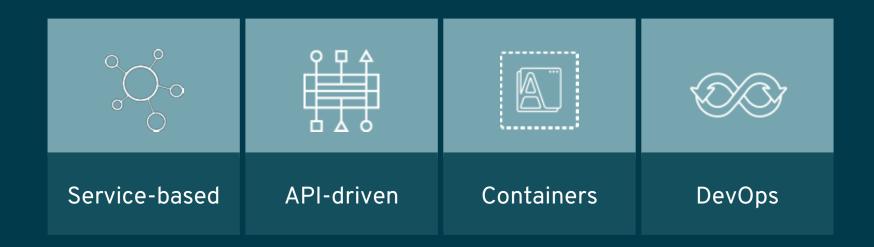


TIPPS ZUR OPTIMALEN EINFÜHRUNG VON CLOUD-NATIVE TECHNOLOGIEN

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WHAT IS CLOUD-NATIVE APPLICATION DEVELOPMENT?



AN APPROACH TO BUILDING AND DEPLOYING APPLICATIONS UTILIZING THE ADVANTAGES OF THE CLOUD COMPUTING MODEL



WHY SHOULD YOU CARE?

CLOUD-NATIVE DELIVERS BUSINESS VALUE

AGILITY AS A COMPETITIVE ADVANTAGE

Cloud-native enables faster software delivery and rapid response to market changes INCREASE RESILIENCE AND QUALITY

Cloud-native pushes teams to build resilient services with quality in mind EXPERIMENT AS
A KEY TO
INNOVATION

Cloud-native reduces idea-to-prod cycles and enables experimentation



DIGITAL LEADERS ARE HIGH PERFORMERS

I.T. THROUGHPUT MEANS MOVING QUICKLY TO ANSWER DEMAND

High-performing organizations deploy code

46x

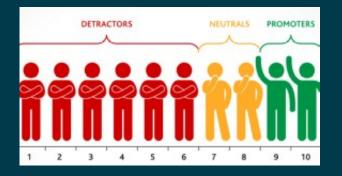
more frequently than low-performing ones



NEW BUSINESS METRICS

- Net Promoter Scores
- App Store Ratings
- Peer Reviews
- Employee Engagement
- Social Media Sentiment







glassdoor



RED HAT PORTFOLIO FOR CLOUD-NATIVE APPLICATION DEVELOPMENT

OpenShift is the common platform that spans all cloud footprints

Modern application runtimes, certified partner solutions and cloud service integration

Developer tools for modern application development

Comprehensive consulting services and Open Innovation Lab



HOW DO WE GET THERE?

LESSONS LEARNED FROM LONG-TERM RED HAT OPENSHIFT CUSTOMERS



DEVOPS



- → Truly adopt DevOps... it takes time!
- → Small Cross-functional Product Teams
- → Automate Everything
- → Start Small, Expand with Success



VALUE STREAM MAPPING ACCELERATE BUSINESS PROCESSES

Value-stream mapping is a lean-management method for analyzing the current state and designing a future state for the series of events that take a product or service from its beginning through to the customer.



"We removed 4 weeks from a process by rethinking how things are done." -Major EU FinServ



MOVE TO HYBRID AND MULTI CLOUD



- → Improve Regional Performance
- → Mitigate Risks
- → Balance Costs
- → Change the Disaster Recovery Game











INTERNAL EVANGELISM AND EDUCATION



Drive adoption of Containers & Cloud-Native App Dev through proactive outreach.

- → Launch days
- → Hackathons
- → Genius-bars
- → Office-hours bridges
- → Marketing videos
- → Buy-in across all the LOB's





COMMON PITFALLS & MISTAKES TO AVOID

LACK OF EXECUTIVE SUPPORT

LACK OF TEAM BUY-IN

LACK OF PLANNING

DIY APPROACH

Container- and cloud-native technologies are transformative and require executive sponsorship

Recommendations from developers and/or IT Ops teams are ignored and/or a different vendor solution is forced onto them

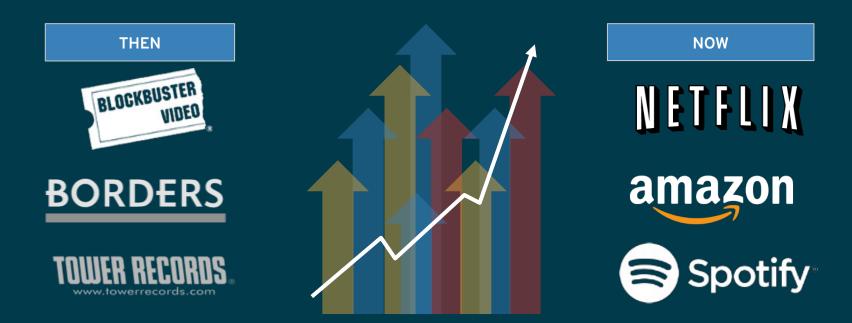
No clear goals or purpose, success criteria and plans beyond initial deployment leads to shelfware and empty clusters

Building and maintaining open source projects on your own is a wasted effort





THE CHANGING DIGITAL BUSINESS



Fundamental change is required to remain relevant.



HOW WE THINK ABOUT IT

What got us here won't get us there - fundamental change is required to remain relevant.

the Why

We believe Open Hybrid Cloud will enable us to...

- match the speed and adaptability demands of the digital business
- improve availability, resiliency and durability of our digital systems

while we continue to reduce operating expense.

the How

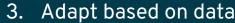
How we get there:



- 1. Think business first
- 2. Guide work via a roadmap

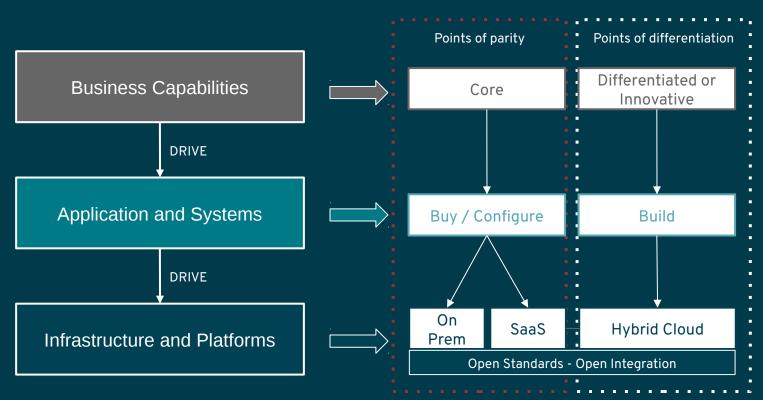








OUR APPROACH TO DIGITAL BUSINESS











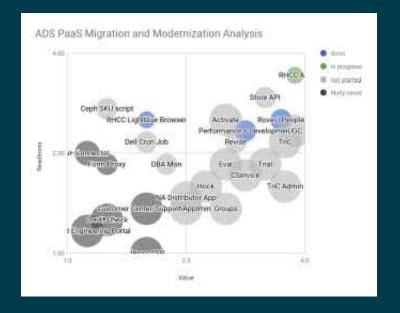


HOW TO IDENTIFY & PRIORITIZE APPLICATIONS

REWRITE, REPLATFORM OR DO NOTHING?

Assess value and readiness of each application

- Value criteria
 - O Change rate
 - O Lifespan
- Readiness criteria
 - Business criticality
 - Business support
 - Architectural gaps

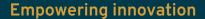


^{*} Note: specific use cases like EOL hardware or constraints on OS upgrades (e.g.) may justify a re-platforming approach and yield other technical benefits.



OPENSHIFT DEPLOYMENTS @ RED HAT





Why: Innovation

Who: Any associate

What: Single cluster, public cloud

How Much: 1000+ apps



Development & Delivery Pipeline

Why: PnT Development & Build

Who: PnT primarily

What: Single cluster in DC

How Much: 689 projects across

34,530 containers



Mission-critical workloads

Why: enterprise availability

Who: mission-critical systems

What: 3x multi-site clusters

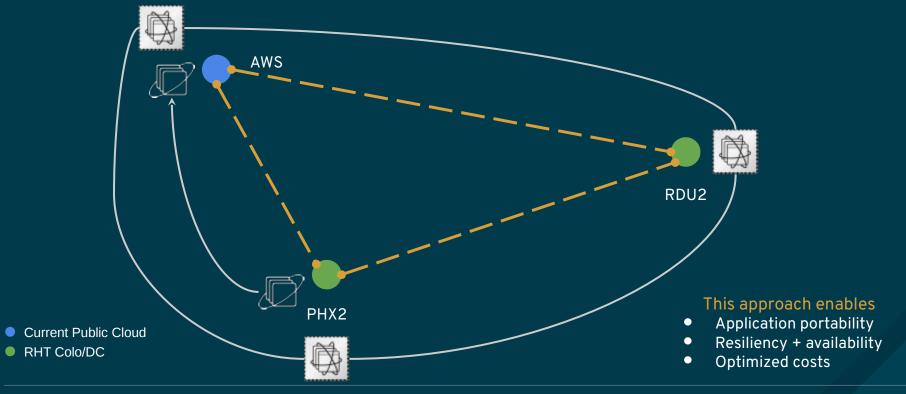
How Much: 125+ apps, including

customer facing



OPEN HYBRID CLOUD IN ACTION

Multi-site active workloads across the globe for key data and business function services. (diagram is illustrative only)







OUR CONTAINER ENVIRONMENT

ADOPTION RESULTS



GAIN EFFICIENCY

~55% lower infrastructure footprint per application



IMPROVE SECURITY

Automatic platform + image rebuilds weekly and automatic CVEtriggered rebuilds



INCREASE RESILIENCE

Multi-site-active, hybrid cloud deployment = zero downtime



15 Minutes to deploy app changes.



RED HAT SERVICES AVAILABLE TO YOU

RED HAT OPEN INNOVATION LABS



EXPERIMENTRapidly build prototypes, do DevOps, and be agile.



CATALYZE INNOVATION Bring modern application development back to your team.



IMMERSE YOUR TEAM

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

TO SHOW YOUR TEAMS HOW OPENSHIFT AND MODERN DEVELOPMENT PRACTICES CAN DRIVE INNOVATION: START WITH A 4- TO 12-WEEK LABS RESIDENCY

RED HAT CONTAINER ADOPTION PROGRAM









FRAMEWORK FOR SUCCESSFUL CONTAINER ADOPTION AND I.T. TRANSFORMATION:

Mentoring, training, and side-by-side collaboration to:

- •Create a production platform and team to run it
- Create end-to-end, container-driven deployment automation
- Scale application onboarding expertise
- •Guide new Kubernetes-native development
- Align business with IT through included Red Hat Open Innovation Labs

TO BEGIN A COMPREHENSIVE PROGRAM (INCLUDING OPEN INNOVATION LABS): START WITH THE 12-WEEK





THANK YOU

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