

Containers & Cloud-Native Roadshow

Do more now. Build what's next.

AGENDA

- Introduction (**V.Colabella**)
- Container e DevOps al servizio dei cittadini: il caso di INAIL
(**Paolo Guidelli, Antonio Tommaso, Anna Sappa, G.Magalotti Par-Tec**)
- Why 'Cloud Native' : challenges and benefits (**V.Colabella**)
- Success Stories with our partners
 - Luca Tiberia** (Cloud Architect Manager - Accenture)
 - Michele Solazzo** (Sales&Marketing Director - Kiratech), **Massimiliano Romano** (DevOps Expert - Kiratech)
- Lunch Break
- Technical Deep Dive with Demo (**U.Landini** - Principal Solution Architect)

RED HAT'S INTENTIONAL 25-YEAR JOURNEY

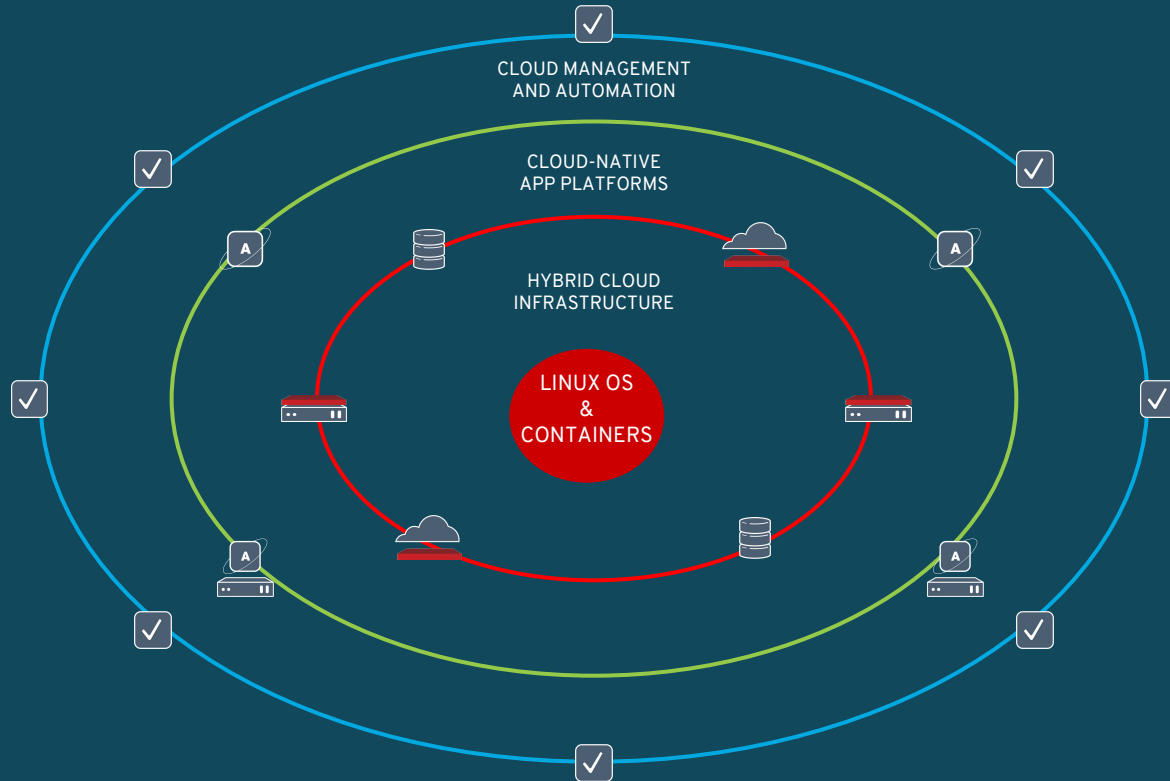
- 1993 ● FOUNDED
- 1999 ● IPO
- 2002 ● FIRST RELEASE OF ENTERPRISE LINUX
- 2006 ● JBOSS ACQUIRED
- 2009 ● RED HAT VIRTUALIZATION RELEASED
- RED HAT ADDED TO S&P 500 INDEX
- 2011 ● OPENSIFT RELEASED
GLUSTER ACQUIRED
FUSESOURCE, POLYMITA & MANAGEIQ ACQUIRED

- 2012 ● **\$1 BILLION IN REVENUE**
RED HAT STORAGE RELEASED
● CLOUDFORMS RELEASED
- 2013 ● **RED HAT OPENSTACK PLATFORM RELEASED**
OPENSIFT ENTERPRISE RELEASED
- 2014 ● INKTANK (CEPH),
ENOVANCE (OPENSTACK),
& FEEDHENRY (MOBILE) ACQUIRED
- 2015 ● **ANSIBLE ACQUIRED**
- 2016 ● **\$2 BILLION IN REVENUE**
● 3SCALE (API MANAGEMENT) ACQUIRED
- 2017 ● PERMABIT, CODENVY & COREOS ACQUIRED
- 2018 ● **\$3 BILLION ANNUAL RUN RATE REVENUE**

OUR BUSINESS

**Red Hat is an enterprise-class software company
with an open source development model**

THE PILLARS ARE INTERCONNECTED, WITH LINUX AT THE CORE



CLOUD-NATIVE APPLICATION PLATFORMS

OPEN HYBRID CLOUD



HYBRID CLOUD INFRASTRUCTURE

Infrastructure software
across the 4 footprints, with
RHEL at the very core



CLOUD-NATIVE APP PLATFORMS

Software designed to rapidly
& efficiently develop & deploy
apps across hybrid cloud



MANAGEMENT & AUTOMATION

Software designed to
simplify management &
automation of hybrid cloud
environments

JOINT DEVELOPMENT DRIVES INNOVATION



Driving **innovation**
in **processing**.



Unleashing the **power of**
compute through software.

20+ years of collaboration fueling business speed.

RED HAT AND INTEL: DELIVERING CONTAINERIZATION

Red Hat OpenShift Container Platform offers:

Fast, flexible
app delivery

Accelerated delivery of new
features and services

Standard app components
and configurations

Automated app build,
test, and deployment

DevOps
adoption

Continuous integration/continuous
delivery (CI/CD) pipeline

INTEL XEON SCALABLE PROCESSORS

**Optimize
performance**
for advanced
analytics, HPC, and
data compression.

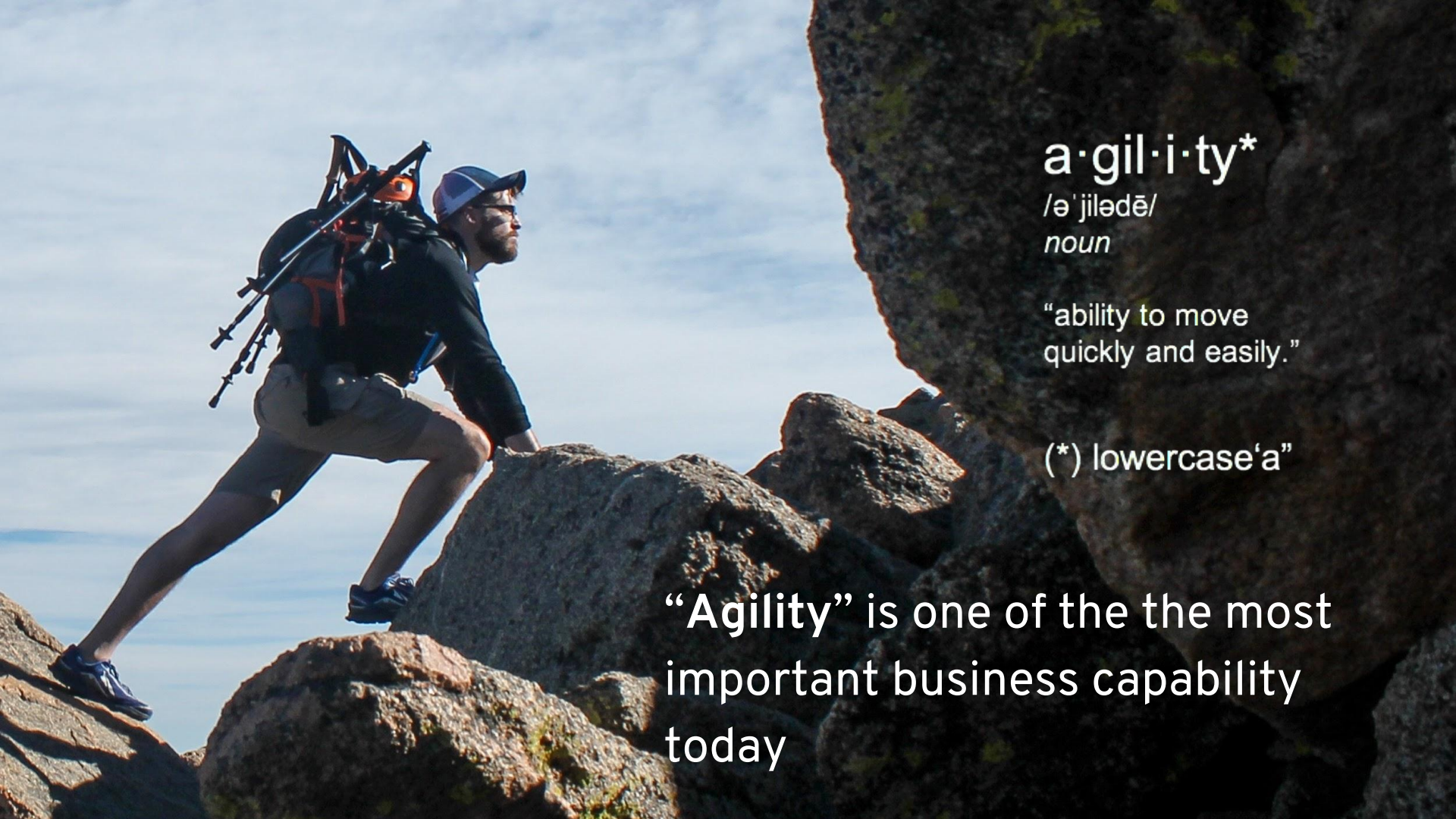
**Accelerate critical
workloads**
with faster data
compression and
cryptography.

**Operate more
efficiently**
with lower system and power
costs and improved block and
virtual machine transfers.

**Improve
security**
without
compromising
performance.



Why 'Cloud Native' : challenges and benefits



a·gil·i·ty*

/ə'jilədē/

noun

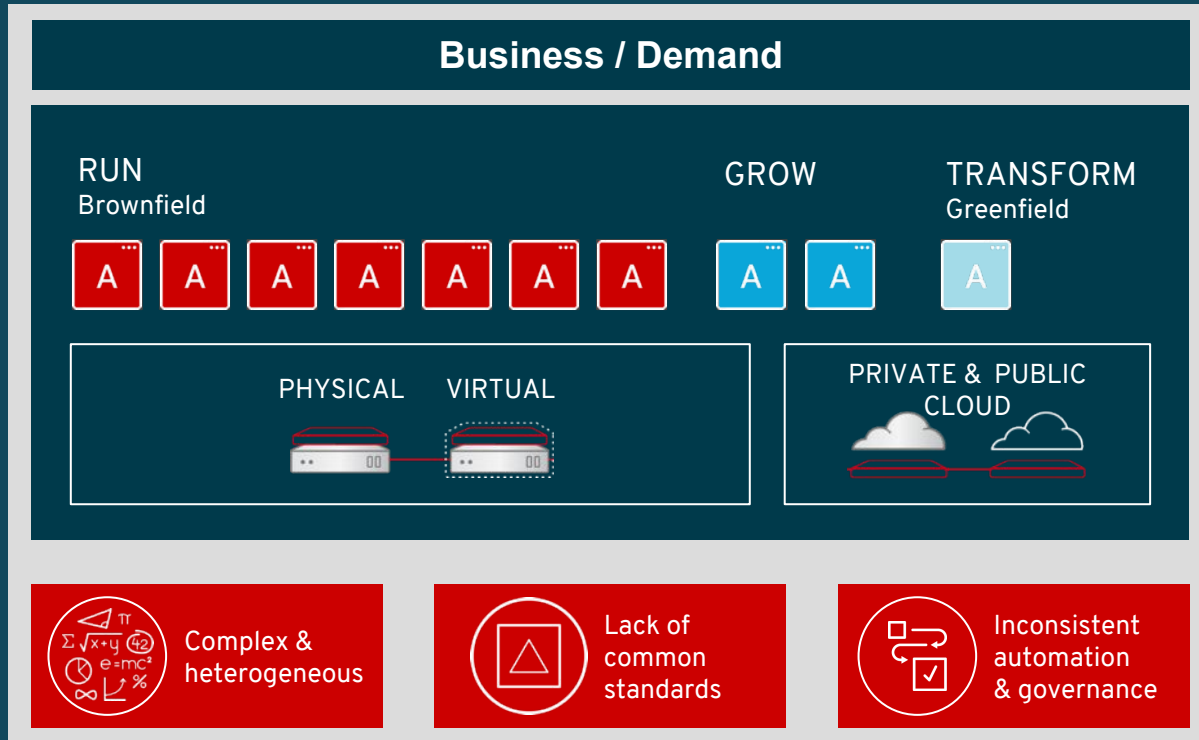
“ability to move quickly and easily.”

(* lowercase ‘a’)

“Agility” is one of the the most important business capability today

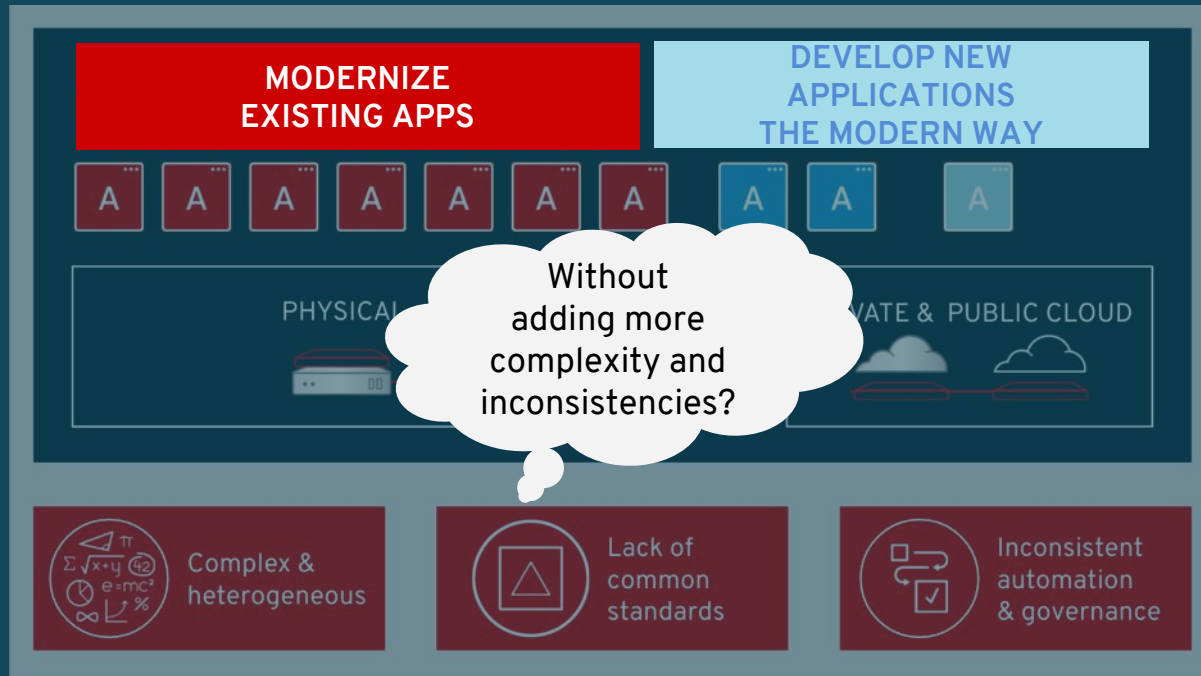
TYPICAL CUSTOMER LANDSCAPE TODAY

Where the journey starts...



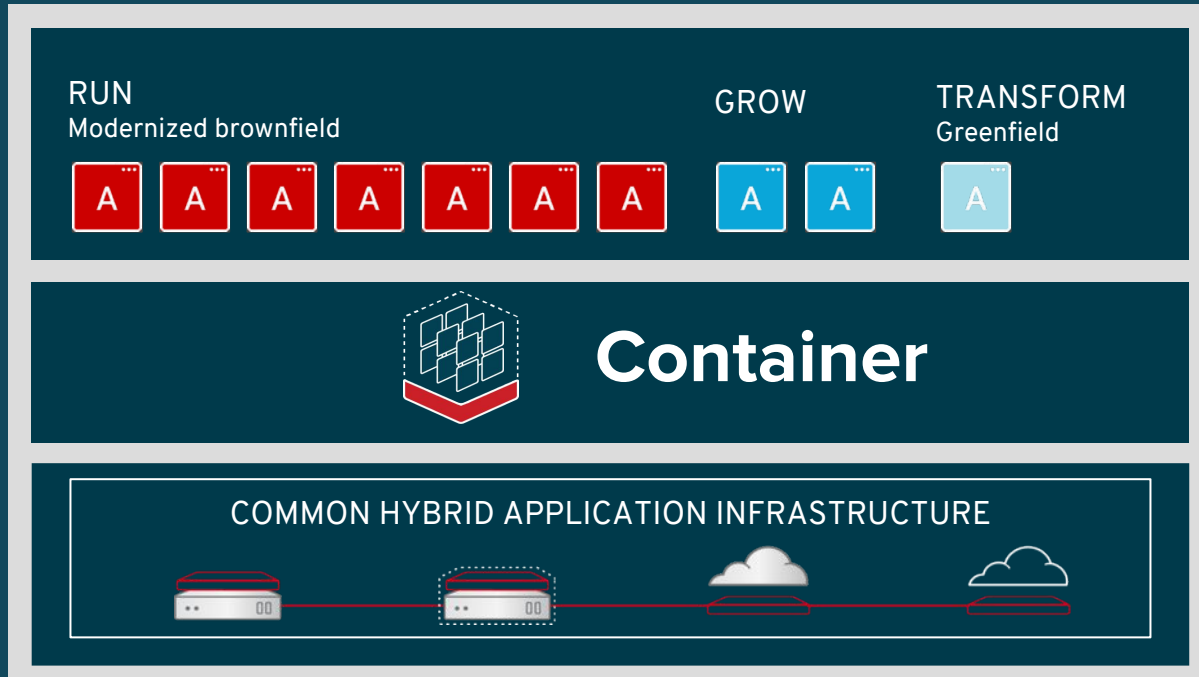
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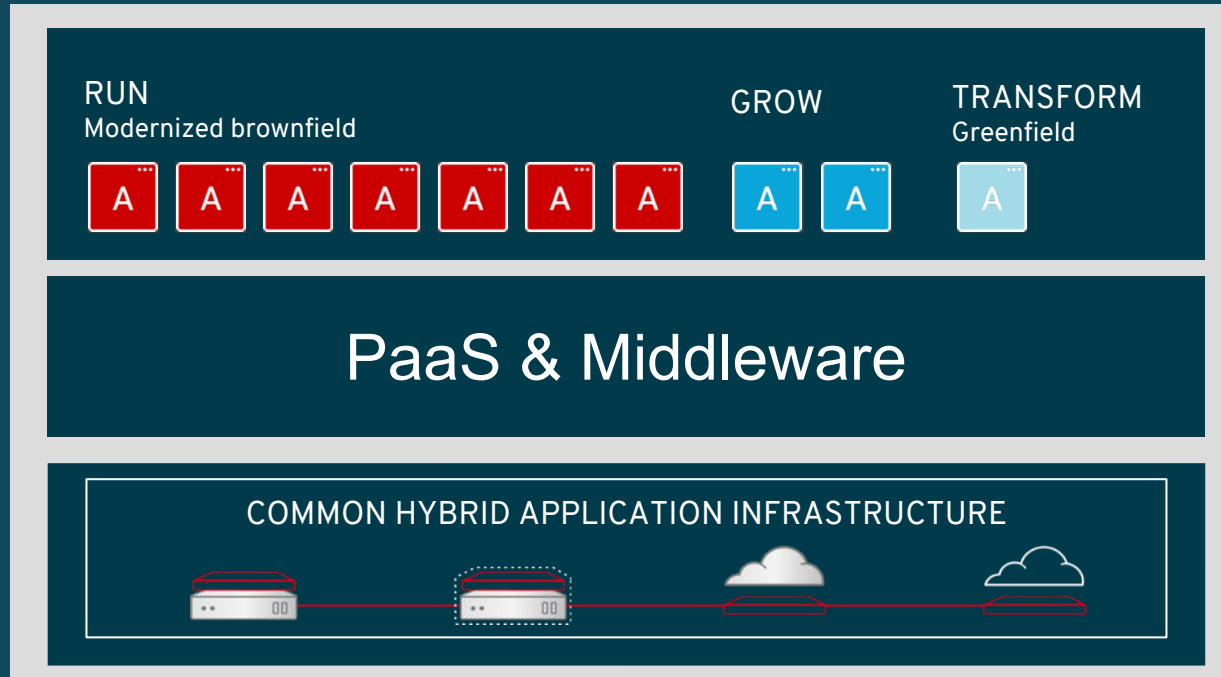
APPLICATION AND INFRASTRUCTURE MODERNIZATION

One platform to support you today and tomorrow

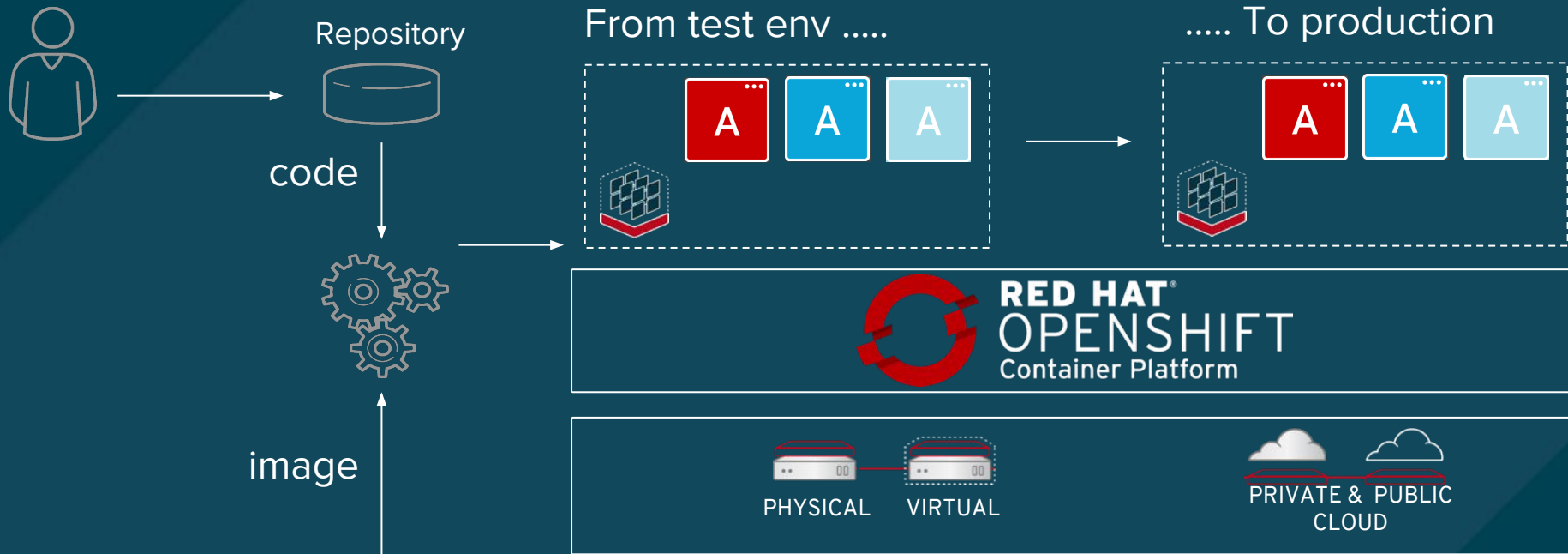


APPLICATION AND INFRASTRUCTURE MODERNIZATION

One platform to support you today and tomorrow



DEVOPS IN A 'HYBRID CLOUD' SCENARIO



Standard Images Registry

RED HAT® JBOSS®
MIDDLEWARE



node.js



MySQL



VERT.X

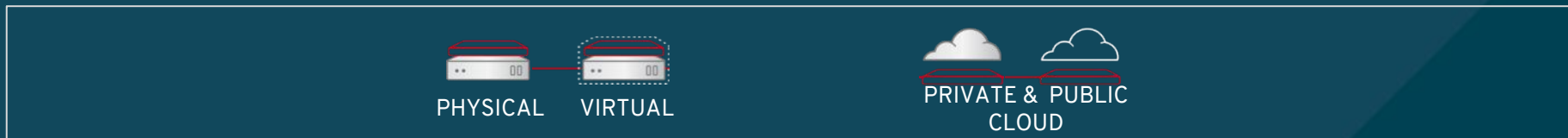
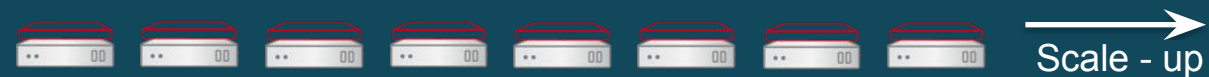
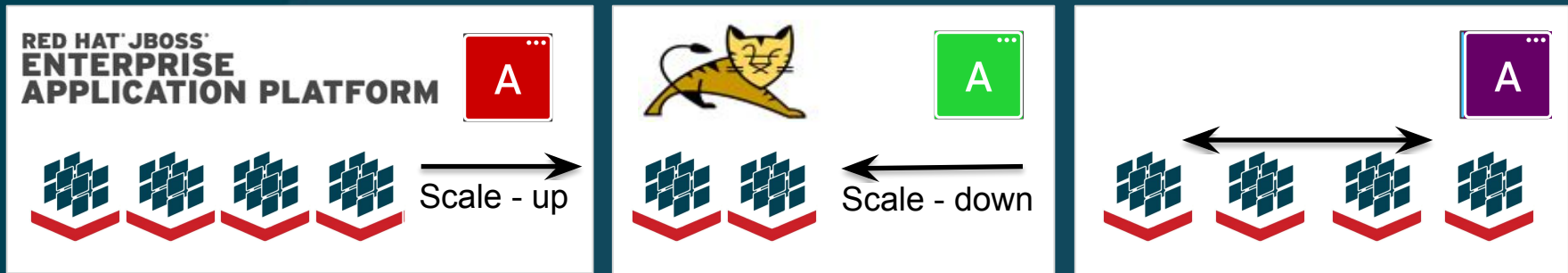
WildFly SWARM



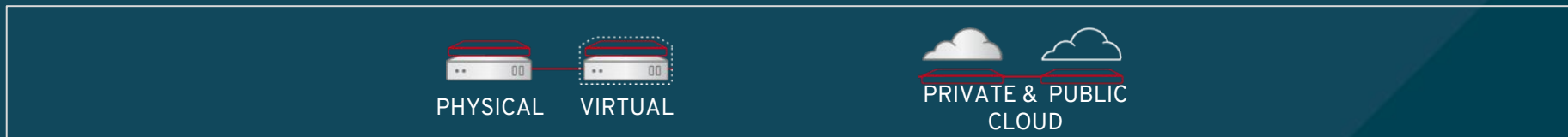
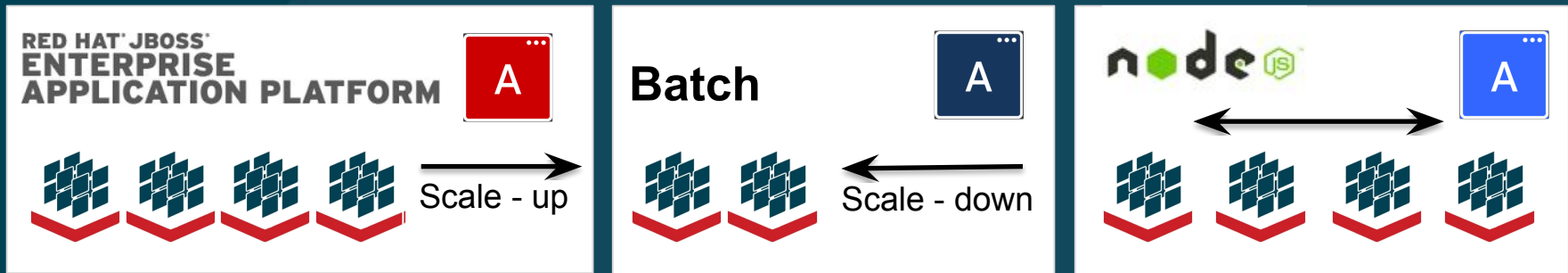
sonarqube

mongoDB.

IT resources optimization

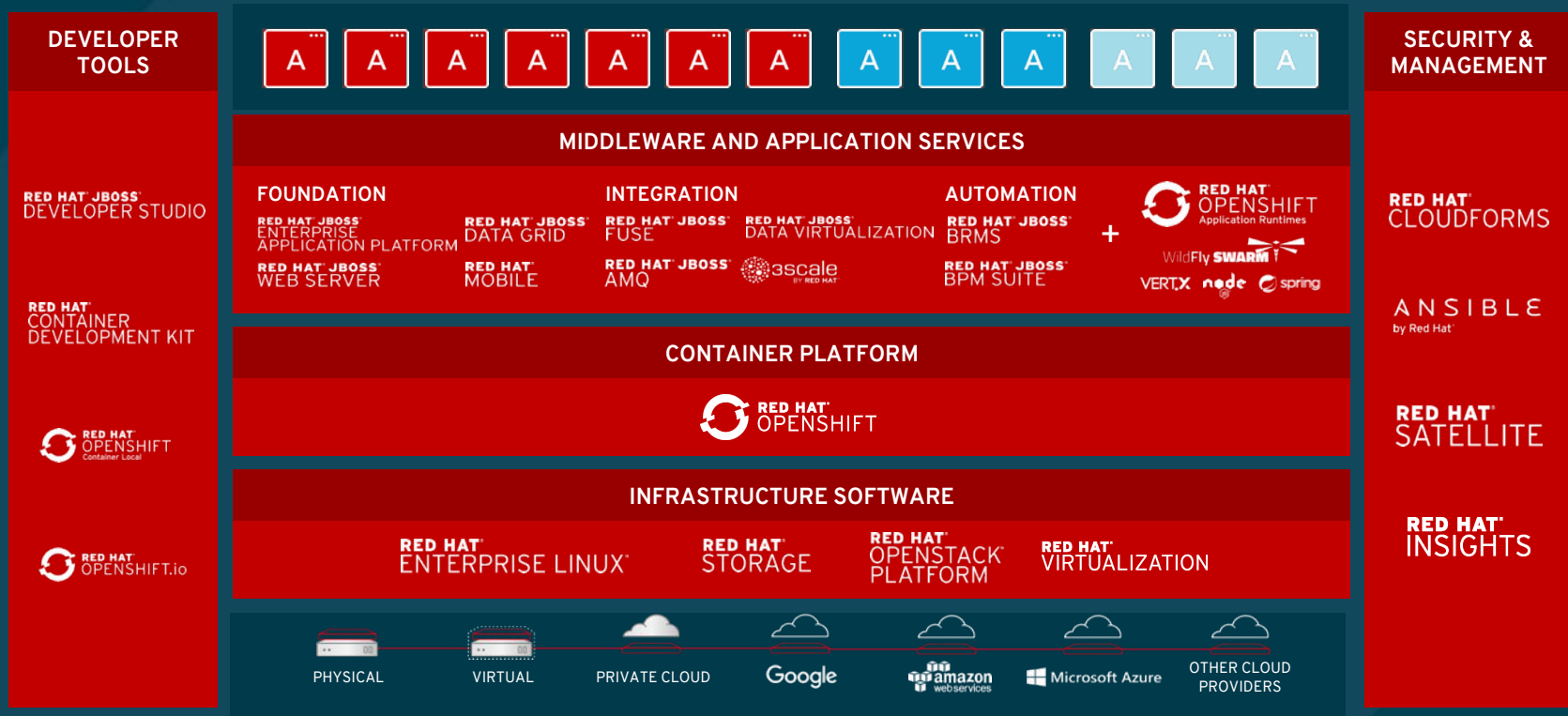


IT resources optimization

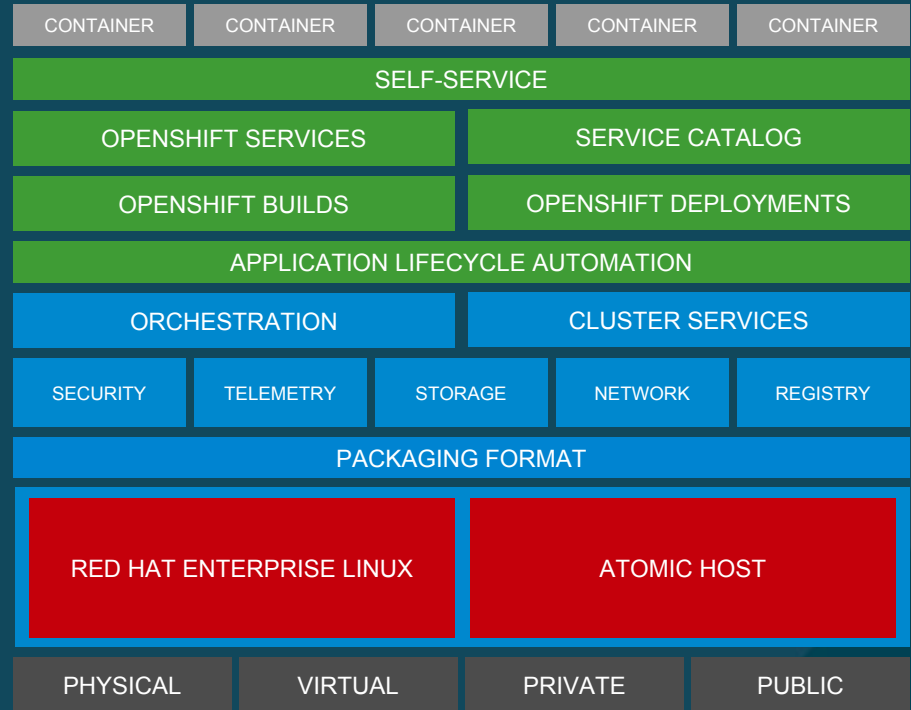
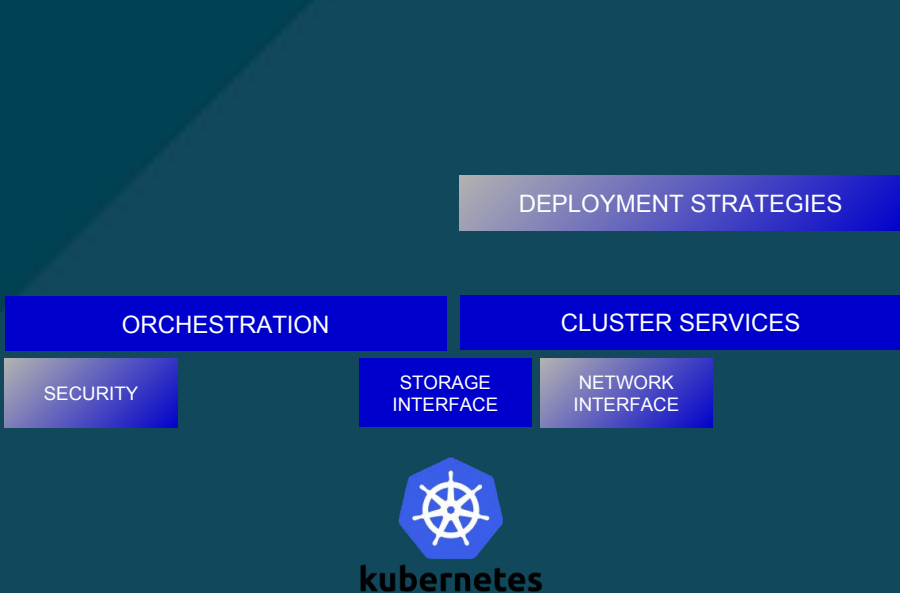


IT'S ALL THERE!

COMPLETE TECHNOLOGY STACK FOR HYBRID CLOUD



Kubernetes and OpenShift



Latest news around OpenShift



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Modern Applications

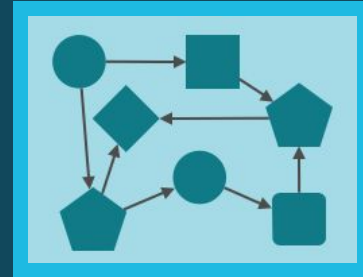
→ *Small footprint* → *Containers*



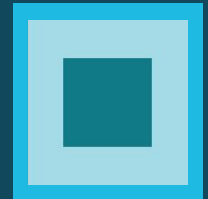
Deployment Speed

Monoliths are typically more complex to build, test and move into production.

Microservices are smaller, easier to test and therefore easier to package into containers.

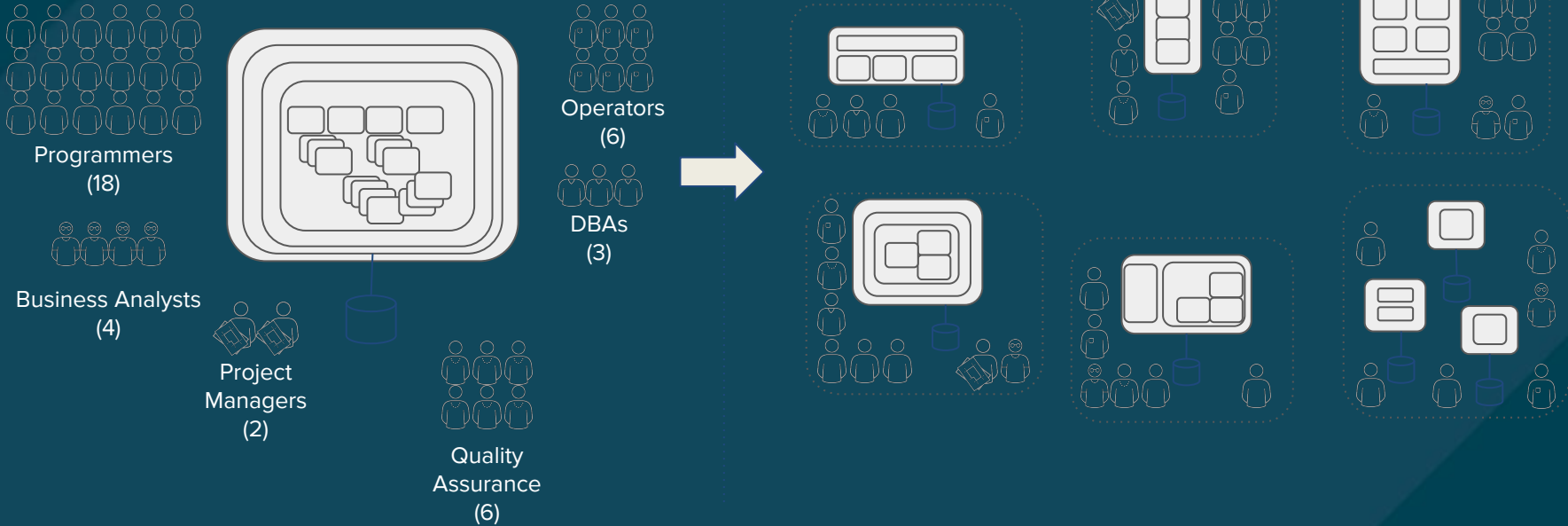


VS



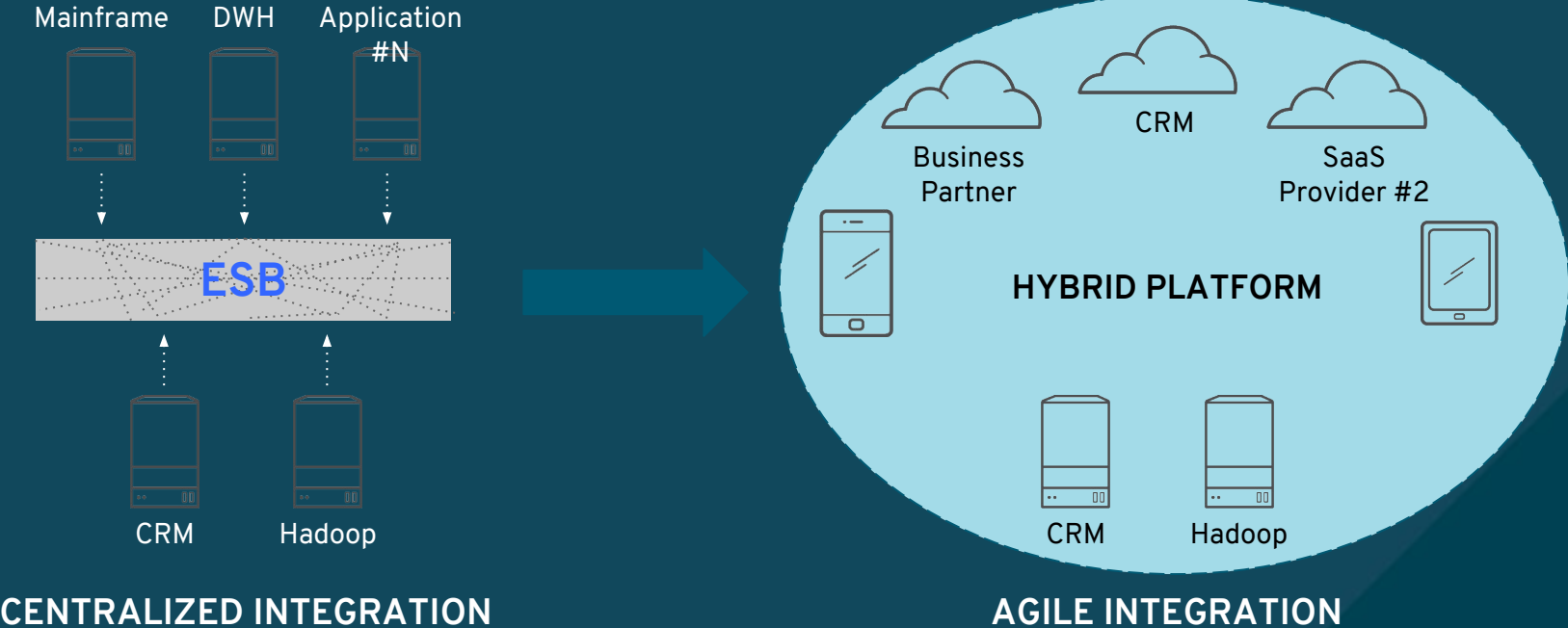
Development Speed

Using smaller teams

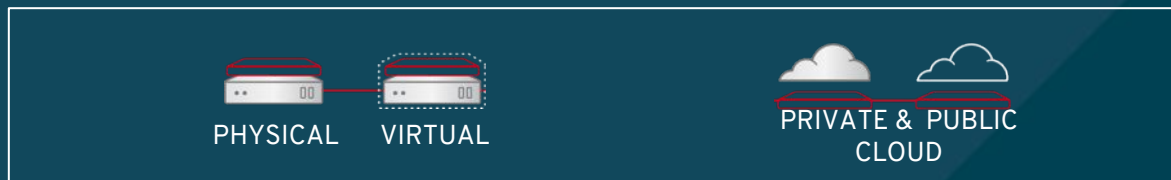
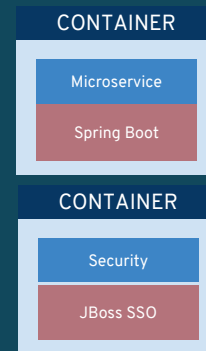
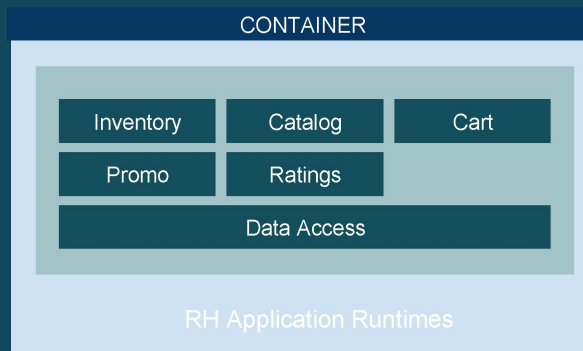
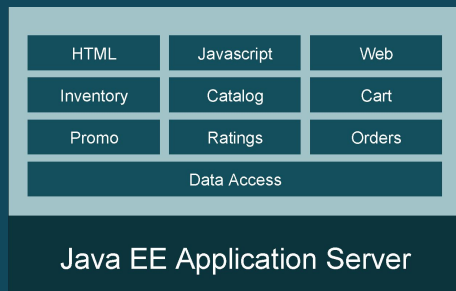


FASTER, API-ENABLED: AGILE INTEGRATION

ELIMINATES CENTRALIZED COMPLEXITY TO GIVE YOU AGILITY

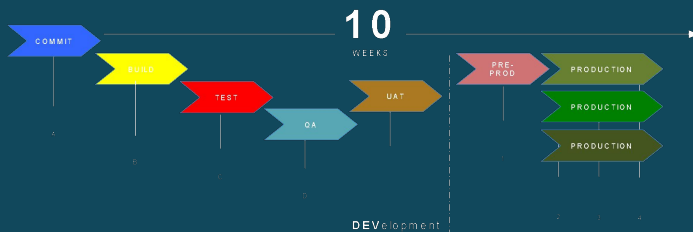
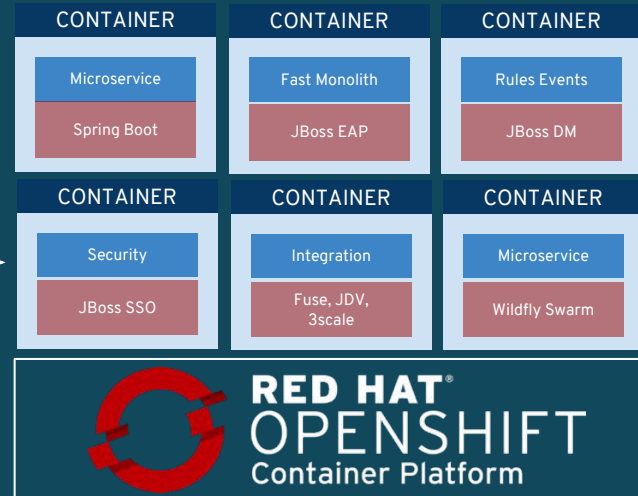
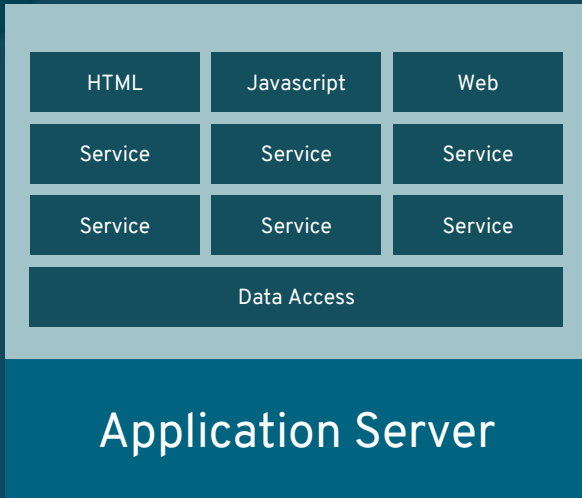


Smooth Transition



Transition to 'cloud native'

Break Up Monolith



CLOUD-NATIVE APPLICATION PLATFORMS

OPEN HYBRID CLOUD



HYBRID CLOUD INFRASTRUCTURE

Infrastructure software
across the 4 footprints, with
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CLOUD-NATIVE APP PLATFORMS

Software designed to rapidly
& efficiently develop & deploy
apps across hybrid cloud

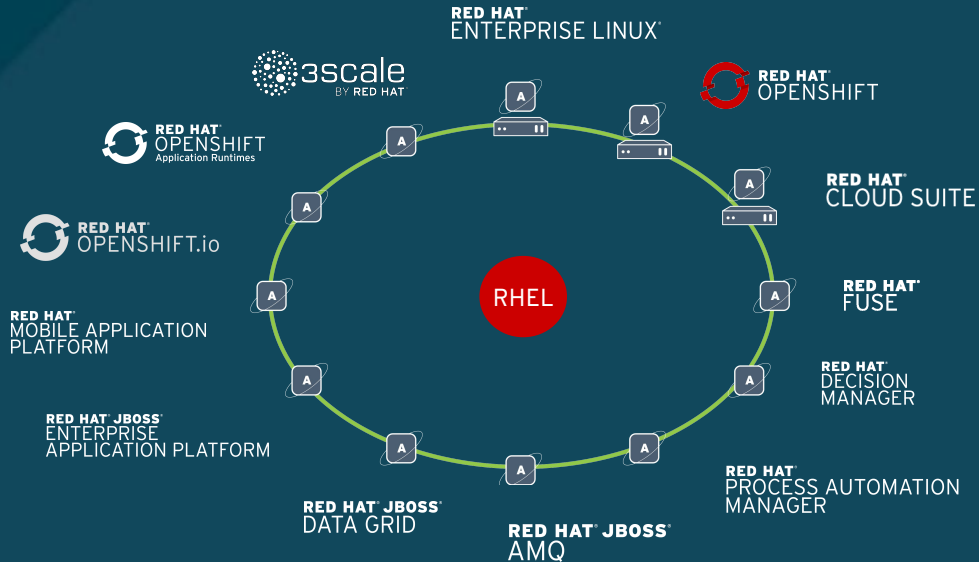


MANAGEMENT & AUTOMATION

Software designed to simplify
management & automation of
hybrid cloud environments

CLOUD-NATIVE APPLICATION PLATFORM

ENTERPRISE CONTAINERS WITH APPLICATION SERVICES



- Enterprise Kubernetes container platform built on Red Hat Enterprise Linux
- OpenShift delivered across physical, virtual, private and public cloud
- Complete application services portfolio integrated with OpenShift
- Integration and API Management to help hybrid cloud deployments
- Application modernization for any app with JBoss and OpenShift

RED HAT AMQ STREAMING

What is Apache Kafka?

- Developed at LinkedIn back in 2010, open sourced in 2011
- Designed to be fast, scalable, durable and available
- Distributed by nature
- Data partitioning (sharding)
- High throughput / low latency
- Ability to handle huge number of consumers



ENABLING MILLIONS OF APPLICATIONS WITH THE POWER OF OPENSIFT + IBM

IBM & RED HAT PROVIDE WEBSHERE & CLOUD PRIVATE INTEGRATION WITH OPENSIFT



- **IBM middleware (WebSphere, DB2, MQ) packaged as Certified RHEL Containers**
 - Millions of IBM based applications enabled for modernization with OpenShift
 - Enabling IBM's software to be integrated with cloud-native OpenShift applications
- **IBM Cloud Private and Red Hat OpenShift Container Platform integration**
 - Any IBM Cloud Private service natively available to OpenShift applications
 - IBM Services deployed in OpenShift automatically monitored, logged, and metered
- **Consistent Hybrid platform of OpenShift and IBM Cloud Private available on-premise and in the IBM Cloud**
- **Aligned consultancy and implementation services from IBM Garage and Red Hat Innovation Labs**

THE INDUSTRY'S FIRST JOINTLY MANAGED OPENSHIFT OFFERING IN THE PUBLIC CLOUD

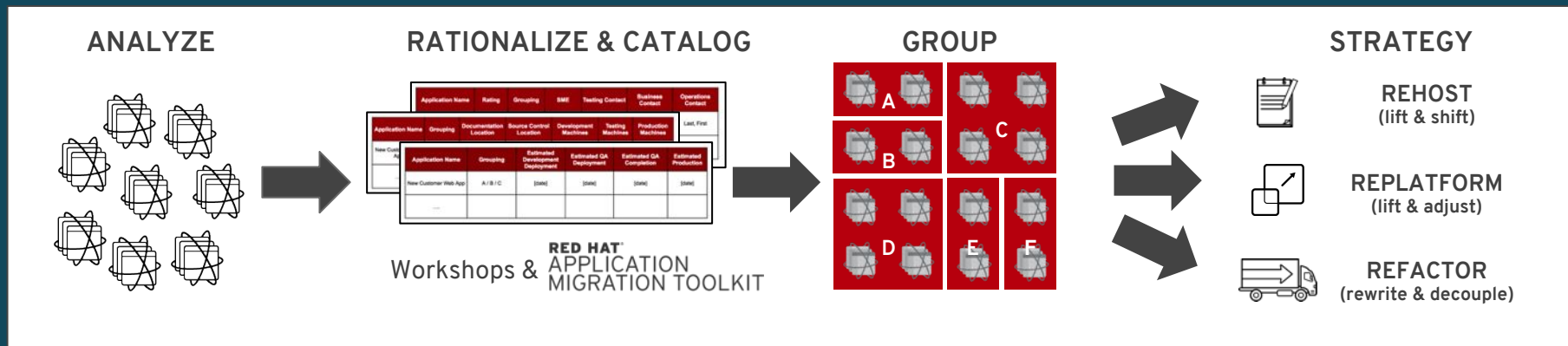
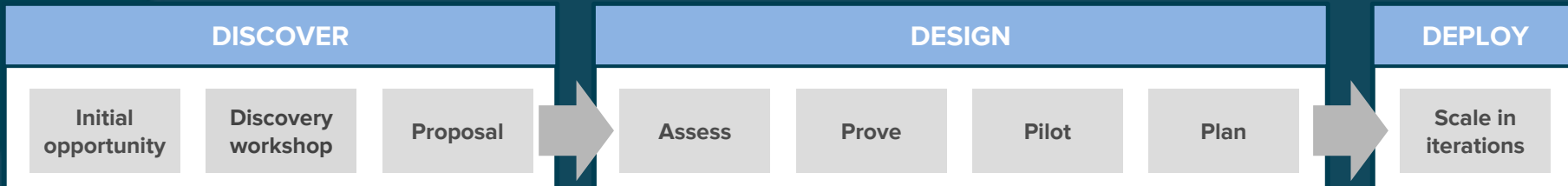
AN UNPARALLELED HYBRID CLOUD OFFERING FROM THE LEADING KUBERNETES AND LINUX
PROVIDER + LEADING CLOUD INFRASTRUCTURE PROVIDER



- **INTRODUCING [OpenShift on Microsoft Azure](#): the first jointly operated and managed OpenShift service**
- **OpenShift support on Microsoft Azure Stack**
- **OpenShift support for both Windows Container and RHEL Containers**
 - Heterogeneous containers, managed uniformly in a single container platform
- **Enhanced Developer and Application Support for OpenShift**
 - Microsoft SQL Server as a certified RHEL container for deployment in OpenShift
 - RHEL available within Visual Studio subscriptions for no additional fee

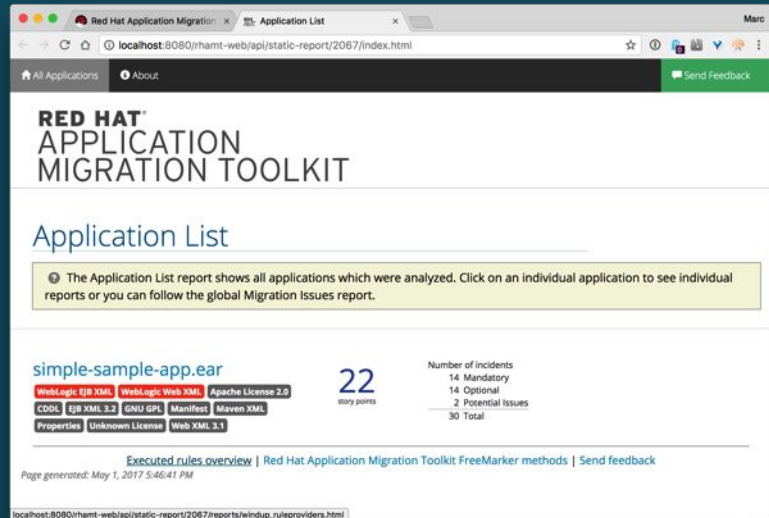
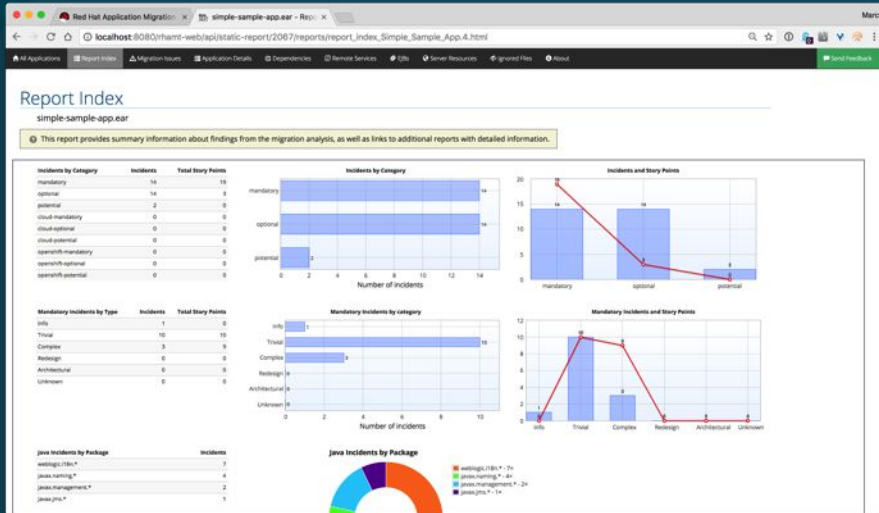
METHODOLOGY

Iterative, managed service, factory scale up.



RED HAT[®] APPLICATION MIGRATION TOOLKIT

Reports: issue type analysis and support for effort estimation



THE 3 PILLARS OF RED HAT'S BUSINESS

SUPPORTED BY A TECHNOLOGY ECOSYSTEM



We have the Linux foundation & the cloud platforms to win hybrid cloud infrastructure.



We have the leading enterprise Kubernetes container platform with middleware services to win the developer.



We have the management & automation solutions to make our portfolio sticky & easier to use.

AND THE PARTNER ECOSYSTEM ...

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redhat.

Success stories



redhat.

Success stories



redhat.

Success stories



redhat.

Success stories



redhat.

Success stories