Red Hat OpenShift

Rethinking Virtualization: From Traditional Infrastructure to Cloud-Native Platforms

OpenShift, Containers, AI, hybrid cloud, and workload portability



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Red Hat

The WORLD is changing




2005
Luca Bruno / AP



Technology landscape has changed dramatically

Old time ~ 1970/80/90s



Hardware

+



Software

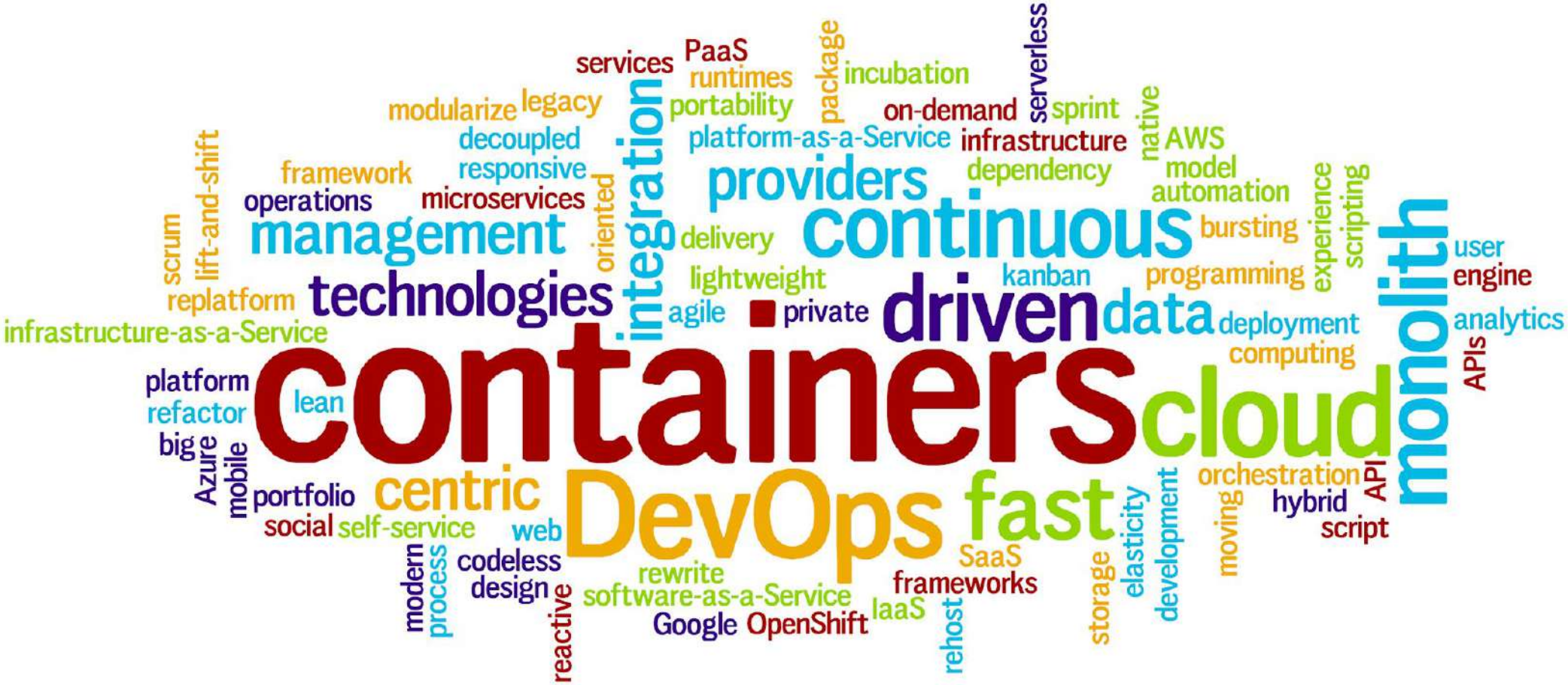
=



Red Hat OpenShift

Technology landscape has changed dramatically

How do we run and build applications in the new world?



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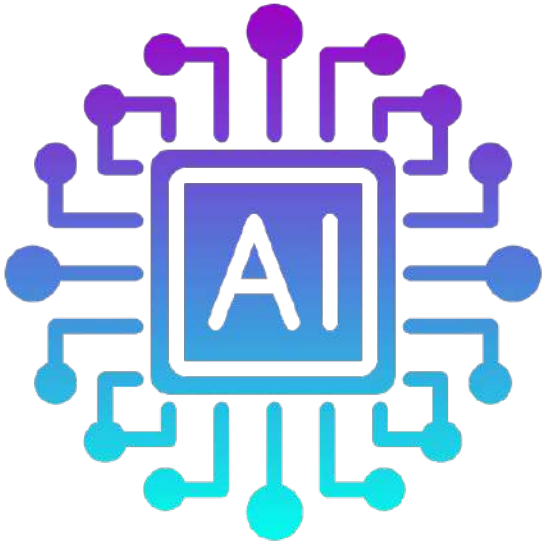
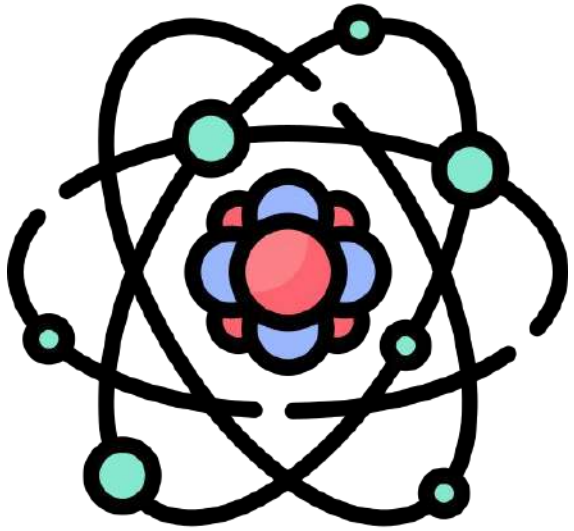


Artificial Intelligence



Quantum Computing

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Technology Paradigm Shift

Enterprise software architectures are the **foundation of every organization**.
Software architectures drives **organization's innovation capabilities** and determine their **ability to sell** or **service** their customers.

*To be successful, organisations must completely **re-evaluate** the manner in **building & managing** IT systems and software.*

	Pre-1970	1970-1990	1990-2010	2010-present	Near future
	Mainframe	**Monolithic**	**Tiered**	**Cloud Native**	**Hyperplexed**
Key Technology Paradigms	• COBOL • Mainframe	• Minicomputers • UNIX • Object-oriented • RDBMS	• Web • Integration & middleware • Web services • **Virtualisation**	• Cloud Mobile • **Containerisation** • Big data & analytics	• Edge and IoT • Digital twins • AR & VR • **Artificial Intelligence (AI)** • **Quantum Computing**

Source
BCG – The future of software will be hyperplexed (https://www.bcg.com/publications/2021/hyperplexed-enterprise-software-architectures)

Red Hat

Red Hat understand our customers needs & challenges



Hybrid cloud infrastructure

Improve and accelerate IT service delivery

Build the foundation for the future, while managing costs to speed progress



Cloud-native development

Build innovative applications faster

Accelerate application development, innovation, & delivery



IT automation & management

Automate infrastructure and applications

Automate infrastructure & applications so you can do more without sacrificing stability

Red Hat

Red Hat OpenShift Platform

delivers sustainable open hybrid cloud solutions for diverse workloads across any environment.



Traditional
N-tier apps



Cloud-native
apps



Data, analytics,
and AI/ML



ISV packaged
apps

Communities of Innovation | Ecosystems of Solutions



Red Hat OpenShift



Secure & Automated Infrastructure and Operations



Physical



Virtual



Private cloud



Public cloud

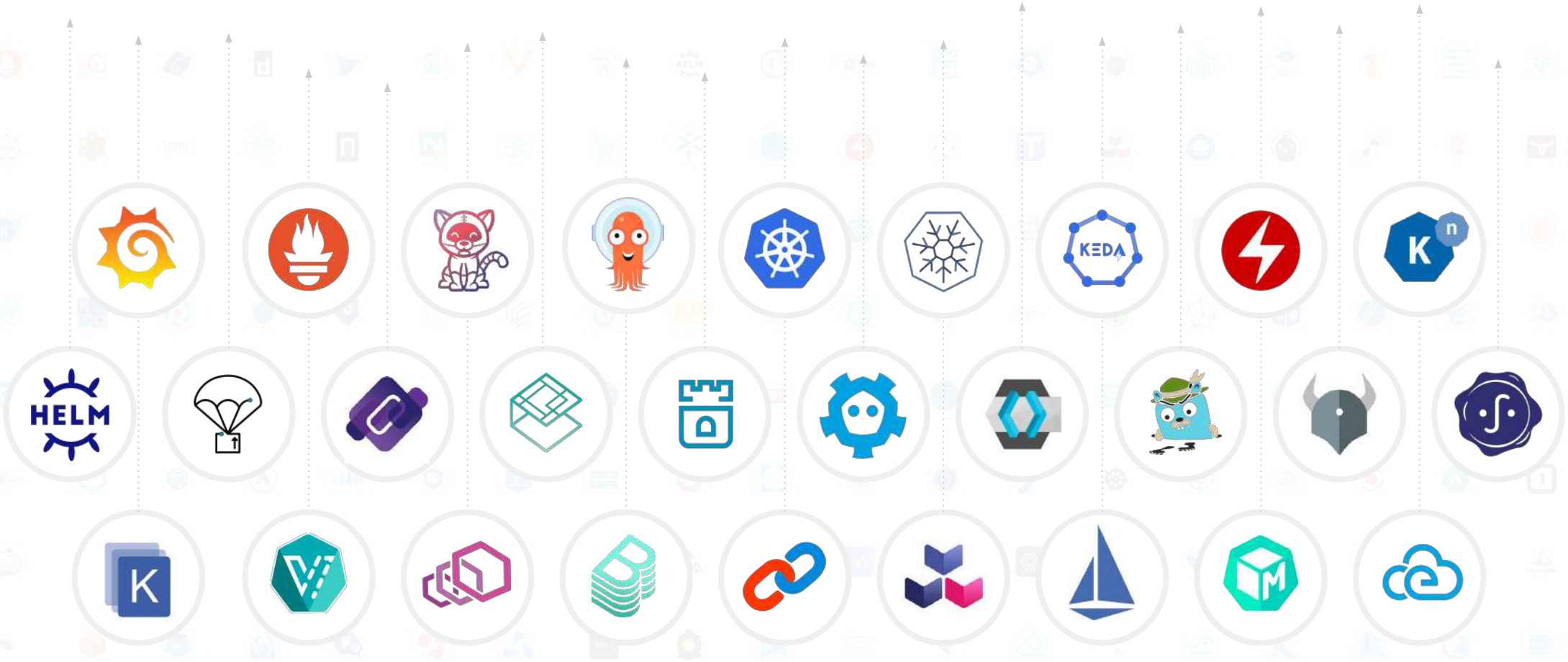


Edge

Open Hybrid and Multi-cloud

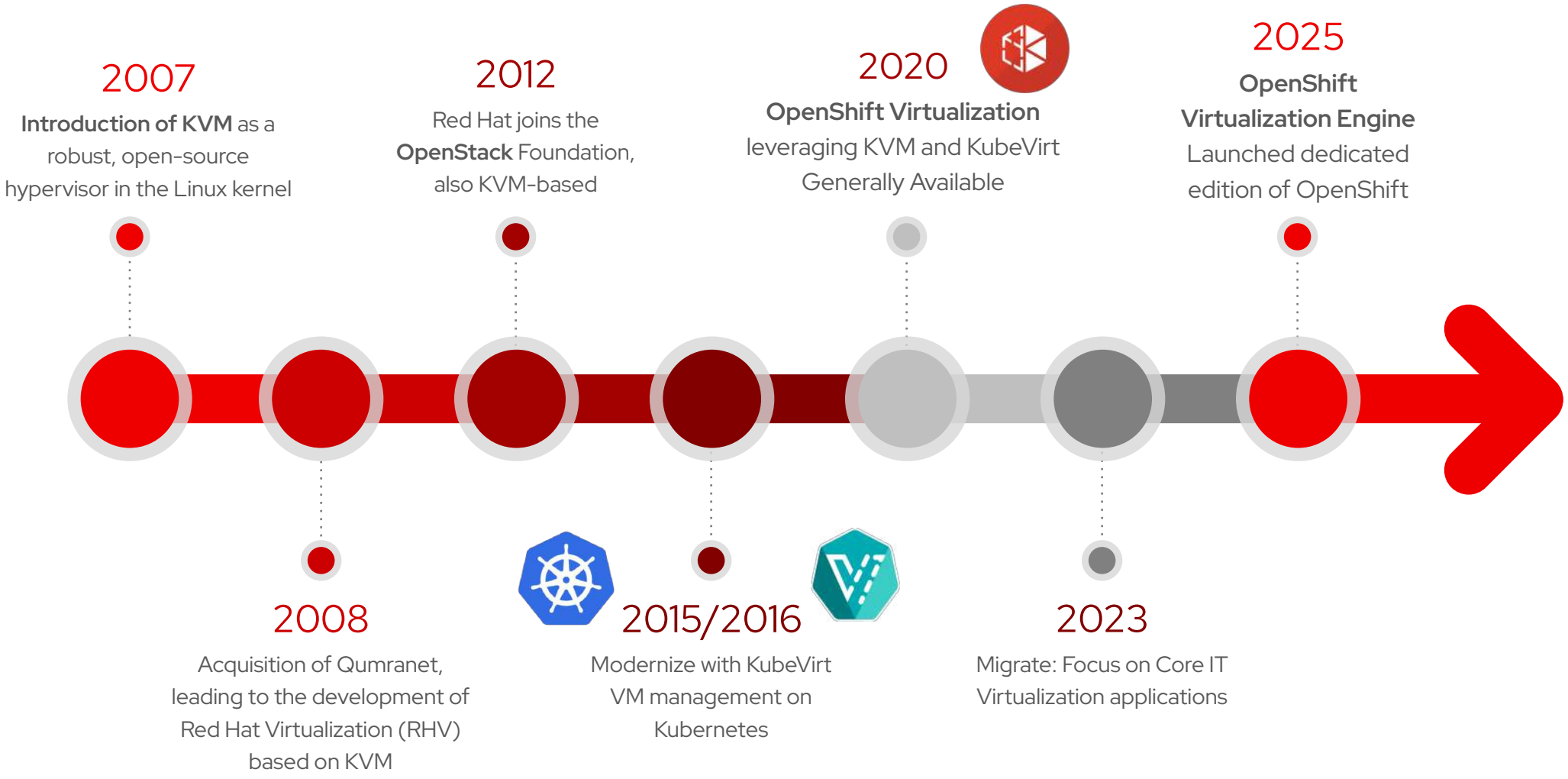
Red Hat

Red Hat OpenShift



Red Hat history with Virtualization

Open Source driving KVM, RHEL, OpenStack and now OpenShift Virtualization



Red Hat OpenShift Virtualization

HOW WE DO IT



Provides distribution, failover, high availability of container workloads. Manages the attachment of networking and storage.



Extends Kubernetes to provide model for running Virtual Machines, taking advantage of all of the features of Kubernetes.

200+ contributors, 60 releases



Serves as the hypervisor to run multiple, virtual machines (VMs), live migration, storage attachment.

Leveraged by Red Hat, Google Cloud, AWS

Red Hat

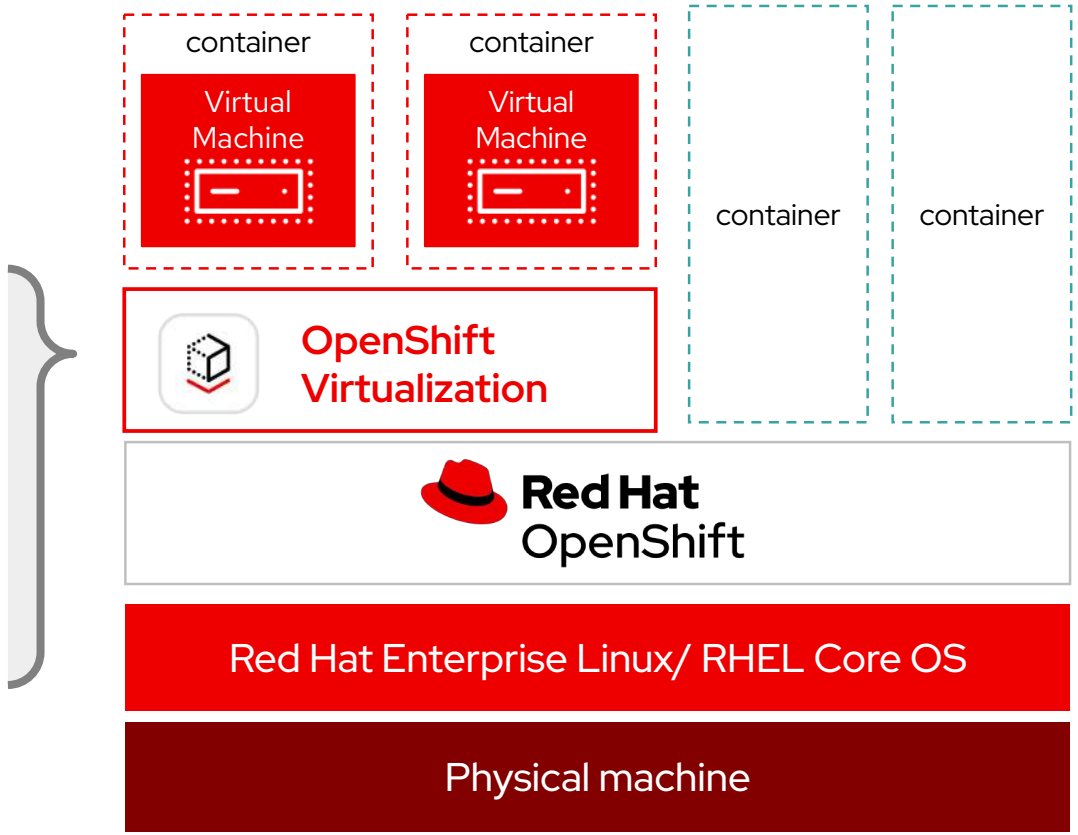
Red Hat OpenShift Virtualization

HOW WE DO IT

kubernetes

KubeVirt

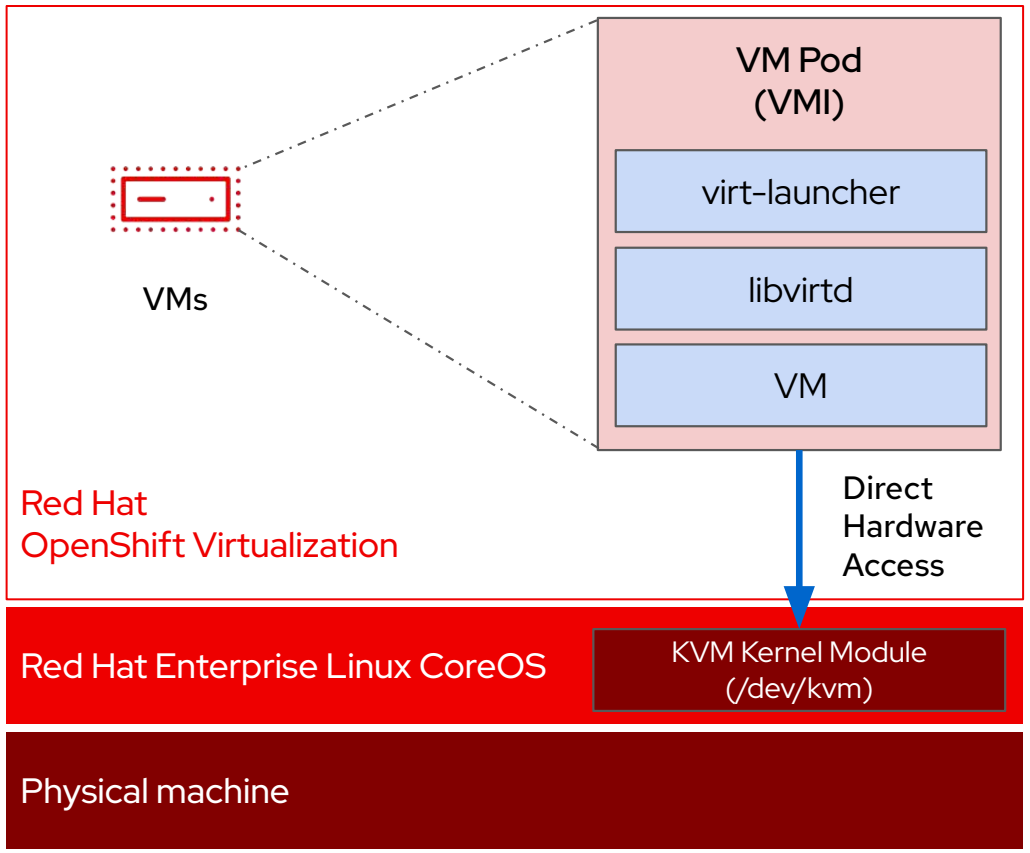
KVM



Red Hat

OpenShift Virtualization is a Type 1 Hypervisor

The "Brain" (Kubernetes) + The "Brawn" (KVM)



The Engine: Native KVM Performance

- OpenShift runs on **RHCOS (CoreOS)**, which includes the **KVM kernel module.**
- VMs run as high-performance processes **(qemu-kvm)** directly on the host CPU, leveraging hardware virtualization. Native performance without "emulation"—a modern Type 1 hypervisor experience.

The Wrapper: VM Pod (VMI)

- The **VirtualMachineInstance (VMI)** is the Kubernetes "identity" of your VM.
- Kubernetes sees a Pod (for networking and scheduling), and the Linux kernel sees a high-performance VM.

The Packaging: Kubernetes Native

- By "packaging" the VM as a Kubernetes resource, it instantly gains **Cloud-Native powers**: it gets a Cluster IP, connects to standard Persistent Volume Claims (PVCs), and is governed by the same Security Contexts as your containers.

Red Hat

Red Hat is a leader in the 2026 Gartner Magic Quadrant for Server Virtualization

What to know

Gartner published the first Magic Quadrant (MQ) for Server Virtualization on September 16, 2026, since the x86 MQ last published in August 2016. Red Hat is positioned in the Leader quadrant.

The Gartner MQ is often used by strategic decision makers for a wide-angle view of the relative positions of market competitors, to shortlist vendors, and to inform purchase decisions.

What Analyst say about Red Hat

Red Hat is recognized as a Leader in the Gartner® Magic Quadrant™ for Server Virtualization.

Red Hat achieved strong scores in “Ability to Execute” and “Completeness of Vision.”

Gartner highlighted Red Hat's strengths in three key areas:

- **Kubernetes-first architecture** (converging VMs and containers on a single control plane, API, and GitOps workflow)
- **DevOps enablement** (streamlining operations and legacy application modernization)
- **Broad hybrid/multi-cloud availability** (native deployment across AWS, Azure, GCP, and on-premises).

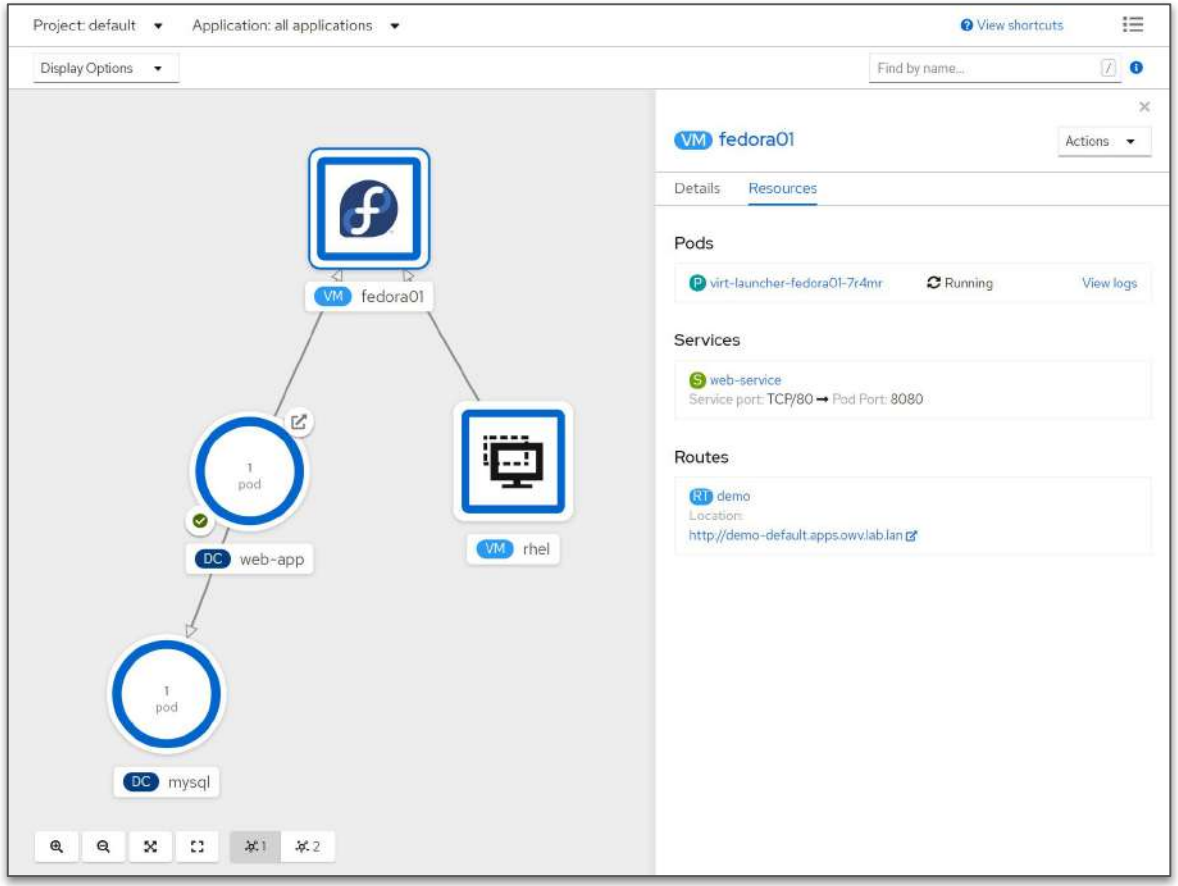
Magic Quadrant

Figure 1: Magic Quadrant for Server Virtualization Platforms



Using VMs and Containers Together

- Virtual machines connected to pod networks are accessible using standard Kubernetes methods:
  - Service
  - Route
  - Ingress
- Network policies apply to VM pods the same as application pods
- VM-to-pod, and vice-versa, communication happens over SDN or ingress depending on network connectivity

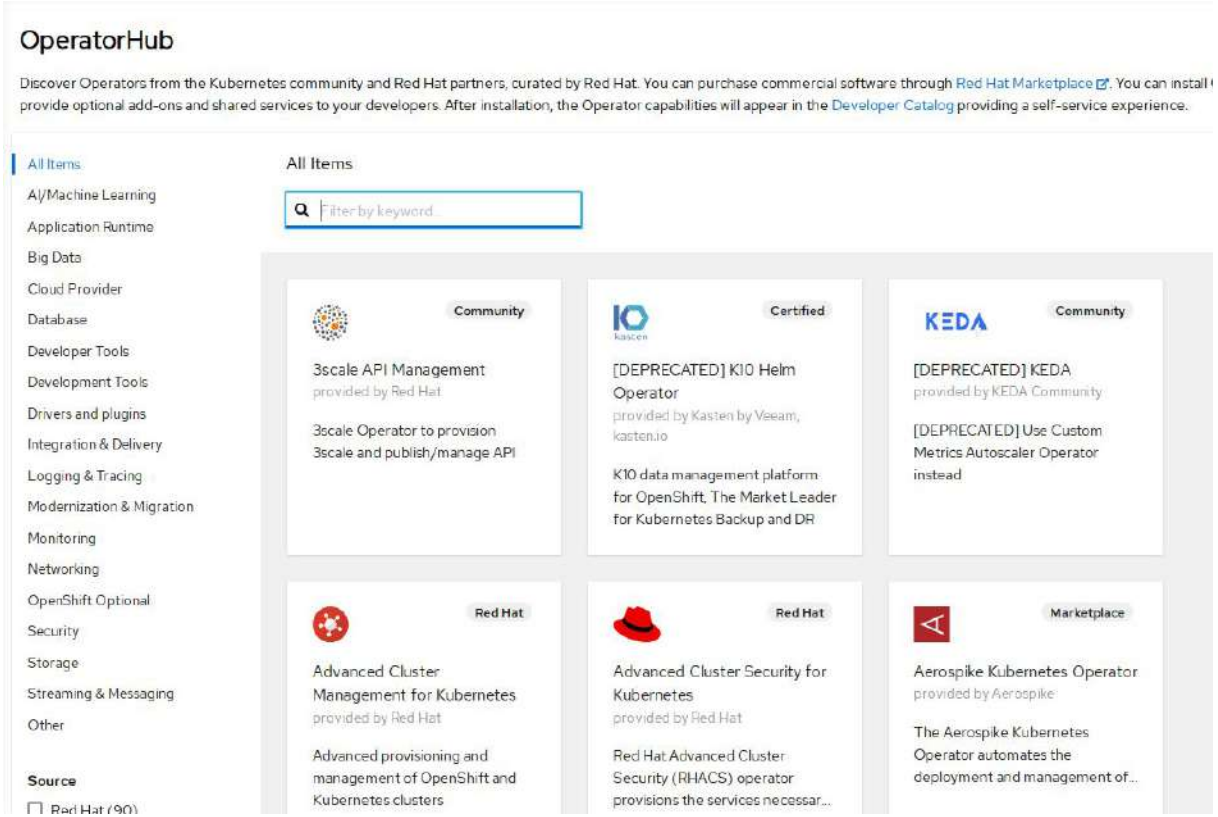


Red Hat

A plethora of features!

By making virtual machines “good citizens” of Kubernetes, OpenShift Virtualization allows virtualized workloads to leverage the huge ecosystem of OpenShift (and Kubernetes) features and products.

- ServiceMesh
- Network policy
- Multus for multiple networks
- Storage classes and CSI drivers
- Metrics and observability
- … plus the huge ecosystem



Red Hat

arm

Free Cloud Migration Resources

Access expert help, tools, and hundreds of resources to support every stage of your cloud migration.

Access Now

BACKEND DEVELOPMENT / CONTAINERS / KUBERNETES

How Nvidia Scaled Its Cloud Services With KubeVirt

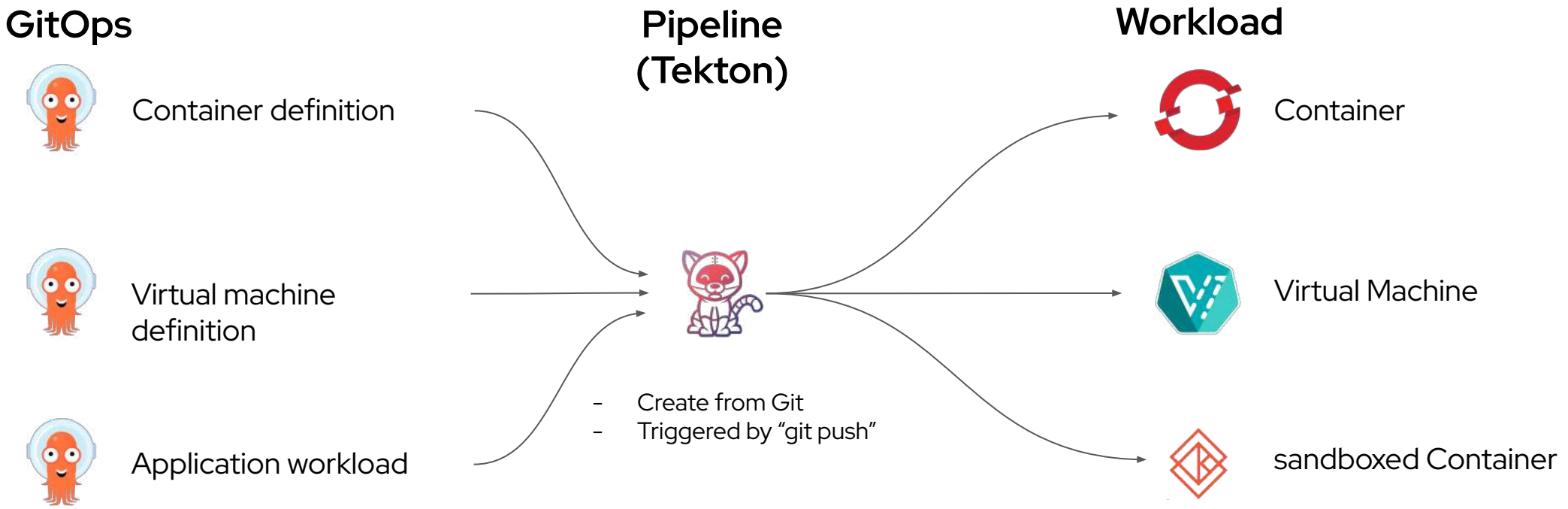
KubeVirt enabled Nvidia to scale out its cloud gaming platform with Kubernetes-orchestrated containers — without abandoning its VM investments.

Oct 4th, 2024 6:18am by Jonathan Gershater



https://thenewstack.io/now-nvidia-scaled-its-cloud-services-with-kubevirt/

VMs as Code - CI/CD Use case



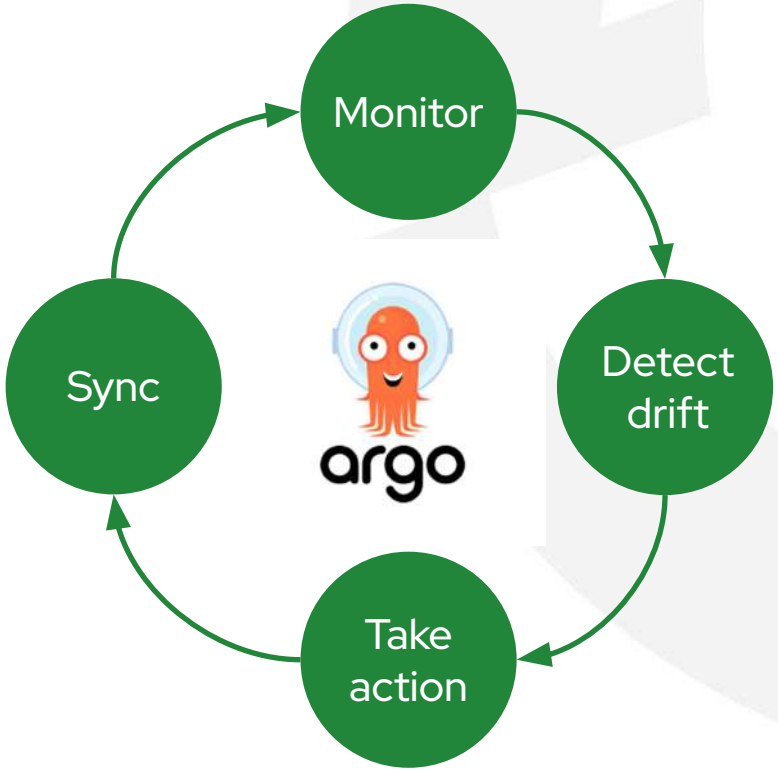
- OCP-V Infrastructure to deploy three different security zones to run both composite applications of pods/VMs as well as traditional VM Workloads
- GitOps approach to deploy and automate Virtual Machines as Code with ArgoCD plus Helm and Pipeline
- OpenShift cluster deployment with Assisted Installer / ACM resonates well with this approach

Red Hat

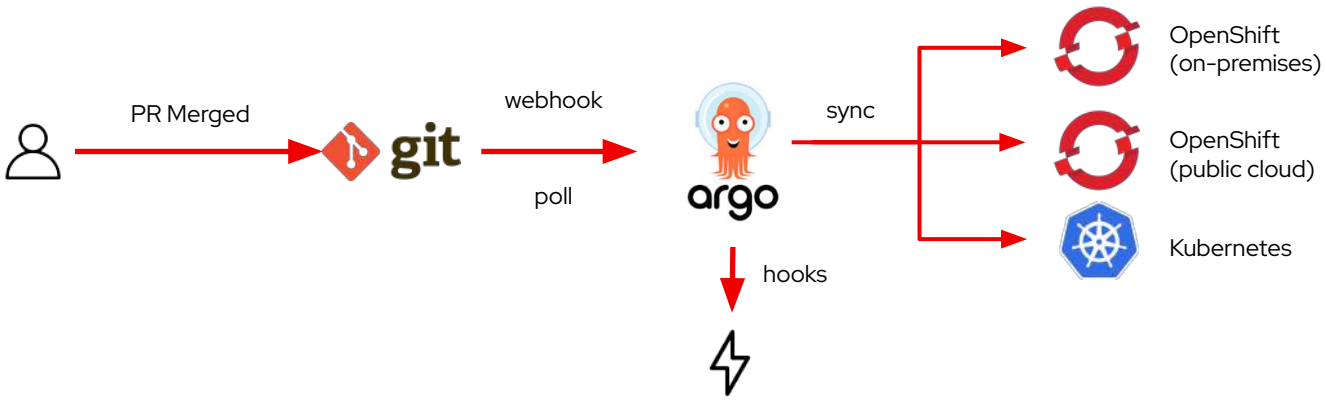
OpenShift GitOps

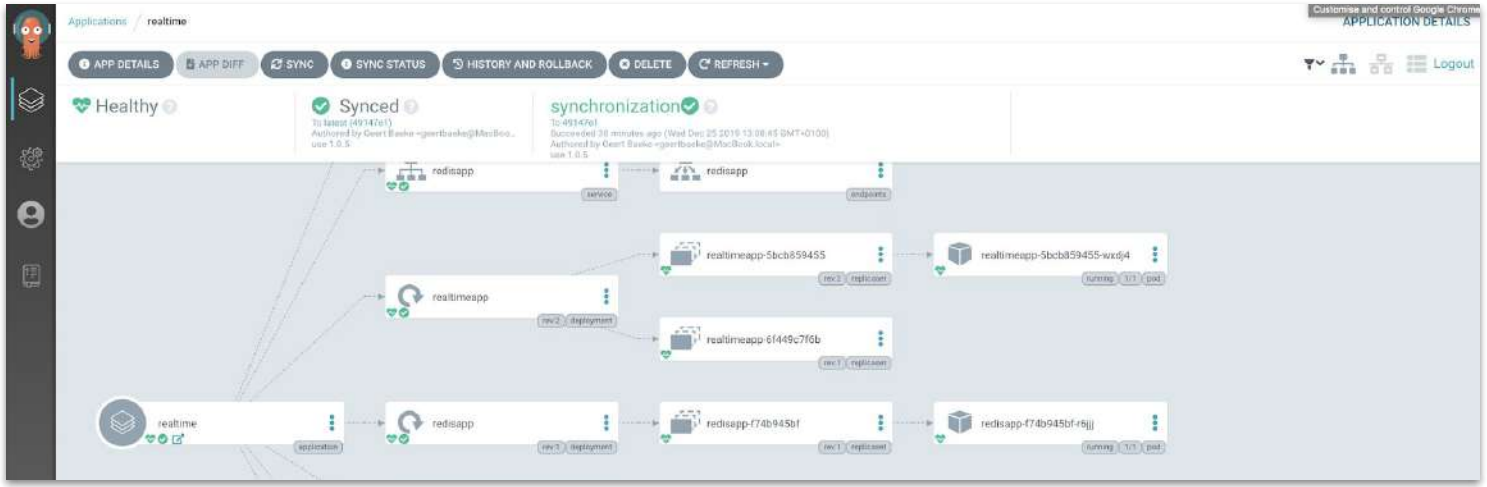
Efficient, security-focused and repeatable software delivery with GitOps using ArgoCD

- Cluster and application configuration versioned in Git
- Automatically syncs configuration from Git to clusters
- Drift detection, visualization and correction
- Granular control over sync order for complex rollouts
- Rollback and rollforward to any Git commit
- Manifest templating support (Helm, Kustomize, etc)
- Visual insight into sync status and history



ArgoCD for declarative GitOps continuous delivery





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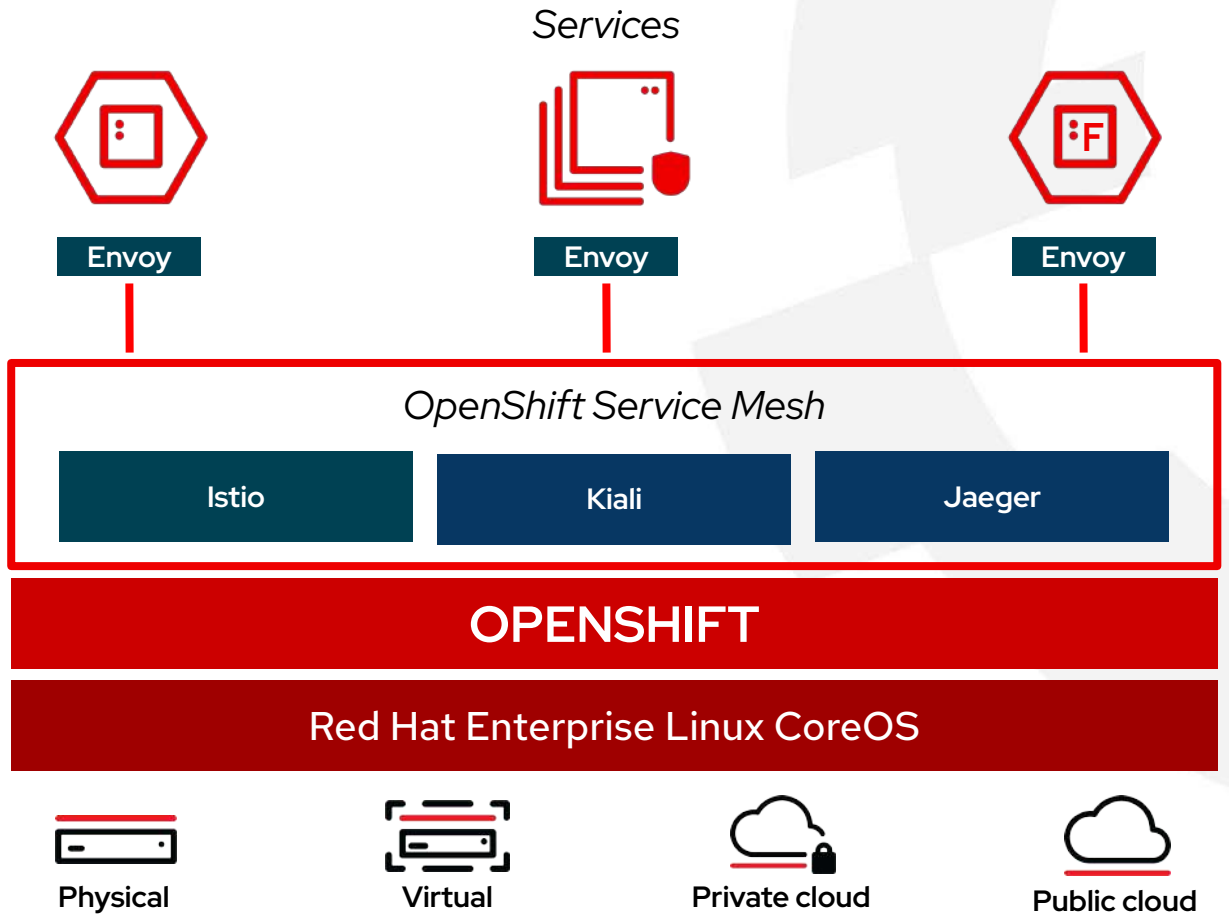
OpenShift Service Mesh

Connect, Secure, Control and Observe Services on OpenShift

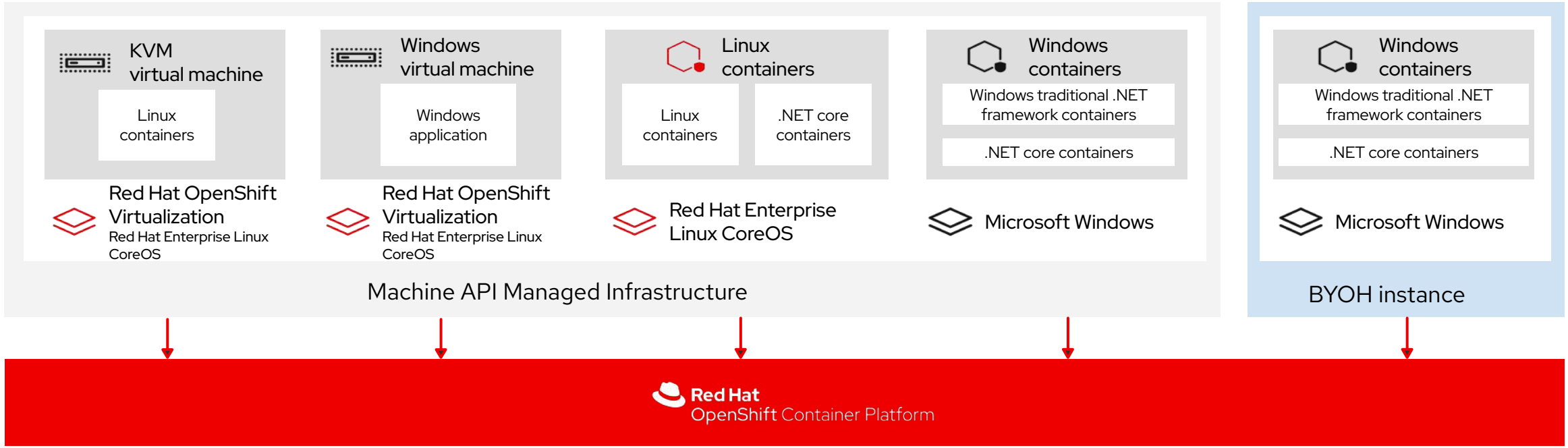
- **Consistent Networking & Security** – VMs can securely communicate with containerized workloads using mTLS encryption and access policies.
- **Unified Observability** – VMs gain visibility through tracing (Jaeger), monitoring (Prometheus, Grafana), and service topology visualization (Kiali).
- **Traffic Management** – Enables intelligent routing, load balancing, and failover between VMs and microservices.
- **Gradual Migration** – Allows a hybrid approach, where legacy VMs can coexist and gradually transition into a containerized environment.
- **Policy Enforcement** – Ensures compliance by applying service-level access control and security policies uniformly across VMs and containers.





Red Hat OpenShift

Deploy and manage both Containers & VMs



Red Hat OpenShift runs management and scheduling of:

- Linux containers on Red Hat Enterprise Linux CoreOS
- .NET core containers on Red Hat Enterprise Linux CoreOS or Windows
- Traditional .NET framework containers on Windows
- Windows virtual machines with OpenShift Virtualization

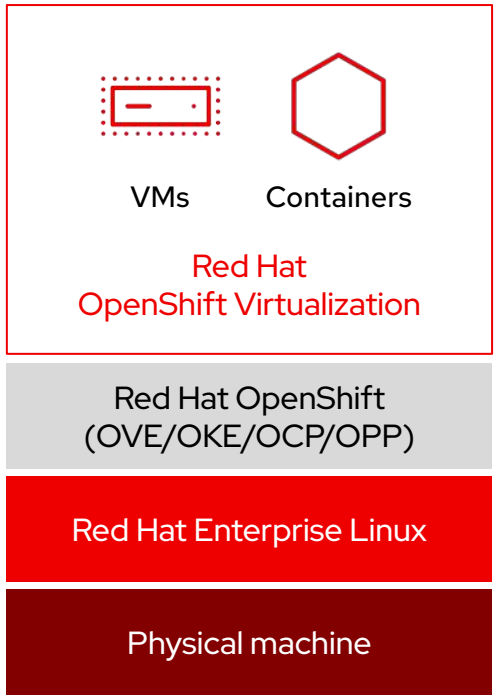
Bring your own Windows Hosts

Reuse "pet" Windows instances as OpenShift worker nodes, run Windows workloads and gain similar benefits that their Linux workloads get when being managed by OpenShift

Red Hat

Red Hat OpenShift Virtualization

The modern option for general purpose virtualization



- **Unified platform**
  for virtual machines and containers*
- **Consistent management**
  tools, interfaces, and APIs incl. ACM and AAP integrations
- **Performance and stability**
  of Linux, KVM, and qemu
- **Healthy open source community**
  the KubeVirt project is a top 10 CNCF active project, with 200+ contributing companies
- **Diverse ecosystem**
  of Red Hat & partner operators

- **Included feature**
  of all OpenShift subscriptions (OVE/OKE/OCP/OPP)
- **Includes Red Hat Enterprise Linux**
  guest entitlements*
- **Supports Microsoft Windows**
  guests through Microsoft SVVP
- **Inbound guest migration**
  using Ansible Automation Platform + Migration Toolkit for Virtualization, Training and Consulting
- **Virt admin focused training**
  DO316, EX316

*excluding OVE which is virtual machines only and includes no RHEL guest entitlements

Red Hat

Complete the platform with your existing technology partners

Storage

Products for OpenShift Virt using CSI (container storage interface)

- portworx by Pure Storage
- HITACHI Inspire the Next
- DELL Technologies
- Red Hat OpenShift Data Foundation
- IBM
- INFINIDAT
- Hewlett Packard Enterprise
- NetApp
- lightbits

Backup / DR

Products for OpenShift

- veeam Kasten
- COHESITY
- TRILIOVAULT
- ot
- storware BACKUP AND RECOVERY
- VERITAS
- rubrik
- DELL
- NetApp
- IBM
- portworx by Pure Storage

Networking

Products for OpenShift Virt using CNI (container networking interface)

- ISOVALENT
- TIGERA
- CISCO
- f5

Cloud Services

Current public cloud providers offering OpenShift virtualization

- aws
- ORACLE Cloud Infrastructure *Tech Preview
- Microsoft Azure
- IBM
- Google Cloud

Compute

Products for OpenShift

- IBM
- Hewlett Packard Enterprise
- DELL Technologies
- Lenovo
- CISCO

Note: This is not an exhaustive list of ISV partners, with new partners being added all the time.

Red Hat

OpenShift is available as a self-managed platform or fully managed cloud service

A consistent platform no matter how or where you run

Managed Red Hat OpenShift Services - Fully managed, start quickly

Start quickly, we manage it for you

aws	Azure	IBM Cloud	Google Cloud
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 - Customer managed, for control and flexibility

You manage it, for control and flexibility



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

Red Hat

VMs with Red Hat in the datacenter & the cloud

Building virtualized environments however our customers want them





Generally Available on Red Hat OpenShift Service on AWS and self-managed OpenShift on AWS



Generally Available of Azure Red Hat OpenShift



Generally Available on OpenShift Dedicated and self-managed OpenShift on Google Cloud Platform

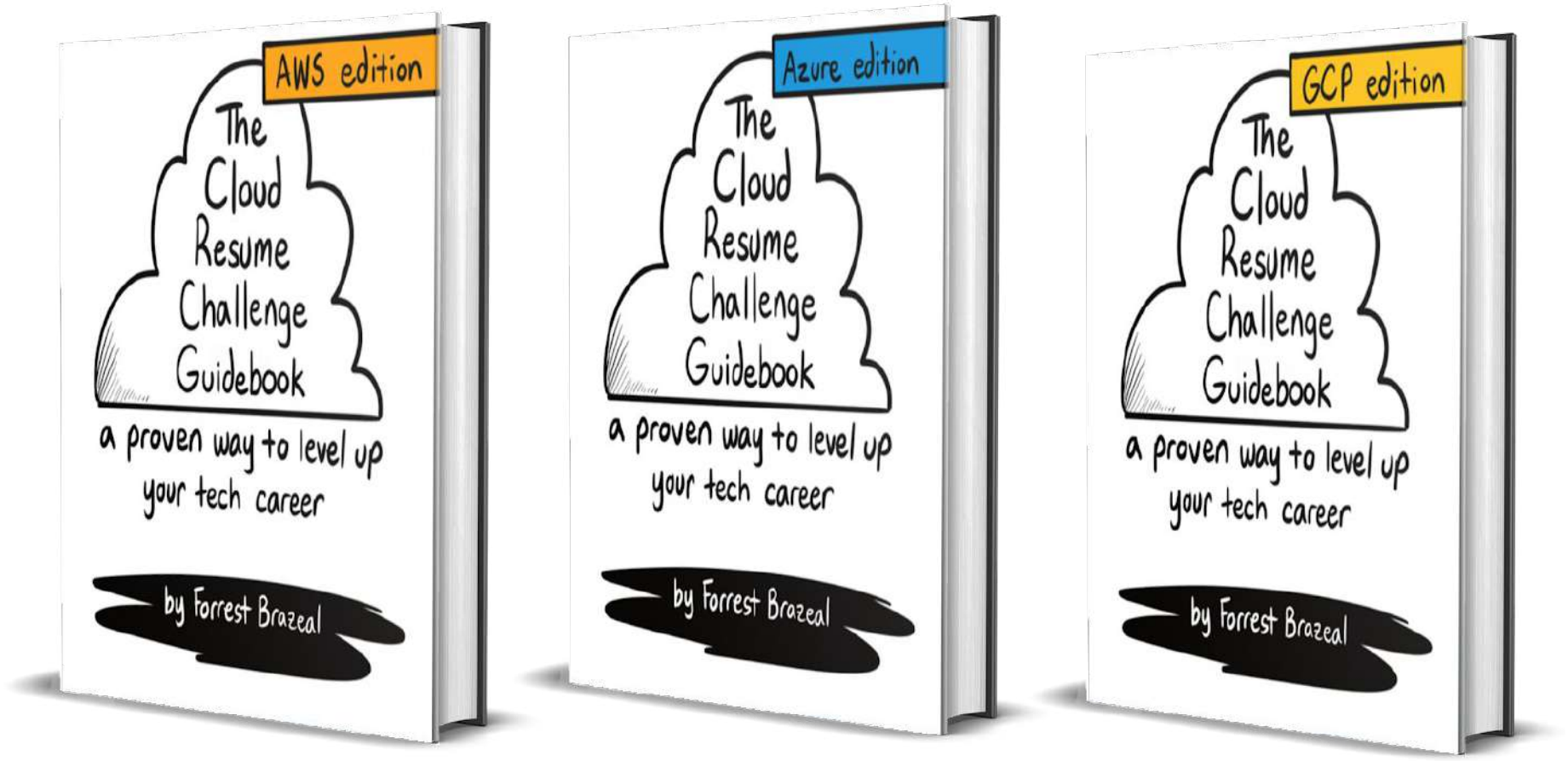


Generally Available on Red Hat OpenShift on IBM Cloud



Technical Preview on OpenShift on OCI

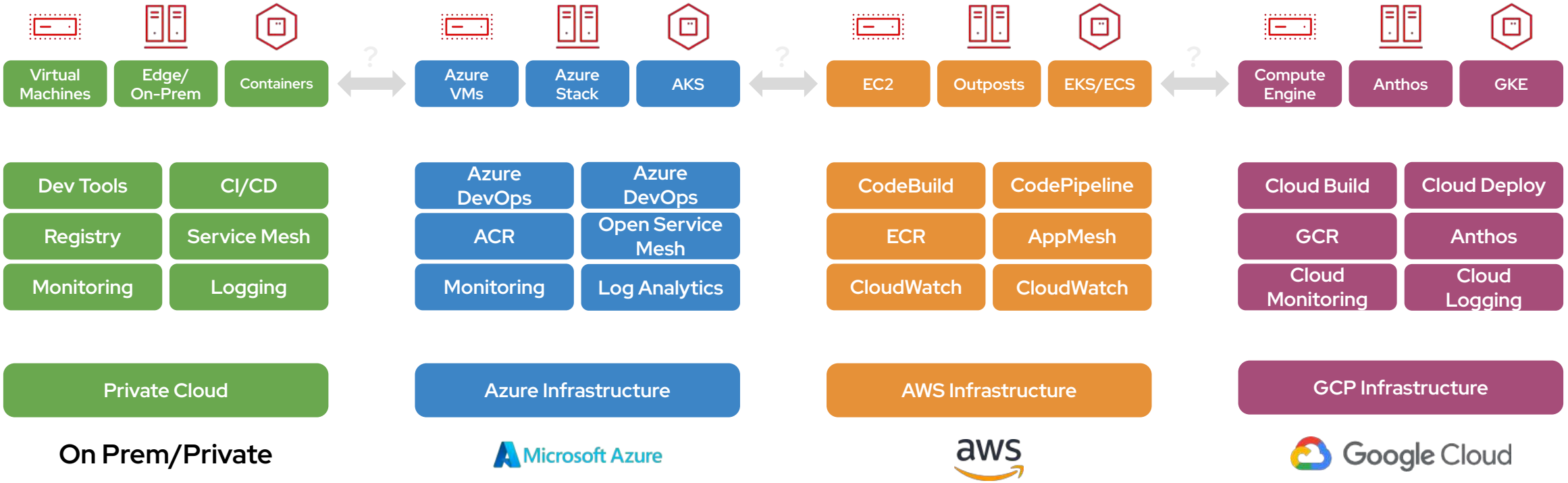
Every cloud provider, a unique skill set



https://forrestbrazeal.gumroad.com/l/cloud-resume-challenge-book

Consistent Platform Across Clouds Matters

Each cloud provider has its own workload platform & tools



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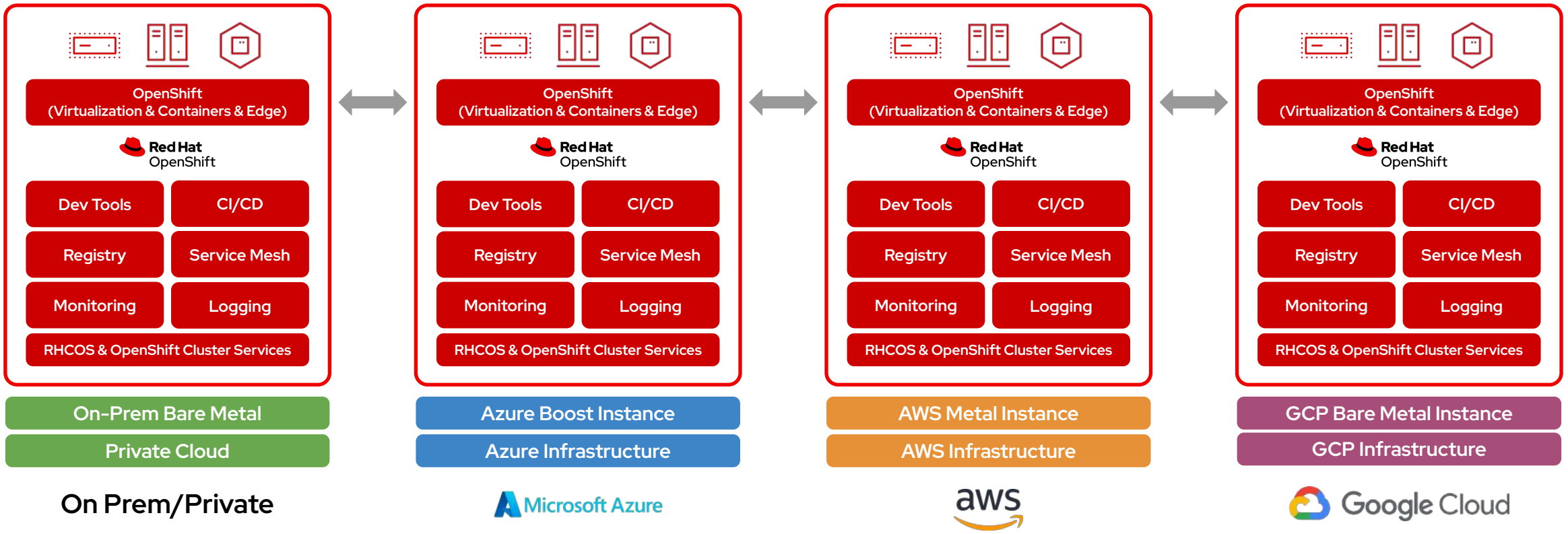
Consistent Platform Across Clouds Matters

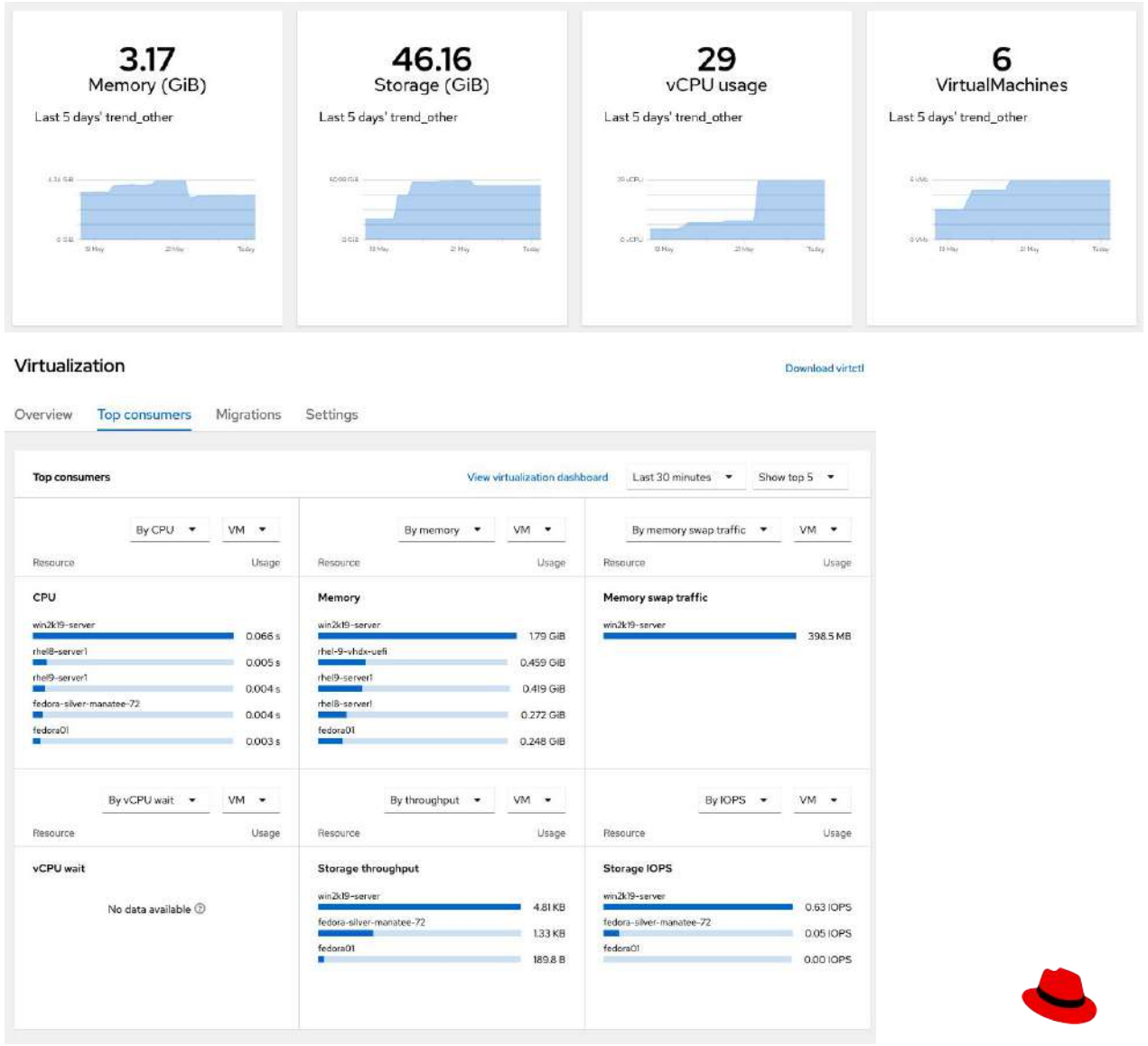
Portability across platforms with unified tools



Red Hat

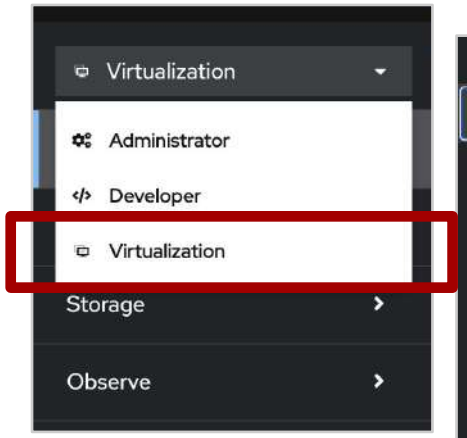
Virtualization in OpenShift

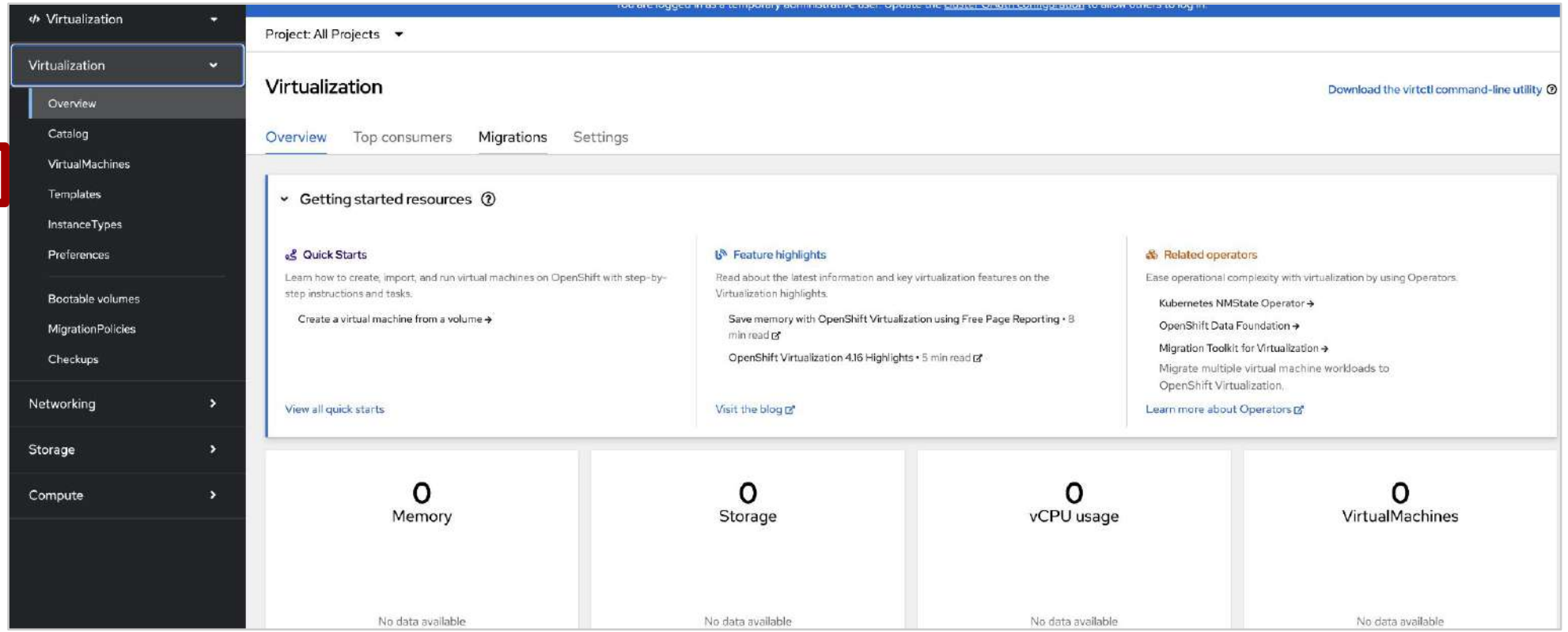
- Virtual Machine
  - Provisioning, Deprovisioning
  - Life Cycle Management
  - Live Migration (vMotion equivalent)
- Platform
  - Storage
    - Software Defined (Block, File, NFS, Object Storage)
    - Traditional Storage with Container Storage Interface
      - Dell, EMC, HPE, Hitachi, IBM, Pure etc
  - Network
    - Software Defined (OpenShift OVN)
    - Multiple Networks with VLANs segregation (Multus)
  - Load Balancing
    - MetalLB, F5 etc
- Backup and Restore
  - OADP (Valero), Kasten, Portworx, NetApp, Veritas etc
- Migration to OpenShift
  - vSphere, ESXi, OVA
  - Red Hat Virtualization, OpenStack
  - Hyper-V and other KVM variants (Automate with Ansible)



Dedicated Virtual Admin View

A dedicated, tailored console view for virtualization admins

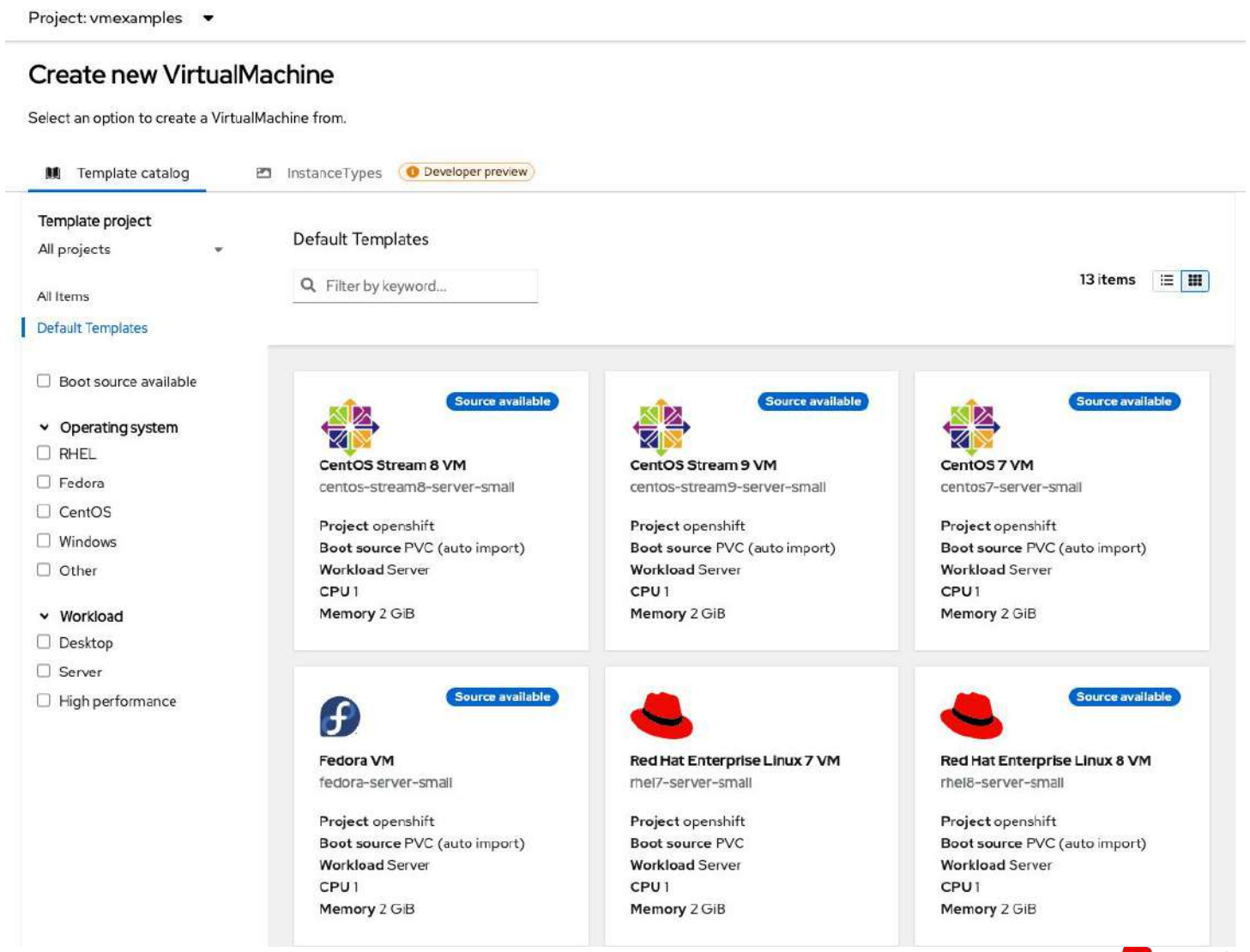




Red Hat

Virtual Machines Provisioning

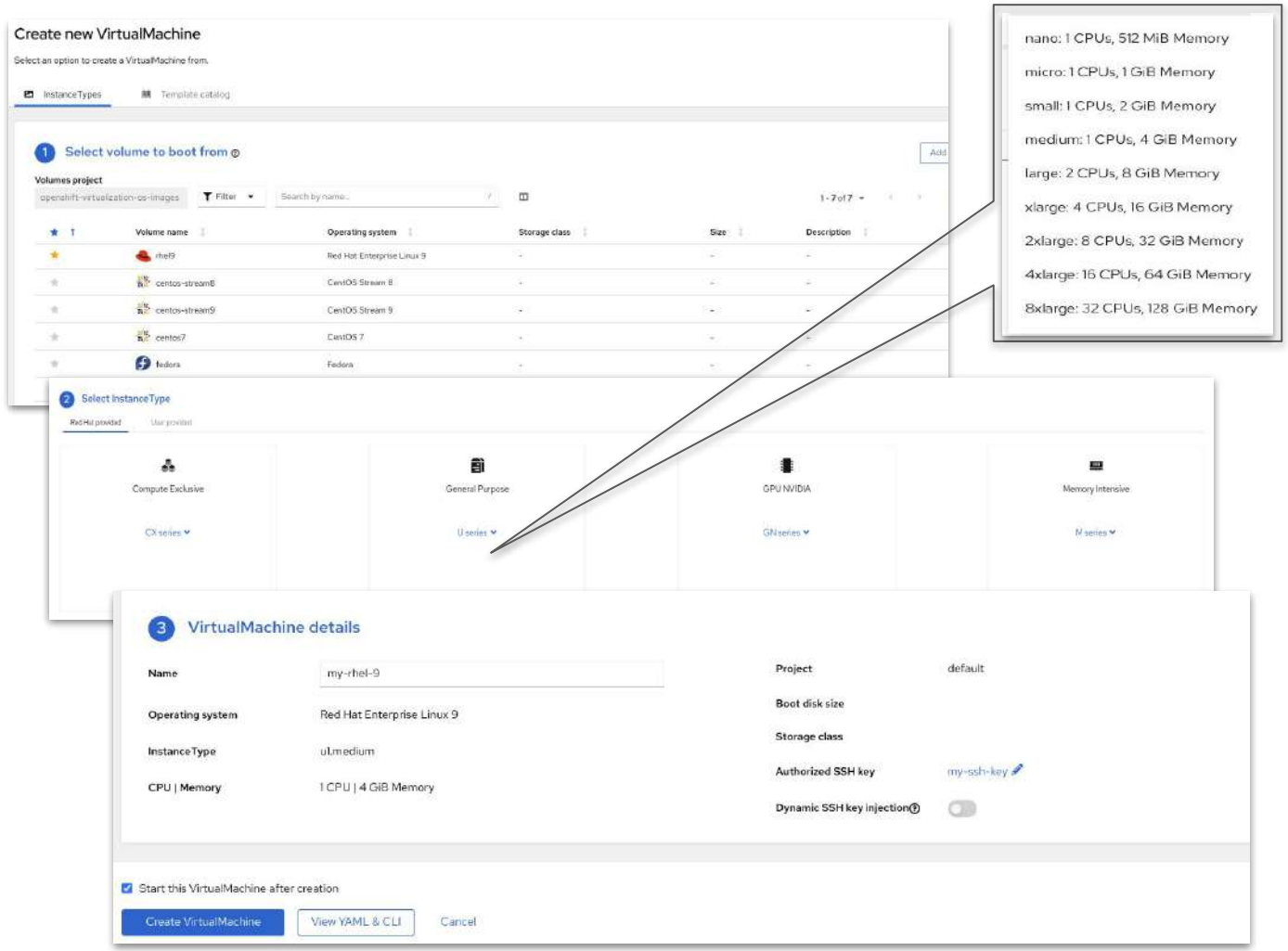
- Streamlined and simplified creation via the GUI or create VMs programmatically using YAML
- Full configuration options for compute, network, and storage resources
  - Clone VMs from templates or import disks using DataVolumes
  - Pre-defined and customizable presets for CPU/RAM allocations
  - Workload profile to tune KVM for expected behavior



Red Hat

Public cloud experience for VM creation using Instance Types

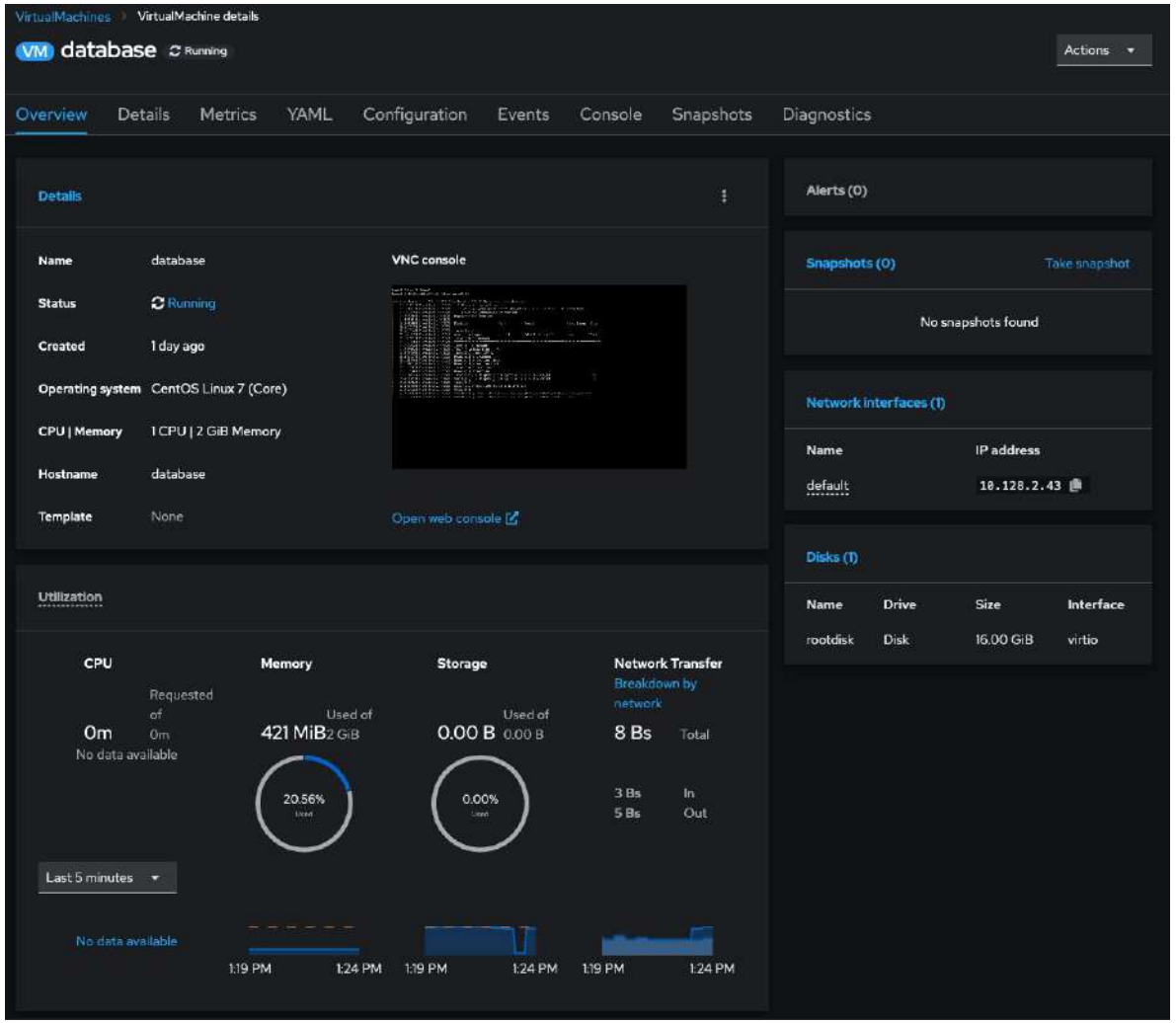
- Streamlined VM creation - 3-click GUI experience, reduced fields for API
- Instance types customized/tuned for multiple purposes
- General Purpose / Compute Exclusive / Memory Intensive / NVIDIA GPU
- Simplifies DevOps VM creation processes: specify boot source and InstanceType



Red Hat

Virtual Machine Administration

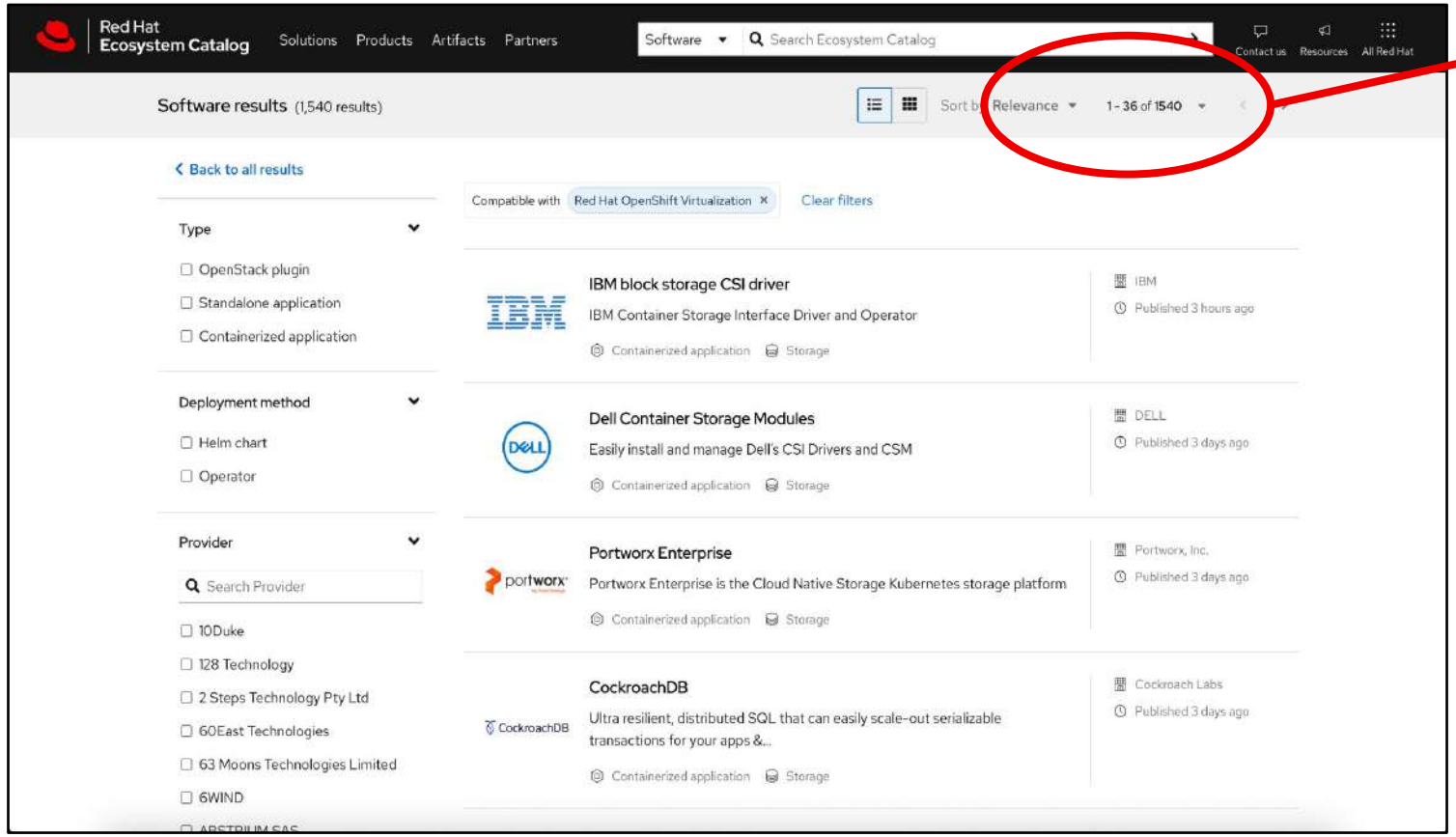
- General overview about the virtual machine
- Information populated from guest when integrations are available
  - IP address, etc.
- Inventory quickly shows configured hardware with access to view/manage
- Utilization reporting for CPU, RAM, disk, and network
- Events related to the Pod, scheduling, and resources are displayed



Red Hat

OpenShift Virtualization Compatibility

Applications Inherit RHEL & KVM Compatibility



Over 1500 entries

Applications compatible to run on RHEL 7 and above inherit compatibility with OpenShift Virtualization

As Red Hat OpenShift runs with a streamlined version of Red Hat Enterprise Linux known as RHCOS, it inherits the KVM hypervisor and thus both it's compatibility and performance with applications

Solve Near-Term Challenges, Invest in Long-Term Value

Efficiently migrate VMs now to reduce operating costs and unlock additional value in the future

MAINTAIN

Stay as-is

- Slow evolution
- Increasing costs
- Low developer productivity

MIGRATE

OpenShift Virtualization Engine

Utilize Automation and Services

- Dedicated VM management
- Reduce operating cost
- Increase IT efficiency and reliability

MODERNIZE

OpenShift

Application Modernization
Automation for Day 2 Ops

- Integrate containers and VMs
- Faster time to market
- Higher developer output

OpenShift AI

New applications

- AI/ML Management
- Increase revenue
- Reduce skill sprawl



"By 2028,

95% of new AI deployments

will use Kubernetes,

up from less than 30% today."

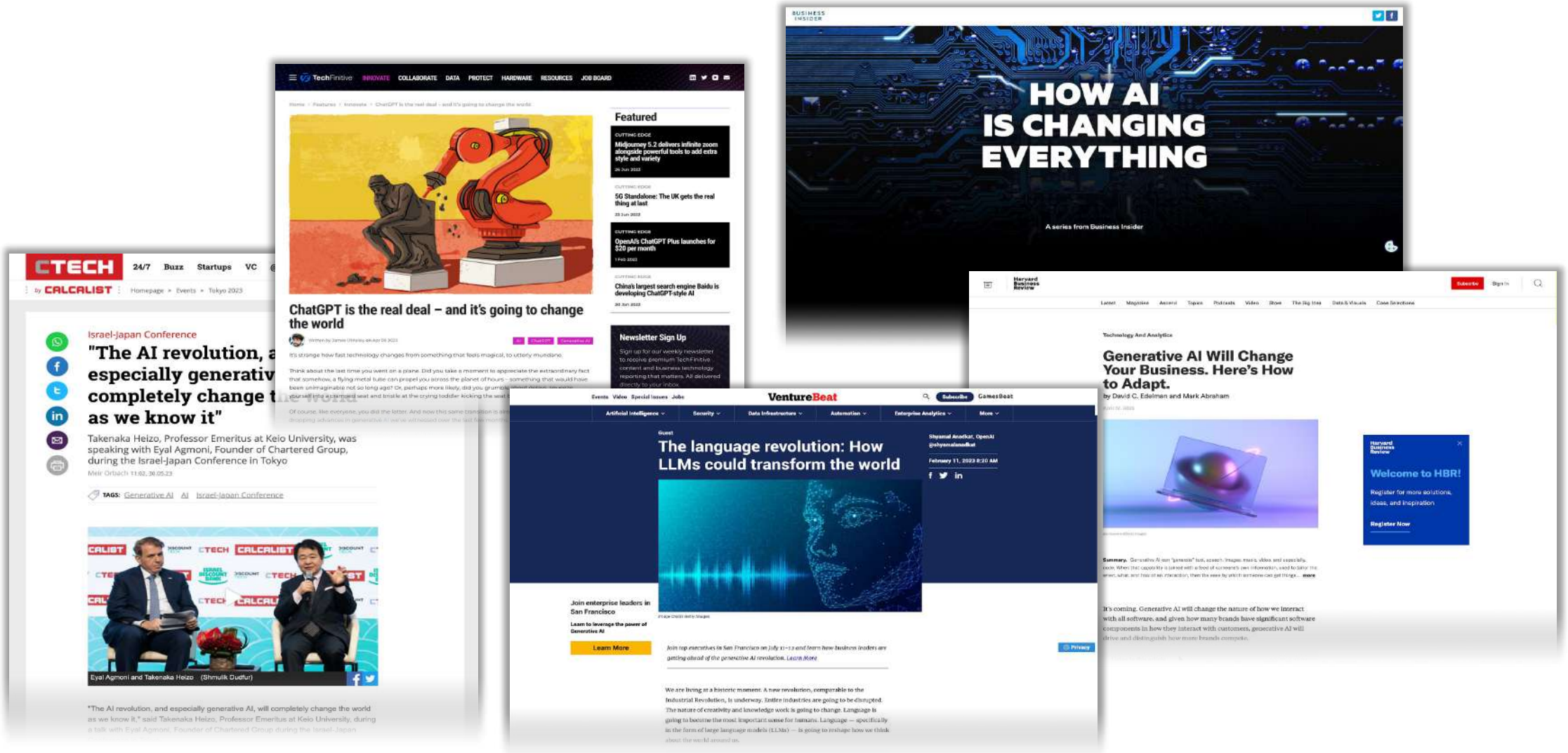
–

Gartner®

Source: Gartner, "Magic Quadrant for Container Management," Dennis Smith, Tony Iams, Wataru Katsurashima, Michael Warrilow, Richard Watson, 6 August 2025.

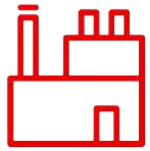
The world changed in November 2022

ChatGPT woke the world up to the power of generative AI



Customer concerns around Gen AI

Many our customers have been exposed to OpenAI (ChatGPT), a proprietary model and cloud-only approach. What is our offerings?



Lack of company or industry context

Lack of knowledge and **context** for specific industries and individual organizations.



Data privacy and security

Risk of **data leakage** of sensitive or proprietary data. May not comply with data regulations.



Ownership and Control

Some foundation models like OpenAI are **proprietary**. You do not own the models nor can customise.



Cloud-only Lock-in

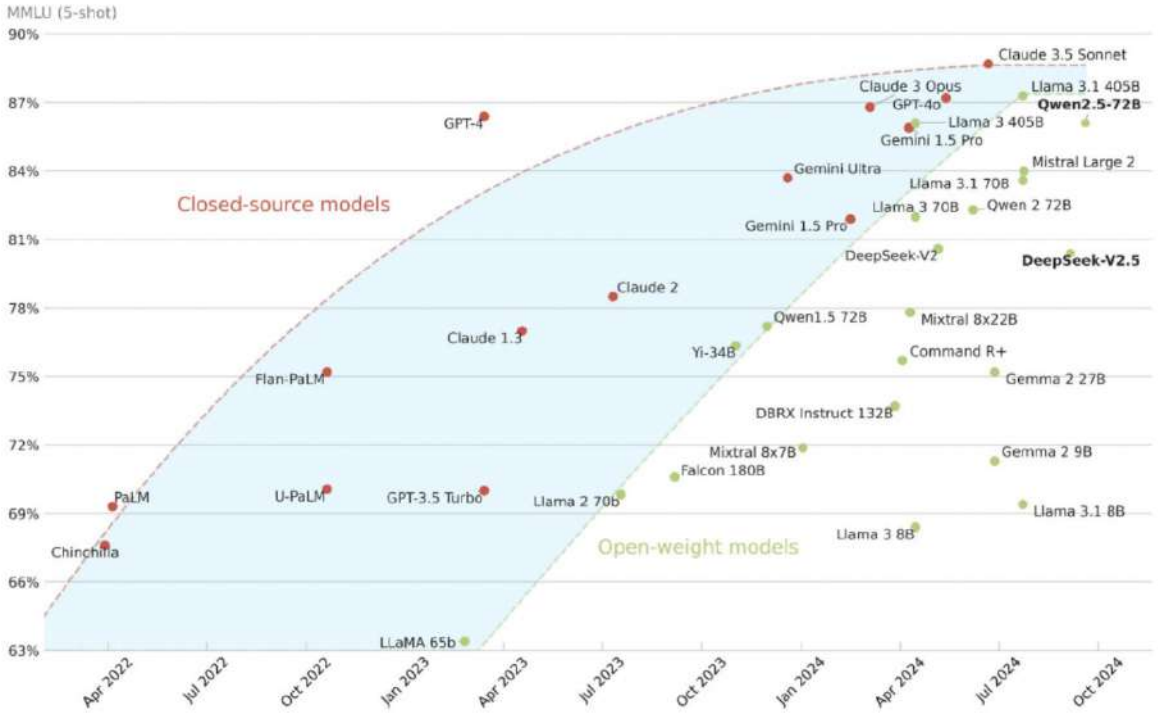
Some solutions are only available in the cloud. Lack of flexibility to deploy hybrid. Subjected to their operational schedule, downtime and feature deprecation.
Cost may escalate when data volumes become large.

Red Hat

The Power of Open

Open models are deployment targets **today**. And the trend is not slowing down.

Llama · Qwen · DeepSeek · Gemma · Mistral · Molmo · Phi · Nemotron · Granite



Headlines

deepseek R1

- First reasoning model on par in quality with OpenAI O1
- 1-70B parameter distilled versions
- Global market pandemonium?

Meta Llama

- Llama 4 launched 5th Apr 2025
- 85,000 Llama derivative models
- 3B,8B,70B,100B,400B,2T variants
- Multilingual, Multimodal, Mobile

Models are commoditizing → many options for diverse enterprise needs.

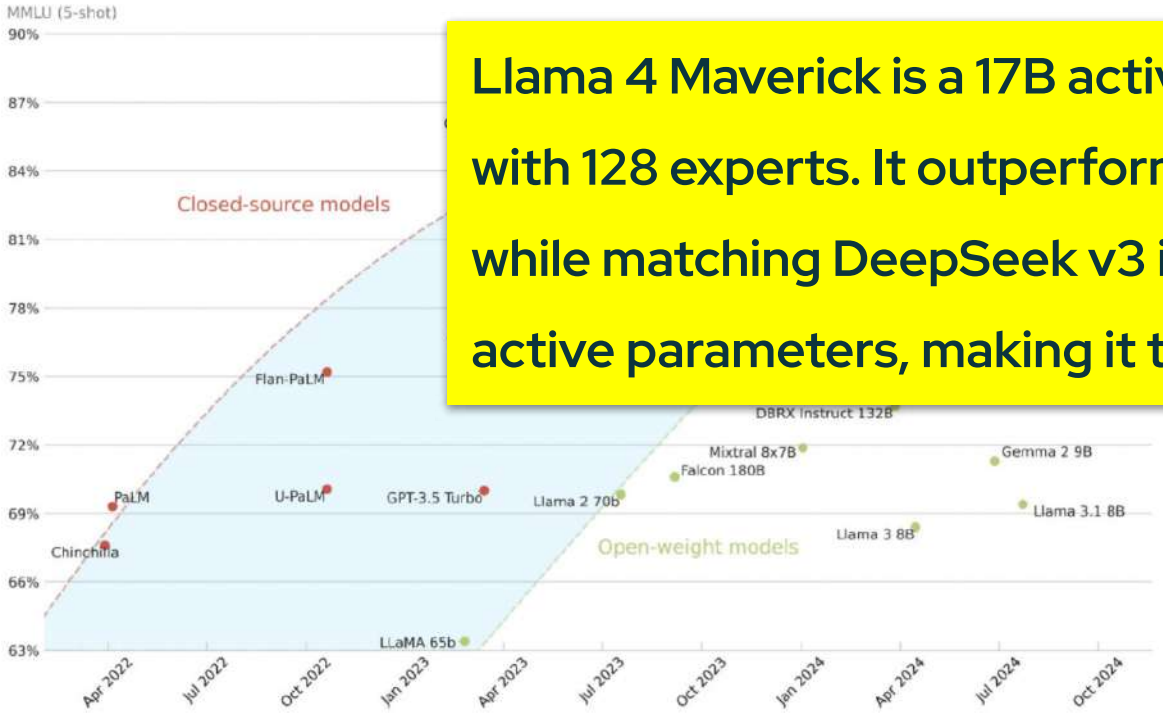
Source:
https://www.researchgate.net/publication/386193568_The_path_forward_for_large_language_models_in_medicine_is_open
https://ai.meta.com/blog/llama-4-multimodal-intelligence/

The Power of Open

Open models are deployment targets **today**. And the trend is not slowing down.

Llama · Qwen · DeepSeek · Gemma · Mistral · Molmo · Phi · Nemotron · Granite

Headlines



Llama 4 Maverick is a 17B active parameter (400B total) multimodal model with 128 experts. It outperforms GPT-4o and Gemini 2.0 Flash in benchmarks while matching DeepSeek v3 in reasoning and coding—using less than half the active parameters, making it the leader in its class.

Meta Llama



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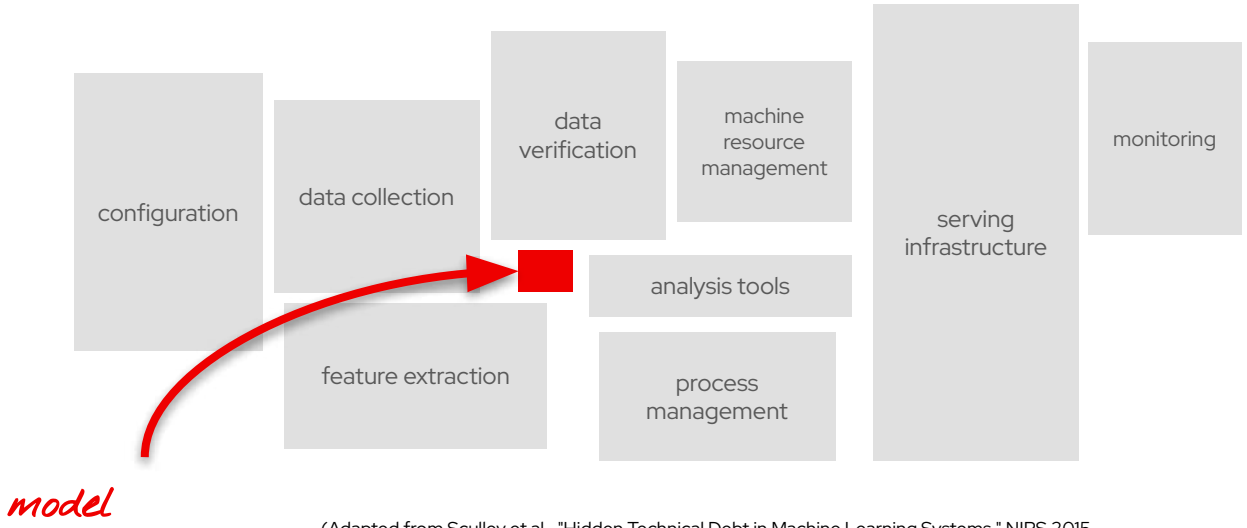
Model is one component of a larger system



(Adapted from Sculley et al., "Hidden Technical Debt in Machine Learning Systems." NIPS 2015

Hidden Technical Debt in Machine Learning Systems

"Only a small fraction of real-world ML systems is composed of the ML code...The required **surrounding infrastructure is vast and complex.**"

"Developing and deploying ML systems is relatively fast and cheap, but **maintaining them over time is difficult and expensive**"

Red Hat

Components of an AI platform

Successful AI implementations require more than models and GPUs



Model development



Access to frontier models



Tuning capabilities



Serving mechanisms



Hybrid-cloud support



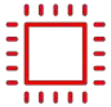
Model Lifecycle management



Monitoring



Scalability and automation



Resource optimization and management

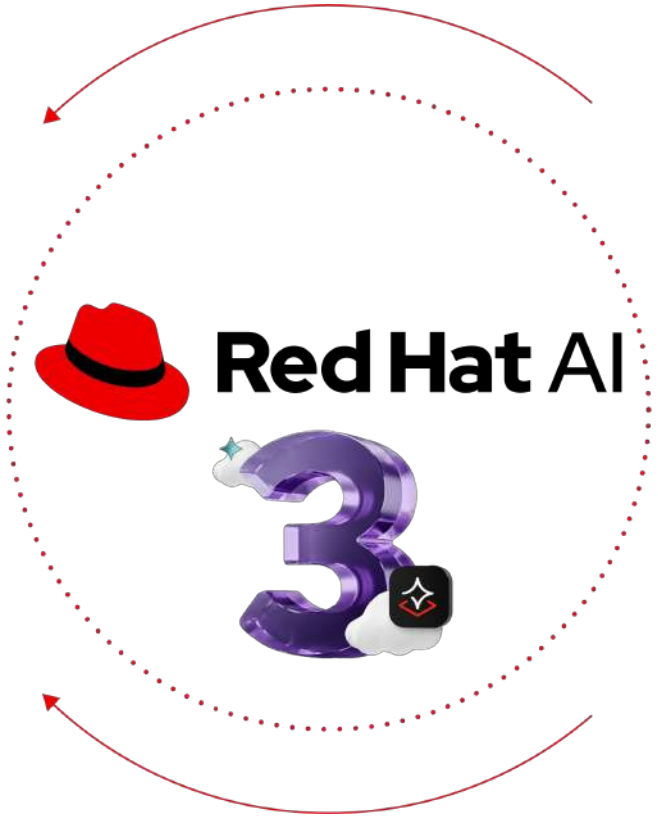
Red Hat

Flexible and Efficient Inference

- GA distributed inference (llm-d)
- New validated and optimized models
- vLLM enhancements
- LLM Compressor GA

Connecting Models to Data

- Modular and extensible approach for: data ingestion, synthetic data generation, tuning, evaluations.
- RAG enhancements & partner integrations
- Continual Post Training Algorithm
- Feature Store GA



Agentic AI

- AI experiences: AI hub and gen AI studio
- Model Context Protocol support & MCP Server access in gen AI studio
- Llama Stack API integration

AI Platform

- Model catalog and registry GA
- Model as a Service provider enhancements and API Mgt integration
- GPU as a Service enhancements

Single platform to run any model, on any accelerator, on any cloud

Red Hat

Flexibility from Red Hat AI Enterprise

Llama | Qwen 通義千問 | DeepSeek 深度求索 | Kimi 月之暗面 | MiniMax 稀宇科技 | Gemma | Mistral | GPT-OSS | Nemotron | Granite

Pre-Optimized Models

MaaS
Models as a Service
AI Gateway

Red Hat AI Enterprise
vLLM

GPUaaS
GPU-as-a-Service
DRA

GPU | Instinct | TPU | Neuron | Gaudi | Spyre | 沐曦卡 (中國) | NPU (Korea)

Physical | Virtual | Private Cloud | Public Cloud | Edge

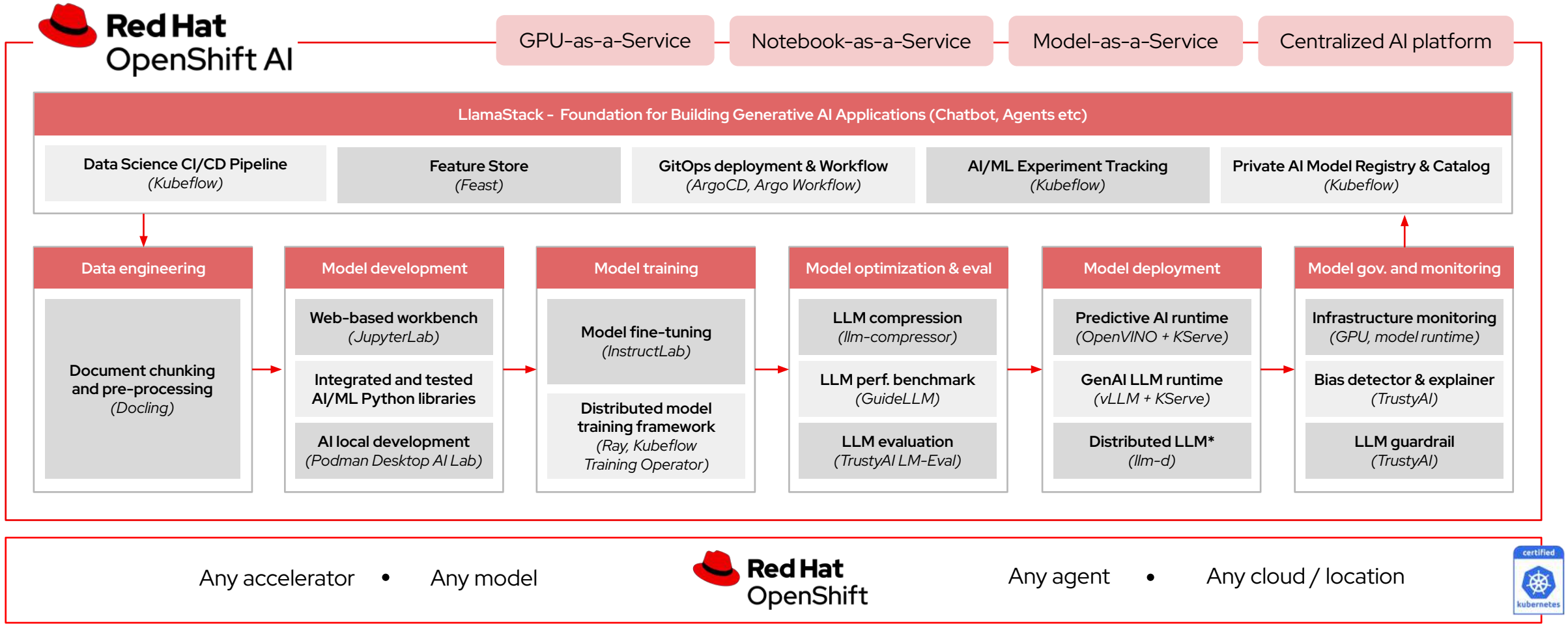
Single platform to run any model, on any accelerator, on any cloud

Red Hat AI is 100% open source

Red Hat

Red Hat AI - End to End Unified AI platform

Comprehensive solution for AI Success (Generative AI + Predictive AI)

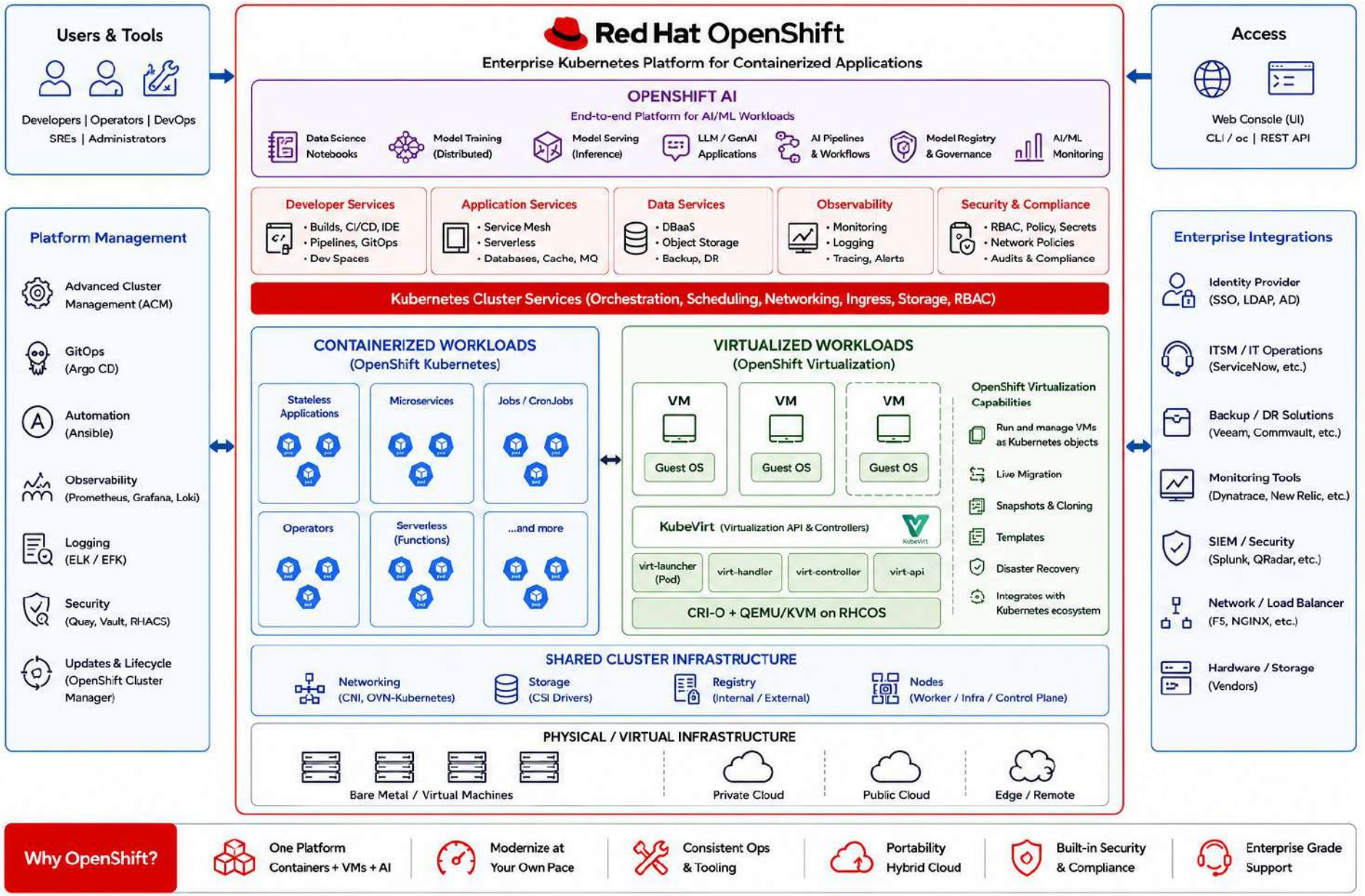


** llm-d is still a community project, not yet part of OpenShift AI*

Red Hat

A single open platform for Containers, VMs & AI

Flexible deployment across your environment



Red Hat is recognized as a Leader in the 2026 Gartner® Magic Quadrant™ for Server Virtualization Platforms

Figure 1: Magic Quadrant for Server Virtualization Platforms



"By 2029, 55% of enterprises will migrate 100% of workloads to VMware alternative delivery solutions."

Gartner, "Magic Quadrant for Server Virtualization Platforms," Tony Harvey, Daniel Bowers, Paul Delory, Tony Iams, Owen Marino, 14 September 2026.
Gartner, "First Take: Proxmox Removes Objections With Enterprise 24/7 Support," Tony Harvey, Fintan Quinn, Vishesh Divya, 4 September 2026.

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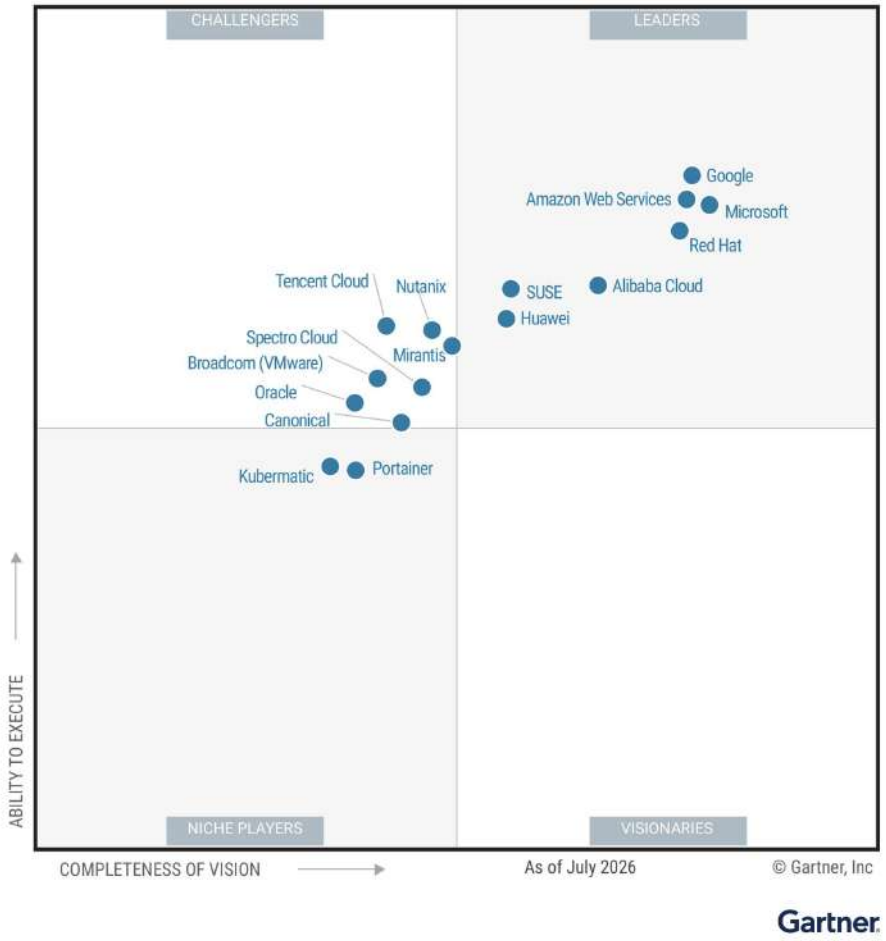
Red Hat is recognized as a Leader in the 2026 Gartner® Magic Quadrant™ for Container Management

Figure 1: Magic Quadrant for Container Management



Gartner, Magic Quadrant for Container Management, Dennis Smith, Tony Iams, Wataru Katsurashima, Lucas Albuquerque, Carolin Zhou, Bhuvie Chhabra, 2 September 2026

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Red Hat is a Leader in the 2026 Gartner® Magic Quadrant™: Cloud-Native Application Platforms for the third year in a row



Source: Gartner, "Magic Quadrant for Cloud-Native Application Platforms," Saha Mukul, Coqueiro Alex, Prasanna Lakshmi Narasimha, Watson Richard, 3 Aug. 2026.

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A leader in three categories



Red Hat is a Leader in the 2026 Gartner® Magic Quadrant™: Cloud-Native Application Platforms for the third year in a row



Red Hat is a Leader in the 2026 Gartner® Magic Quadrant™: Container Management for the fourth year in a row



Red Hat is a Leader in the 2026 Gartner® Magic Quadrant™: Server Virtualization Platforms

Source: Gartner, "Source: Gartner, Magic Quadrant for Cloud-Native Application Platforms, Saha Mukul, Coqueiro Alex, Prasanna Lakshmi Narasimha, Watson Richard, 3 Aug. 2026.
Source: Gartner, Magic Quadrant for Container Management, By Dennis Smith, Tony Iams, Wataru Katsurashima, Lucas Albuquerque, Carolin Zhou, Bhuvie Chhabra, 2 September 2026.
Source: Gartner, Magic Quadrant for Server Virtualization Platforms, Tony Harvey, Daniel Bowers, Paul Delory, Tony Iams, Owen Marino, 14 September 2026

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Red Hat OpenShift Customers



Red Hat

Red Hat OpenShift

The platform for all your workloads

Trusted

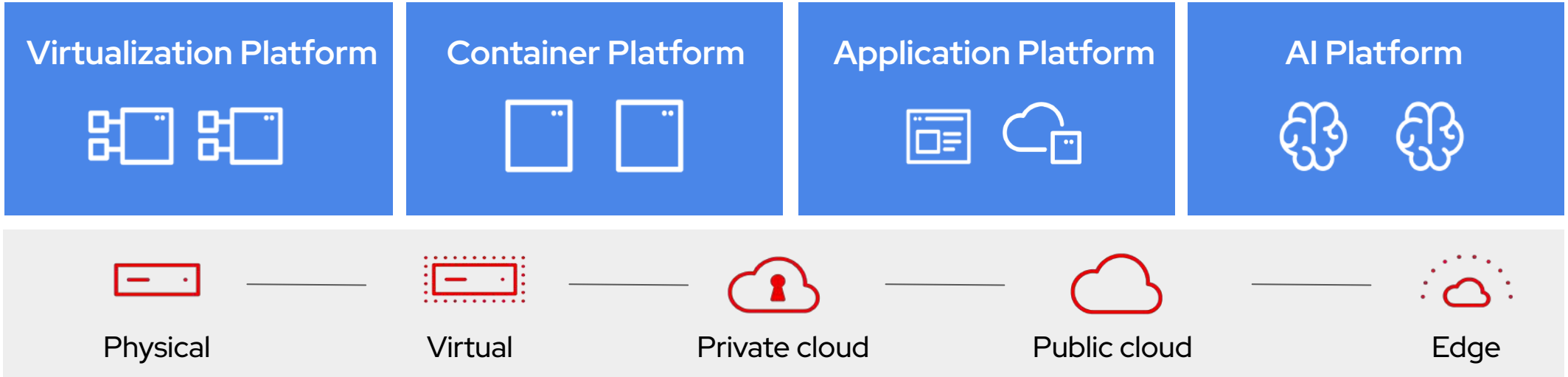
to reduce risk

Comprehensive

to improve productivity

Consistent

to increase flexibility



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