

BOSTON, MA JUNE 23-26, 2015

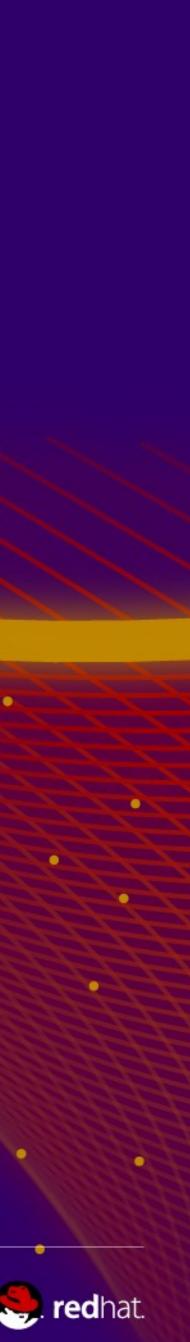
RED HAT CONTAINERS ROADMAP Portfolio Perspective

Ron Pacheco Director, Product Management

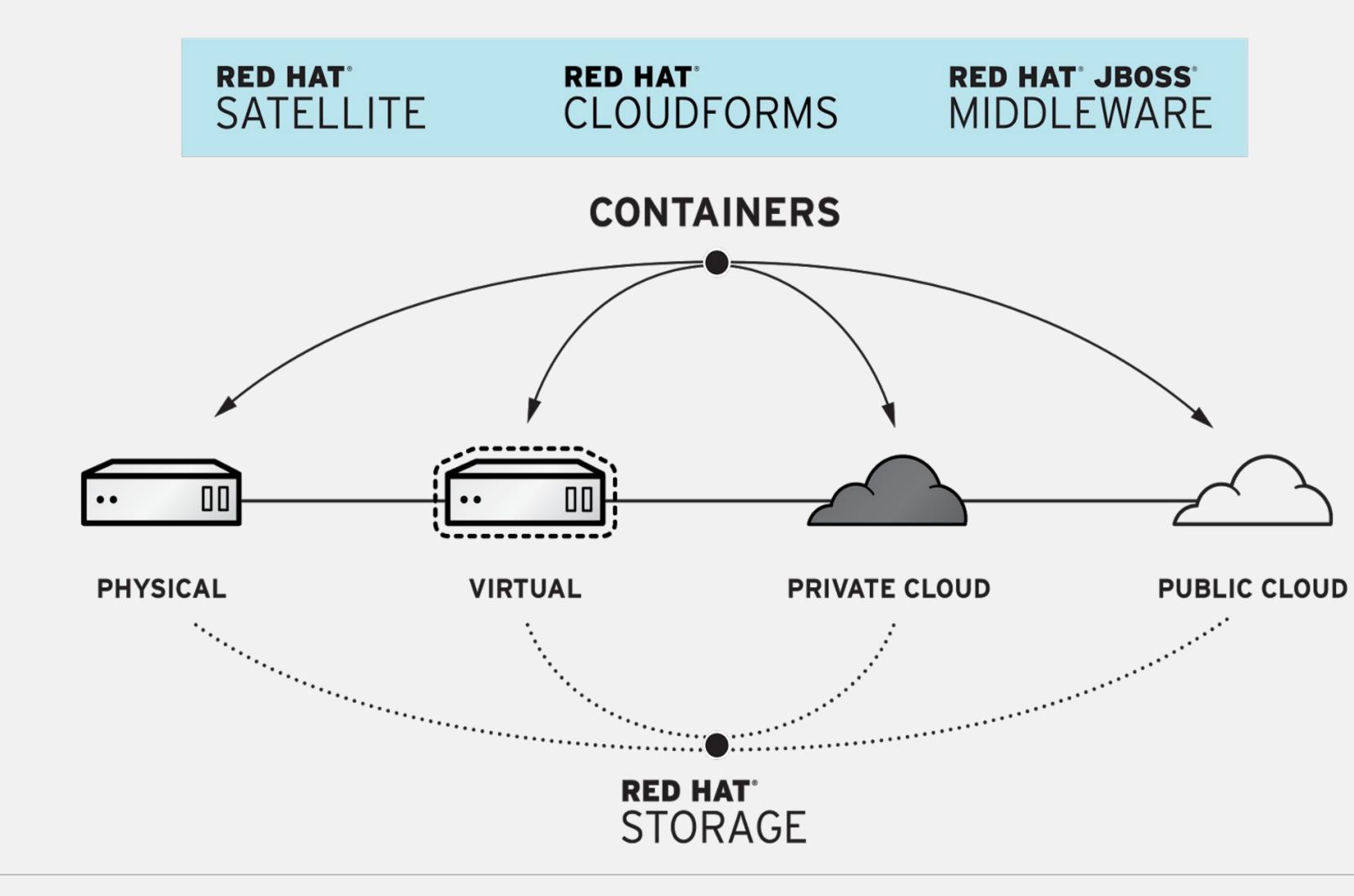
June 25, 2015

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RED HAT'S VISION: OPEN HYBRID CLOUD





PANEL OF EXPERTS

- Subhendu Ghosh, Product Technologist, Red Hat Enterprise Linux
- Mike McGrath, Principal Architect, Containers Engineering
- Ken Johnson, Product Management, JBoss Middleware
- Nick Barcet, Product Management, OpenStack
- Xavier Lecauchois, Product Management, Management Software
- Ron Pacheco, Product & Technology Strategy, Platforms Business



CREATING DEFACTO STANDARDS

Red Hat works with the open source community to drive standards for containerization.

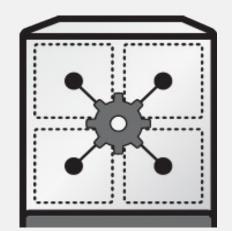


ISOLATION WITH LINUX CONTAINERS

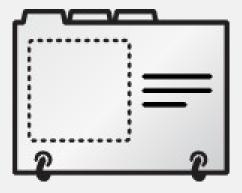


CONTAINER FORMAT WITH DOCKER

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ORCHESTRATION WITH KUBERNETES



CONTAINER DISCOVERY VIA REGISTRY



ECOSYSTEM ENABLEMENT

RED HAT CONNECT for technology partners

RED HAT CONTAINER DEVELOPMENT KIT (CDK)





LEARN

BUILD

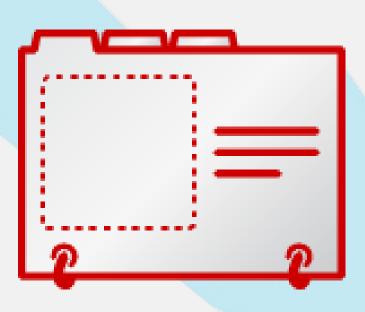
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Simplifying Container Adoption

RED HAT CONTAINER CERTIFICATION

CONTAINER REGISTRY





CERTIFY

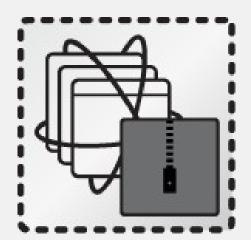
DISTRIBUTE



CREATING THE RUNTIME



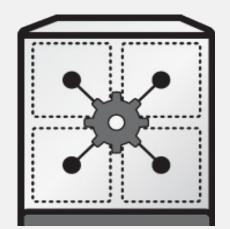
ISOLATION WITH LINUX CONTAINERS



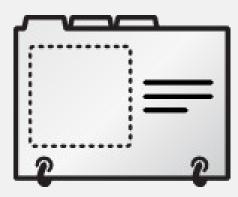
CONTAINER FORMAT WITH DOCKER



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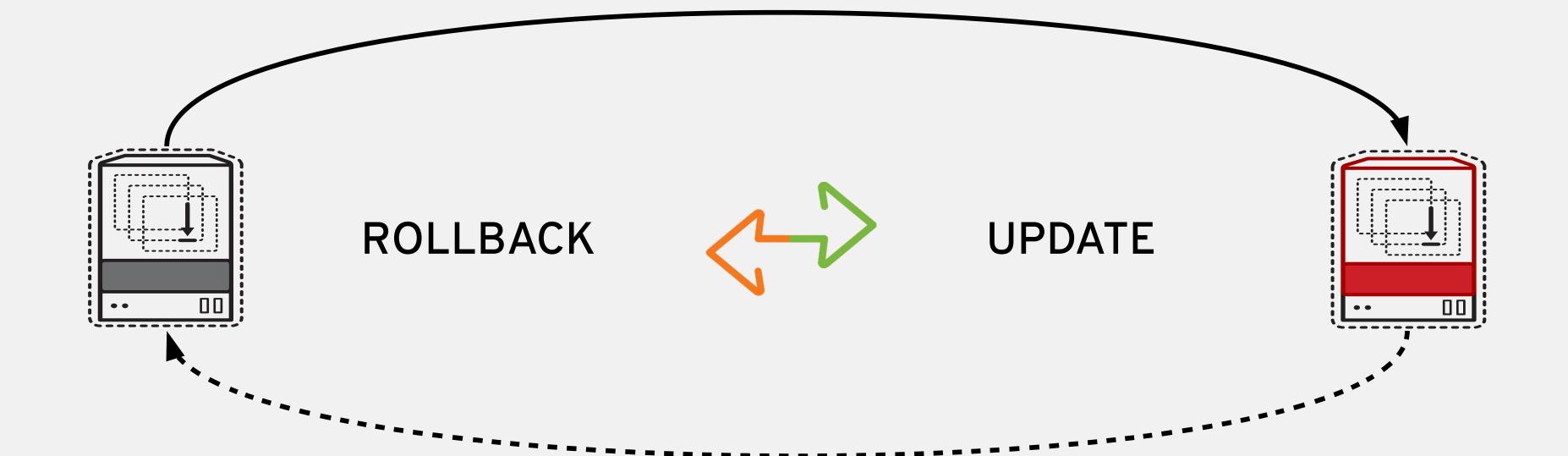
ORCHESTRATION WITH KUBERNETES



CONTAINER DISCOVERY **VIA REGISTRY**



DRIVING OPERATIONAL EFFICIENCY





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RED HAT® ENTERPRISE LINUX® ATOMIC HOST



ENABLING OPERATIONS



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Run and Orchestrate multi-container based applications at scale

CONTAINER ORCHESTRATION AND MANAGEMENT

CONTAINER API

RHEL ATOMIC HOST

INFRASTRUCTURE

RED HAT[®] ATOMIC ENTERPRISE PLATFORM



ENABLING OPERATIONS



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Run and Orchestrate multi-container based applications at scale

RED HAT® STORAGE

CONTAINER ORCHESTRATION AND MANAGEMENT

CONTAINER API

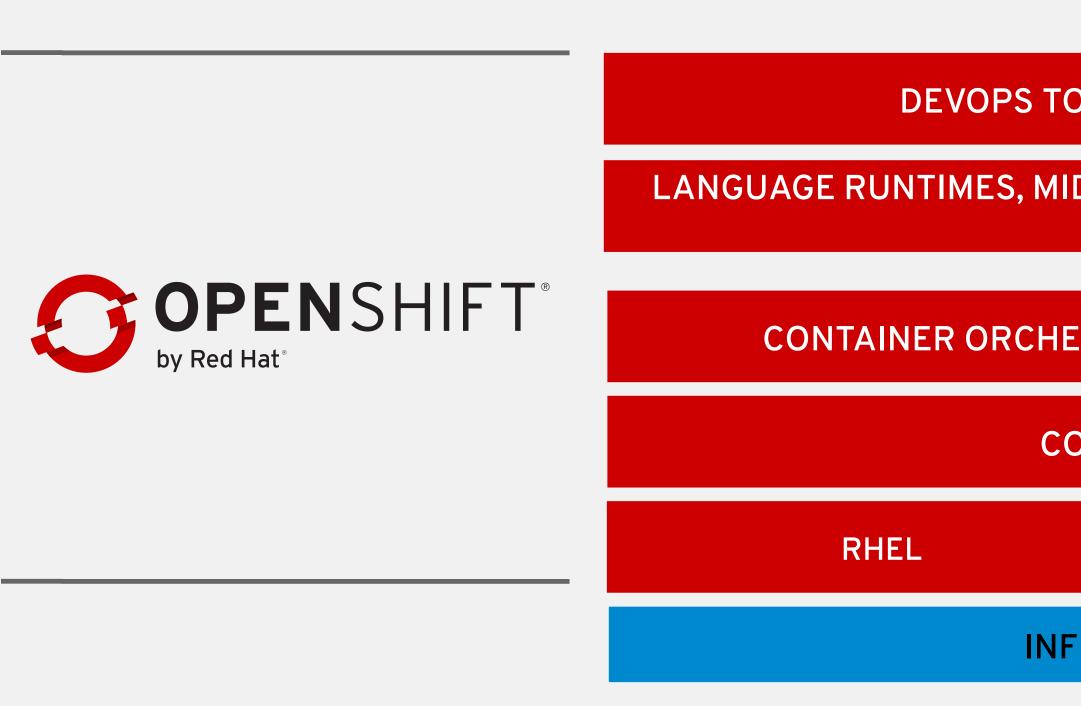
RHEL ATOMIC HOST

INFRASTRUCTURE

RED HAT[®] ATOMIC ENTERPRISE PLATFORM



ENABLING DEVELOPMENT AND OPERATIONS



Develop and Run and Orchestrate multi-container based applications at scale

DEVOPS TOOL AND EXPERIENCE

LANGUAGE RUNTIMES, MIDDLEWARE, DATABASES, AND OTHER **SERVICES**

CONTAINER ORCHESTRATION AND MANAGEMENT

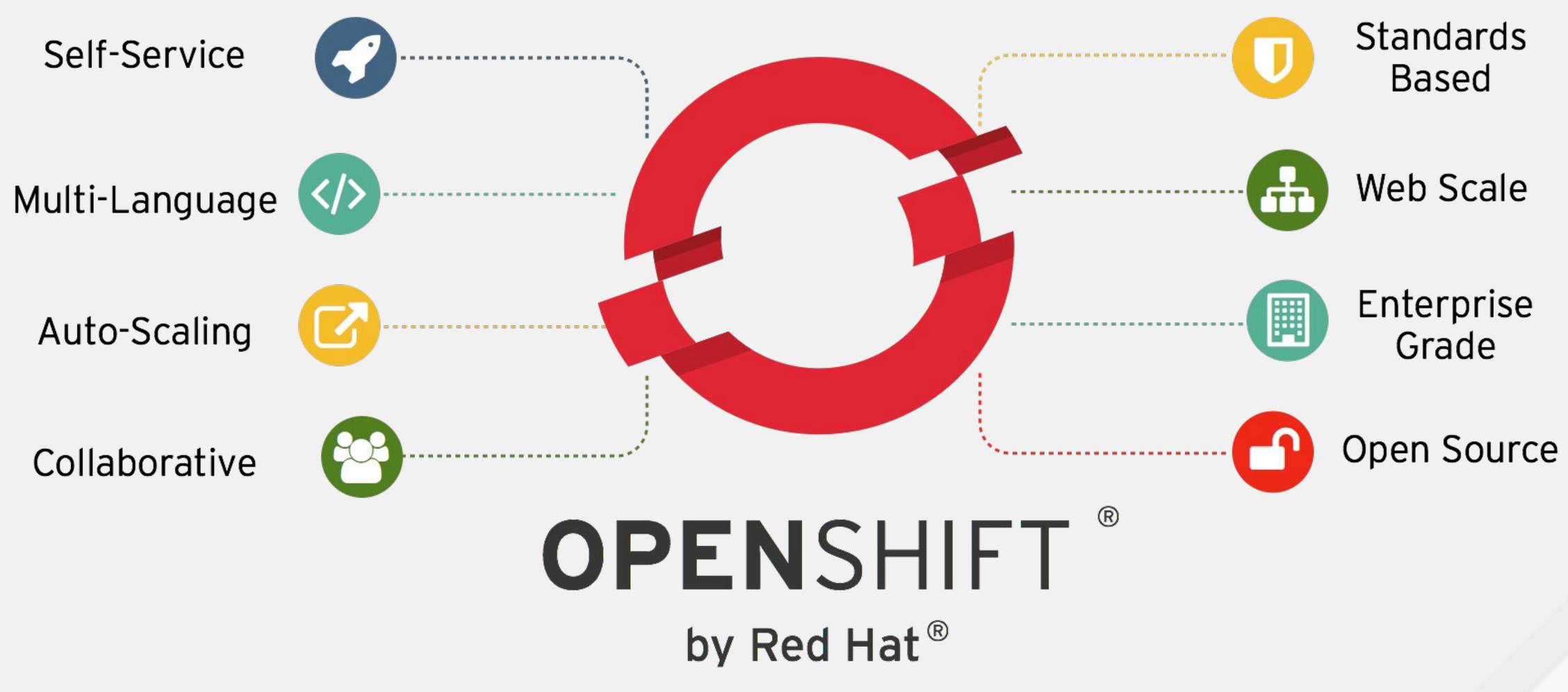
CONTAINER API

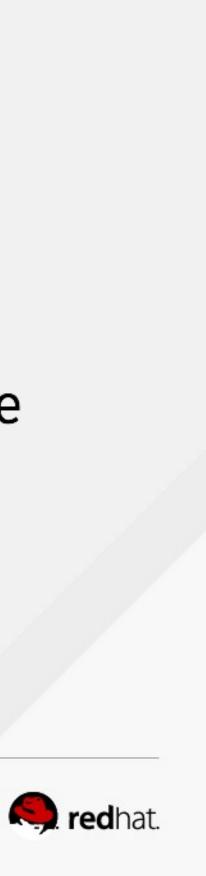
RHEL ATOMIC HOST

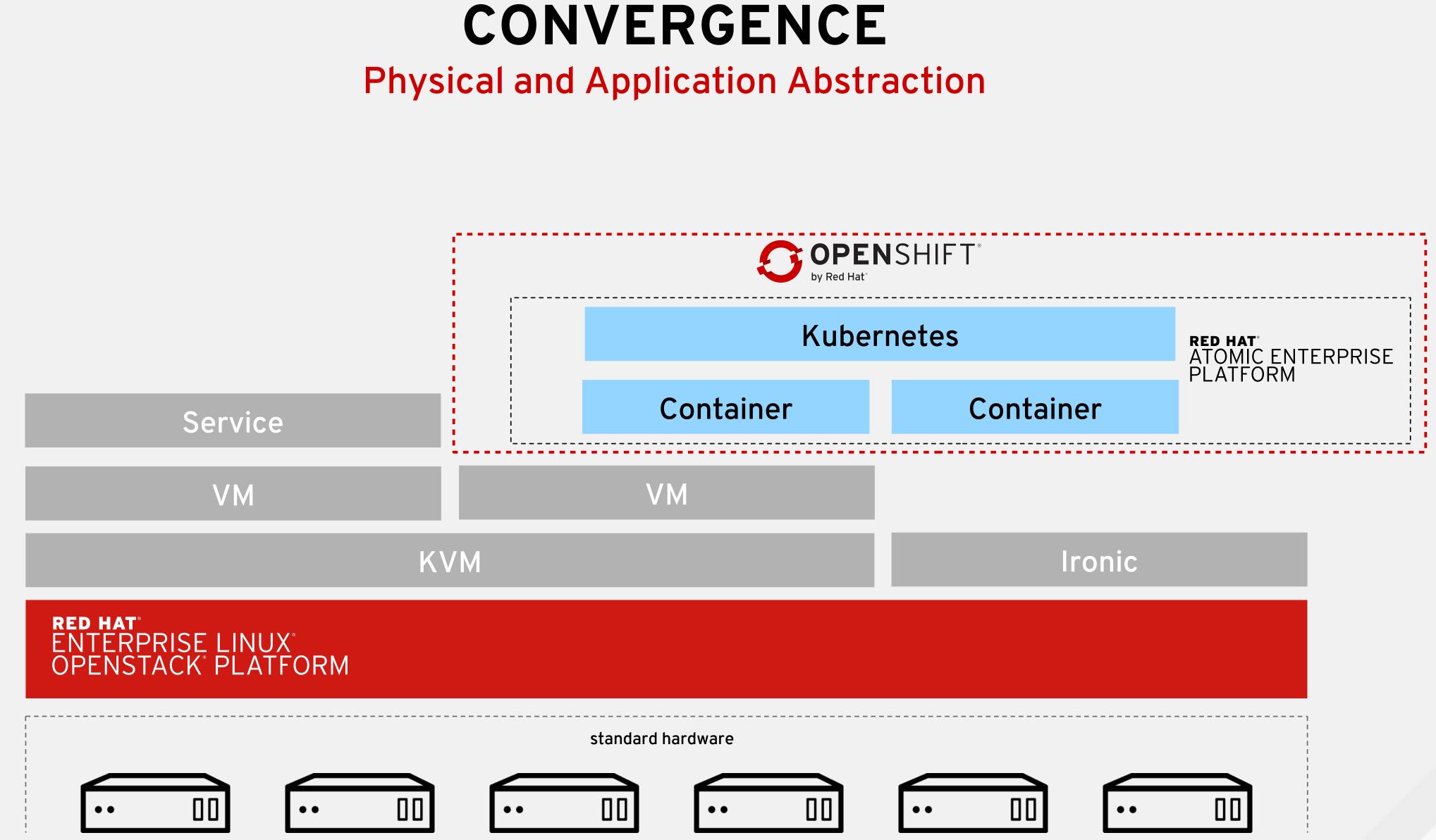
INFRASTRUCTURE



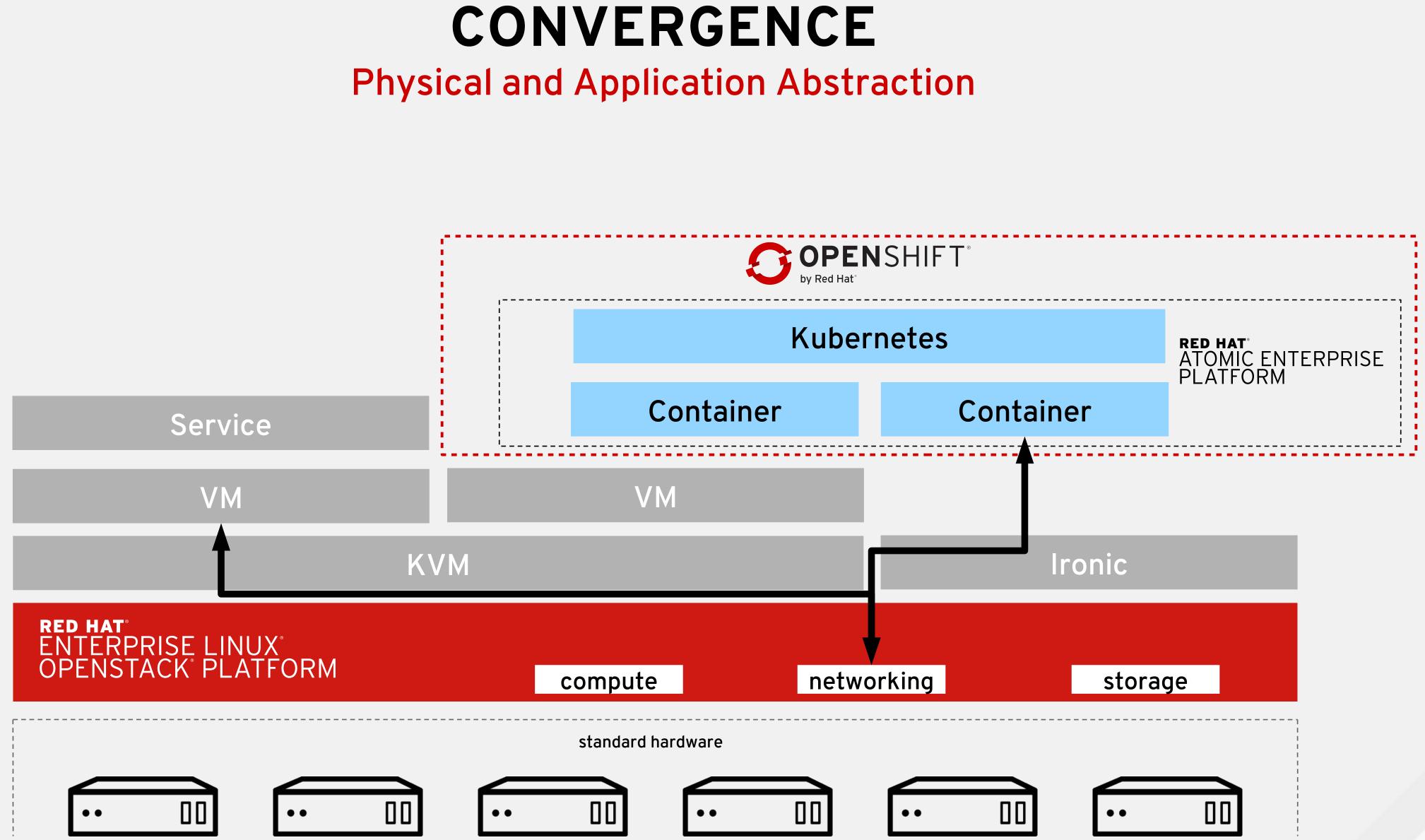
ENABLING DEVELOPMENT AND OPERATIONS



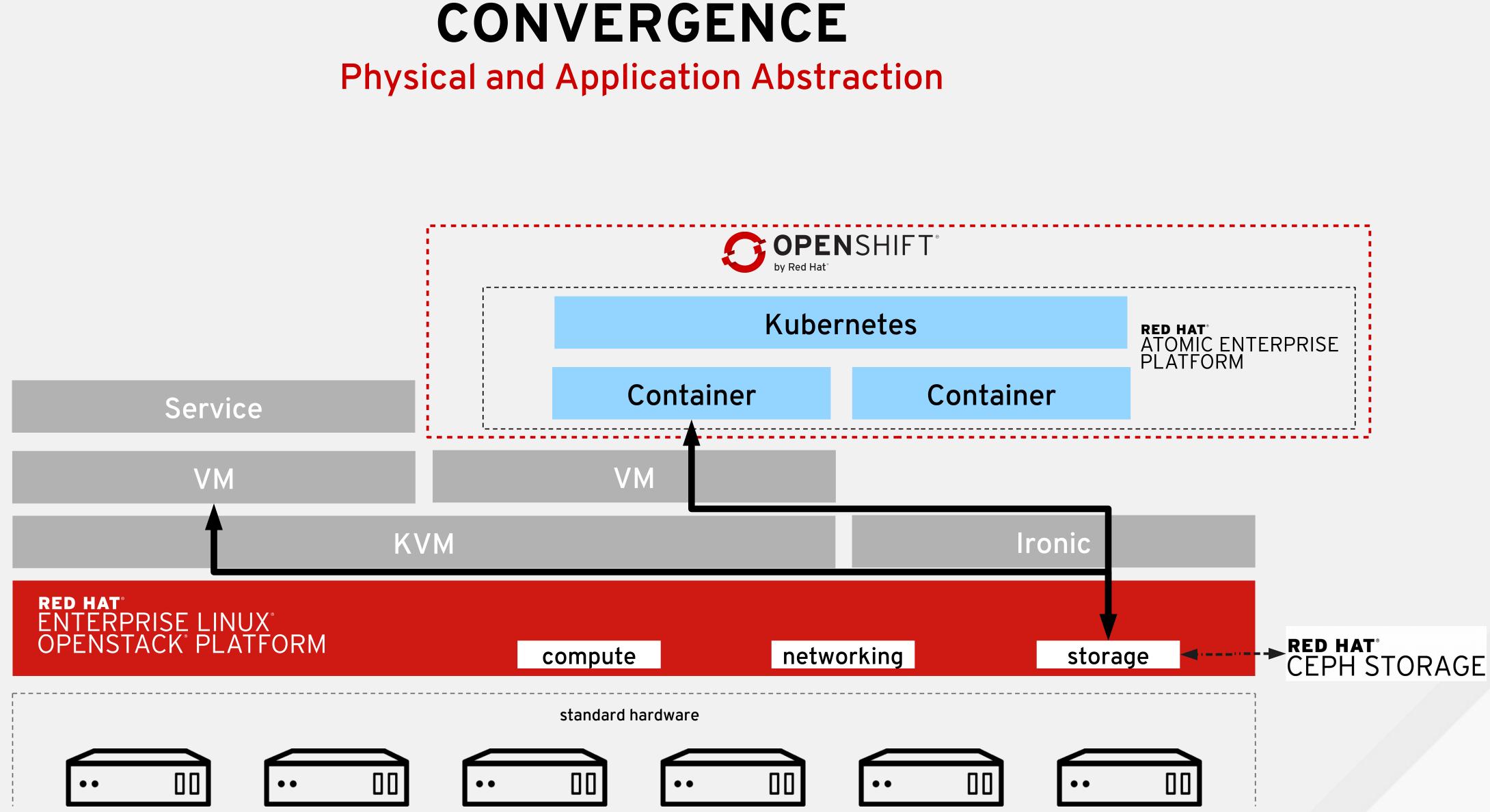








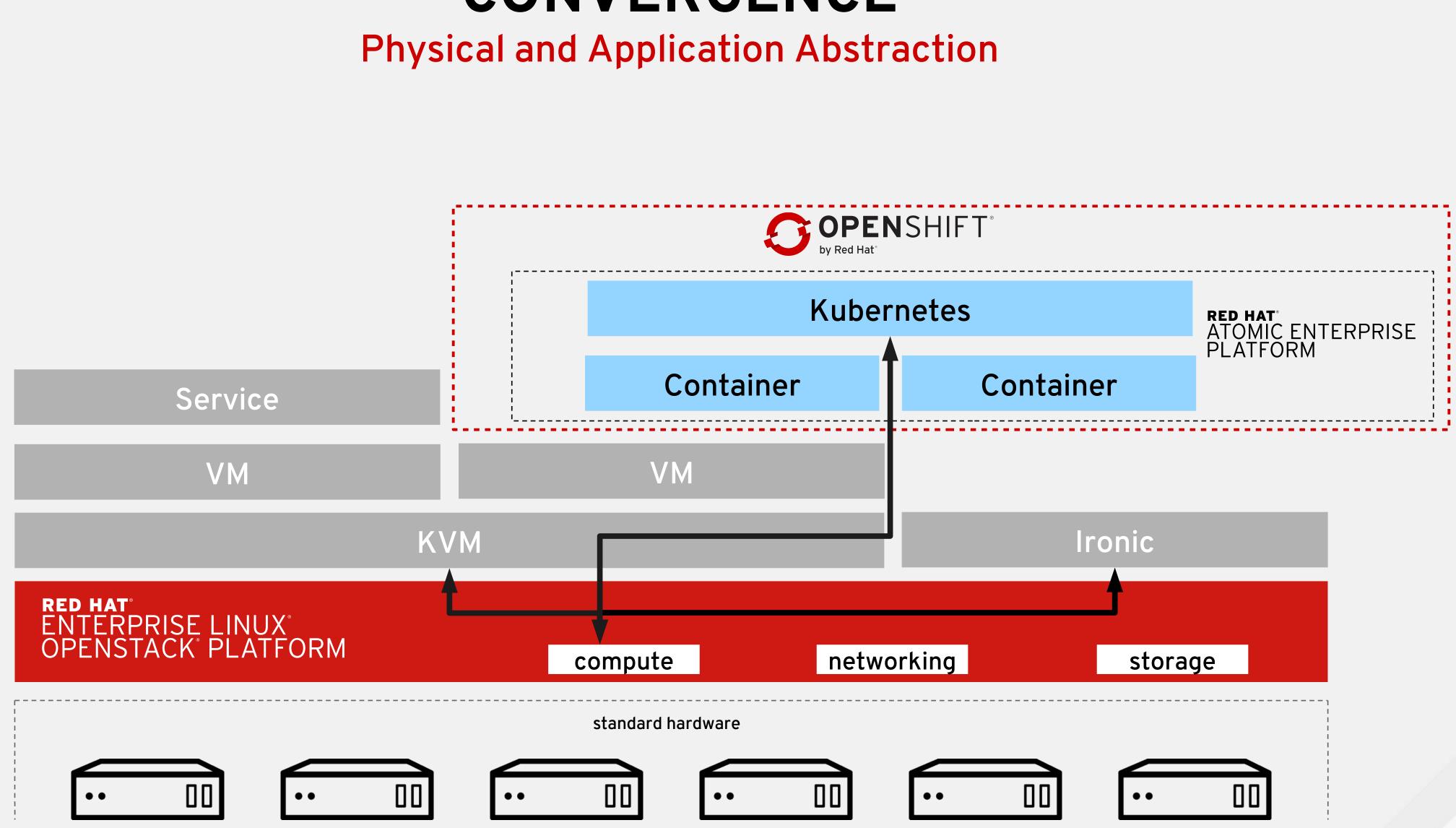






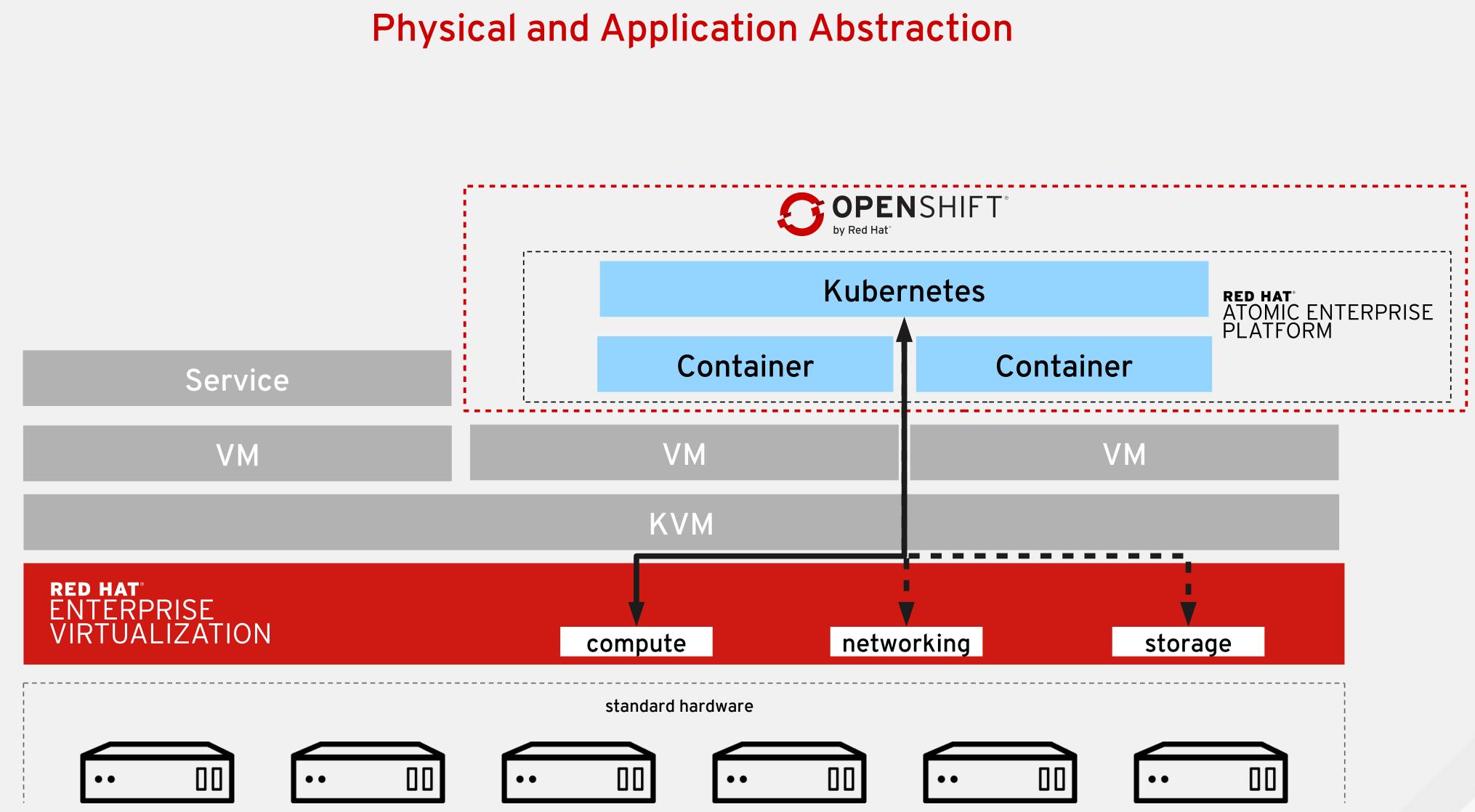


CONVERGENCE



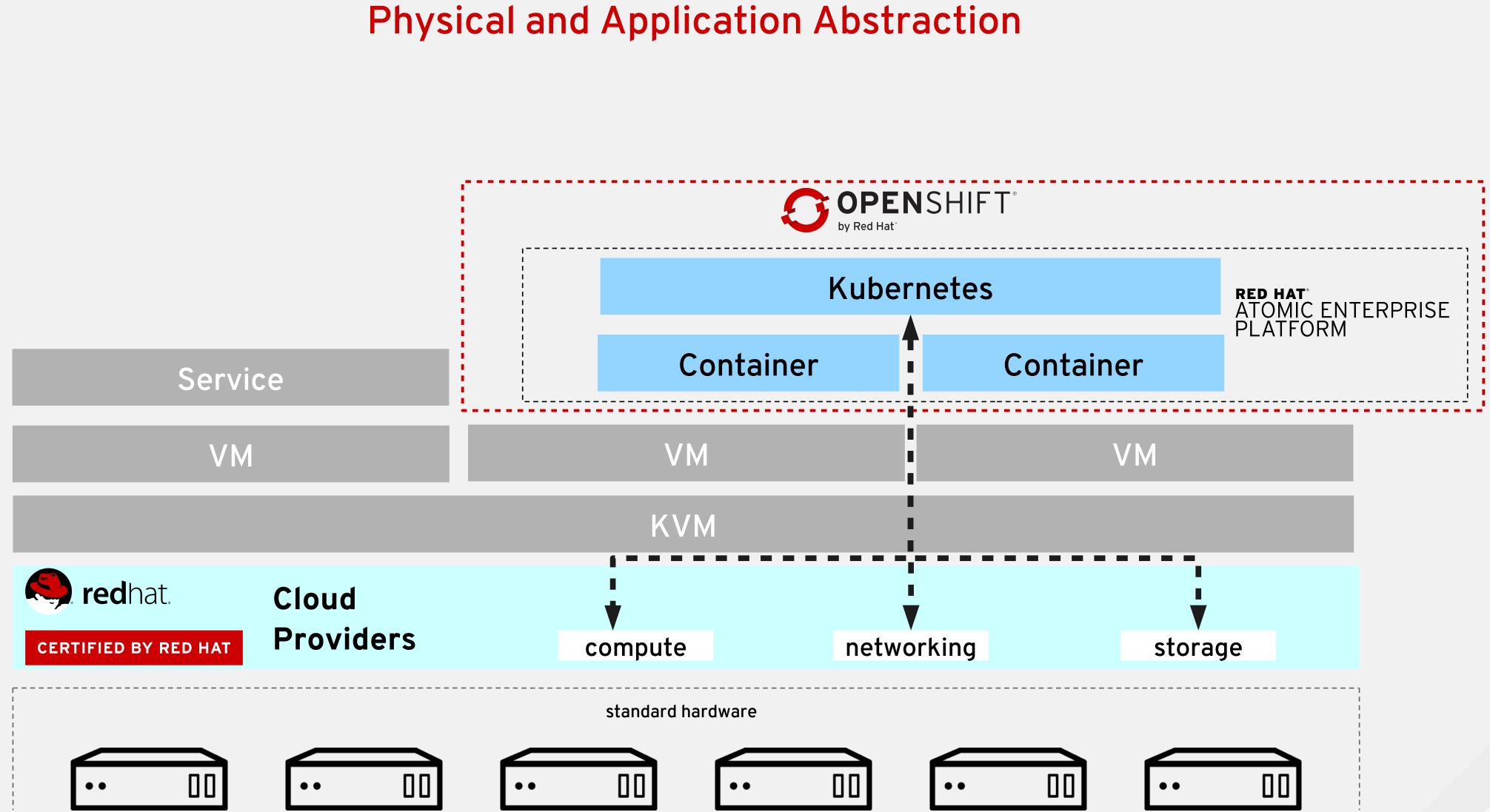


CONVERGENCE Physical and Application Abstra





CONVERGENCE Physical and Application Abstra



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JBoss xPaaS SERVICES FOR OPENSHIFT Where Middleware meets cloud...

RED HAT BOSS MIDDLEWARE

AUTOMATE Business rules & processes

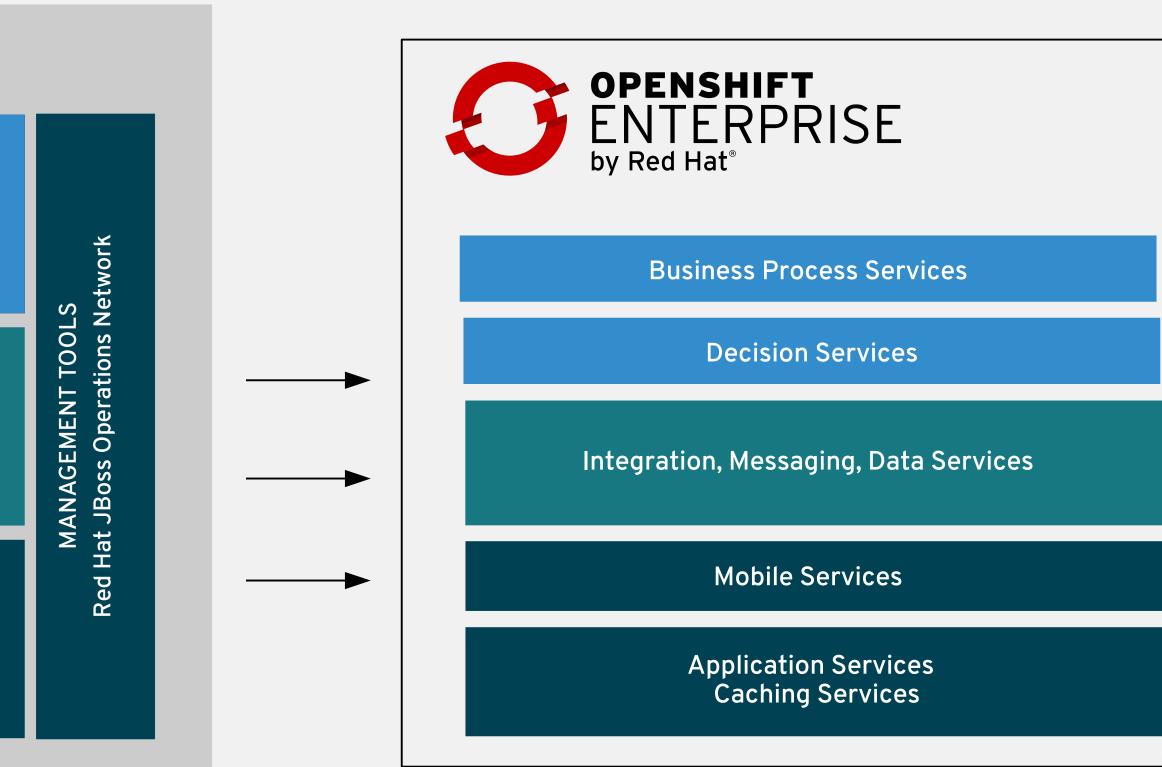
Red Hat JBoss BPM Suite Red Hat JBoss BRMS

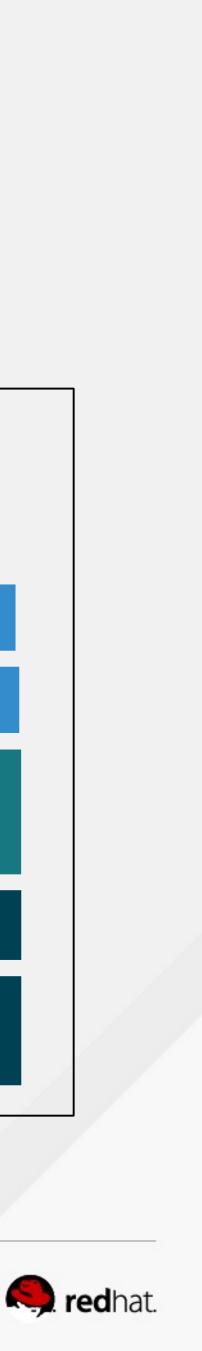
DEVELOPMENT TOOLS Red Hat JBoss Developer Studio

INTEGRATE Applications, Data & Devices

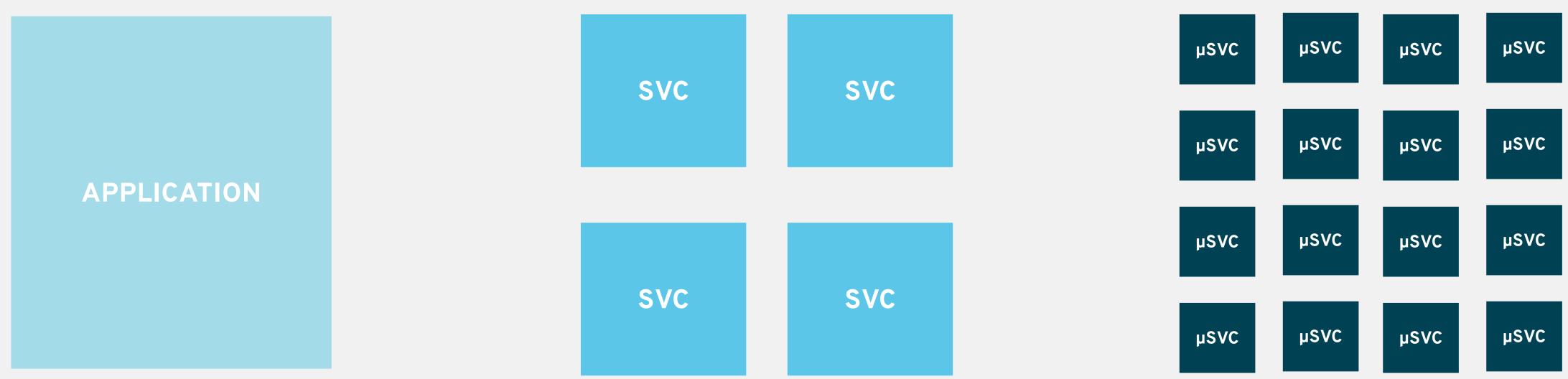
Red Hat JBoss Fuse Red Hat JBoss A-MQ Red Hat JBoss Data Virtualization

ACCELERATE Application development & performance Red Hat JBoss Enterprise Application Platform Red Hat JBoss Data Grid Red Hat Mobile Application Platform





ARCHITECTURE EVOLUTION



MONOLITHIC

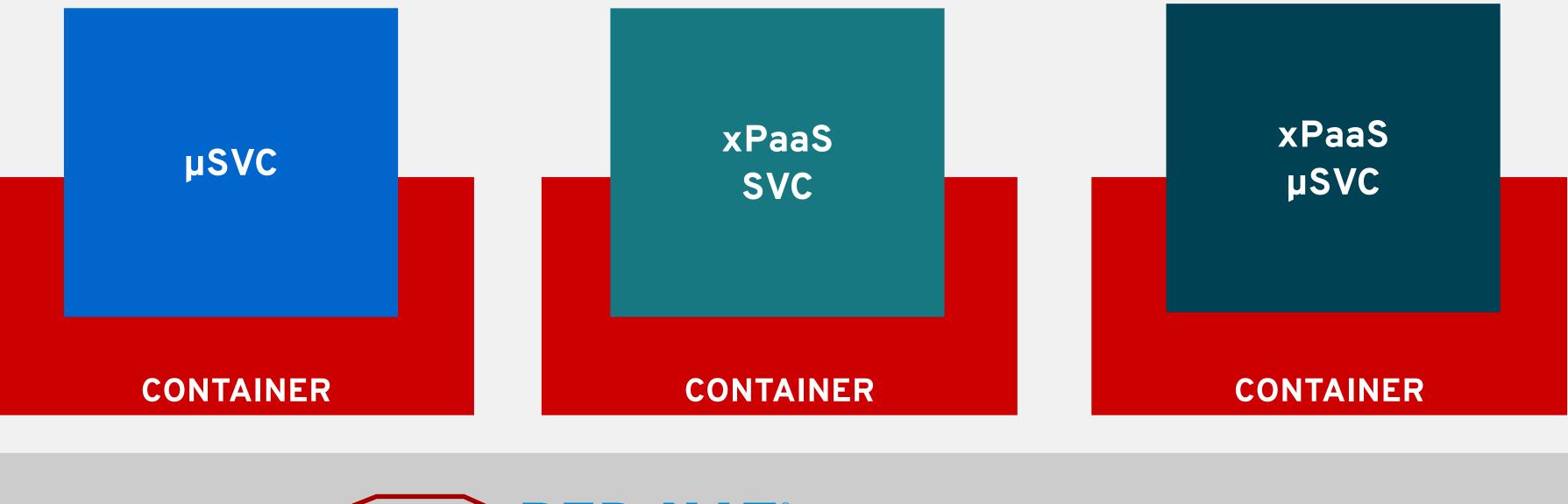
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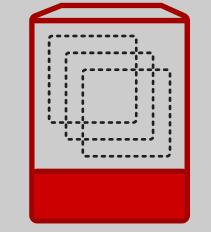
SOA

MICROSERVICES



MICROSERVICES + CONTAINERS

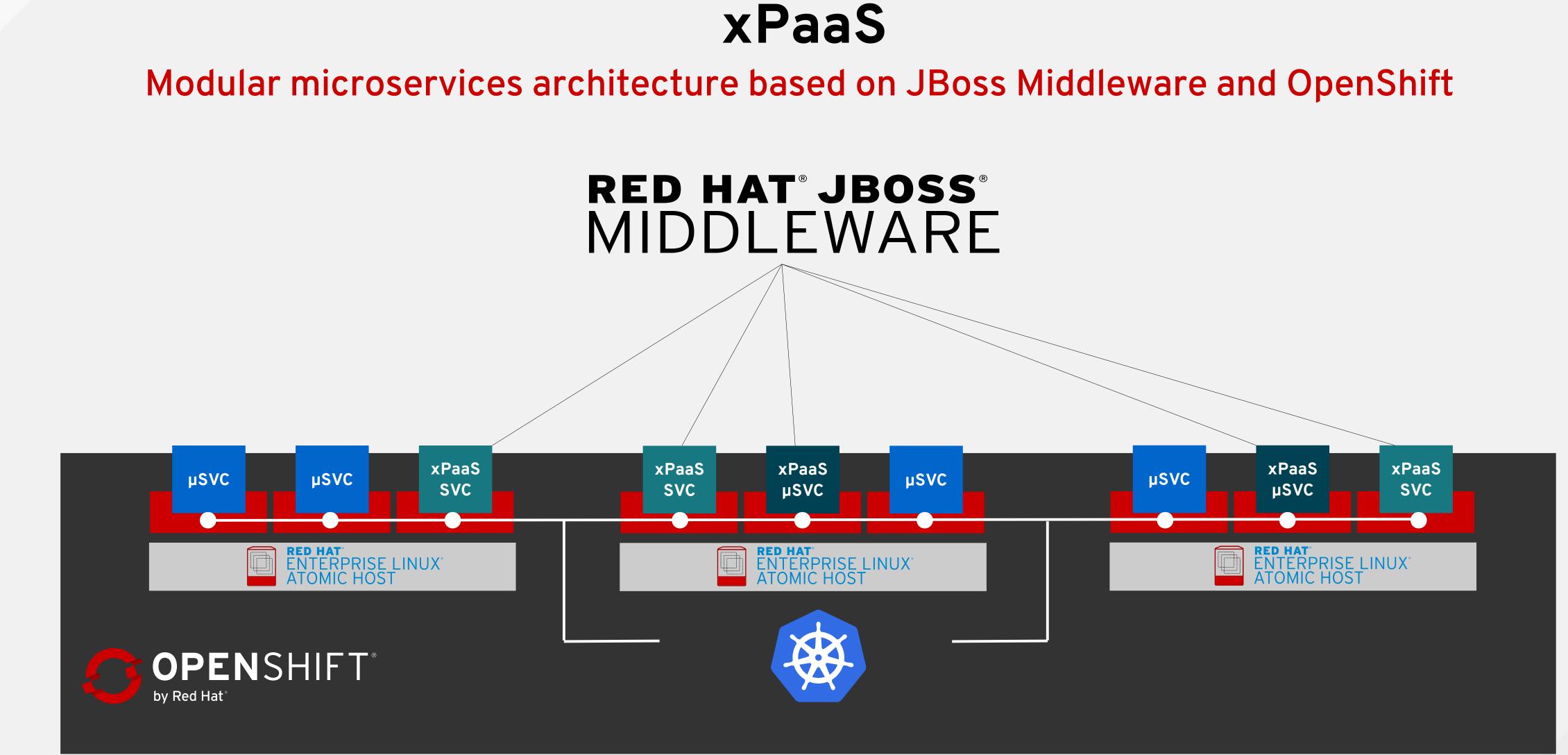




RED HAT® ENTERPRISE LINUX® ATOMIC HOST

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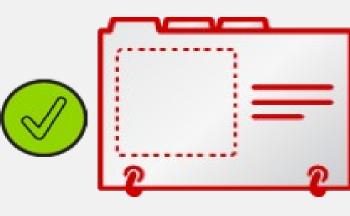




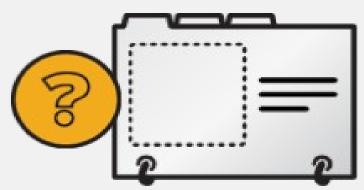


RED HAT SATELLITE

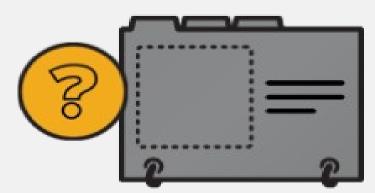
Container Registries



Red Hat Registry

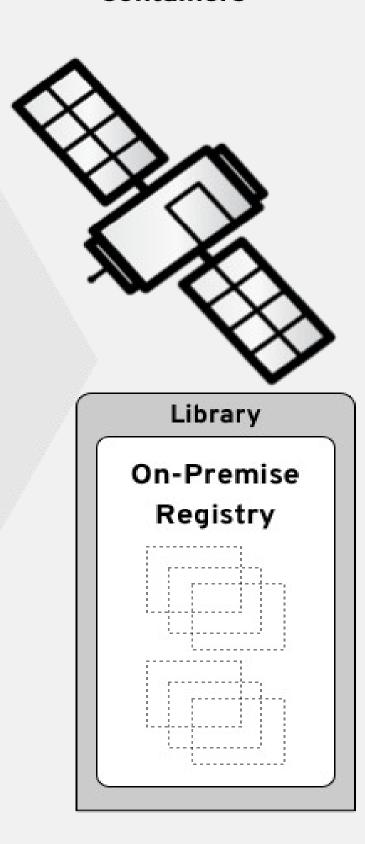


Docker Hub Registry



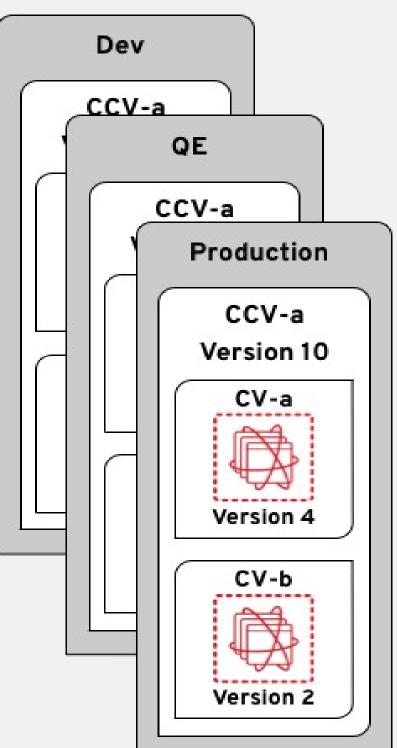
Private On-Prem Registry

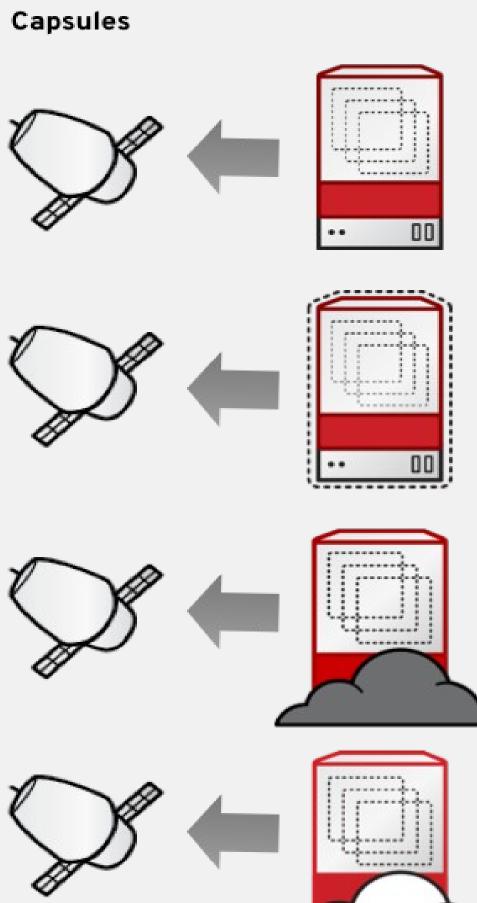
Satellite 6 serves as an on-premice registry for Linux Containers



Containers managed throughlifecycle environments versioned with Content Views Environments are mirrored to Capsules

Docker Pull to host

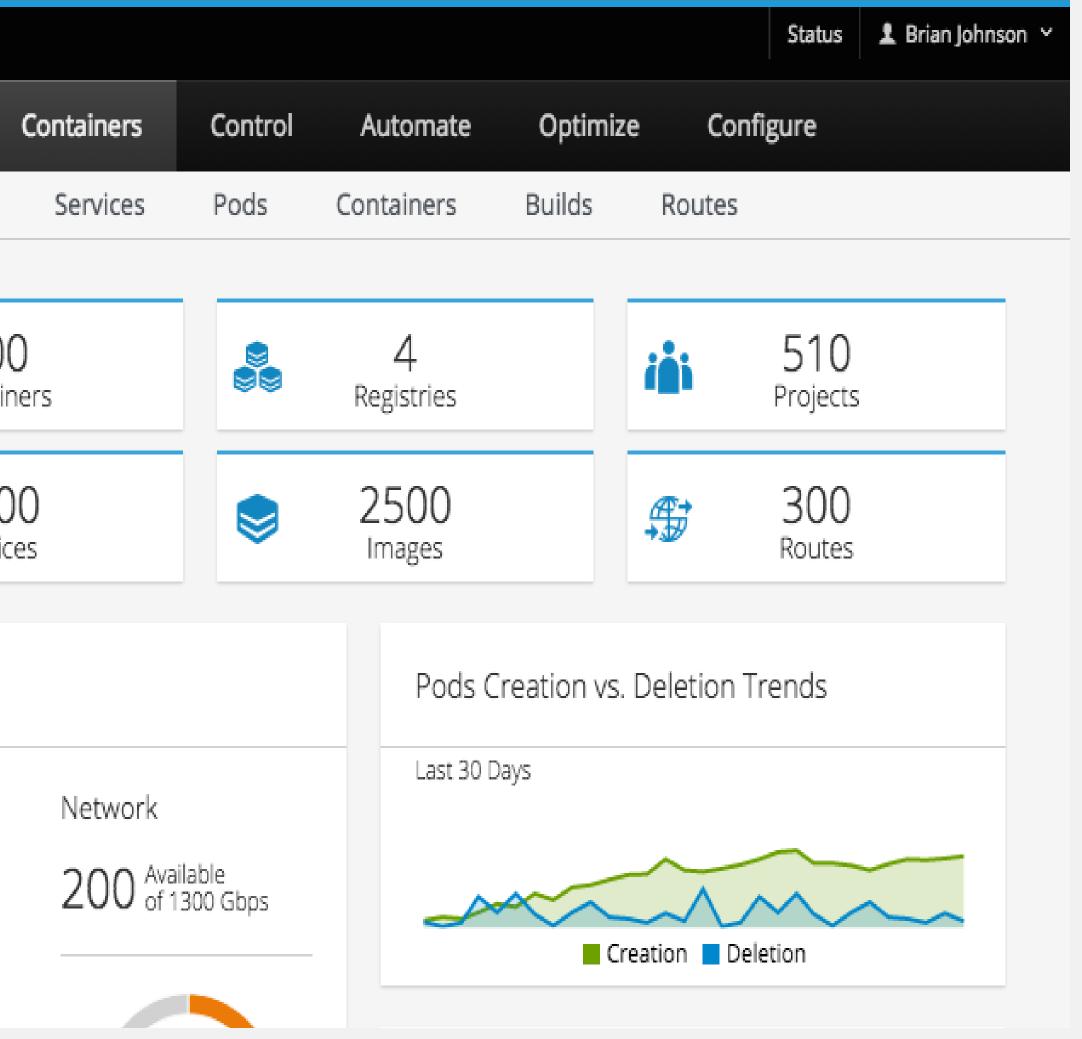






CONTAINER MANAGEMENT

Cloud Forms Management Engine						
Cloud Intelligence	Analytics	Services	s Cloud	ls Infra	structure	
Dashboard Top	ology Pro	oviders	Clusters	Nodes	Projects	
3 Providers		52 Nodes			Contain	
S 1 🙆2		a 120 Pods	0 🙁 35	;	> 250 Service	
Utilization						
CPU	Me	Memory		Storage		
50 Available of 1000 MHz		256 Available of 432 GB		0.5 Avail	0.5 Available of 1.6 TB	





CONTAINER-BASED APPLICATION DELIVERY SOLUTIONS

A continuum of solutions to develop, run, and manage container-based applications

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PENSHIFT NTERPRISE Red Hat®

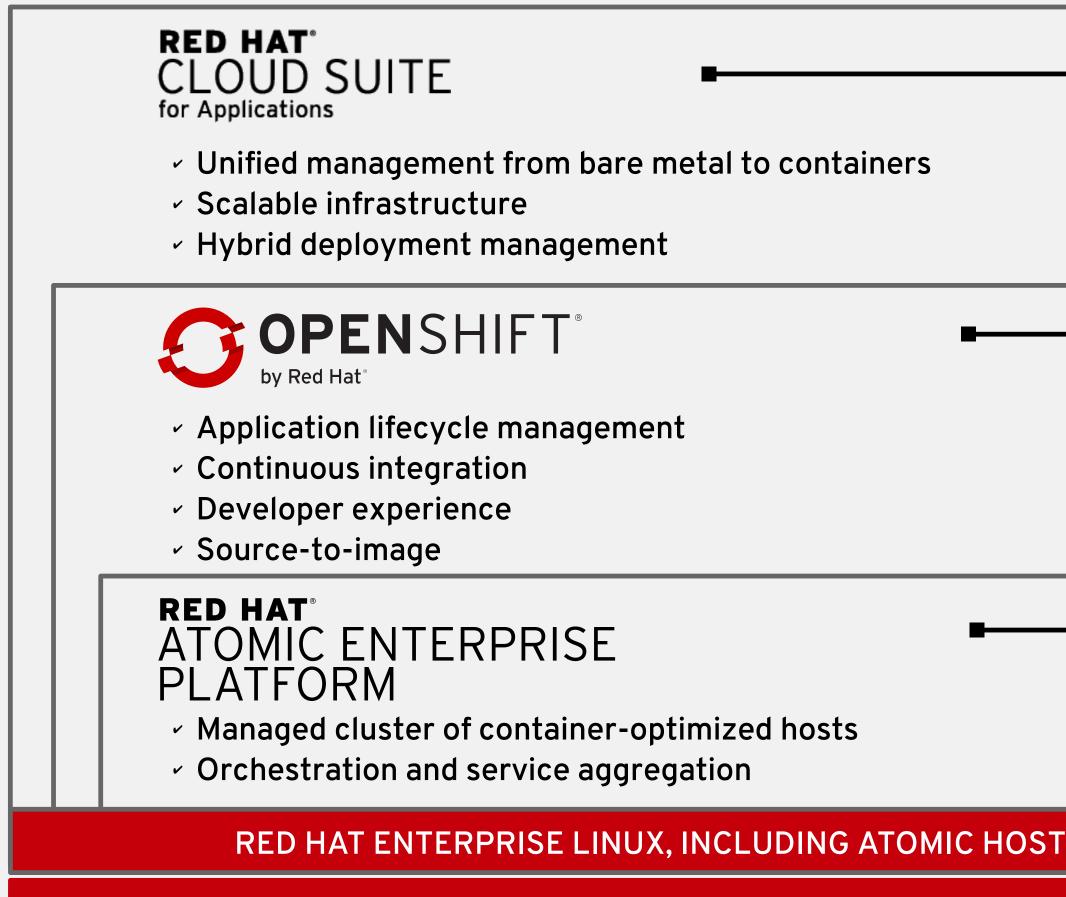
RED HAT[®] CLOUD SUITE for Applications



CONTAINER-BASED APPLICATION DELIVERY SOLUTIONS

A continuum of solutions to develop, run, and manage container-based applications

MIDDLEWARE AND MOBILITY SERVICES

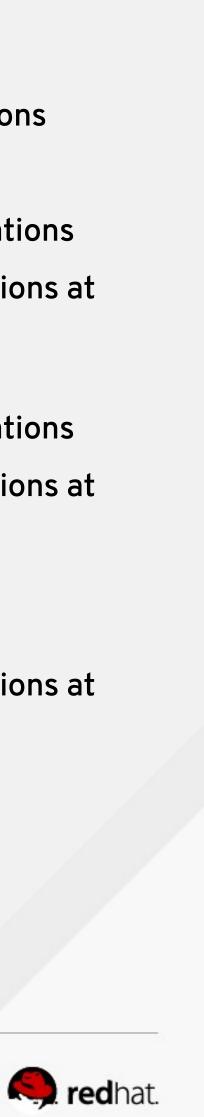


CERTIFIED HARDWARE ECOSYSTEM

Seamlessly manage from infrastructure to applications Build scalable infrastructure based on OpenStack Develop, build, and manage container-based applications Run and orchestrate multi-container based applications at scale

Develop, build, and manage container-based applications Run and orchestrate multi-container based applications at scale

Run and orchestrate multi-container based applications at scale

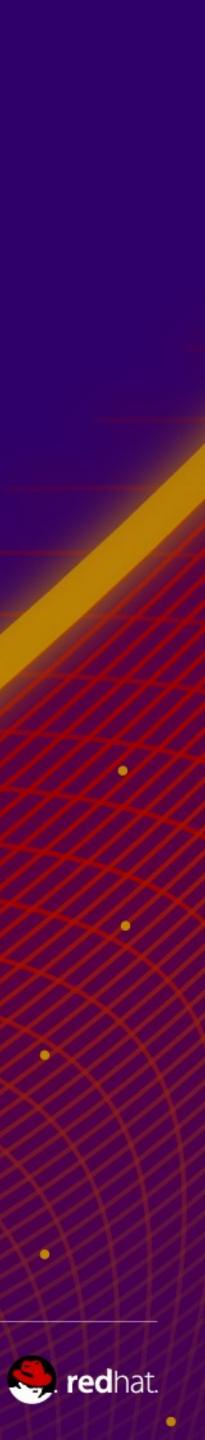




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