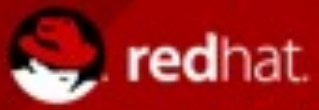

RED HAT OPEN HYBRID CLOUD

Accelerate. Innovate. Empower. Powering digital transformation

Matti Nieminen
Cloud Solution Sales Specialist
Nordics

WHAT IS HYBRID?

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PREDICTING THE FUTURE
THE RED HAT WAY

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THE INNOVATION ENGINE FOR SOFTWARE IS LINUX

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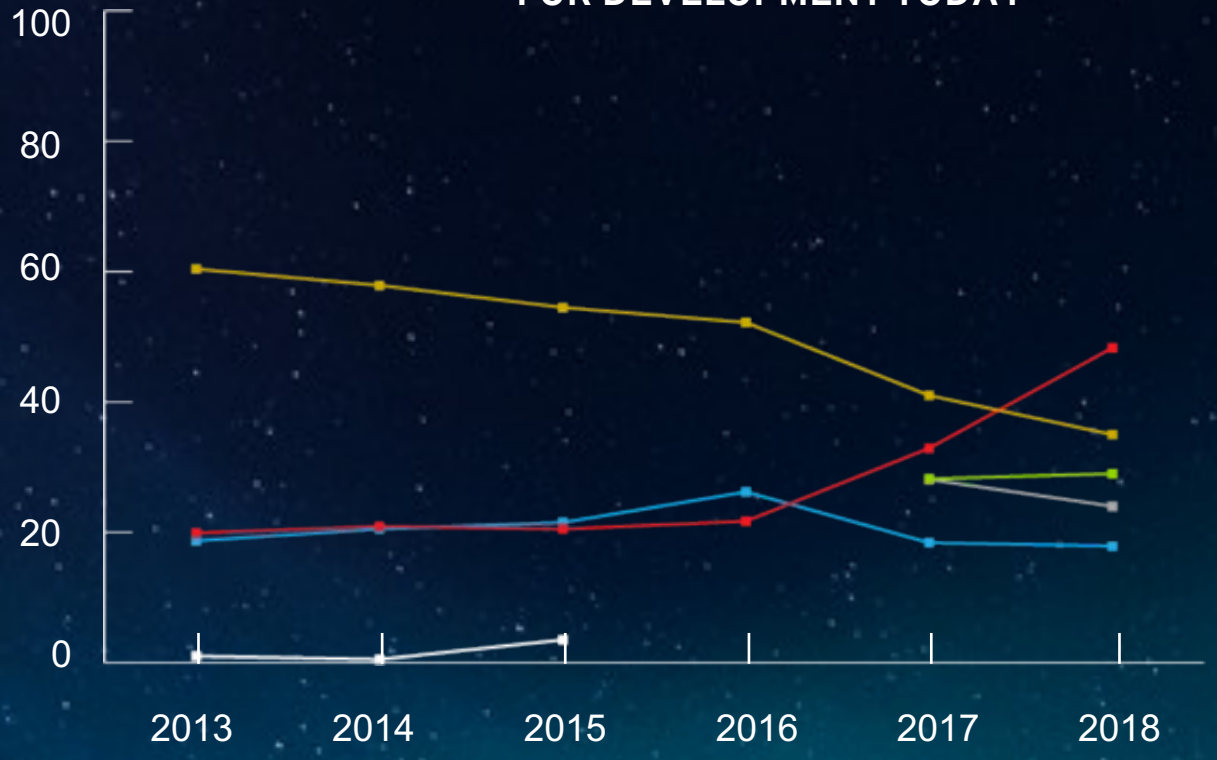
LINUX IS THE MOST-USED PLATFORM

FOR DEVELOPMENT TODAY



*NOTE: Before 2017, "Windows" is an aggregate category that includes Windows 10, 8, 7, XP, & Vista responses. 2017 & 2018 surveys only offered the single option: Windows Desktop or Server.

Source: Most popular technology platforms, Stack Overflow, *Developer Survey Results 2018* & *Developer Survey Results 2017*.
Most popular desktop OS, Stack Overflow, *Developer Survey Results 2013-2016*.

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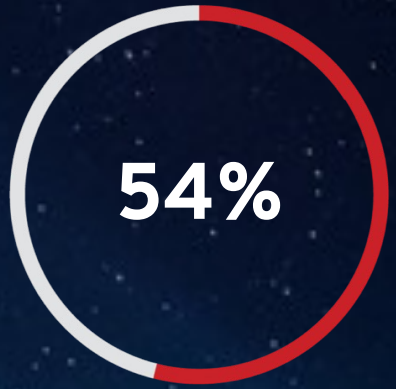
LINUX IS THE MOST-USED PLATFORM

FOR VMs IN THE PUBLIC CLOUD



of all applications running in public cloud infrastructure are running on Linux VMs.

Source: Management Insight Technologies for Red Hat, *State of Linux in the Public Cloud for Enterprises*, ***Feb 2018***

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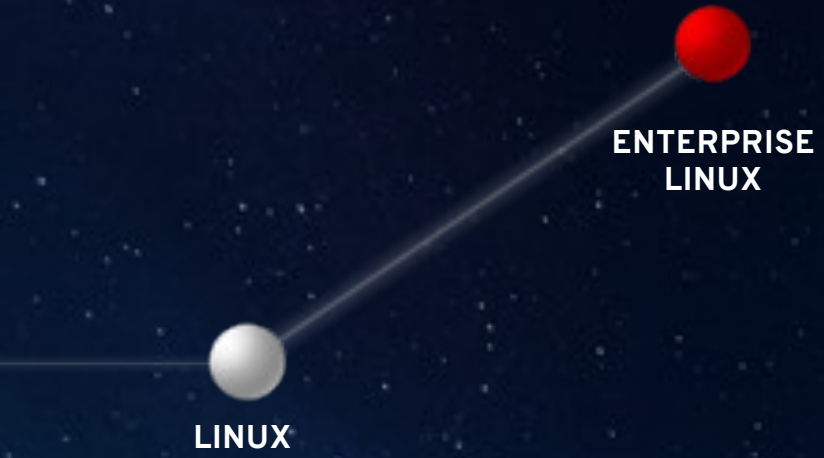
ALL THIS IS POSSIBLE BECAUSE OF LINUX

LINUX GAINED ADVANTAGE BECAUSE IT IS OPEN SOURCE

LINUX

redhat.



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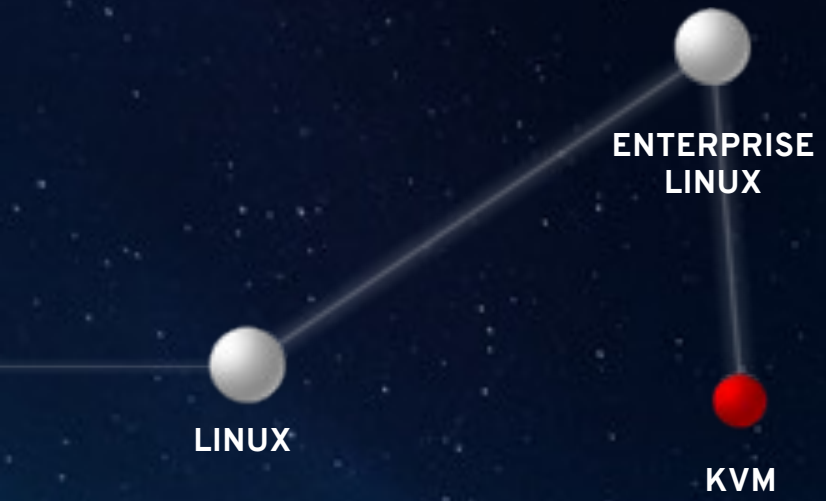

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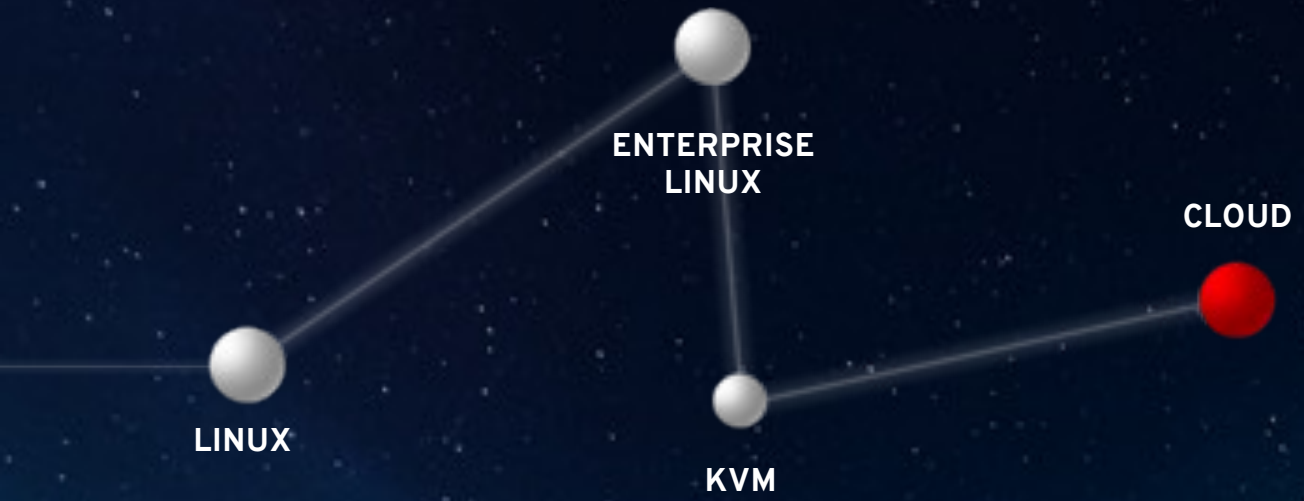

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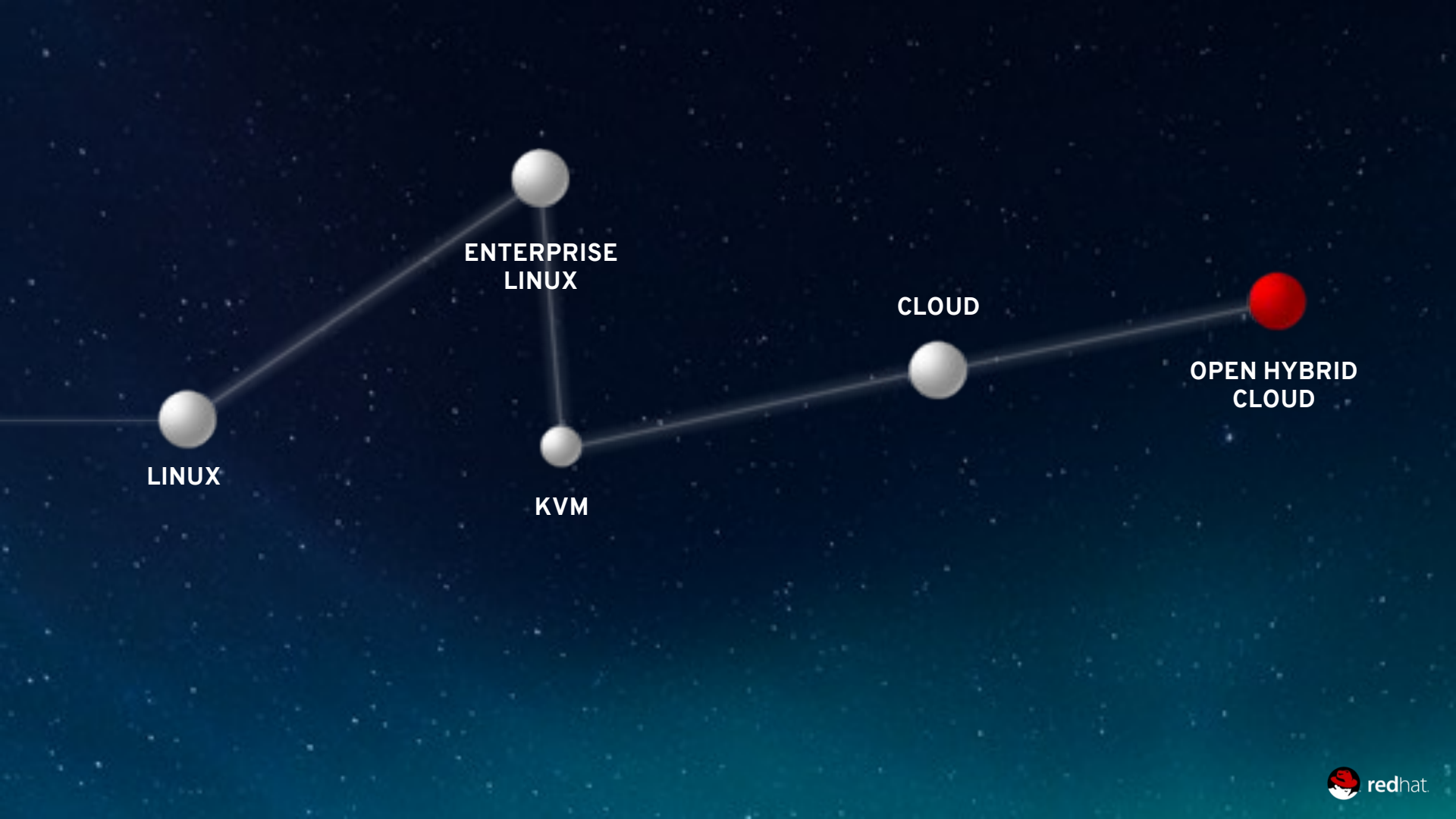
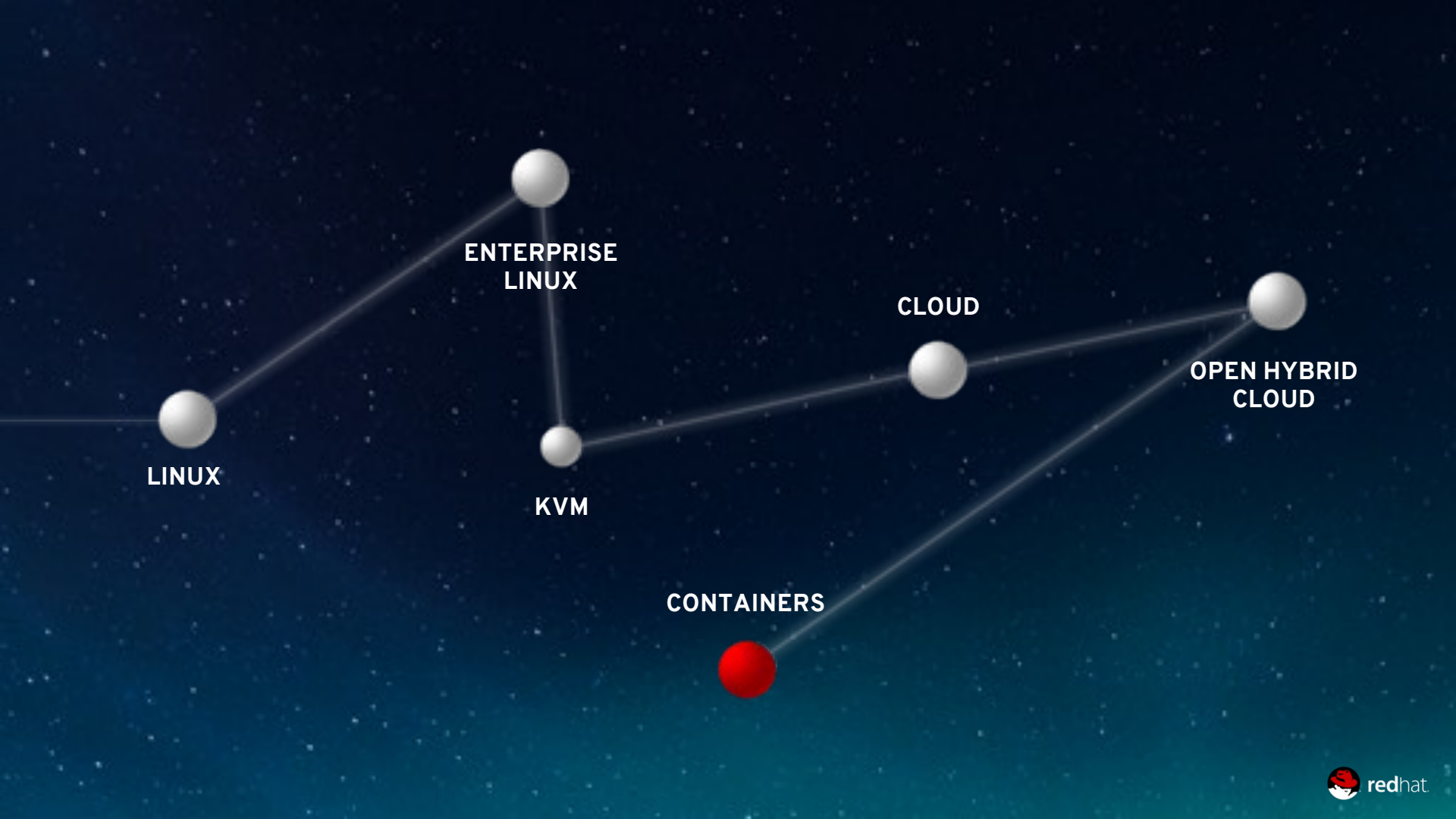
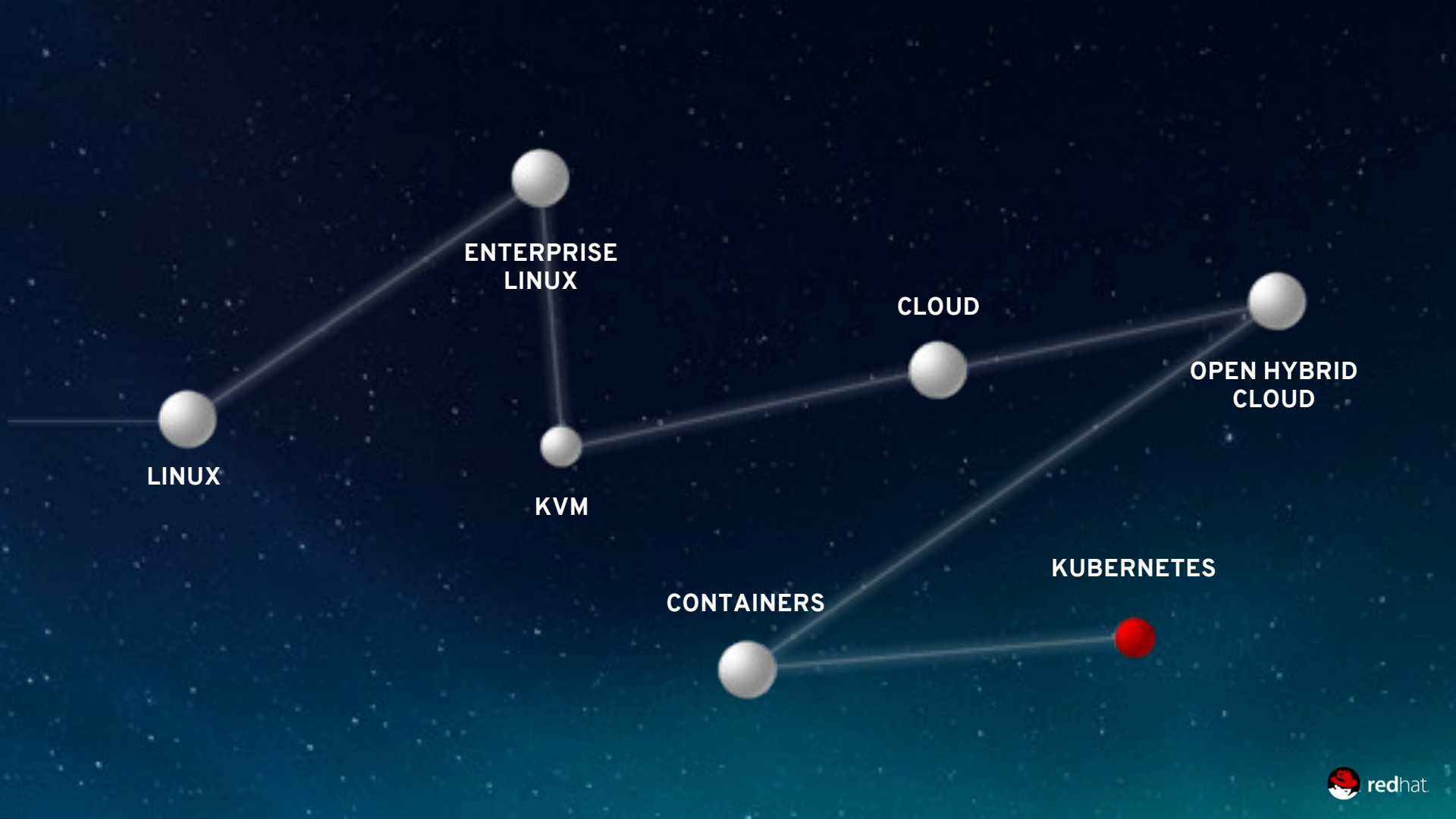
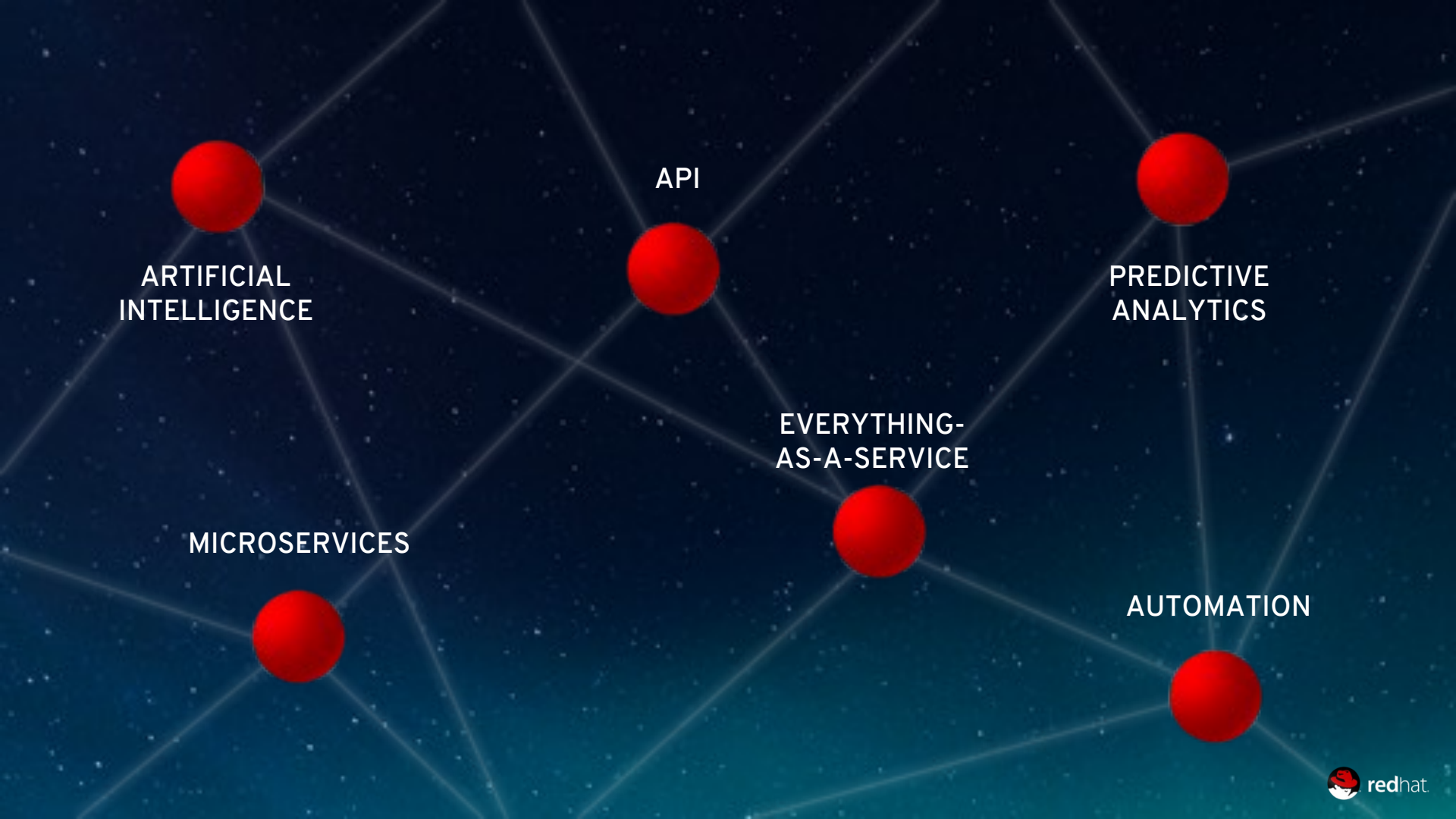
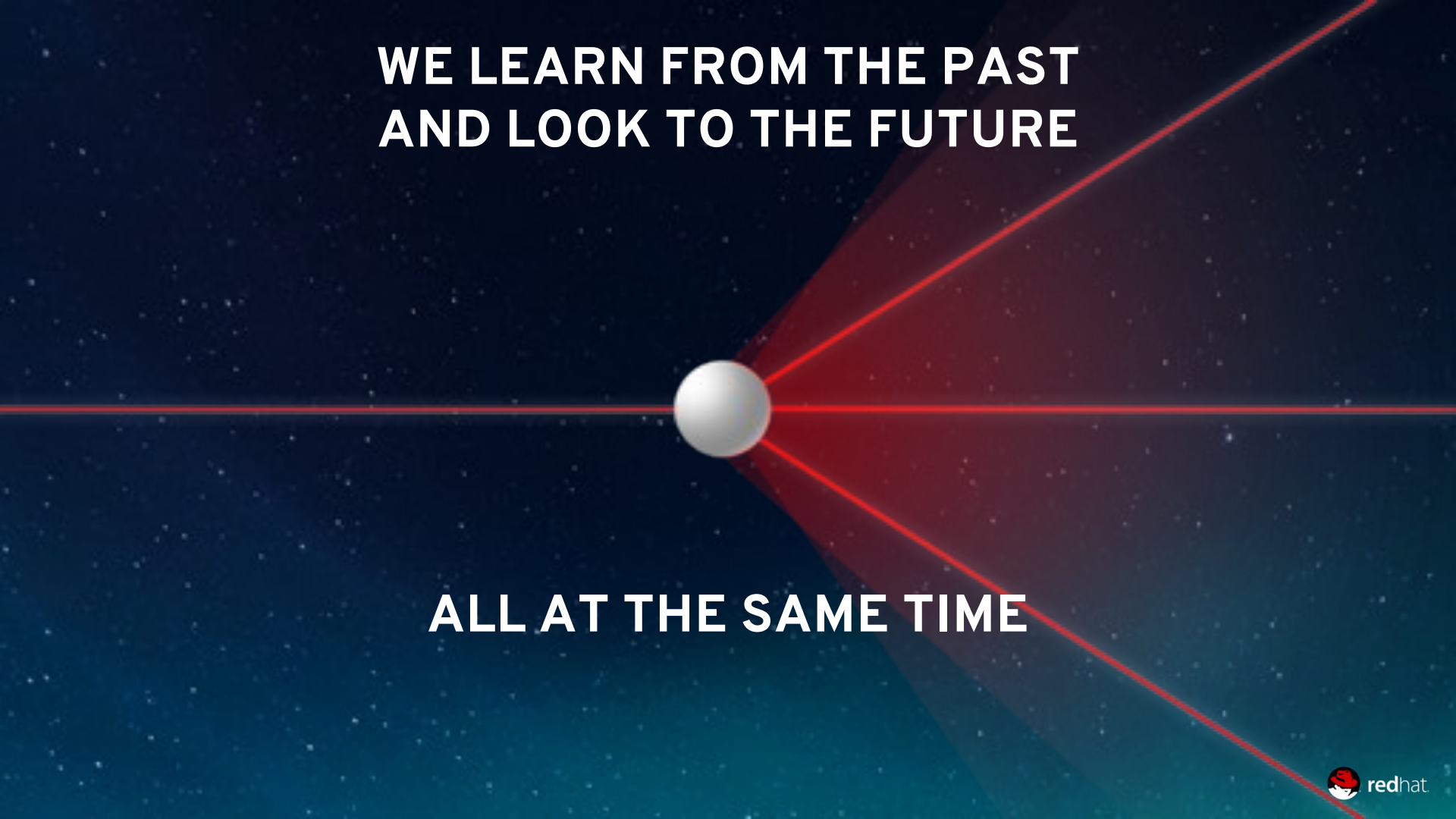

ENTERPRISE
LINUX
CLOUD
OPEN HYBRID
CLOUD
LINUX
KVM


ENTERPRISE
LINUX
CLOUD
OPEN HYBRID
CLOUD
LINUX
KVM
CONTAINERS


ENTERPRISE LINUX
CLOUD
OPEN HYBRID CLOUD
LINUX
KVM
KUBERNETES
CONTAINERS


API
ARTIFICIAL INTELLIGENCE
PREDICTIVE ANALYTICS
EVERYTHING-AS-A-SERVICE
MICROSERVICES
AUTOMATION


WE LEARN FROM THE PAST
AND LOOK TO THE FUTURE
ALL AT THE SAME TIME
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WE STARTED WITH LINUX

BUT WE DIDN'T STOP THERE

OUR VISION: OPEN HYBRID CLOUD

ALL KINDS OF APPS AND ENVIRONMENTS, INCLUDING CONTAINERS

DEVELOPER TOOLING

APPLICATION PLATFORMS

BARE METAL

VIRTUAL

INFRASTRUCTURE PLATFORMS

PRIVATE CLOUD

PUBLIC CLOUD

SOFTWARE-DEFINED STORAGE

MANAGEMENT AND AUTOMATION

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HYBRID CLOUD INFRASTRUCTURE

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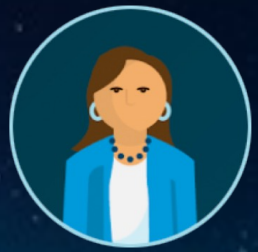
WITHOUT HYBRID CLOUD

YOU MIGHT HEAR THESE THINGS

"We can't seem to keep up with our competitors. It's taking too long to bring new products to market!"

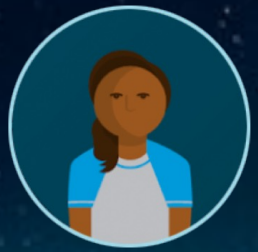
CEO

"How do we use public cloud to our advantage without the risks to our business?"



CIO

"I can't scale our IT infrastructure to meet demand."



I.T. OPERATIONS

"We're losing control of our security policies and compliance regulations."

I.T. DIRECTOR

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“Hybrid cloud articulates a balance of leveraging existing investments while wrapping in new cloud technologies to bring powerful improvements.”

FORRESTER
April 2018

Source: Lauren Nelson, Forrester, *Top 10 Facts Every Tech Leader Should Know About Hybrid Cloud*, April 28, 2018

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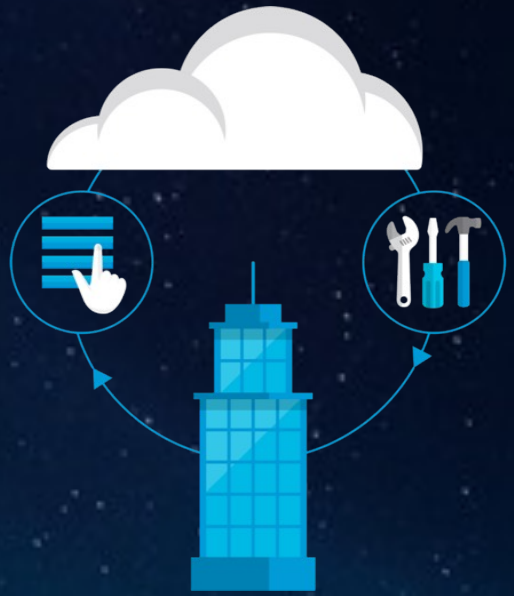
WHAT IS HYBRID CLOUD?



HYBRID CLOUD

- The mix of private, either on-premise or managed or hosted, and a third-party public cloud environments with orchestration between them.
- Enables IT to align and move workloads to the right environment at the right time, depending on their specific business and technology needs.

Offering **WORKLOAD PORTABILITY, INTEGRATION, ORCHESTRATION, AND UNIFIED MANAGEMENT**

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TOP REASONS CUSTOMERS CHOOSE HYBRID CLOUD

TOP REASONS CUSTOMERS CHOOSE HYBRID CLOUD

AGILITY

"...[it] enabled us to create a multi-tier architecture that could support our continuous integration and DevOps model."

- ***Odd Waller,*** *Volvo IT*[1]

COST SAVINGS

"...our operating costs have significantly decreased."

- ***Yui Onodera,*** *C.A. Mobile*[2]

TIME TO MARKET

"We can deliver products to market more quickly than our competitors. It's a game-changer."

- ***Paul Cutter,*** *CTO, Betfair*[3]

AVOID LOCK-IN

"[it] presented a solution that could easily integrate public infrastructure into our own."

- ***Darwin Gosal,*** *Yale NUS College*[4]

Source: (n=272) Forrester Research, Red Hat Cloud Migration Thought Leadership Study: Data Review. September 1, 2017. [1] Red Hat press release, *Red Hat powers cloud-scale DevOps with the GA of Red Hat Cloud Suite and Red Hat OpenStack Platform 8*, Apr 2016. [2] Red Hat case study, *C.A. Mobile meets traffic demands with a modern infrastructure*. Apr 2016. [3] Red Hat case study, *Paddy Power Betfair upgrades systems to improve online betting*, Jun 2016. [4] Red Hat press release, *Singapore's first liberal arts college taps Red Hat and Dell for OpenStack-based, software-defined datacenter*, Oct 2015.

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IT'S ALL ABOUT THE PLATFORMS

RED HAT® ENTERPRISE LINUX®

RED HAT® OPENSTACK® PLATFORM

RED HAT® OPENSHIFT®

LINUX IS THE FOUNDATION OF OUR PORTFOLIO

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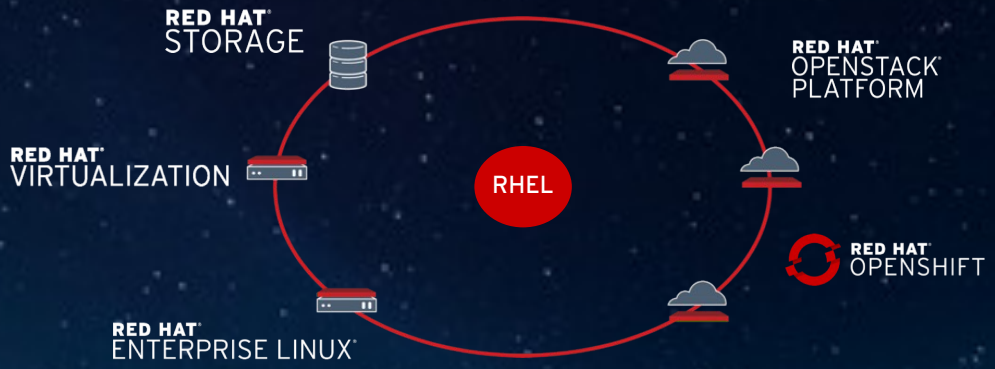
HYBRID CLOUD INFRASTRUCTURE



- Built on Red Hat Enterprise Linux foundation
- Red Hat OpenStack Platform is a private cloud platform
- Red Hat OpenShift can be used on-premise for hybrid applications
- Virtualization to bridge legacy to the cloud
- Software-defined storage for containers & cloud

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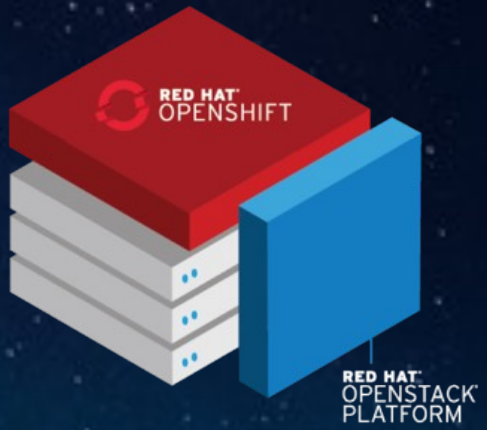
OPENSHIFT ON OPENSTACK



PLATFORM CONVERGENCE

- Native integration at the networking and storage levels
- Demonstrates concrete benefits from Red Hat Virtualization → OpenStack
- Eases path to OpenShift & OpenStack convergence

OPENSTACK ON BARE METAL

- OpenShift running on container-native virtualization for on-premise cloud-native platform
- Uses Director to deploy OpenShift for ease of management from day 1.

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VIRTUALIZATION MIGRATION

WITH CONTAINER-NATIVE STORAGE

VIRTUALIZATION MIGRATION

- Encourage migration from ESX to open-format: KVM on Red Hat Cloud Infra
- GUI-based polished tooling and services offerings to ease migration

CONTAINER-NATIVE VIRTUALIZATION

- Key to enabling application modernization

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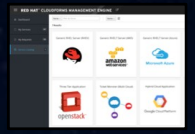
UNIFIED MANAGEMENT

Red Hat Open Hybrid Cloud

LIFECYCLE
MANAGEMENT



SELF SERVICE
CATALOG

FINANCIAL
MANAGEMENT

MONITORING
AND ANALYTICS

AUTOMATION &
ORCHESTRATION

SECURITY &
COMPLIANCE

RED HAT OpenStack Platform Director

RED HAT® CLOUDFORMS

RED HAT® ANSIBLE® Automation

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HYBRID IS THE NEW DATACENTER

RED HAT ENTERPRISE LINUX

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WHY CHOOSE RED HAT FOR HYBRID CLOUD?

Interoperability Plan so that current and future components will work together. Make sure you can get the best return on the investments you've already made.

Growth with portability As you add new cloud environments, make sure you can move or run business functions on them.

Minimized risk By standardizing on supported Red Hat products, you can maintain security, comply with regulatory mandates, and manage the risk associated with change.

How?
You can start small and grow as your business does. Our high-value cloud solutions help you free resources for innovation.

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WHAT'S NEXT?

4 WAYS TO GET STARTED

Look for ways to:

Develop a workload-driven cloud strategy

Implement a foundation for hybrid cloud

Build a private cloud

Deploy a multicloud container platform

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