



# Red Hat in the Cloud(s)

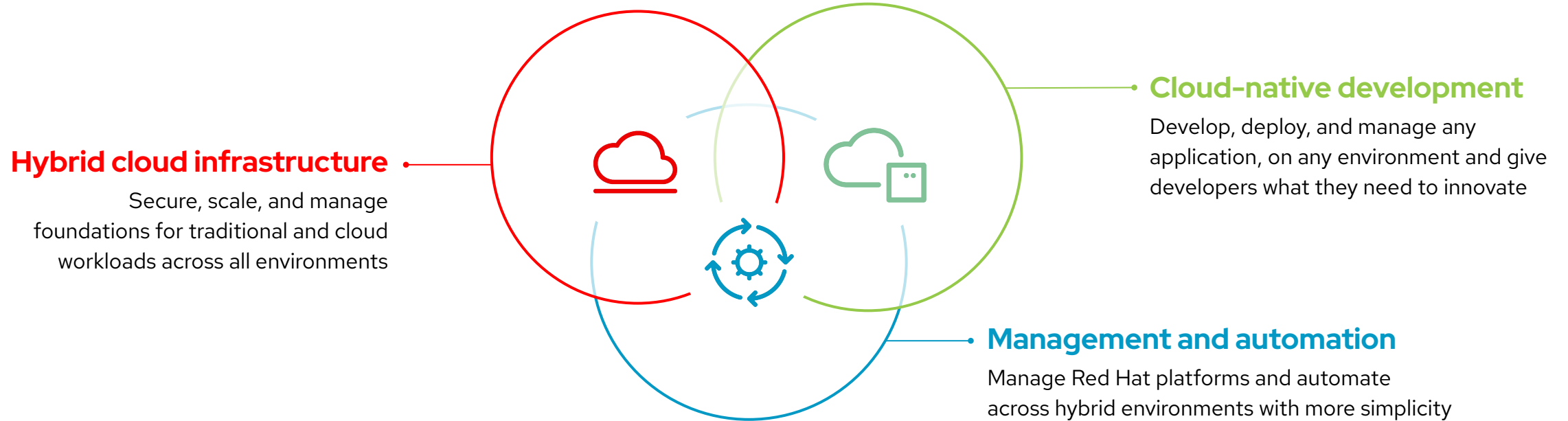
Red Hat Enterprise Linux

Johnny Westerlund  
Solution Architect

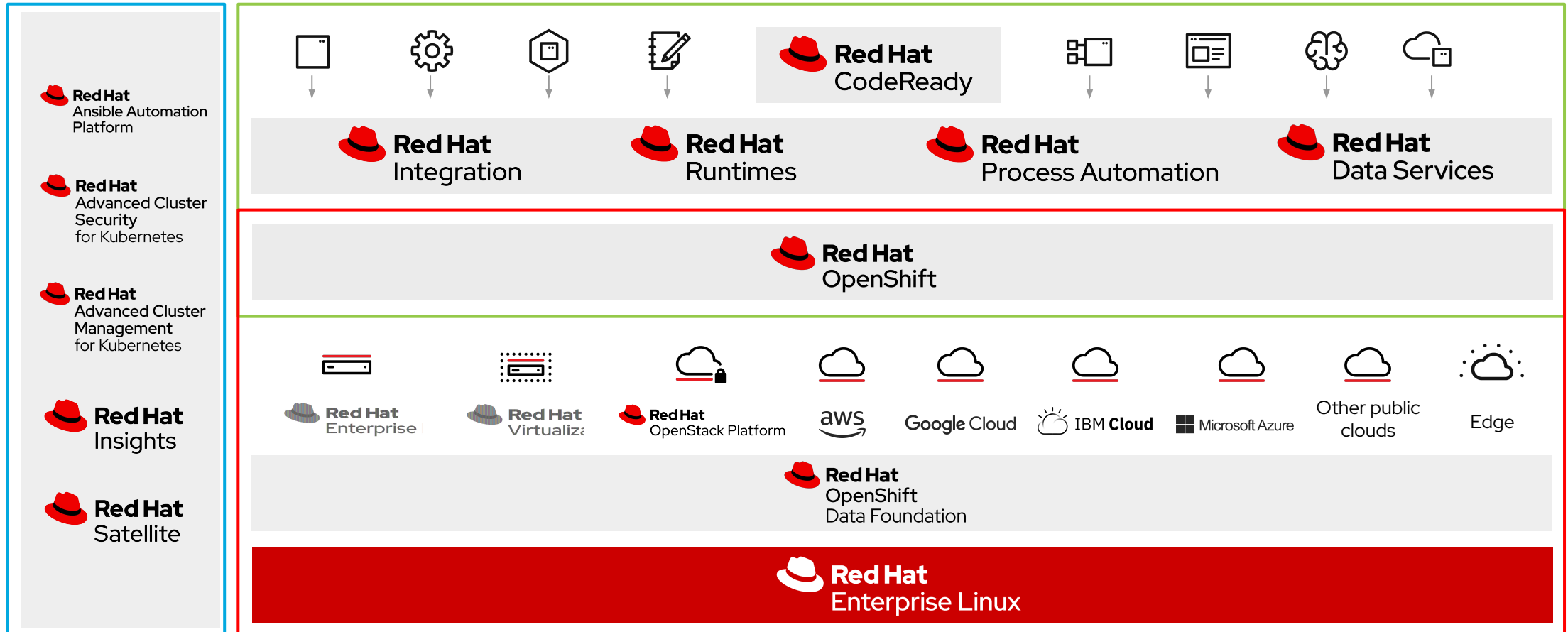
# The three pillars of our business

## Open hybrid cloud

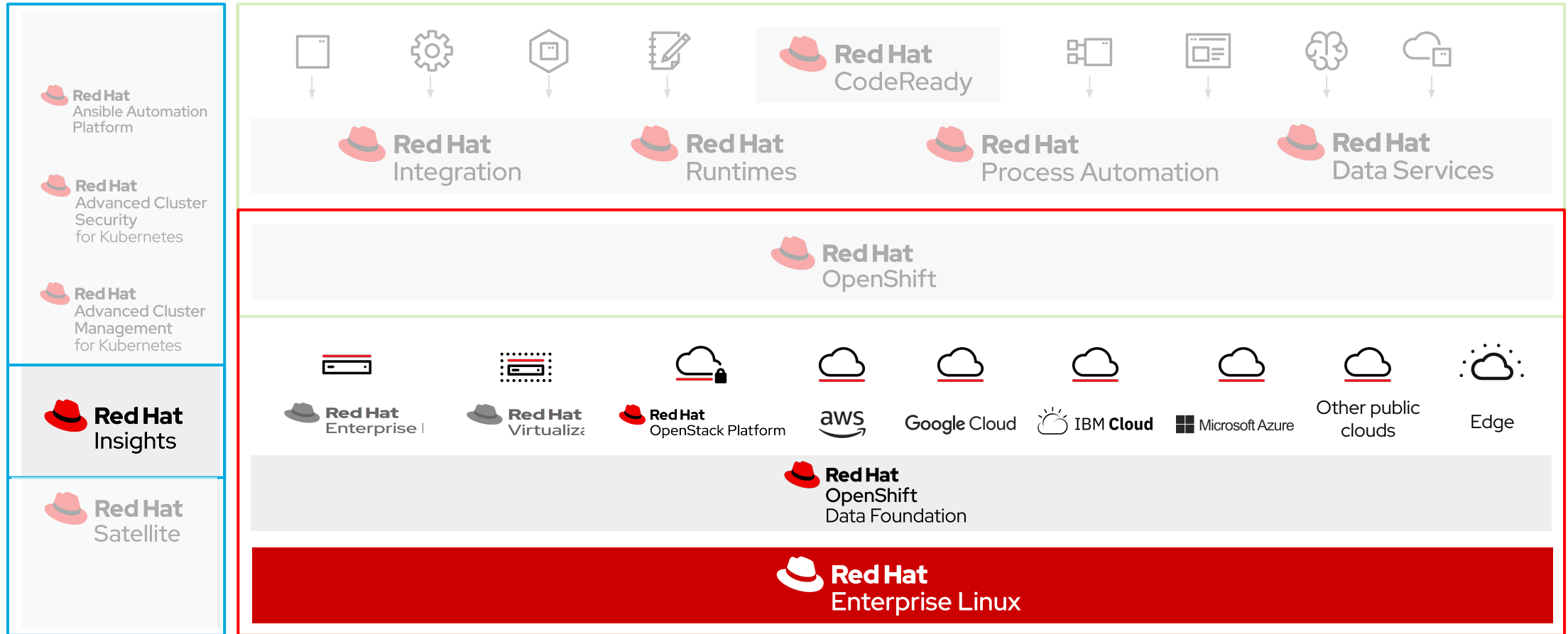
Red Hat's strategy and vision for its portfolio of software, tools, and services built in the open source development model and designed for future architectures that are open, secure, and agile across hybrid, multicloud



# Portfolio for an Open Hybrid Cloud

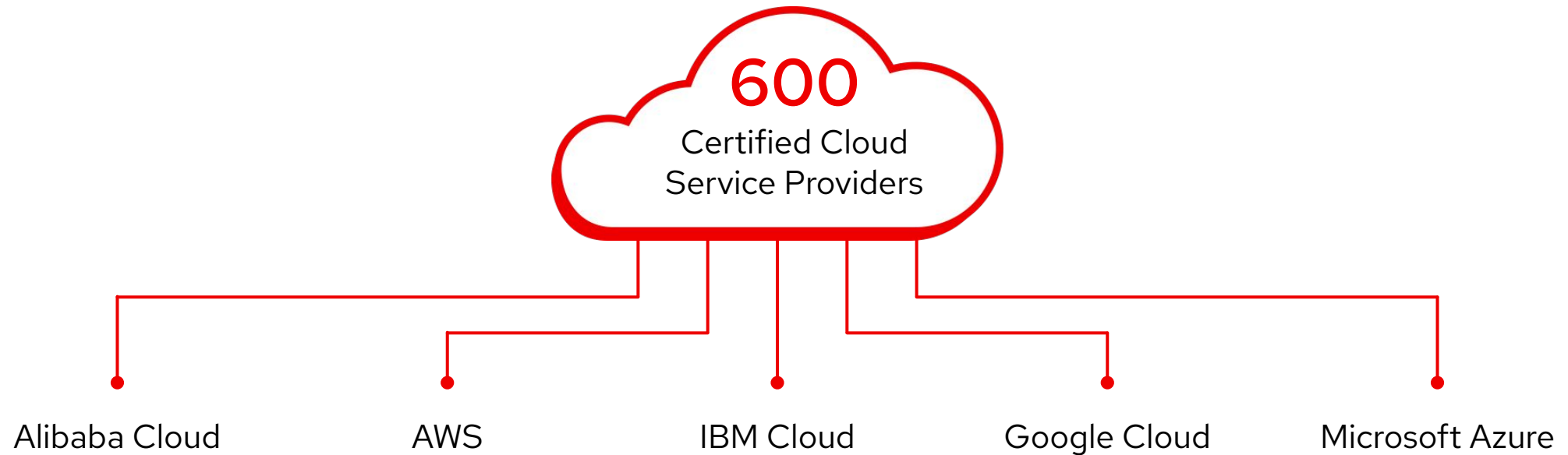


# Portfolio for an Open Hybrid Cloud - Focus of Today



# Get to where you need to be, quicker, with Red Hat

Red Hat Enterprise Linux is certified for use with all major cloud providers



# CONSISTENCY

## ACROSS ANY ENVIRONMENT

## World-record SAP® performance

#1

### World record SAP Big Data Analytics Total Runtime

SAP® BW Edition on SAP HANA® v3 at 1.3 billion records,  
Total runtime of data load/transformation and complex query phase

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### World record SAP Big Data Analytics Query Executions

SAP BW Edition on SAP HANA v3 at 5.2 billion records,  
Query executions per hour

# Meet business needs with a certified partner ecosystem

Red Hat's ecosystem of industry-leading hardware, software, and cloud vendors gives you more choice, innovation, and stability.

**>3,000**

certified server configurations, including x86, IBM POWER and Z, and ARM

**Collaboration**

with industry-leading independent hardware vendor (IHV) partners

**>4,900**

certified commercial app, including databases, dev tools, and business apps

**Hundreds**

of industry-leading independent software vendor (ISV) partners

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**Create the right environment for your organization using your preferred apps, hardware, and infrastructure.**



## Managing configuration complexity

Continuous monitoring and remediation of system configurations is critical

**19%**

of breaches caused by malicious attacks were due to cloud misconfigurations.<sup>1</sup>

Compliance failures can increase the average cost of a data breach by

**US\$255,626.**<sup>1</sup>

ONLY

**28%**

of organizations achieved 100% compliance with PCI DSS in 2019.<sup>2</sup>

Payment Card Industry Data Security Standard (PCI DSS) compliance demonstrates the challenges of configuration management.

# How can you consume Red Hat Enterprise Linux in the cloud(s)

# Buying Red Hat Enterprise Linux in the Cloud(s)

## Details on cloud purchasing options

	AKA Other terms, other names	Offering owned by	Supported by	Billed by	Counts toward Cloud Provider Committed Spend	Counts toward Red Hat Hybrid Committed Spend
<b>Console</b> Cloud provider owned offering chosen as part of the instance/infrastructure process	Pay as you go (PAYG), On Demand, 1P	Cloud Provider	Cloud Provider	Cloud Provider	● 100%	●
<b>Private Offer / Plan "Marketplace"</b> ISV owned offerings privately negotiated between customer and ISV but purchased and delivered jointly via the cloud provider marketplace	Marketplace	Red Hat	Red Hat	Cloud Provider	● 50%	●
<b>Bring your own subscription/license</b> Customers use existing on prem subs/licenses on cloud provider platform	BYOS, BYOL, Red Hat Cloud Access	Red Hat	Red Hat	Red Hat	✗	●

Optional section marker or title

# DEMO



- ▶ How do you know if your systems are up to date and configured properly?
- ▶ Can you quickly determine remediation actions for noncompliant systems?
- ▶ Can you rapidly audit systems and generate compliance reports?

# What is Red Hat Insights and what does it do?

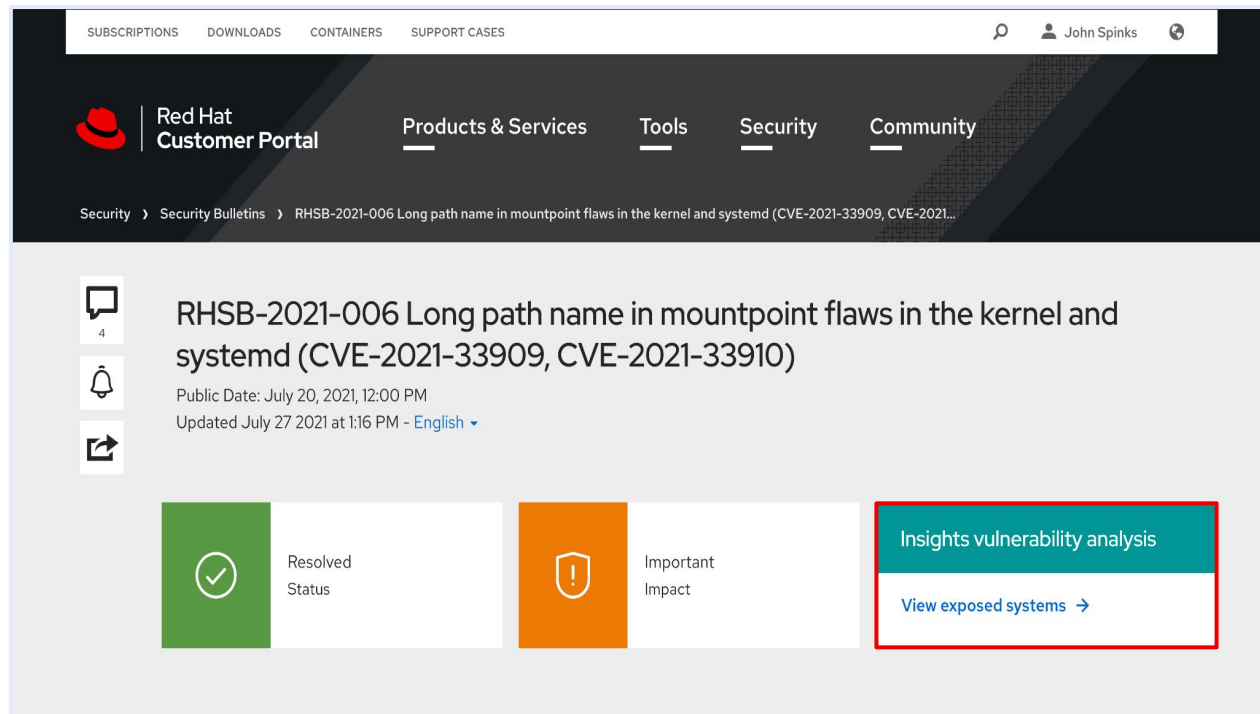
A cloud analytics platform that helps you better manage your hybrid and cloud environments



- ▶ **Gathers** configuration and utilization data from your Red Hat® products
- ▶ **Analyzes** the data based on Red Hat knowledge and expertise
- ▶ **Generates** and prioritizes insights for you to take action

# How does Red Hat Insights help me?

Use Red Hat's expertise and knowledge to evaluate your systems



Red Hat subscriptions include knowledge of:



**>1 Million**  
Customer support cases



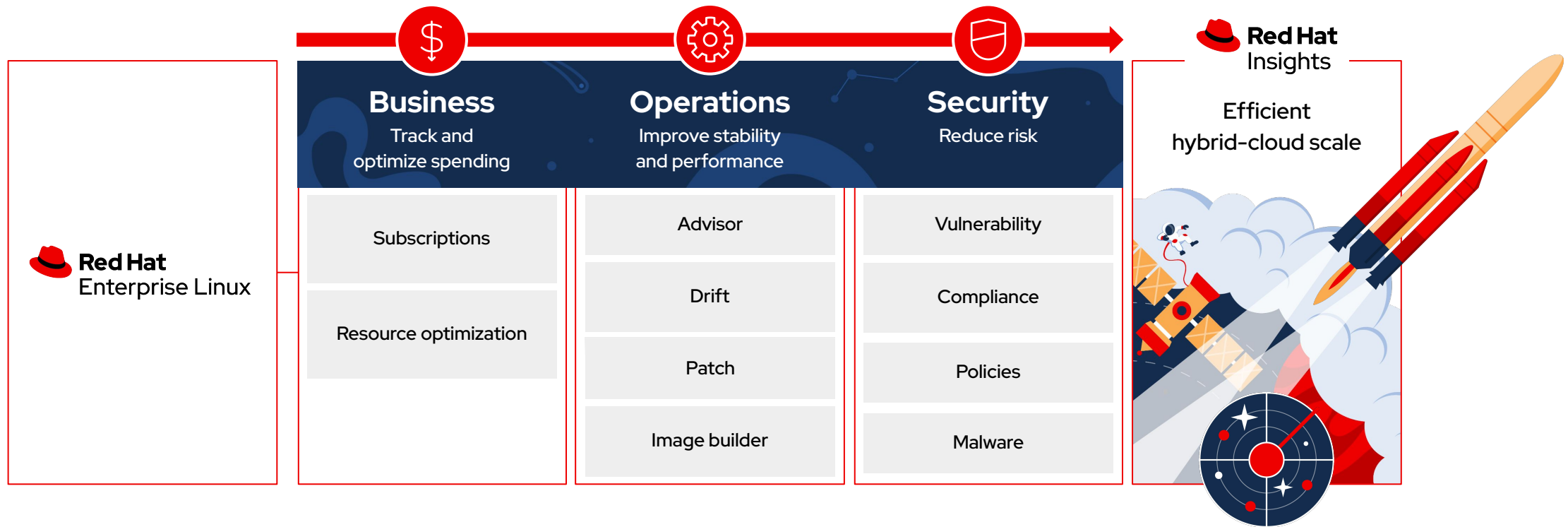
**>1,000**  
Red Hat support personnel



**>115,000**  
Knowledge base and solution articles

# Red Hat Insights for Red Hat Enterprise Linux

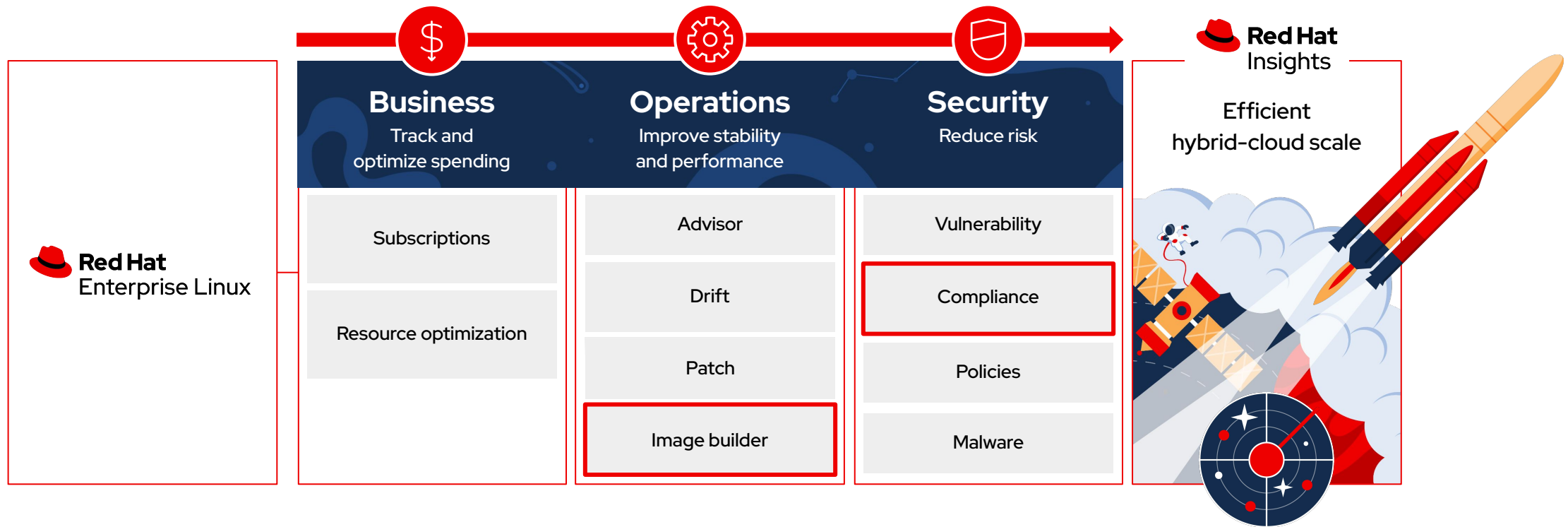
For all your hybrid-cloud challenges





# Red Hat Insights for Red Hat Enterprise Linux

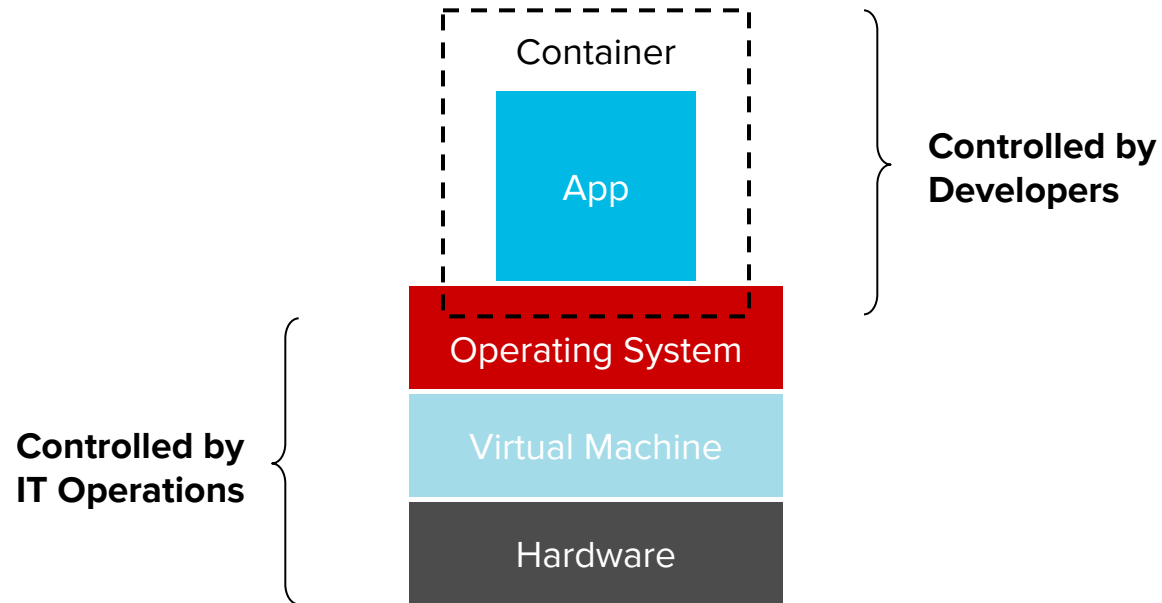
For all your hybrid-cloud challenges



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# DEMO

# Containers



Ops:

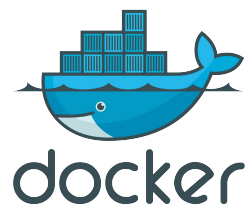
- Sandboxed application processes on a shared Linux OS kernel
- Simpler, lighter, and denser than virtual machines
- Portable across different environments

Dev:

- Package my application and all of its dependencies
- Deploy to any environment in seconds and enable CI/CD
- Easily access and share containerized components

# Consistent approach to application packaging

Deploy containers to RHEL or Openshift



 **kubernetes**

 **cri-o**

 **Red Hat**  
OpenShift

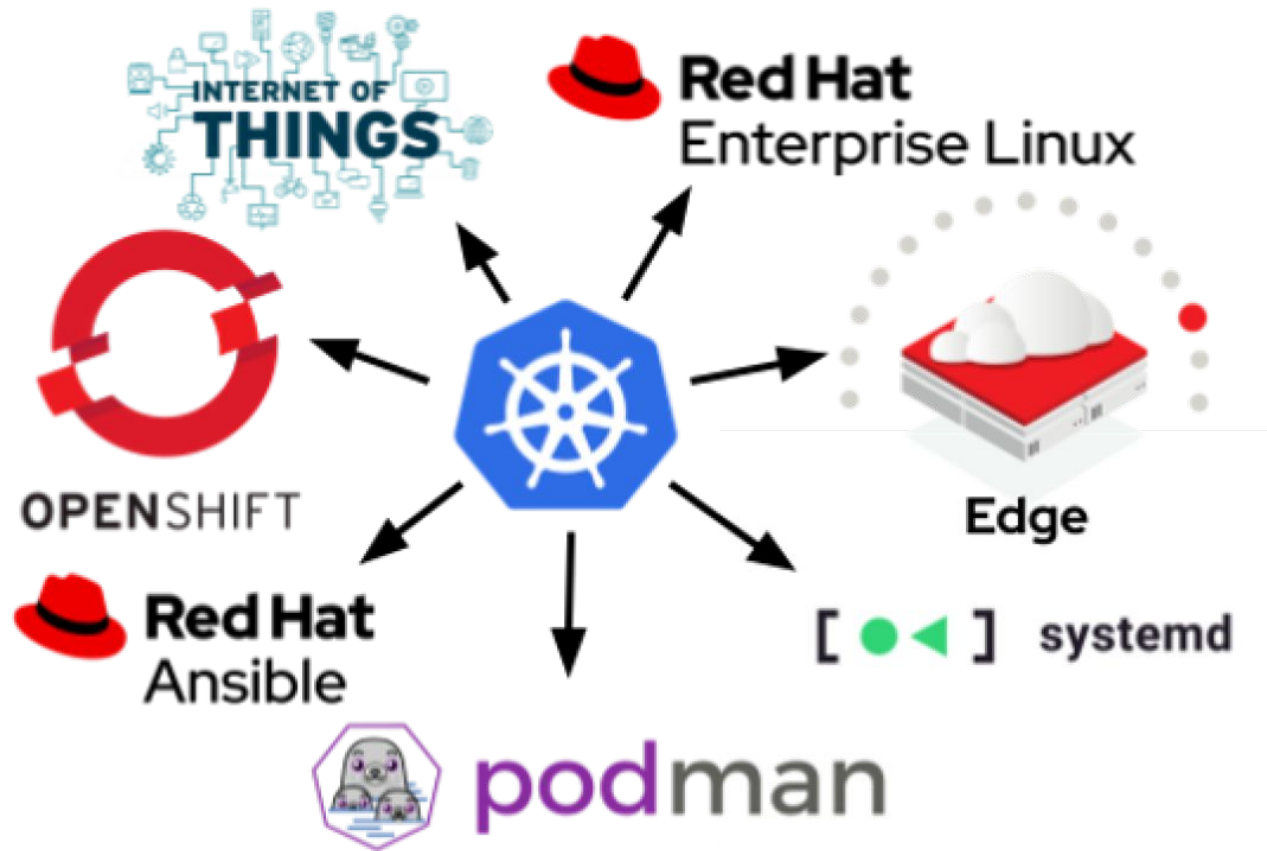
 **podman**

 **skopeo**

 **buildah**

 **Red Hat**  
Enterprise Linux

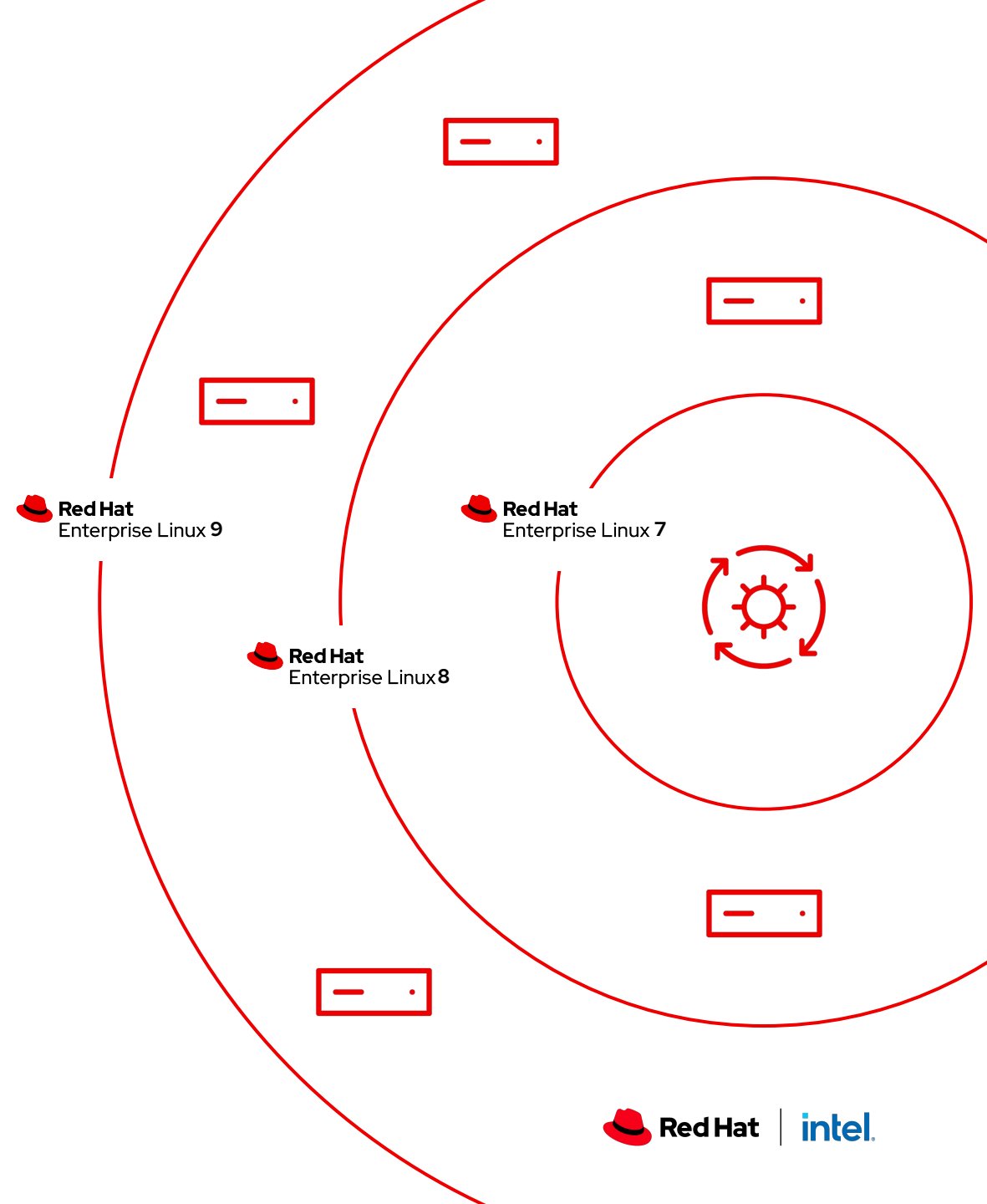




## RHEL system roles

A collection of supported Ansible roles included in a RHEL subscription to help automate consistent and repeatable OS tasks and configurations.

- ▶ Ensure repeatable configuration and deployment across multiple RHEL 9, RHEL 8, and RHEL 7 systems
- ▶ Reduce technical burdens and streamline daily administration with powerful automation
- ▶ Minimize manual tasks and execute them consistently across physical, virtual, private cloud, and public cloud footprints
- ▶ Scale by leveraging the Red Hat Satellite and Red Hat Ansible Automation Platform subscriptions



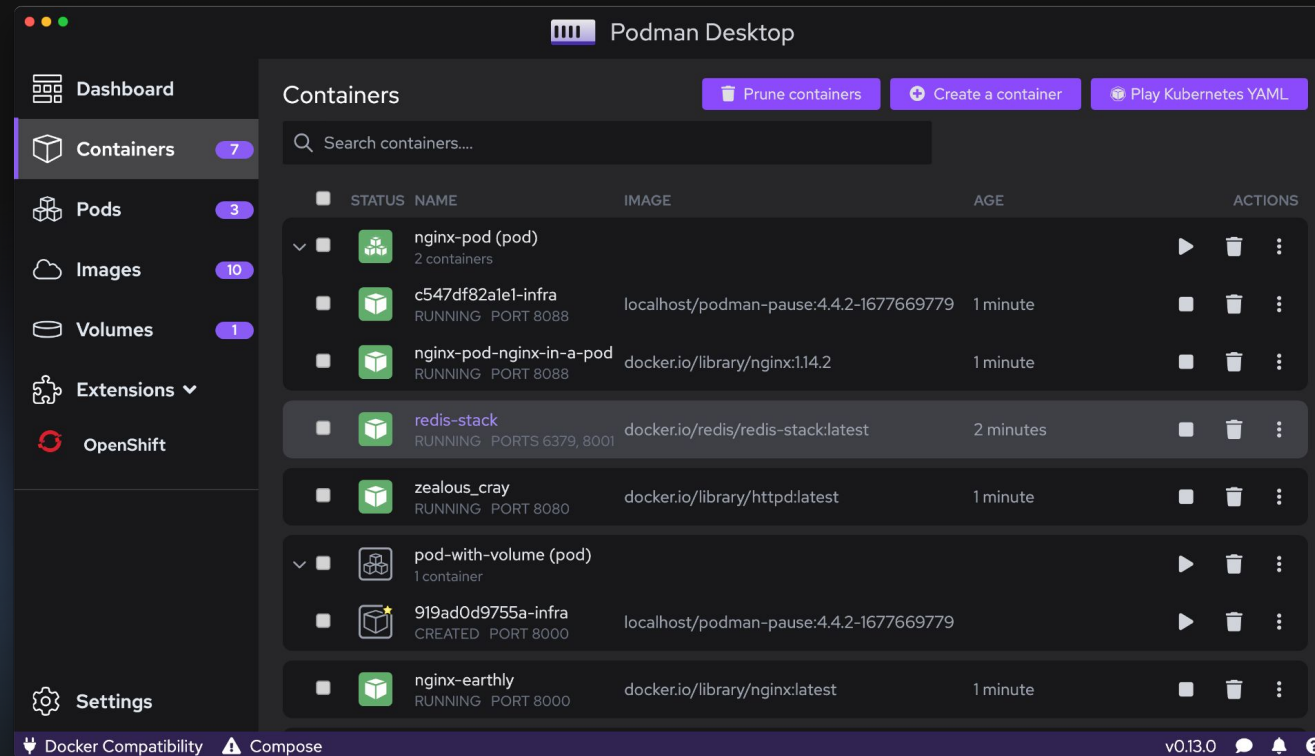
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# DEMO

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# OTHER NEWS



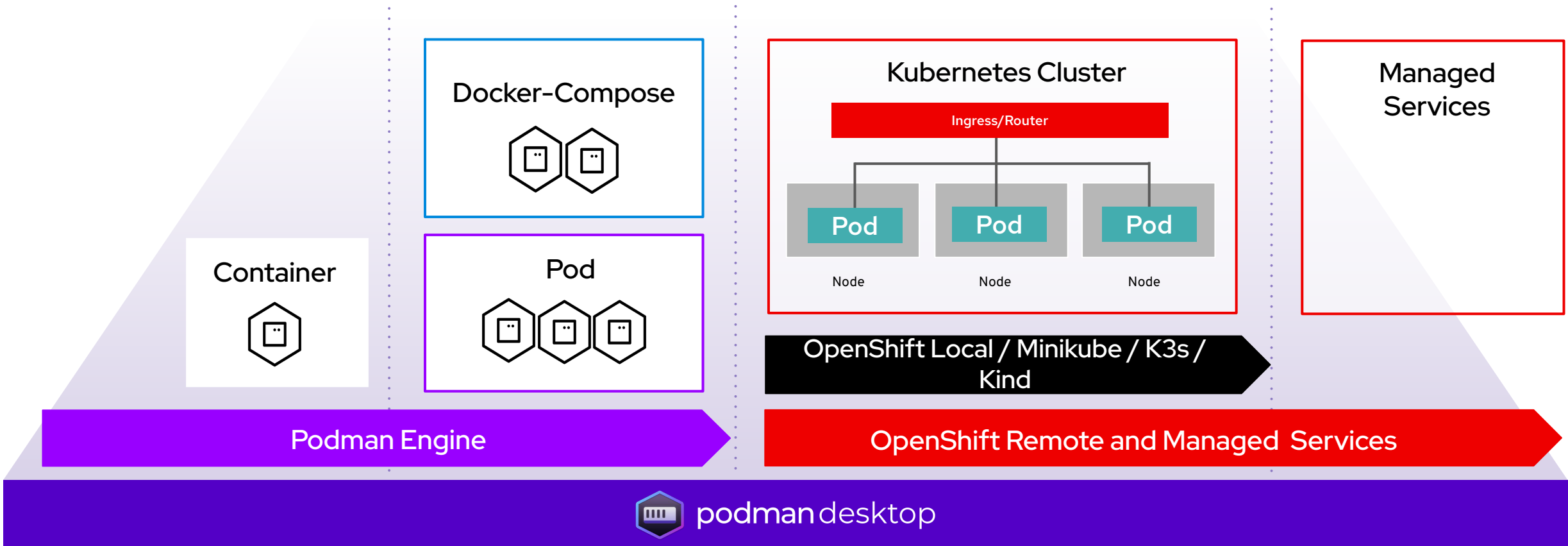


**Podman Desktop – dedicated for Containers and Kubernetes for application developers**

Windows, Mac, and Linux

# Podman Desktop covers the full spectrum

Offering a smooth transition from containers to pods and to Kubernetes



# Quadlet

Run containers under systemd in a familiar way

```
[Unit]
Description=nginx container

[Container]
Image=ubi9/nginx-120
PublishPort=80:80
User=999

[Service]
Restart=always

[Install]
WantedBy=local.target
```

## Quadlet definitions are easily portable

- Allows containers to be run under systemd in a declarative way
- Write once, deploy everywhere

## Supports rootful and rootless modes, watching for quadlet files in several places including:

- `/usr/share/containers/systemd/`  
`/etc/containers/systemd/`
- For rootless users: `$HOME/.config/containers/systemd/`  
Or `/etc/containers/systemd/users/$(UID)`
- For all non-root users: `/etc/containers/systemd/users/`

## Quadlet supports several unit types

- `.container`, `.network`, `.volume`, `.kube`

# 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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