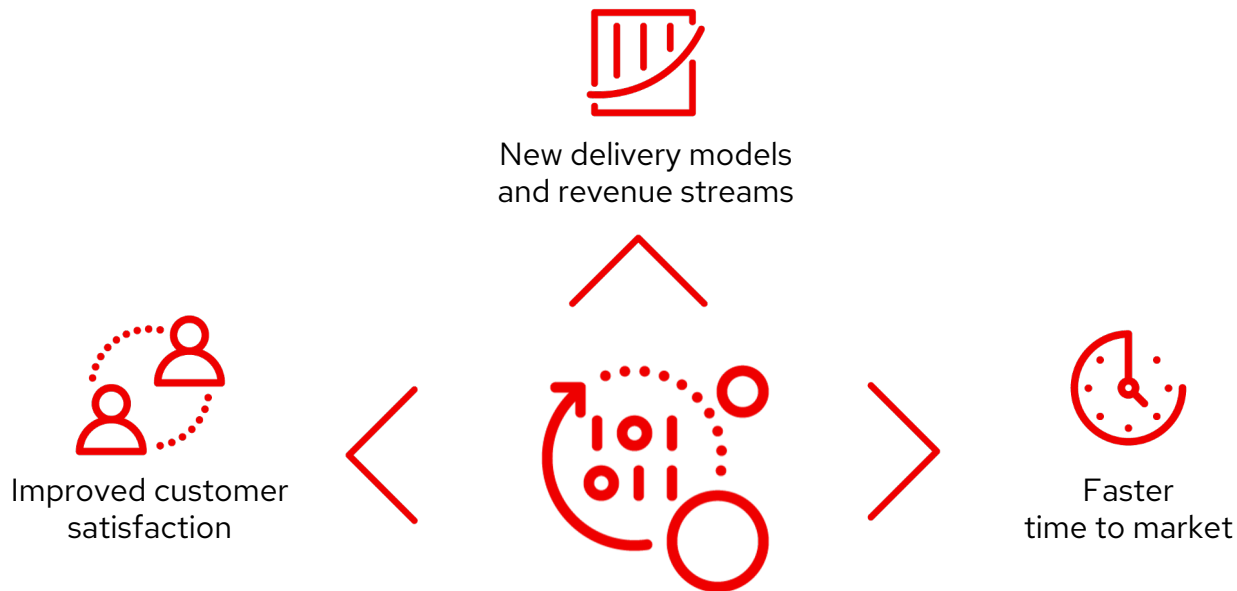# Red Hat strategy and roadmap

Come l'Open Hybrid Multi cloud di Red Hat accelera la trasformazione digitale

Alessandro Denicoli – Hybrid Sales Solution Specialist

Digital Transformation is the engine that foster these trends

New delivery models
and revenue streams

Improved customer
satisfaction

Faster
time to market

Thanks to Digital Transformation there are huge Business Opportunities to embrace

Red Hat

Technology is initiating a new wave of disruption, forcing each IT Decision maker to operate with **speed**

Transform how institutions need to **think about technology and security**

Transform how the Customer **expects** and use the Services: **multi-channel and mobile** is now a take for granted experience for any services

Red Hat

Data is the "new fuel" to unlock business Value, is forcing massive **scale** of digital systems

IoT & Data platforms are creating the new **Data Driven Companies**

Real-time data analysis through **AI/ML** is key to successfully generating **Business Value for the Decision maker**

Red Hat

A fast and large technologies adoption enforce IT organizations to reshape their Architecture footprint ensuring **flexibility** and stability
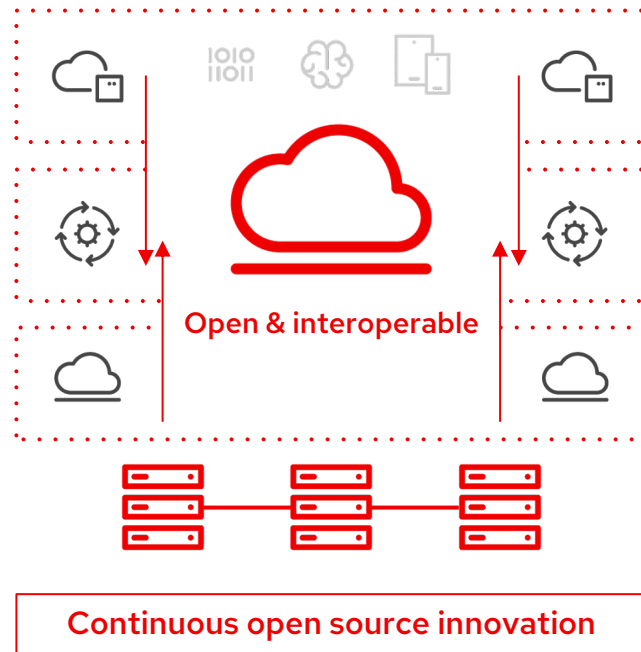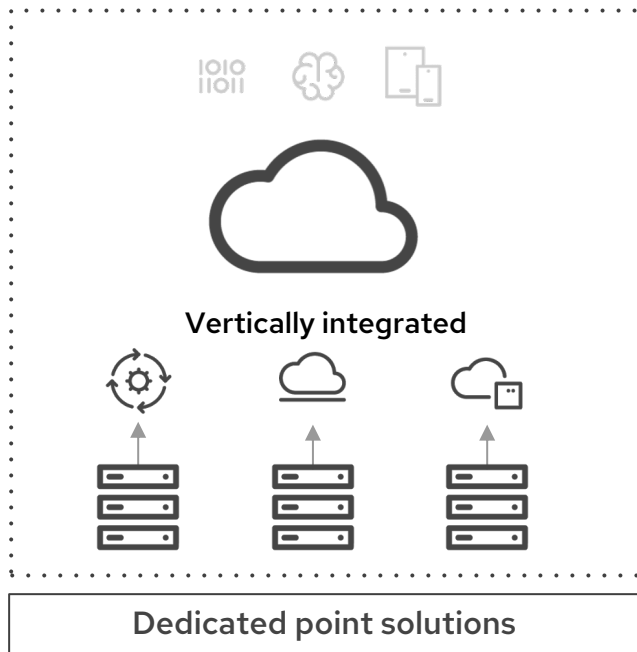

Tech Adoption is a great **chance** for architect your footprints improving **security** and reducing **operational burdens**
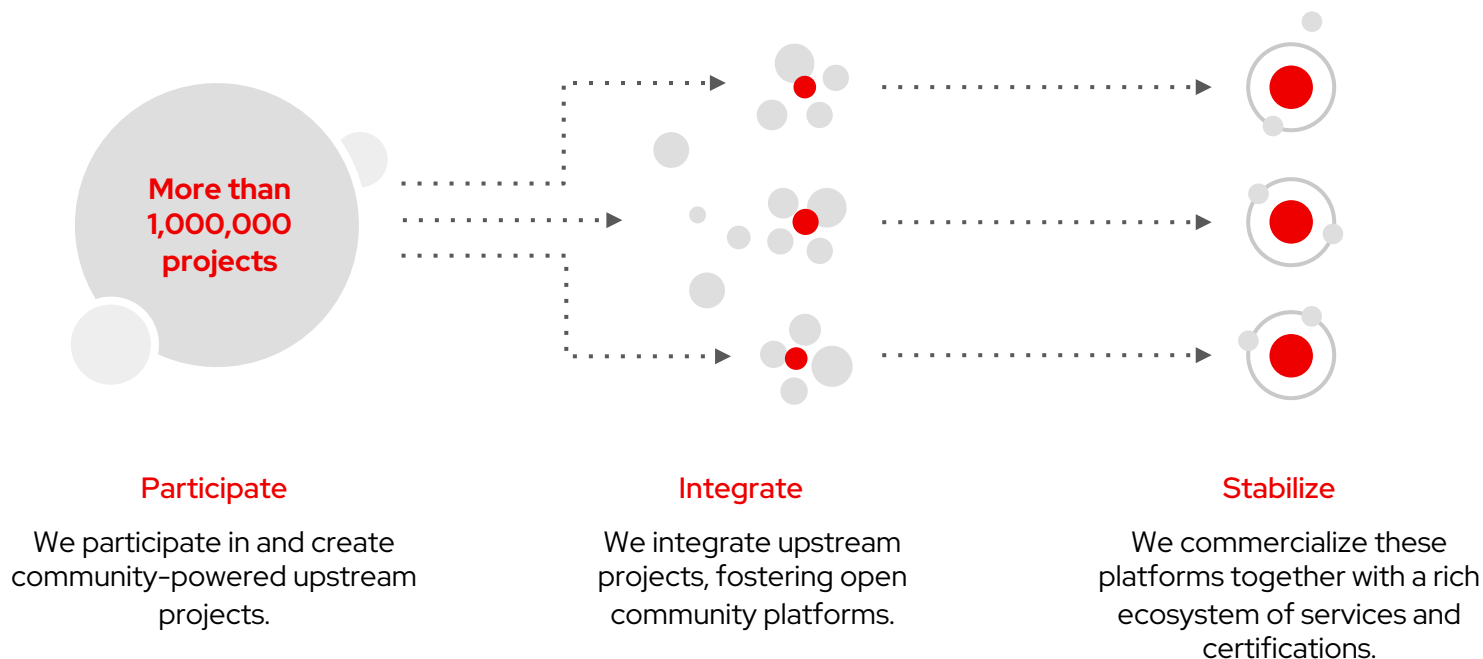

Design a **strategic Architecture evolution path** leveraging on the **consistency and flexibility** you need to conquer the upcoming **Business Challenges**

Red Hat

Every organization faces a decision about how to approach these challenges

Vertically integrated

Dedicated point solutions

Open & interoperable

Continuous open source innovation

Open hybrid cloud starts with open source innovation

Red Hat is the leader in open source for the enterprise

More than 1,000,000 projects

Participate

We participate in and create community-powered upstream projects.

Integrate

We integrate upstream projects, fostering open community platforms.

Stabilize

We commercialize these platforms together with a rich ecosystem of services and certifications.

Red Hat

Digital Transformation rely upon all three pillars demand

Speed

Scale

Flexibility
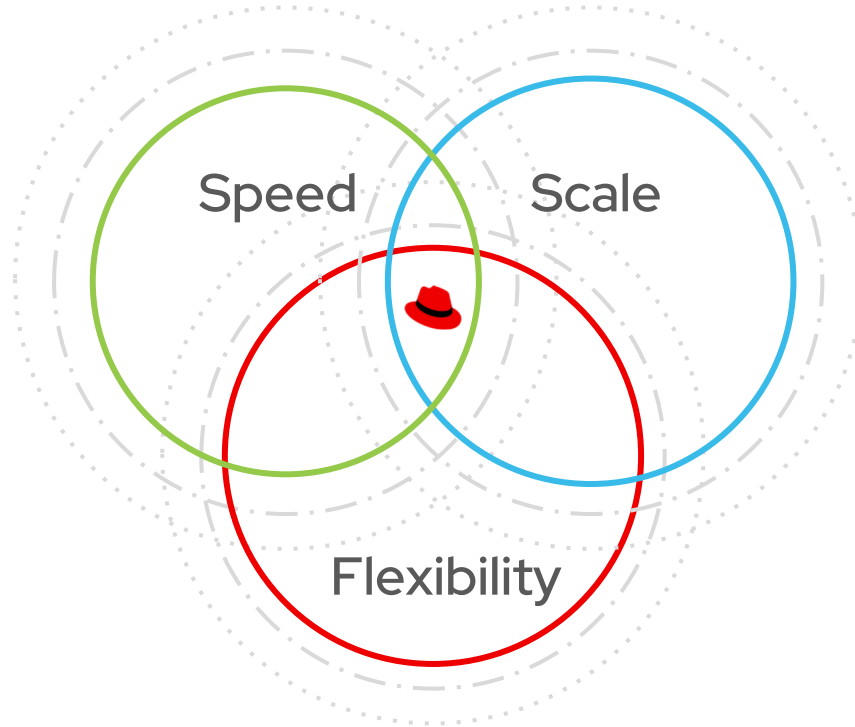
Digital Transformation means handle an open hybrid world Strategy

Development
Speed

Operations
Scale

Architecture
Flexibility

Stability   Consistency   Efficiency

Bare metal   **Virtual**   **Private cloud**   **Public cloud**   **Edge**

Red Hat

Hybrid is more than a strategy

It's a way to bring together your existing hybrid mix of new and old...

Applications	Development, IT processes, and skills	Architectures

Cloud-native and microservices

AI/ML Analytics Serverless

Java .Net ISV

Red Hat

Hybrid is more than a strategy

It's a way to bring together your existing hybrid mix of new and old...

Applications	Development, IT processes, and skills	Architectures

Developer tools

Pipelines & Processes

People & Policies

Red Hat

Hybrid is more than a strategy

It's a way to bring together your existing hybrid mix of new and old...

Applications	Development, IT processes, and skills	Architecture

63% of organizations are already hybrid today

54% of those not using hybrid cloud today plan to within 12 months

Physical

Virtual

Private cloud

Public cloud

Edge

Red Hat

What infrastructure are you using for Hybrid Cloud?

Bare metal

Virtualization

Private cloud

aws

IBM Cloud

Microsoft Azure

Google Cloud

Other public clouds
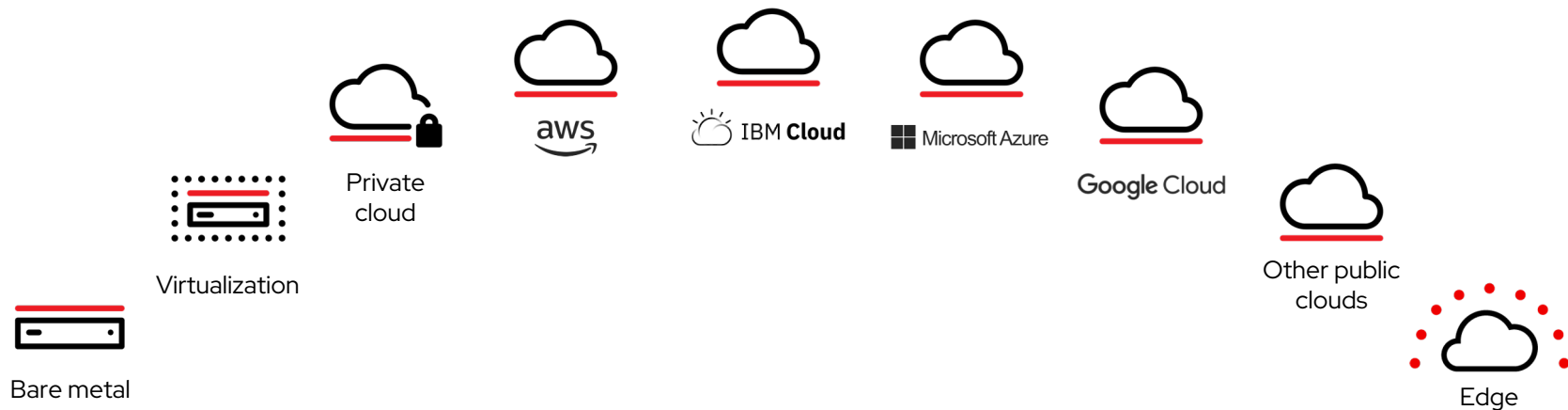
Edge

Red Hat

Red Hat vision & way-to: **Open Hybrid Multi Cloud & Edge**

- Develop application once, deploy everywhere though automations
- Same experience, same skills, same processes everyware
  (on premise, on multi cloud, on edge)
- Enabling a "cloud brokering" service model and Multi Cloud approach

Any workload, any footprint, any location

Developer tools

Application platforms

Bare metal	Virtual	Private cloud	Public cloud	Edge

Linux operating system

Management and automation
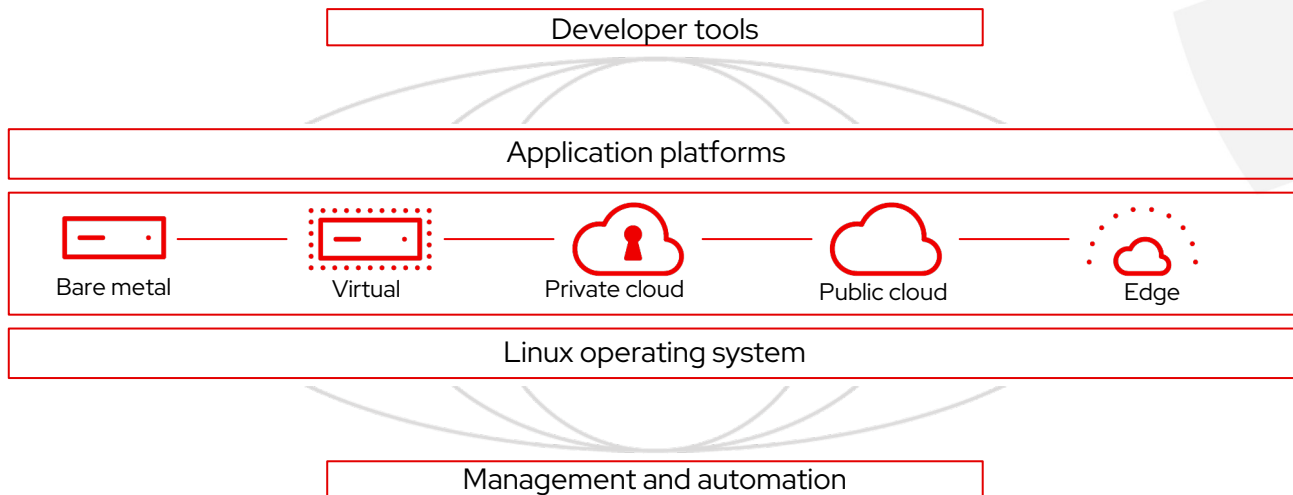
The red hat open hybrid multi cloud platform

Traditional apps

Cloud-native apps

AI/ML, Functions

Communities of Innovation | Ecosystems of Solutions

Red Hat OpenShift

Secure & Automated Infrastructure and Operations

Physical

Virtual

Private cloud

Public cloud

Edge

Red Hat

OpenShift is trusted enterprise Kubernetes

Kubernetes release → Production Ready → **OpenShift release**
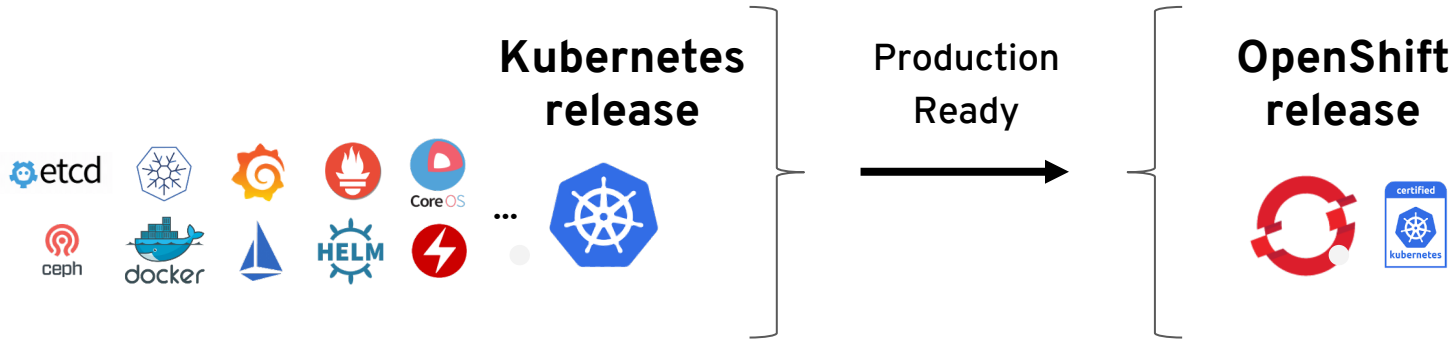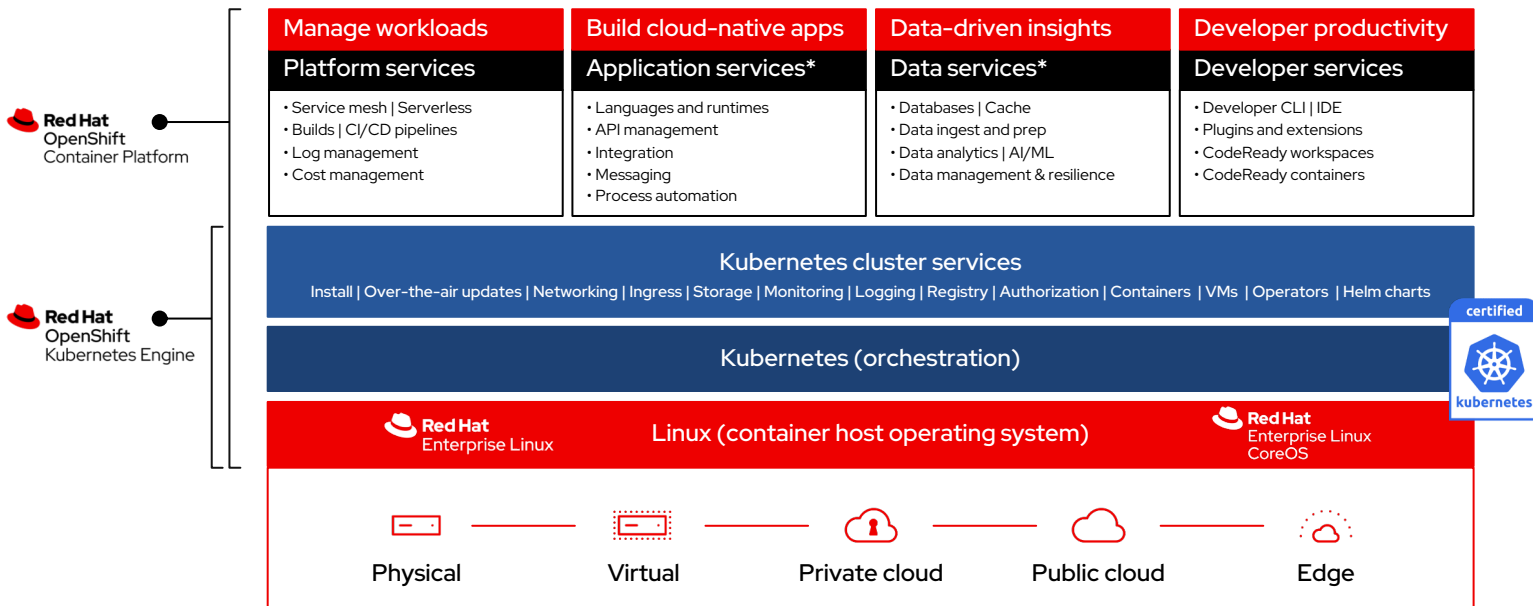
- Red Hat is a leading Kubernetes contributor since day 1
- Hundreds of defect and performance fixes
- 200+ validated integrations
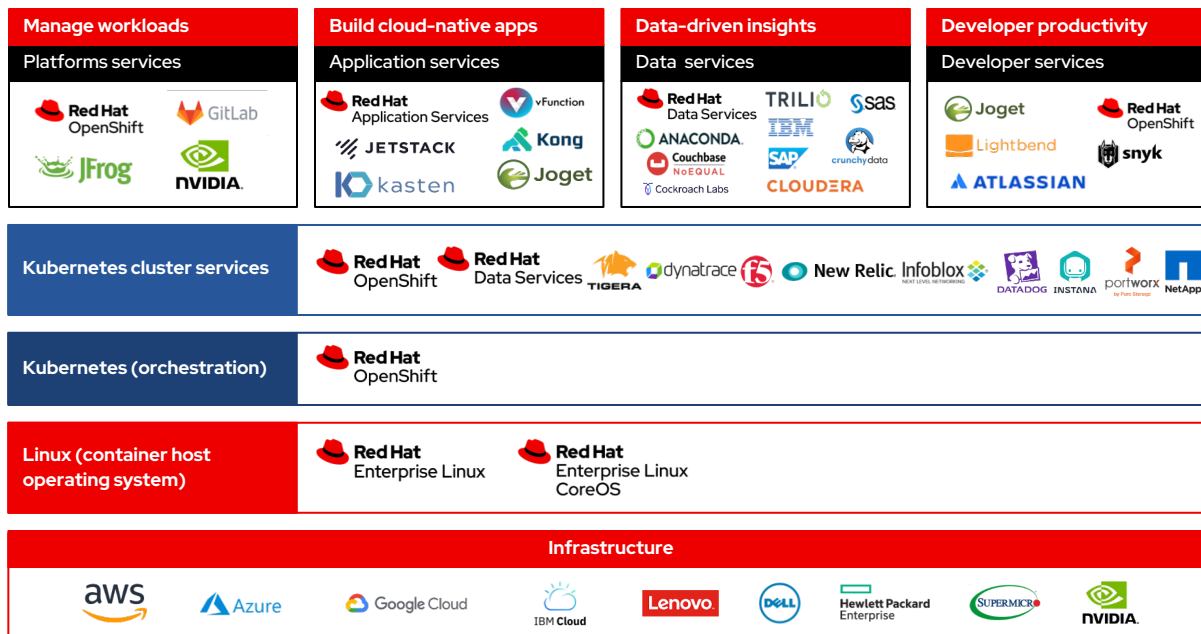- Certified container ecosystem
- 9-year enterprise life-cycle management

Red Hat

What is OpenShift Container Platform?

▸ Expanded platform services (service mesh, serverless, pipelines, GitOps)
▸ Full developer console and services
▸ Enhanced application and data services

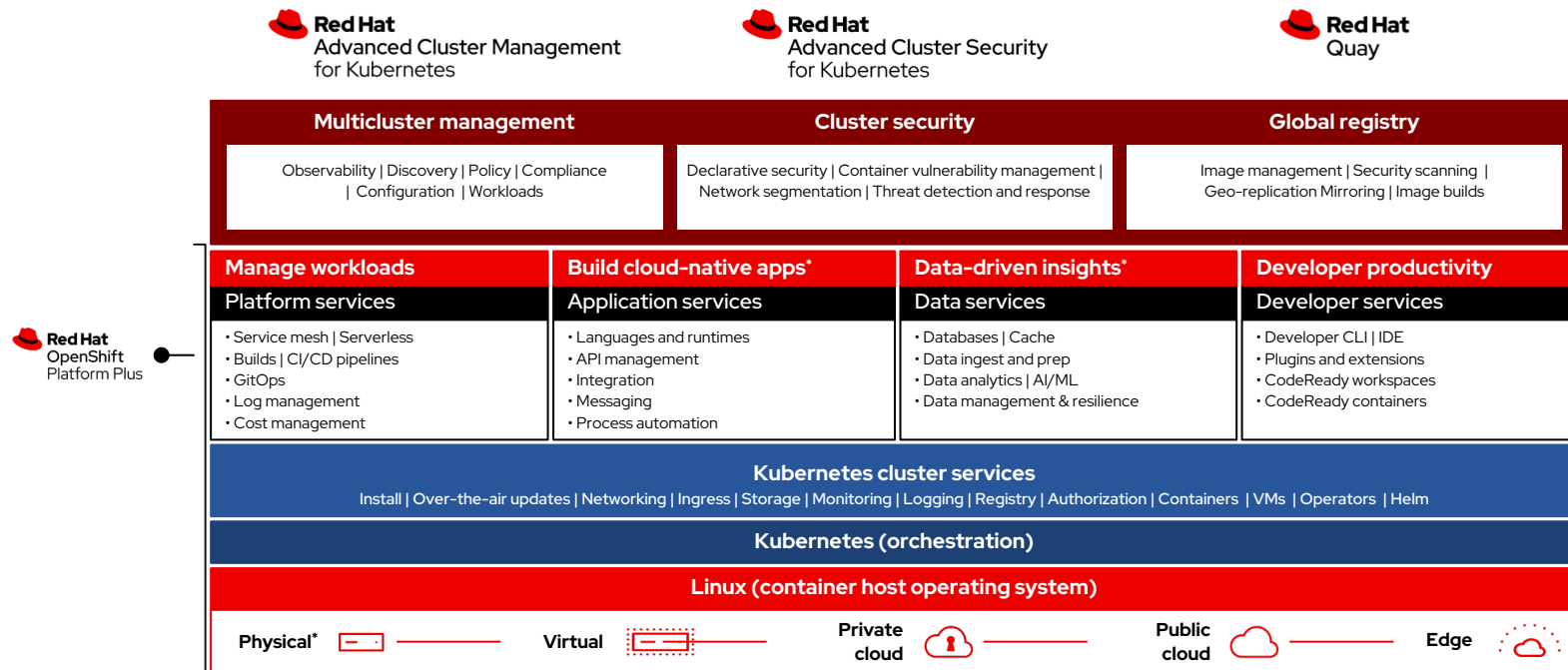**Red Hat OpenShift Container Platform**

Manage workloads	Build cloud-native apps	Data-driven insights	Developer productivity
Platform services	**Application services***	**Data services***	**Developer services**
• Service mesh | Serverless • Builds | CI/CD pipelines • Log management • Cost management	• Languages and runtimes • API management • Integration • Messaging • Process automation	• Databases | Cache • Data ingest and prep • Data analytics | AI/ML • Data management & resilience	• Developer CLI | IDE • Plugins and extensions • CodeReady workspaces • CodeReady containers

Red Hat OpenShift Kubernetes Engine

Kubernetes cluster services
Install | Over-the-air updates | Networking | Ingress | Storage | Monitoring | Logging | Registry | Authorization | Containers | VMs | Operators | Helm charts

Kubernetes (orchestration)

Red Hat Enterprise Linux Linux (container host operating system) **Red Hat Enterprise Linux CoreOS**

certified kubernetes

Physical	Virtual	Private cloud	Public cloud	Edge

Red Hat

OpenShift Container Platform

Partner Ecosystem

Manage workloads	Build cloud-native apps	Data-driven insights	Developer productivity
Platforms services	Application services	Data services	Developer services

Kubernetes cluster services

Kubernetes (orchestration)

Linux (container host operating system)

Infrastructure

18

Completed Services Platform for Hybrid Cloud

Red Hat
Advanced Cluster Management
for Kubernetes

Red Hat
Advanced Cluster Security
for Kubernetes

Red Hat
Quay

Multicluster management	**Cluster security**	**Global registry**
Observability	Discovery	Policy	Compliance	Configuration	Workloads	Declarative security	Container vulnerability management	Network segmentation	Threat detection and response	Image management	Security scanning	Geo-replication Mirroring	Image builds

Red Hat
OpenShift
Platform Plus

Manage workloads	**Build cloud-native apps***	**Data-driven insights***	**Developer productivity**
Platform services	Application services	Data services	Developer services
• Service mesh	Serverless • Builds	CI/CD pipelines • GitOps • Log management • Cost management	• Languages and runtimes • API management • Integration • Messaging • Process automation	• Databases	Cache • Data ingest and prep • Data analytics	AI/ML • Data management & resilience	• Developer CLI	IDE • Plugins and extensions • CodeReady workspaces • CodeReady containers

Kubernetes cluster services
Install | Over-the-air updates | Networking | Ingress | Storage | Monitoring | Logging | Registry | Authorization | Containers | VMs | Operators | Helm

Kubernetes (orchestration)

Linux (container host operating system)

Physical*   **Virtual**   **Private cloud**   **Public cloud**   **Edge**

* Red Hat OpenShift® includes supported runtimes for popular languages/frameworks/databases. Additional capabilities listed are from the Red Hat Application Services and Red Hat Data Services portfolios.

Red Hat

Single Pane of Glass for the Hybrid Cloud
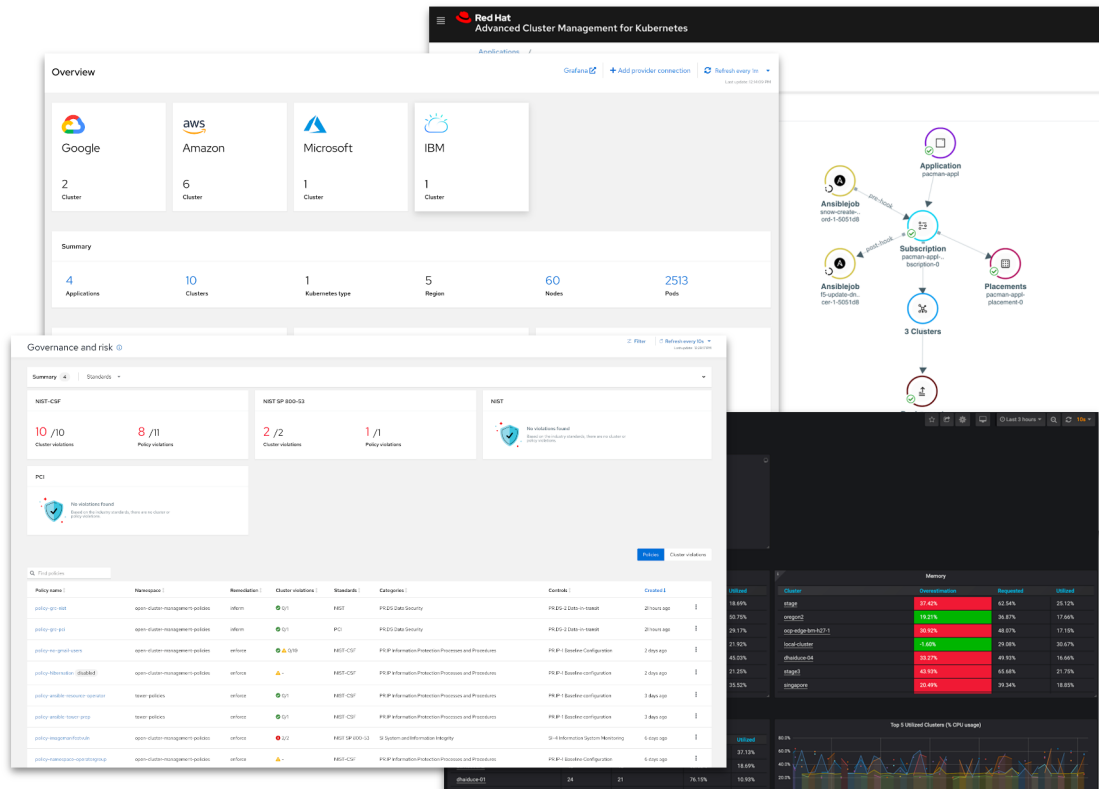
Multicluster lifecycle management

Policy driven governance, risk, and compliance

Advanced application lifecycle management

Multicluster observability for health, optimization and financial transparency

Continuous security for containerized applications

Red Hat
Advanced Cluster Security
for Kubernetes

A cloud workload protection platform and cloud security posture management to enable you to "shift left"

Shift left	Cloud security posture management (CSPM)	Cloud workload protection (CWPP)
Secure supply chain	Secure infrastructure	Secure workloads
Extend scanning and compliance into development (DevSecOps)	Leverage built-in Kubernetes CSPM to identify and remediate risky configurations	Maintain and enforce a "zero-trust execution" approach to workload protection

Red Hat

Red Hat
Quay

Trusted, open source container registry platform that runs everywhere, but runs best on Red Hat OpenShift

Scalability without limits, from a developer laptop to a container host or Kubernetes, on-premise or on public cloud

Global governance and security controls, with image vulnerability scanning, access controls, geo-replication, etc.

Offered as a **self-managed enterprise container registry product** and as a **hosted multi-tenant SaaS solution**

Red Hat

Red Hat OpenShift

A consistent platform no matter how or where you run....maximizing flexibility

Managed Red Hat OpenShift services			

Start quickly, we manage it for you

Red Hat OpenShift Service on AWS

Azure Red Hat OpenShift

Red Hat OpenShift on IBM Cloud

Red Hat OpenShift Dedicated

Self-managed Red Hat OpenShift			

You manage it, for control and flexibility

Red Hat OpenShift Platform Plus

Red Hat OpenShift Container Platform

Red Hat OpenShift Kubernetes Engine

On public cloud, or on-premises on physical or virtual infrastructure

Red Hat

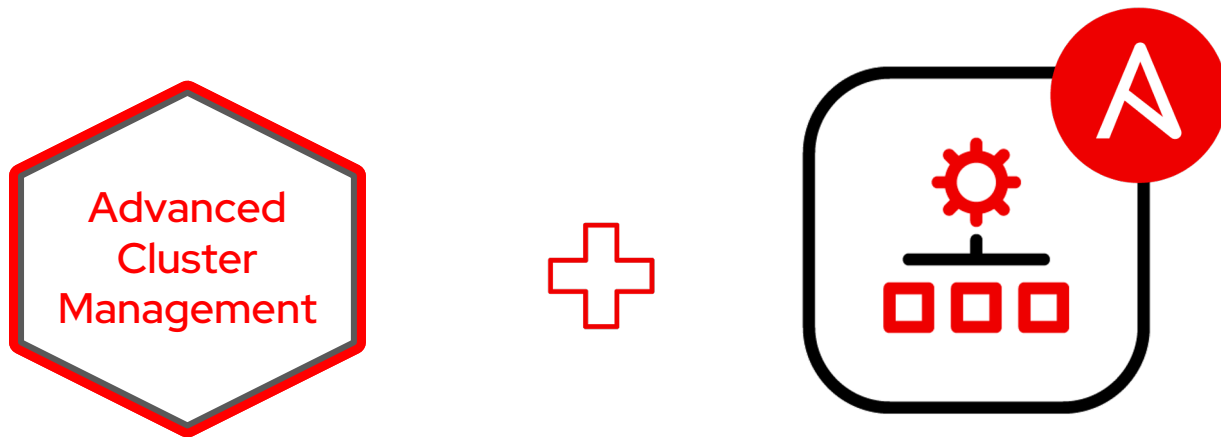# Openshift unlock an hybrid multicluster and edge strategy

Red Hat
Ansible Automation Platform
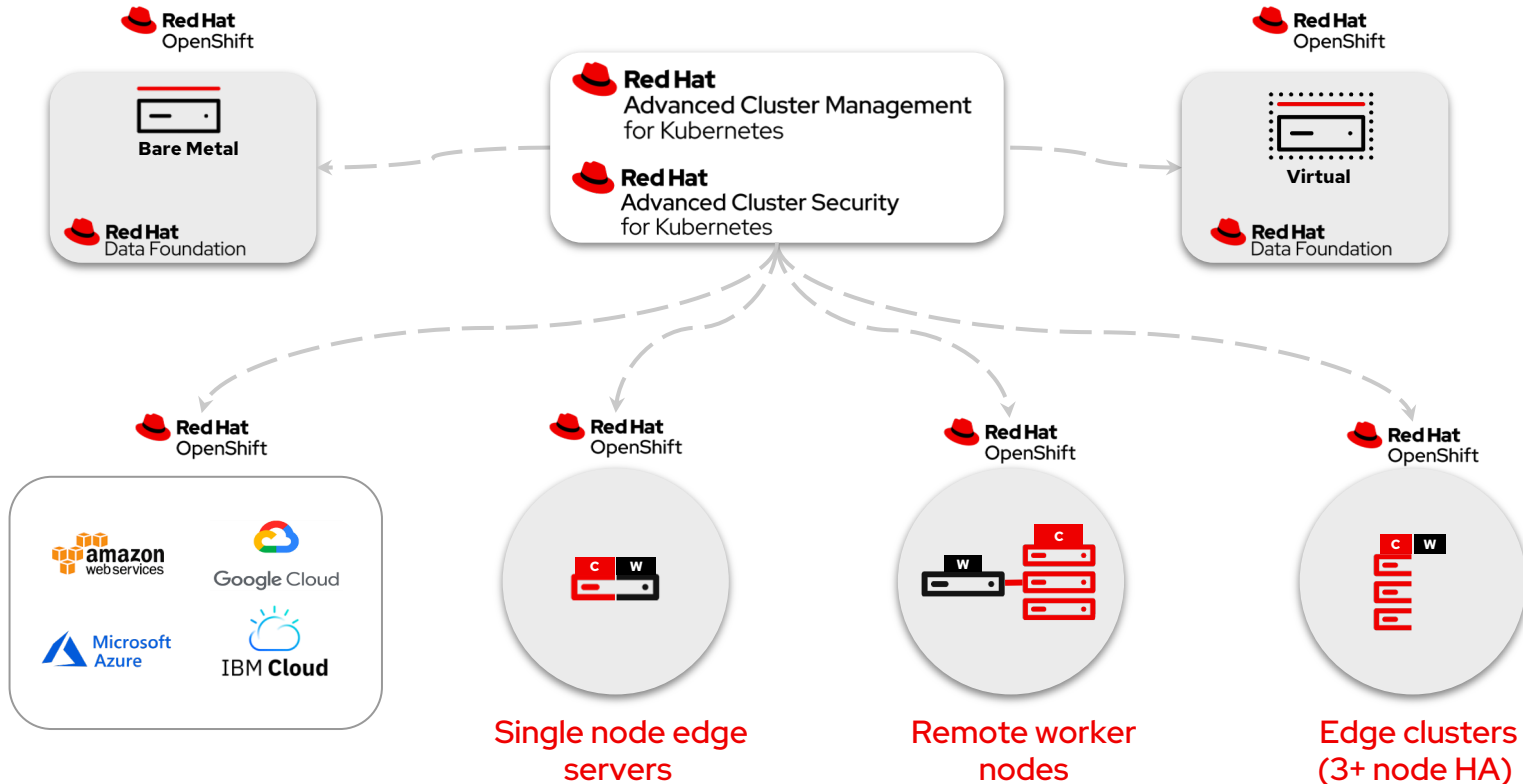
Holistic automation for your enterprise

Advanced Cluster Management

Thanks to Ansible you can extend your Automation Activities to manage E2E Infrastructure deployments

Red Hat Open Hybrid Cloud

Enabling any application, on any infrastructure, in any location

Traditional N-Tier Apps

Cloud Native Microservices

Data, Analytics & AI/ML

Third Party Packaged Apps

Red Hat OpenShift

Red Hat Advanced Cluster Management

Ansible automation

Physical

Virtual

Private cloud

Public cloud

Edge cloud

Red Hat Enterprise Linux

Red Hat

Red Hat Summit

Thank you

in	linkedin.com/company/Red-Hat	f	facebook.com/RedHatinc
▶	youtube.com/user/RedHatVideos	🐦	twitter.com/RedHat

Red Hat