

BECOMING A DIGITAL LEADER THROUGH CULTURE, PROCESS & TECHNOLOGY

ASHESH BADANI VP/GM, OpenShift & Containers Madrid, October 26, 2017

THE PATH TO DIGITAL LEADERSHIP

IT TAKES MORE THAN JUST TECHNOLOGY TO MOVE THE BUSINESS FORWARD



CULTURE

Collaborative Transparent Open



PROCESS

Agile Continuous Iterative



TECHNOLOGY

Open source Hybrid Connected



PROCESS CHANGES & IMPROVEMENT

AS YOU CHANGE CULTURE, UPDATE THE WAYS YOUR TEAMS CONNECT

AGILE

CONTINUOUS

ITERATIVE

AUTOMATED

"The moral is that it is necessary to innovate, to predict the needs of the customer, give him more."

W. EDWARDS DEMING



LOOK AT PROCESSES ACROSS THE BUSINESS

DEVELOPMENT, BUSINESS, AUTOMATION, & SECURITY PROCESSES



DEVELOPMENT PROCESSES



BUSINESS PROCESSES



AUTOMATION PROCESSES

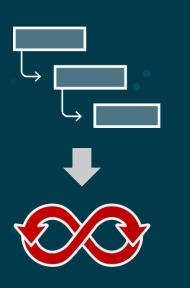


SECURITY PROCESSES



CHANGE YOUR DEVELOPMENT PROCESSES

AGILE, SCRUM, DEVOPS, CI/CD, & THE MODERN APP LIFE CYCLE



- 1. Open your culture. Transparency, collaboration, & consistency are requirements.
- 2. Automate as much as you can.
 Eliminating manual tasks gives you time to innovate.
- 3. Get the right platform. Containers are the best way to package apps for DevOps, & container platforms provide the needed automation.

DEVOPS WORKS BETTER WITH CONTAINERS

BRING TOGETHER CULTURE, DEVELOPMENT PROCESS, & MODERN TECHNOLOGY

DEVOPS



Culture centered on collaboration & openness



Uses automation to deliver applications faster



Requires a dynamic, programmable platform

CONTAINERS



Technology to package & isolate apps with the files they need to run



Reduces conflict by separating areas of responsibility



Open source way to orchestrate app development & deployment



BENEFITS OF MODERN BUSINESS PROCESSES

THEY BRING CONSISTENCY, COLLABORATION, & BETTER DECISIONS



IMPROVED ORCHESTRATION

Between systems of engagement & systems of record to help knowledge workers collaborate



INCREASED AUTOMATION

Centralize & control processes to make manual tasks & decisions consistent



ENABLED LOB

Let line of business (LoB) users participate in app development directly



DEEPER ANALYSIS

Collect & analyze data so you can present business metrics & recommended actions

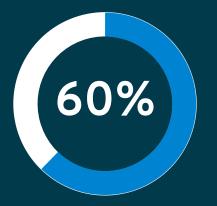
IMPROVING YOUR PROCESSES HAS REAL ROI

ONE CUSTOMER'S RETURN ON INVESTMENT AFTER UPDATING BUSINESS PROCESSES

Reduced development life cycle by



Lowered development costs



Increased market reach by





BARCLAYS ADOPTS AGILE CULTURE

PROCESS STORY: BUILDING MODERN APPS IN A MODERN ORG



A DevOps approach & a modern, self-service aPaaS environment

"We want to become the bank of the future. We want to be more dynamic in the way we produce applications & make better use of our underlying hardware & software, as well as our staff."

SIMON CASHMORE

Head of PaaS Middleware Engineering, Barclays May 2017



BARCLAYS ADOPTS DEVOPS

MODERN APPLICATIONS & AGILE PROCESSES





OUR VISION: TECHNOLOGY



MOVING TO OPEN TECHNOLOGY

GIVES YOU THE FLEXIBILITY YOU NEED FOR THE FUTURE

INTEGRATED

HYBRID

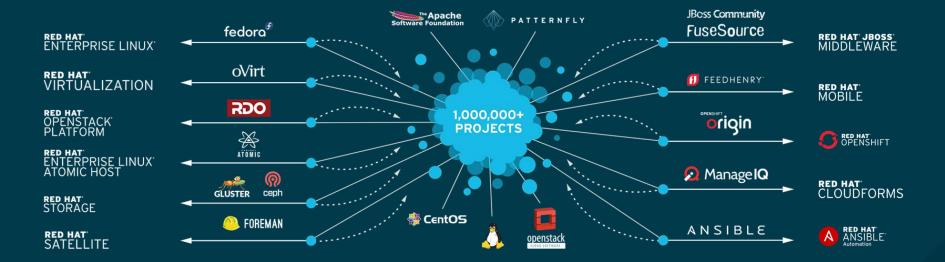
OPEN

INTEROPERABLE

Everything must work together.



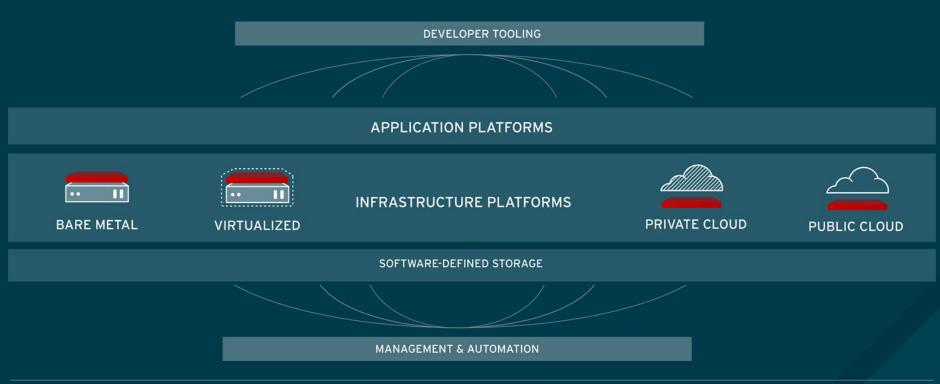
BRINGING OPEN SOURCE INNOVATION TO THE ENTERPRISE



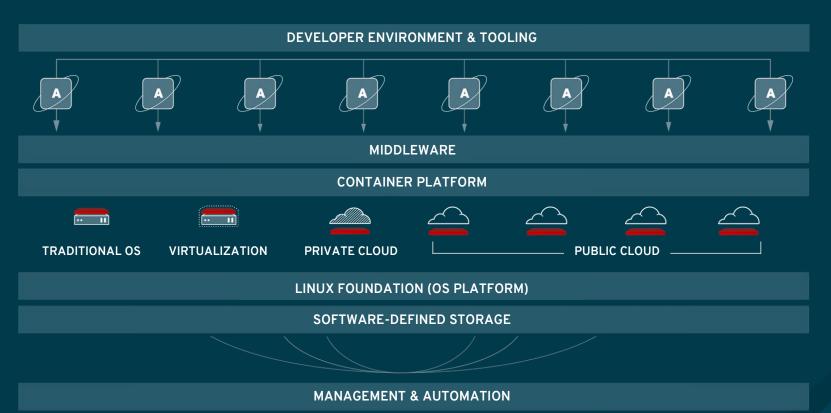


OUR TECHNOLOGY VISION IS OPEN, HYBRID CLOUD

APPS & ENVIRONMENTS ARE INTEROPERABLE & FLEXIBLE



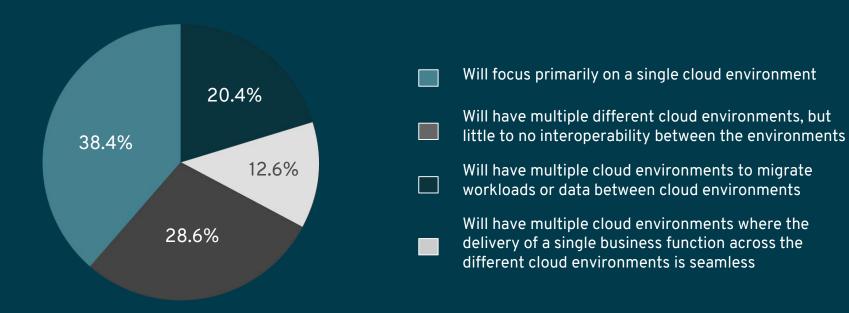
THE FUTURE IS HYBRID & MULTICLOUD





62% OF ORGS WILL BE MULTICLOUD

BUT INTEGRATION LEVELS VARY





WE'VE MADE THIS MOVE TO OPEN BEFORE

PROPRIETARY UNIX



PROPRIETARY MIDDLEWARE

PROPRIETARY SINGLE CLOUDS

RED HAT' ENTERPRISE LINUX'

RED HAT JBOSS MIDDLEWARE



OPEN HYBRID CLOUD



BMW GROUP LOOKS TO SERVICES FOR SPEED

TECHNOLOGY STORY: HYBRID CLOUD WITH MICROSERVICES, CONTAINERS, DEVOPS



Built a container-centric hybrid cloud platform using agile DevOps methodologies

- Point scaling handles fluctuating demand for BMW ConnectedDrive
- Reliable, continuous service for drivers



THE JOURNEY TO OPEN HYBRID CLOUD



IT'S A DIFFERENT JOURNEY FOR EVERYONE

BUT HERE'S WHAT IT LOOKS LIKE FOR ONE FINANCIAL SERVICES CUSTOMER

STANDARDIZED OPERATING ENVIRONMENT

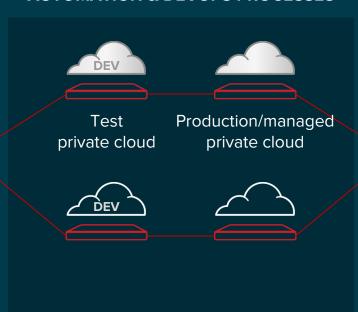


Traditional physical environment



Strategic virtualization

AUTOMATION & DEVOPS PROCESSES



CONTAINERS FOR EVERYTHING



Strategic hybrid cloud infrastructure



HOW WE GET THERE



LINUX FOUNDATION
ACROSS ALL
ENVIRONMENTS



HYBRID CLOUD INFRASTRUCTURE & MANAGEMENT



CONTAINERS & CLOUD-NATIVE APP PLATFORMS



COMMON OPERATING PLATFORM



RED HAT ENTERPRISE LINUX

- A common foundation for Red Hat platforms
- The first step toward cloud-based infrastructure, platforms, and applications
- Part of traditional OS, virtualization, private cloud, and all public clouds



OPEN HYBRID CLOUD INFRASTRUCTURE



HYBRID CLOUD

- The best approach to cloud computing
- A secure environment, managed across multiple footprints
- Presence of multiple vendors prevents public cloud <u>lock-in</u>



CONTAINERS ARE LINUX



- Next-generation application platform for existing and new apps
- Portable across the hybrid cloud
- Container companies must be Linux companies



ARCHITECTURAL "FABRIC" CONSIDERATIONS







STANDARD OPERATING PLATFORMS & PROCESSES

HYBRID CLOUD INFRASTRUCTURE & MANAGEMENT

CONTAINERS & CLOUD-NATIVE APP PLATFORMS

AUTOMATION / ANSIBLE

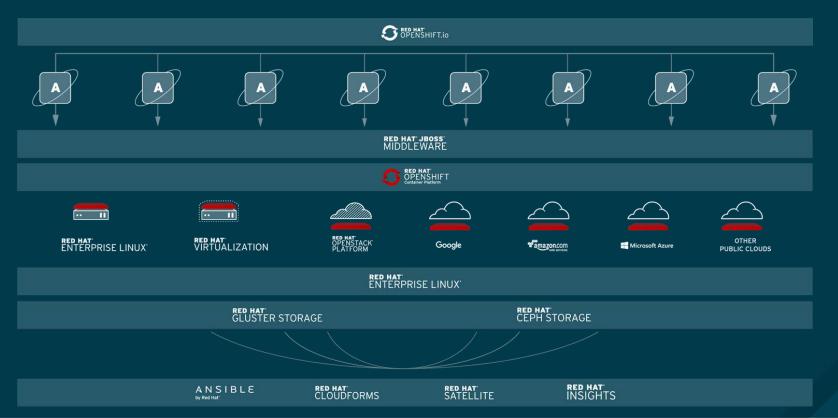
ORCHESTRATION / KUBERNETES

CONTAINERS / LINUX

VIRTUALIZATION / KVM



THE RED HAT PORTFOLIO





INFRASTRUCTURE

STANDARDS-BASED, OPEN SOURCE SOLUTIONS



RED HAT ENTERPRISE LINUX

Operating system (OS) foundation for infrastructure and apps



RED HAT VIRTUALIZATION

Flexible virtualization built on Linux



RED HAT OPENSTACK PLATFORM

Datacenter software for building private cloud



RED HAT OPENSHIFT

Container platform for developing, hosting cloud-native applications



RED HAT STORAGE

Scale-out, software-defined storage spanning the hybrid cloud



APPLICATION PLATFORMS

MODERNIZE, BUILD, & MANAGE WHAT USERS NEED



RED HAT JBOSS EAP

Modernize & build applications using Java EE™ tools & frameworks



RED HAT OPENSHIFT CONTAINER PLATFORM

Develop, test, & host enterprise cloud applications consistently



OPENSHIFT.io

Plan & build cloud services in a complete development environment (IDE) with a hosted, integrated toolchain



RED HAT MOBILE PLATFORM

Develop & deploy mobile apps using open, standard toolkits—while centralizing control over security, integration, & policy



MIDDLEWARE

INTEGRATE, AUTOMATE, & ACCELERATE DATA, APPLICATIONS, & PROCESSES



INTEGRATION

Red Hat JBoss® Fuse

Red Hat JBoss AMQ

Red Hat 3scale API Management



AUTOMATION

Red Hat JBoss BPM Suite
Red Hat JBoss BRMS



DATA MANAGEMENT

Red Hat JBoss Data Grid

Red Hat JBoss Data Virtualization



APPLICATION SERVICES

Red Hat JBoss Enterprise Application Platform

> Red Hat JBoss Developer Studio

Red Hat OpenShift Application Runtimes



MANAGEMENT & AUTOMATION

FOR THE MODERN ENTERPRISE



RED HAT CLOUDFORMS

Deliver services across hybrid cloud environments



RED HAT INSIGHTS

Proactively identify problems & prevent critical issues



RED HAT SATELLITE

Easily maintain & update your Red Hat environment



RED HAT ANSIBLE AUTOMATION

Automate IT processes & centralize governance



COMPREHENSIVE SERVICES

WE CAN HELP YOU, NO MATTER WHERE YOU ARE (OR WHAT YOU NEED)



TRAINING & CERTIFICATION

Hands-on certifications & exams for 40+ courses, including automation & containers



SUPPORT

Tools, planning, & support are available 24x7 through our award-winning Customer Portal



CONSULTING

Design through project management to align process & IT, with on-site or remote delivery



HARDWARE, SOFTWARE, & CLOUD CERTIFICATION

Certified public cloud providers, hardware platforms, apps, & containers



OPEN INNOVATION LABS

A HANDS-ON ENVIRONMENT FOR RAPID INNOVATION & REAL BUSINESS RESULTS



EXPERIMENT

Rapidly build prototypes, do DevOps, & be agile



IMMERSE YOUR TEAM

Work side-by-side with experts in a residency-style engagement



INNOVATE

Bring modern application development back to your team

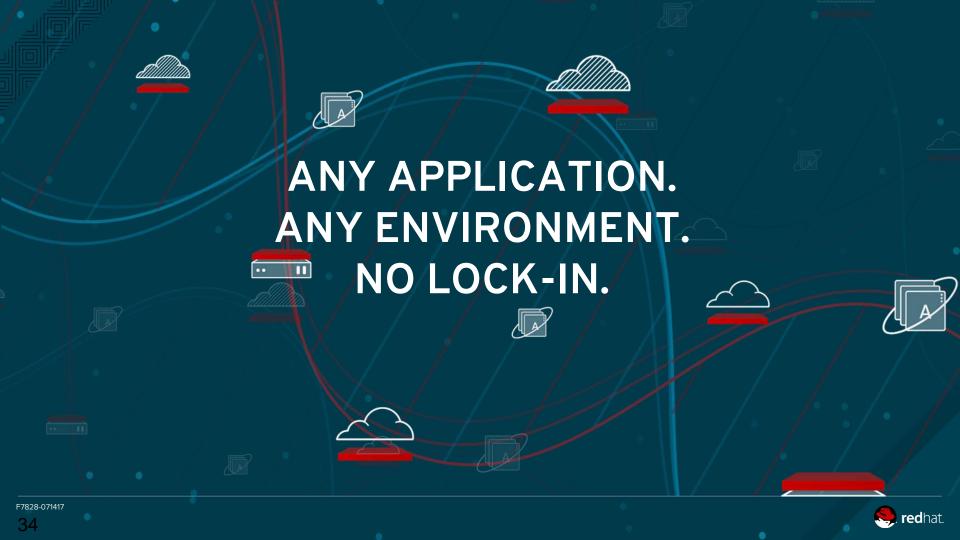


easiER AG CREATES BETTER PATIENT EXPERIENCE

USING OPEN SOURCE CULTURE FOR FAST INNOVATION

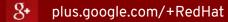








THANK YOU











OUR SUBSCRIPTION MODEL

DELIVERS CONTINUOUS VALUE





KNOWLEDGE









CUSTOMER PORTAL

Award-winning

knowledgebase of

solutions, docs, &

technical guidance

Our expertise, plus the knowledge of customers, partners, & communities WORLD WIDE

We have support centers & offices across the globe, & materials in multiple languages CERTIFICATION

Employers recognize the value of Red Hat training & certification PRODUCT SECURITY

Dedicated teams of experts monitor, identify, & remediate potential threats EXTENDED LIFE CYCLE

Extended life phase or extended life-cycle support subscriptions may be available

