load-balancing, storage and isolation to enable rapid delivery of apps, while leveraging 190+ IBM Cloud services.

User Experience

A screenshot of the IBM Cloud Catalog interface. The top navigation bar includes 'IBM Cloud', 'Catalog', 'Docs', a search icon, and 'Log in'. On the left, a sidebar lists 'All Categories' and various service types: VPC Infrastructure, Compute, Containers, Networking, Storage, AI, Analytics, Databases, Developer Tools, Integration, Internet of Things, and Security and Identity. The main content area features a 'Featured' section with a card for 'Red Hat OpenShift Cluster' (IBM), which allows deploying and securing enterprise workloads on native OpenShift with developer-focused tools. Below this are sections for 'VPC Infrastructure' (Block Storage for VPC, IBM) and 'Floating IP for VPC' (IBM), which reserves a floating IP for virtual servers to access the Internet.

IBM Cloud

Catalog

Search the catalog...

All Categories

VPC Infrastructure

Compute

Containers

Networking

Storage

AI

Analytics

Databases

Developer Tools

Integration

Internet of Things

Security and Identity

Featured

 Red Hat OpenShift Cluster
IBM

Deploy and secure enterprise workloads on native OpenShift with developer focused tools to run highly available apps.

Type: APIs and services

VPC Infrastructure

 Block Storage for VPC
IBM

Persistent storage for use as boot and data storage for Virtual Servers in a VPC network.

 Floating IP for VPC
IBM

Reserve a Floating IP that gives your virtual servers access to the Internet.

What is it?

- Public Cloud service for OpenShift Container Platform, a Kubernetes framework
- Button-click provisioning of RHEL clusters
- Automated ops, managed by expert IBMers

What does it do?

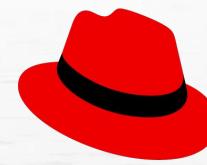
- Deploys secure clusters across the globe
- Orchestrates and scales containerized workloads
- Provides RH-native developer tools and dashboards
- Connects to hybrid workloads





Highlights - Red Hat OpenShift on IBM Cloud

- **Automated provisioning** and configuration of Infrastructure (compute, network and storage)
- Automated **installation and configuration of OpenShift**, including HA cross zone configuration
- **Automatic upgrades** of all components (operating system, OpenShift components, and in cluster services)
- **Security patch management** for OS and OpenShift
- Automatic **failure recovery** for OpenShift components and worker nodes
- Automatic **scaling** of OpenShift configuration
- **Automatic backups** of core OpenShift ETCD data
- **Built in integration with cloud platform** - monitoring, logging, KeyProtect, IAM, ActivityTracker, Storage, COS, Security Advisor, Service Catalog, Container Registry and Vulnerability Advisor
- **Built-in Security** including image signing, image deployment enforcement, and hardware trust
- **24/7 global Site Reliability Engineering (SRE)** team to maintain the health of the environment and help with OpenShift
- Global SRE has deep experience and skill in IBM Cloud Infrastructure, Kubernetes and OpenShift, resulting in much faster problem resolution
- **Automatic compliance** for your OpenShift environment (HIPAA, PCI, SOC2, ISO)
- Capacity expansion through a single click
- Automatic **multi-zone deployment** in MZRs, including integration with CIS to do cross zone traffic routing
- Automatic Operating System **performance tuning and security hardening**
- Built in Load Balancer, VPN, Proxy, Network edge nodes, Private Clusters and VPC capabilities



Red Hat
OpenShift



Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.



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