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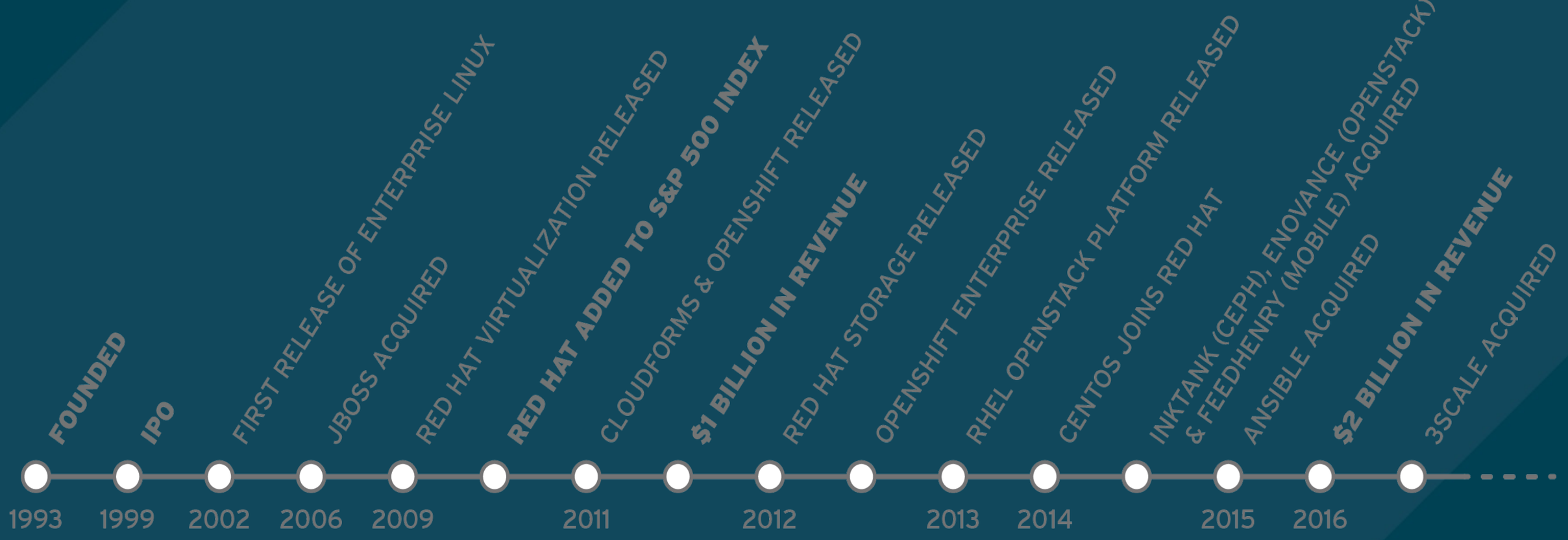
TOWARD A FAST, FLEXIBLE FUTURE

TIM YEATON

Senior Vice President and Group Executive
Infrastructure Business Group

@tbyeaton

#1 OPEN SOURCE LEADER
FIRST $2 BILLION DOLLAR OPEN SOURCE COMPANY



THE CHANGING ROLE OF I.T. IN THE ENTERPRISE

“IT doesn’t matter.”

Nicolas G. Carr
Harvard Business Review, May 2003

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THE CHANGING ROLE OF I.T. IN THE ENTERPRISE

“IT doesn’t matter.”

Nicolas G. Carr
Harvard Business Review, May 2003

“Every organization - whether services, manufacturing or healthcare – is becoming a technology company.”

Joe McKendrick
Forbes.com, April, 2015

DIGITAL TRANSFORMATION

Changing enterprises and entire industries in fundamental ways

New ways of developing, delivering, and integrating applications

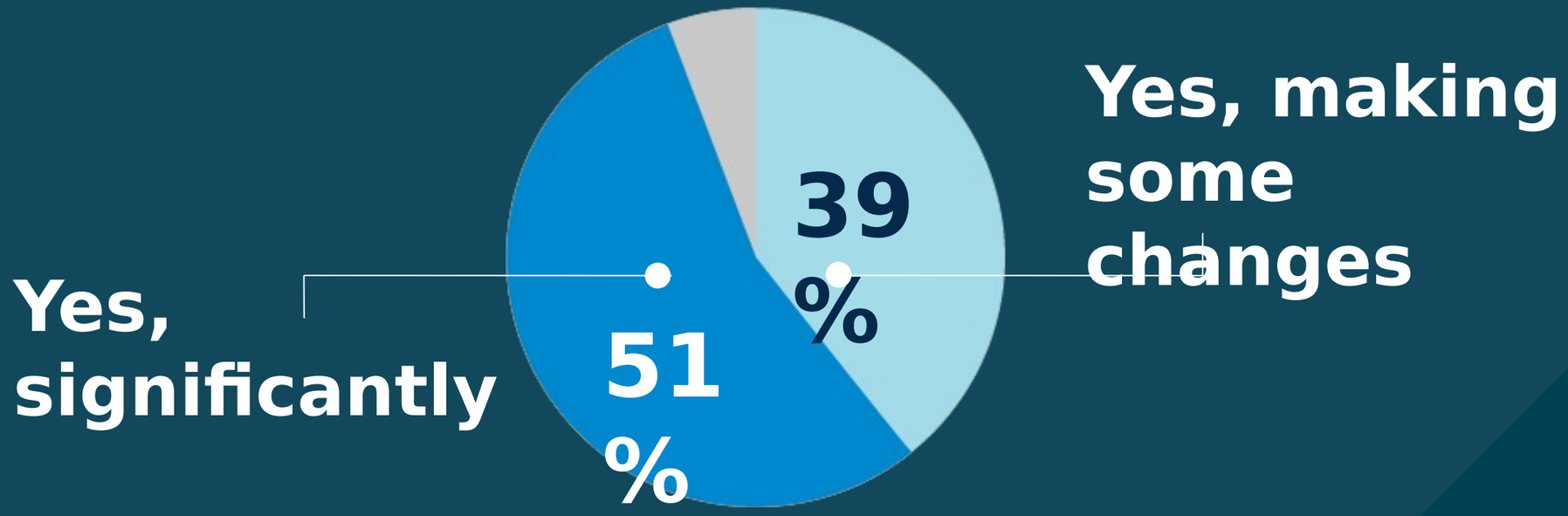
More agile process across both IT and the business

Modernize existing and build new cloud-based infrastructure

By 2018, 67% of Global 2000 CEO's will have Digital Transformation at the center of their corporate strategy – IDC, 2016

90% OF CEOS ARE CHANGING HOW THEY VIEW TECHNOLOGY

QUESTION | *Are you changing how you use technology to assess and deliver on wider stakeholder expectations?*



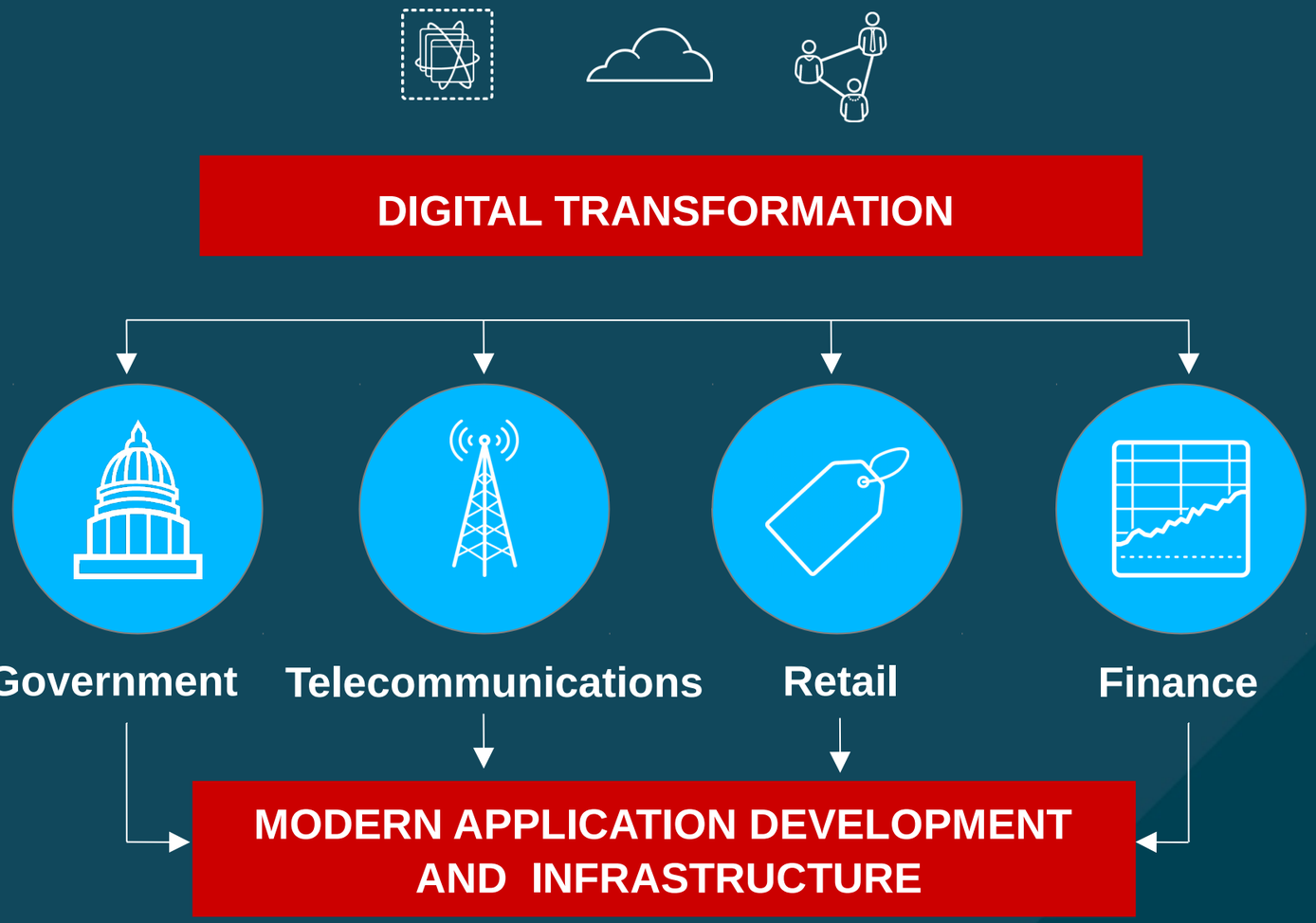
Source: Survey of 1,409 CEOs in 83 countries by PricewaterhouseCooper, **19th Annual Global CEO Survey**, January 2016. http://www.pwc.com/gx/en/ceo-survey/2016/landing-page/pwc-19th-annual-global-ceo-survey.pdf

DIFFERENT DRIVERS, SAME JOURNEY

Economic drivers

Specific industry needs

What organizations require to transform



MORE THAN EVER, IT'S ALL ABOUT THE APP…

Government

Telecommunications

Retail

Finance

…AND THE APP, AND THE SUPPORTING INFRASTRUCTURE, IS EVOLVING

I.T. MUST EVOLVE...

MINDSET

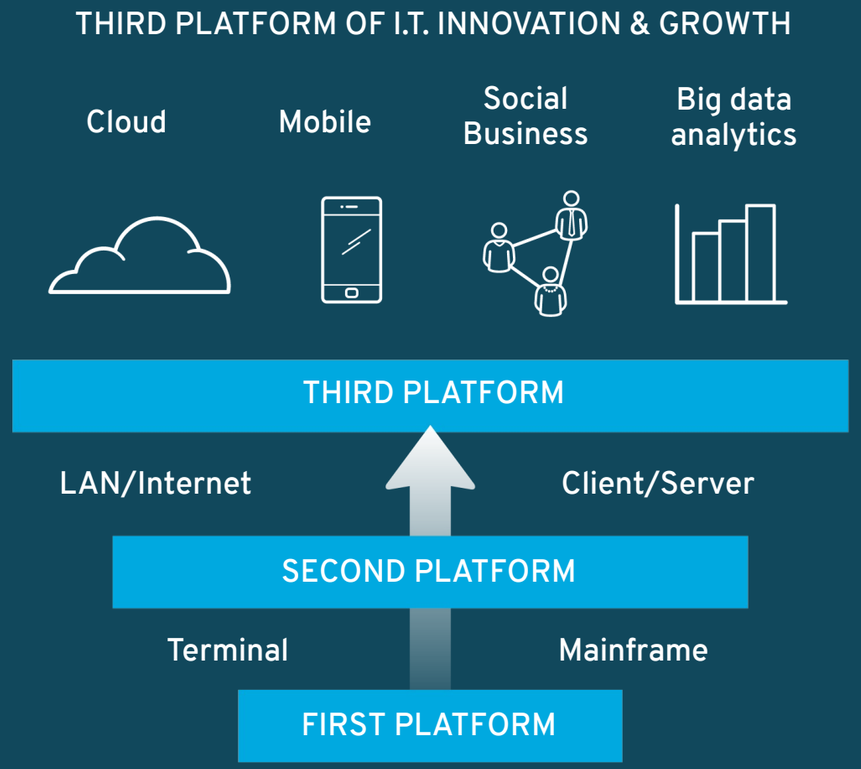
CULTURE

PROCESS

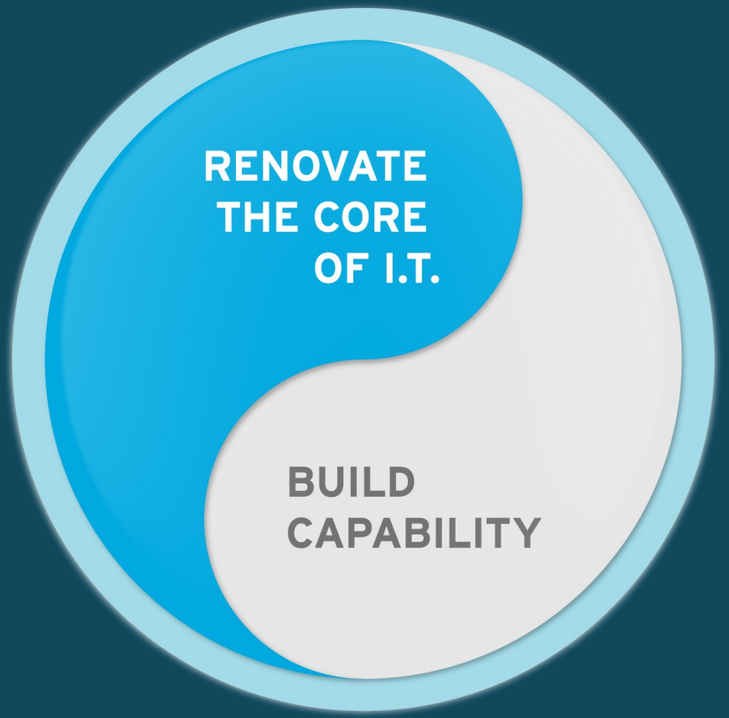
TECHNOLOGY

...BUT EVOLVE SENSIBLY

Blending Traditional and Cloud-Native I.T.



IDC
Analyze the Future



Gartner

REQUIREMENTS FOR THE DIGITAL ENTERPRISE

STREAMLINED AND AUTOMATED

ELASTIC AND SCALABLE

AGILE AND RESPONSIVE

UTILITY-LIKE

PROVISIONING, CONFIGURATION MANAGEMENT

HYBRID CLOUD AND CLOUD BURSTING

RAPID APPLICATION DEPLOYMENT

MANAGED, POLICY DRIVEN, AND ALWAYS ON

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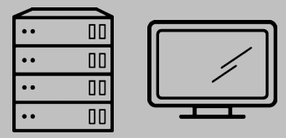
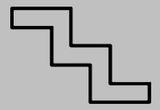
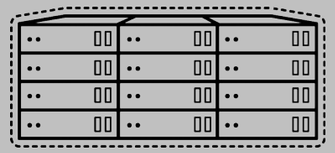
TECHNOLOGY EVOLUTION

	TRADITIONAL	EMERGING
ARCHITECTURE (WHAT)	 Monolithic	Microservices and APIs
PROCESS (HOW)	 Waterfall	Agile and DevOps
PLATFORM (WHERE)	 Datacenter	Contaners, Cloud, and Mobile

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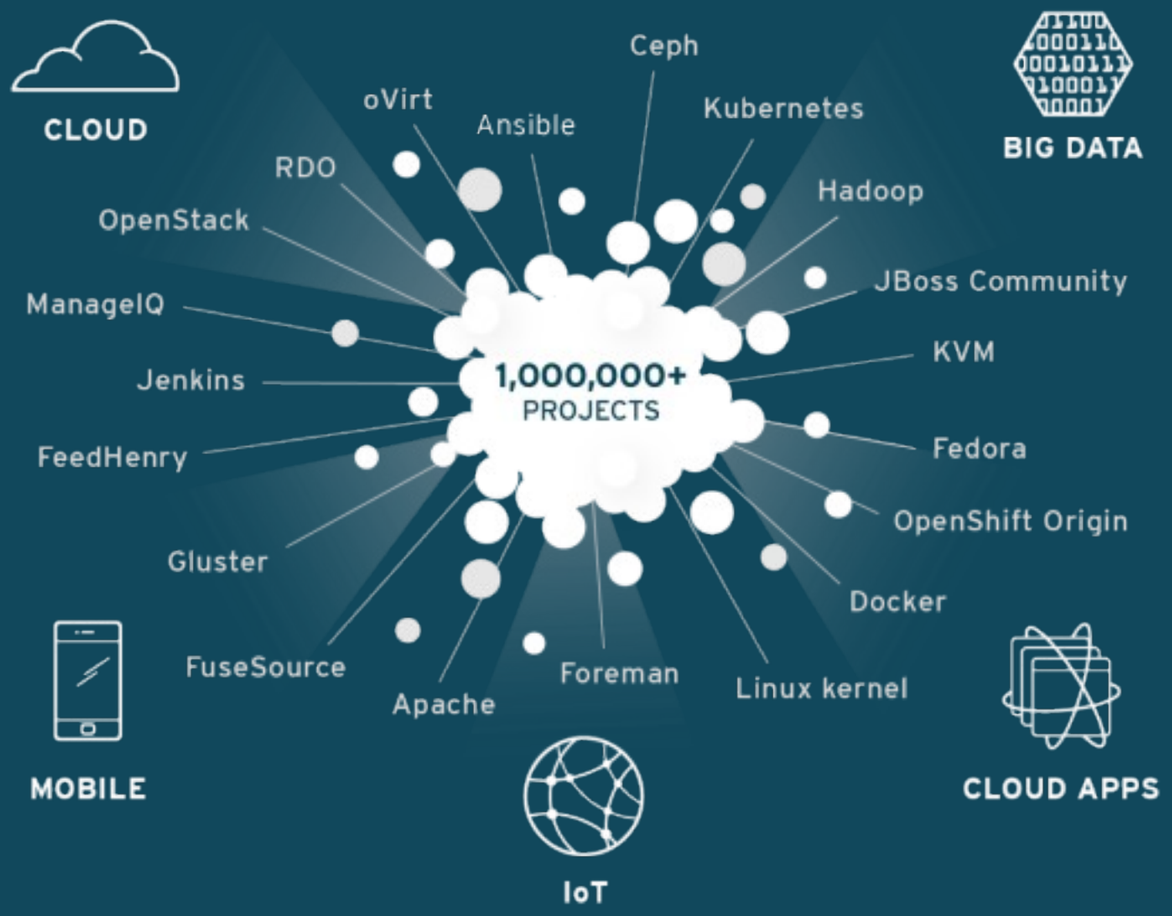
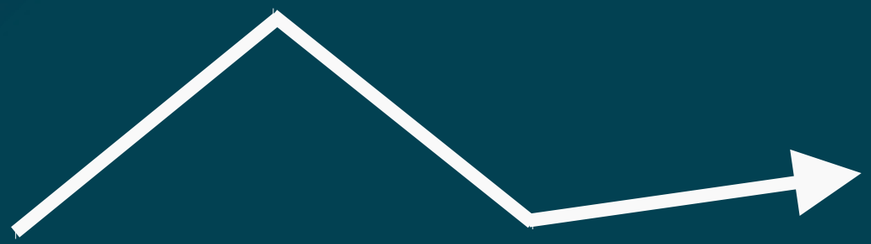
OPEN SOURCE COLLABORATIVE DEVELOPMENT

Driving today's software innovation

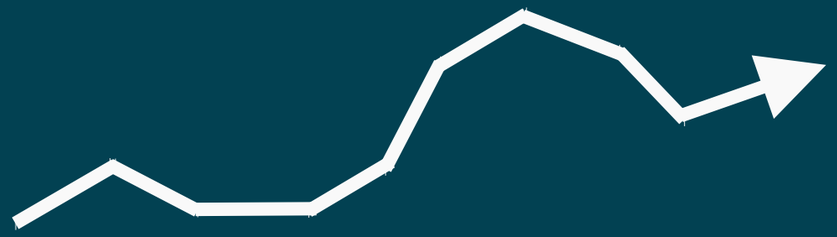


DIGITAL TRANSFORMATION REQUIRES AGILITY

Faster Changes, Smaller Increments



TRADITIONAL METHODS

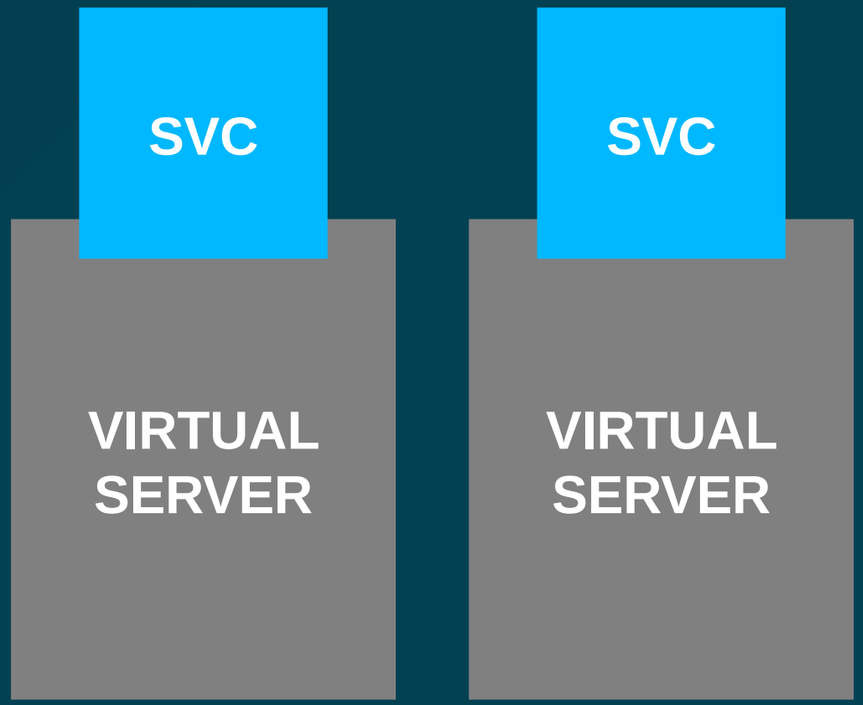


AGILE DEVELOPMENT

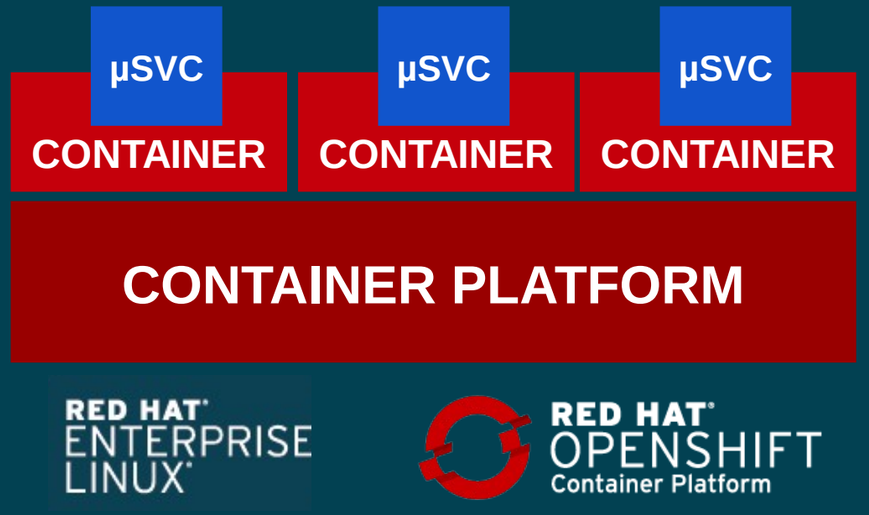
AGILE DEVELOPMENT NEEDS A BETTER APPLICATION ARCHITECTURE

PRE-SOA **SOA** **MICROSERVICES**

MICROSERVICES NEED CONTAINERS



TRADITIONAL VIRTUALIZATION

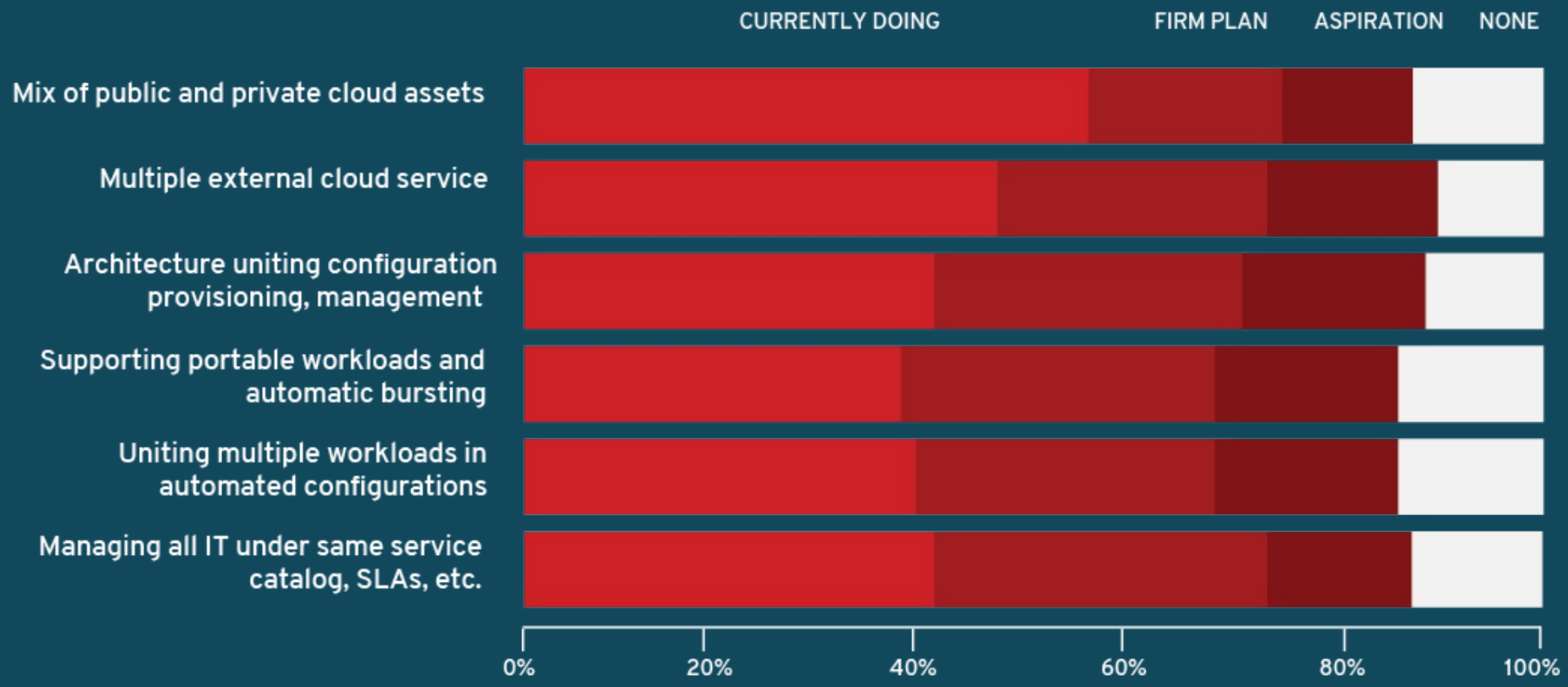


MICROSERVICES IN CONTAINERS: LIGHTWEIGHT, FLEXIBLE

DEVOPS TURNS AGILE DEVELOPMENT INTO BUSINESS INNOVATION

BUSINESS | APP DEVELOPMENT | OPERATIONS

HYBRID CLOUD IS A REALITY

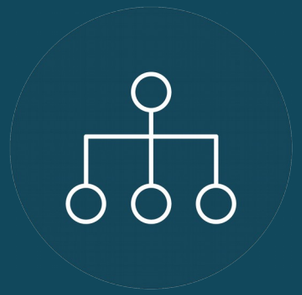


Source:
IDC Multiclient Survey of 6,159 respondents from 31 countries, IDC CloudView 2016 Survey, Jan 2016.
http://www.idc.com/getdoc.jsp?containerId=prUS41039416

THE FABRIC FOR THE DIGITAL ENTERPRISE

Dynamic, Hybrid Cloud

MIX OF TRADITIONAL & CLOUD-NATIVE WORKLOADS



PRIVATE & MULTIPLE PUBLIC CLOUDS

DYNAMICALLY PORTABLE & ELASTIC, WITH AUTOMATIC BURSTING

HIGHLY AUTOMATED WITH UNIFIED MANAGEMENT, SERVICE CATALOG, DEVOPS PROCESSES

DIGITAL TRANSFORMATION – END GAME

ARCHITECTURE IS
MICROSERVICES

PLATFORM IS
OPEN HYBRID CLOUD

PROCESS IS
DEVOPS

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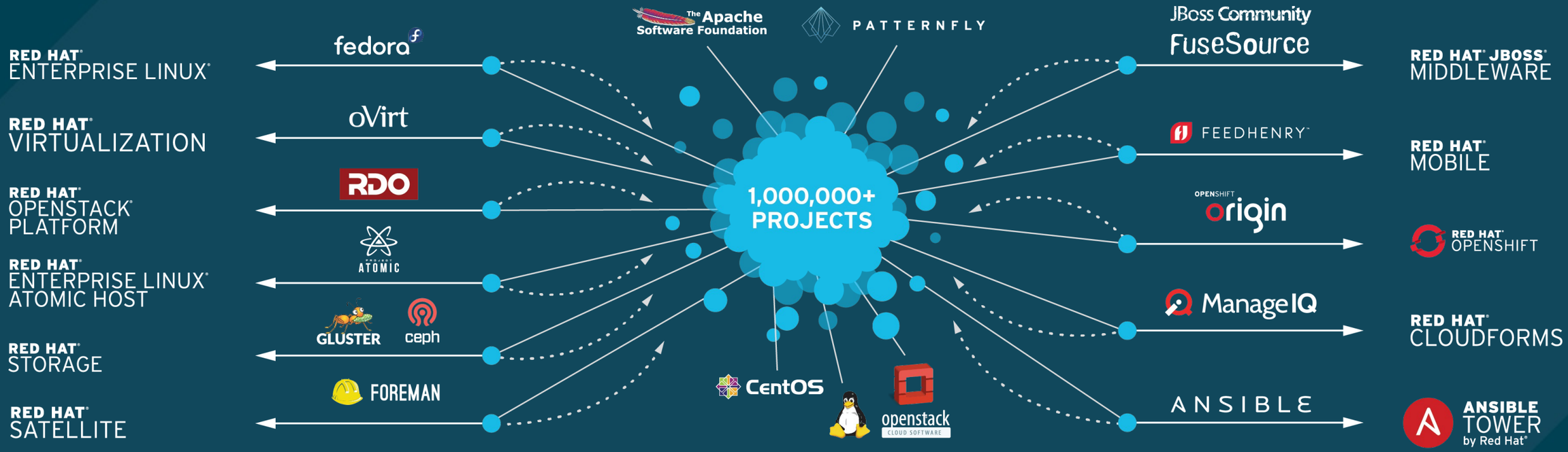
HOW RED HAT CAN HELP

RED HAT'S UNIQUE APPROACH

Harness open source innovation and deliver mission-critical IT solutions



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MODERNIZING THE TRADITIONAL IT ENVIRONMENT

Standardize

Improve **efficiency** with a **standardized** operating environment

Virtualize

Prepare for cloud with **powerful, cost-effective** virtualization

Automate

Use **automation and management** tools to improve **productivity**

Containerize

Containerize existing apps **for efficiency and ease of management**

SAME BUILDING BLOCKS FOR YOUR FUTURE CLOUD-NATIVE IT ENVIRONMENT

RED HAT'S VISION – OPEN HYBRID CLOUD

Compatible platforms based on Red Hat Enterprise Linux

PHYSICAL

VIRTUAL

PRIVATE CLOUD

PUBLIC CLOUD

RED HAT® ENTERPRISE LINUX®

RED HAT® VIRTUALIZATION

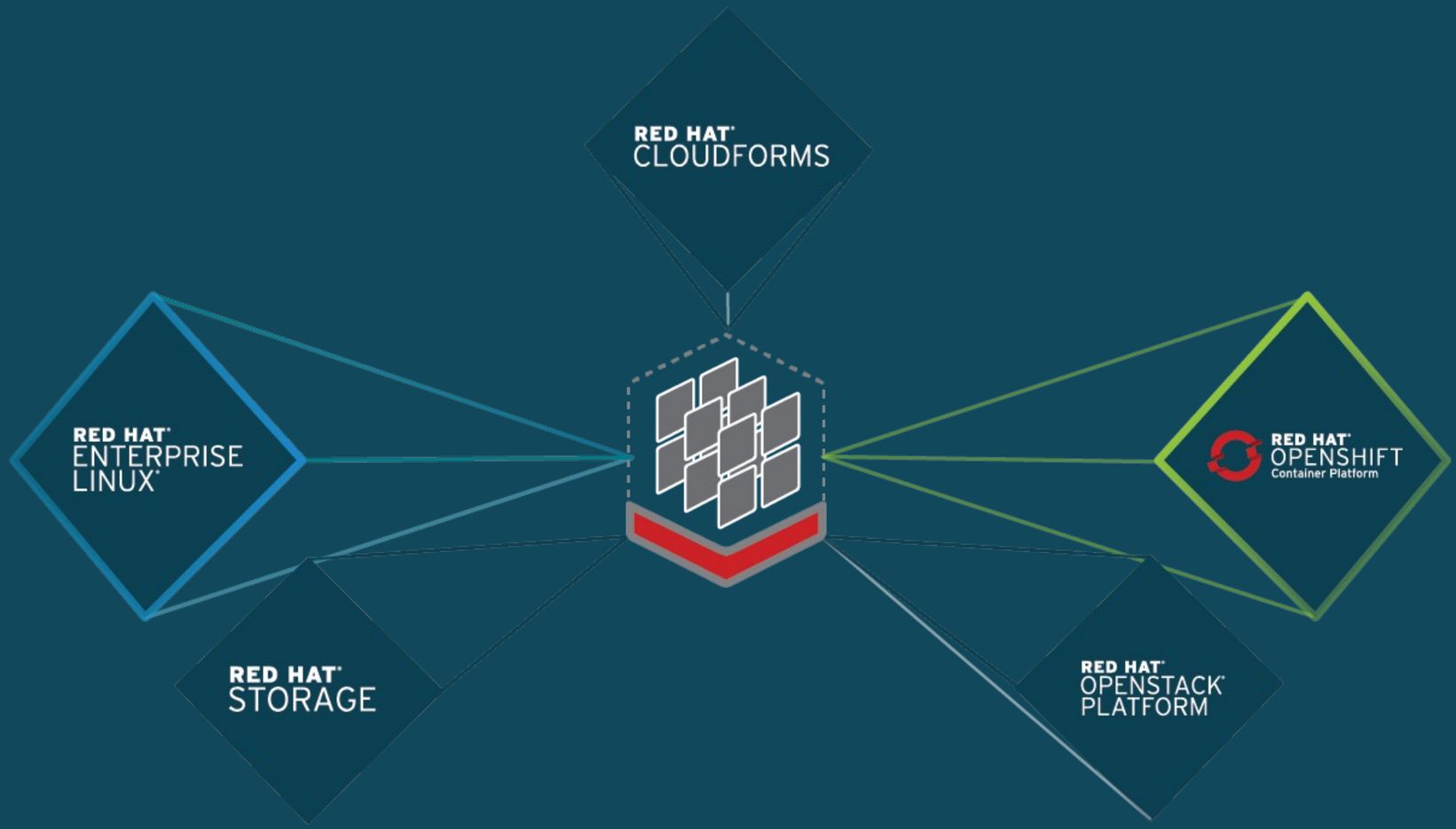
RED HAT® OPENSTACK PLATFORM

OPENSHIFT® by Red Hat®

redhat.

RED HAT ENTERPRISE LINUX CONTAINERS

The foundation for all Red Hat platforms



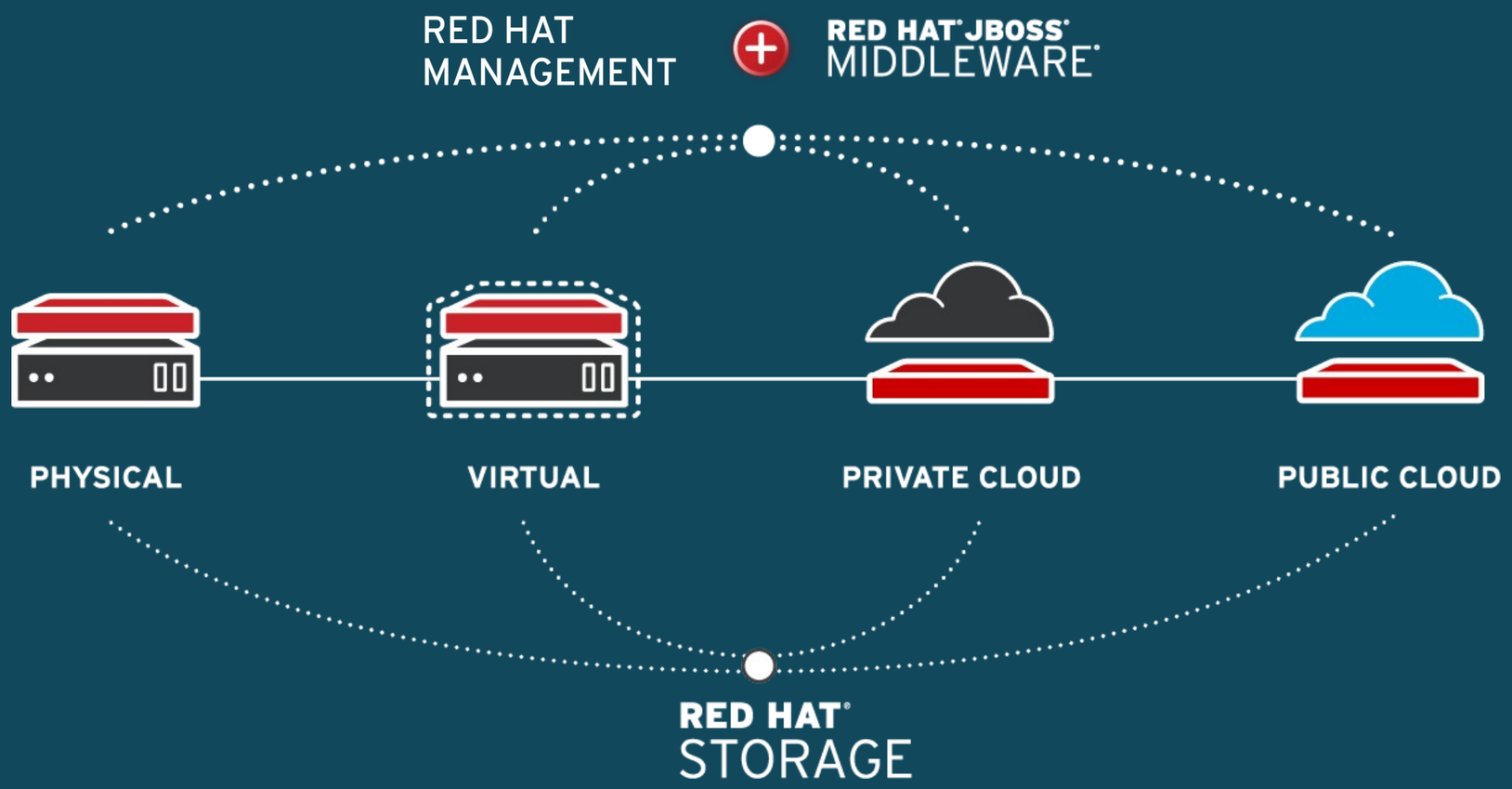
RED HAT INFRASTRUCTURE SOFTWARE

RED HAT CONTAINER PLATFORM

CONTAINER PLATFORMS

RED HAT'S VISION: OPEN HYBRID CLOUD

Common multi-modal application & integration services



RED HAT MIDDLEWARE/SERVICES

MIDDLEWARE AND APPLICATION SERVICES

RED HAT® JBOSS®
BPM SUITE

RED HAT® JBOSS®
FUSE

RED HAT® JBOSS®
DATA GRID

RED HAT® JBOSS®
ENTERPRISE
APPLICATION PLATFORM

RED HAT® JBOSS®
BRMS

RED HAT® JBOSS®
A-MQ

RED HAT® JBOSS®
DATA VIRTUALIZATION

RED HAT®
MOBILE APPLICATION
PLATFORM

RED HAT OPEN MANAGEMENT PLATFORM

CLOUDFORMS

DELIVER SERVICES ACROSS YOUR HYBRID CLOUD

- Hybrid Cloud Management
- Self-Service Provisioning
- Policy-driven Compliance

ANSIBLE

AUTOMATE YOUR IT PROCESSES & DEPLOYMENTS

- Simple & powerful language
- No agents to install
- Scale with Ansible Tower

INSIGHTS

PREVENT CRITICAL ISSUES BEFORE THEY OCCUR

- Continuous Insights
- Verified Knowledge
- Proactive Resolution

SATELLITE

BUILD A TRUSTED & SECURE RED HAT ENVIRONMENT

- Manage the Red Hat Lifecycle
- Provision & Configure at Scale
- Standardize Your Environment

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EACH SUPPORTS THE OTHER

MICROSERVICES

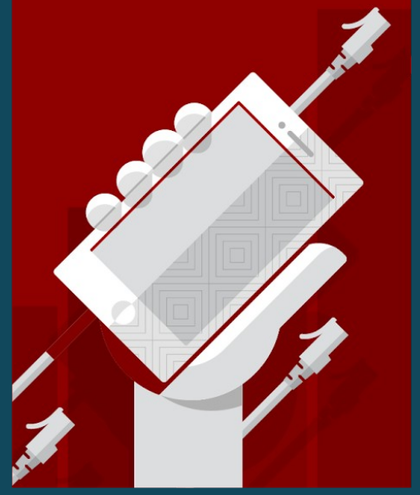
OPEN HYBRID CLOUD

DEVOPS

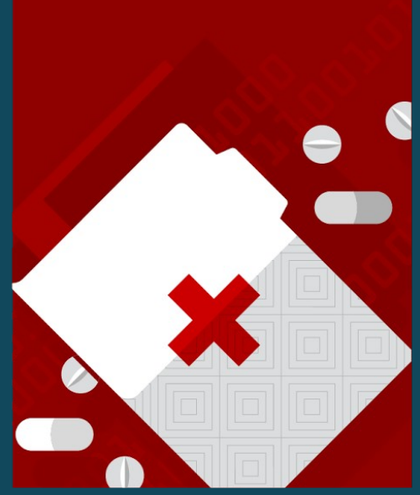
GLOBAL LEADERSHIP

100%
of airlines in the Fortune Global 500 rely on Red Hat

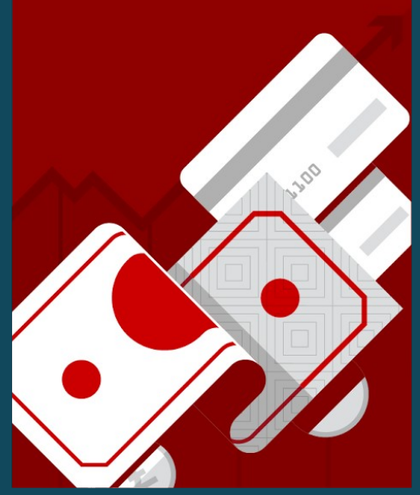
100%
of telcos in the Fortune Global 500 rely on Red Hat



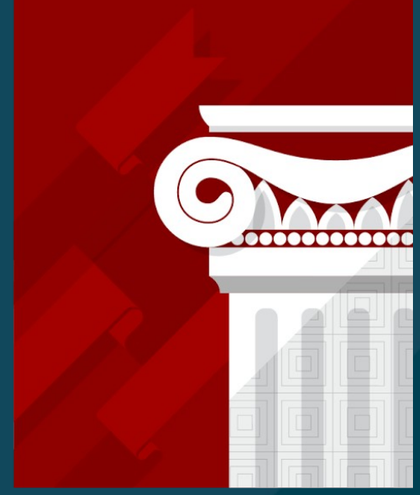
100%
of healthcare companies in the Fortune Global 500 rely on Red Hat



100%
of commercial banks in the Fortune 500 rely on Red Hat



100%
of U.S. executive departments rely on Red Hat

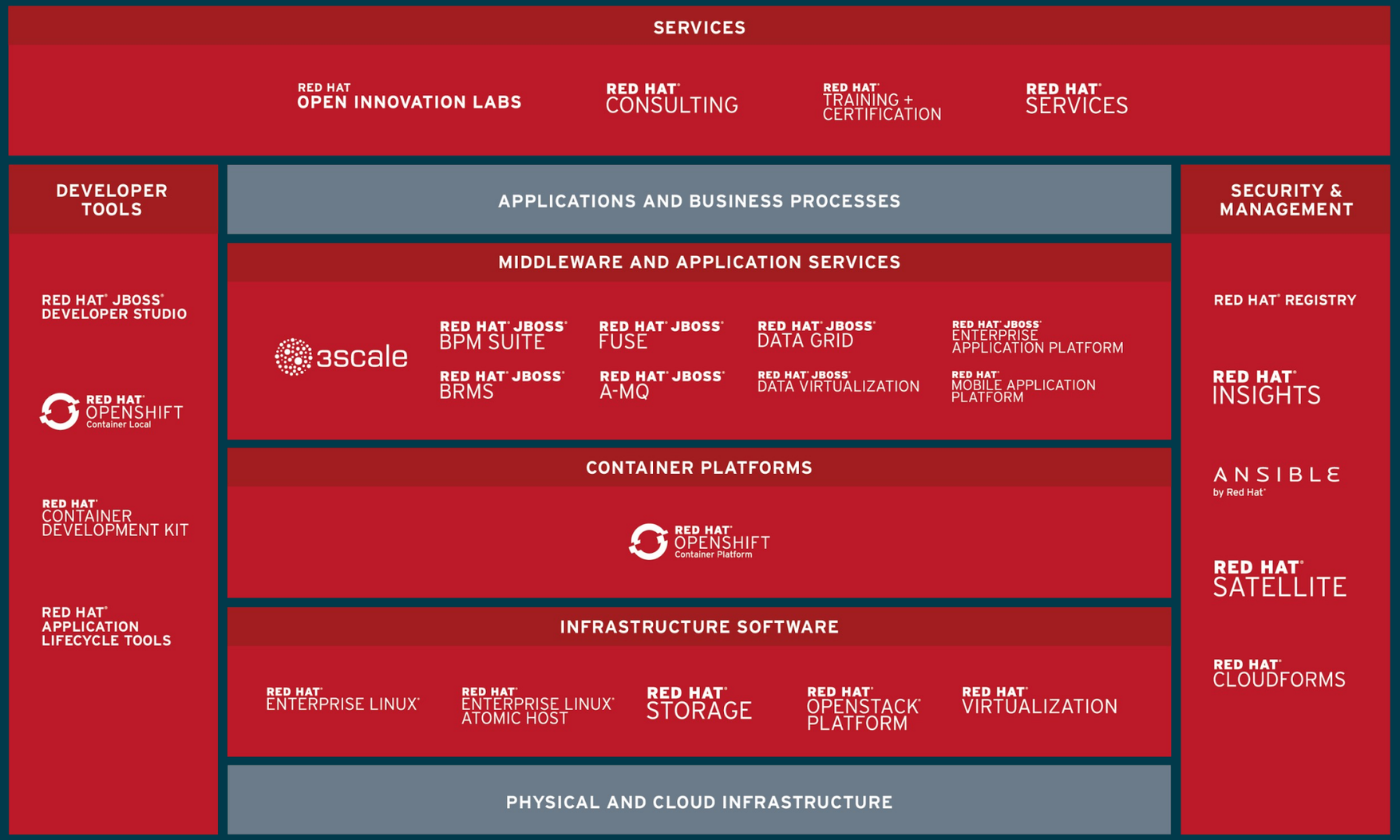


SUCCESS STORIES ACROSS ALL INDUSTRIES

Red Hat has several hundred private clouds in production. Today.

redhat.

PLATFORM FOR THE FUTURE



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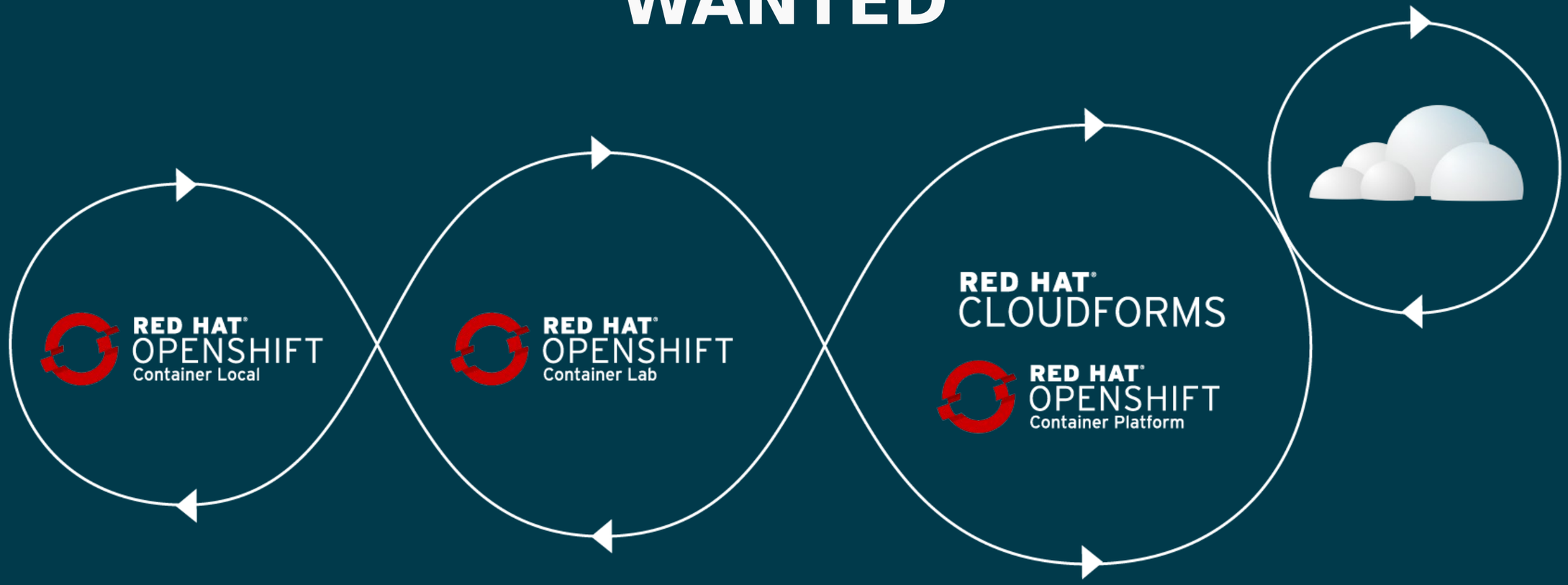
MOVE AT THE SPEED YOU'VE ALWAYS WANTED



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THANK YOU!

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Infrastructure Business Group

@tbyeaton