



MODERN APPLICATION DEVELOPMENT HAS CHANGED, HAVE YOU?

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BACKGROUND AND CONTEXT

“IT Does not matter”

Nicolas G. Carr Harvard Business Review, May 2003

“Every company is now a technology company.”

Joe McKendrickForbes.com, April 2015

“Every company is now a software company.”

U. C IrvineHarvard Business Review, April 2016

Code has no business value until it's deployed.



Digital disruption will wipe out 40% of Fortune 500 firms in next 10 years, say c-suite execs.

HIGH PERFORMERS

...are decisively outperforming their lower performing peers.

200X

More
deployments

3X

Lower change rate
failure

24X

Faster recovery
from failure

STATE OF DEVOPS REPORT

...and the pace is accelerating.

46X

46X More
Deployments

5X

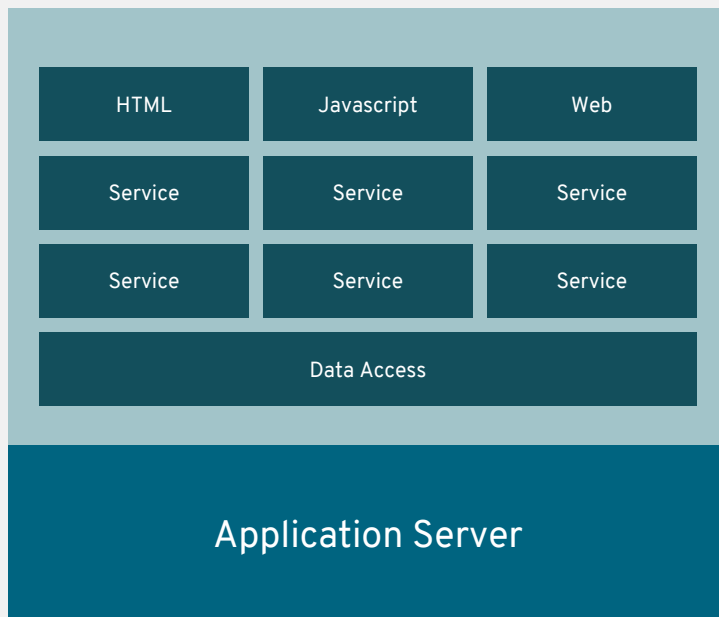
5X Lower Change
Rate Failure

96X

96X Faster Recovery
from Failure

Source: 2017 State of DevOps Report PuppetLabs

MONOLITHIC ARCHITECTURE





CLOUD-NATIVE APPS

BUILDING APPLICATIONS

FOR THE CLOUD

WHY CLOUD-NATIVE APPS?



**FASTER
SERVICE DELIVERY**

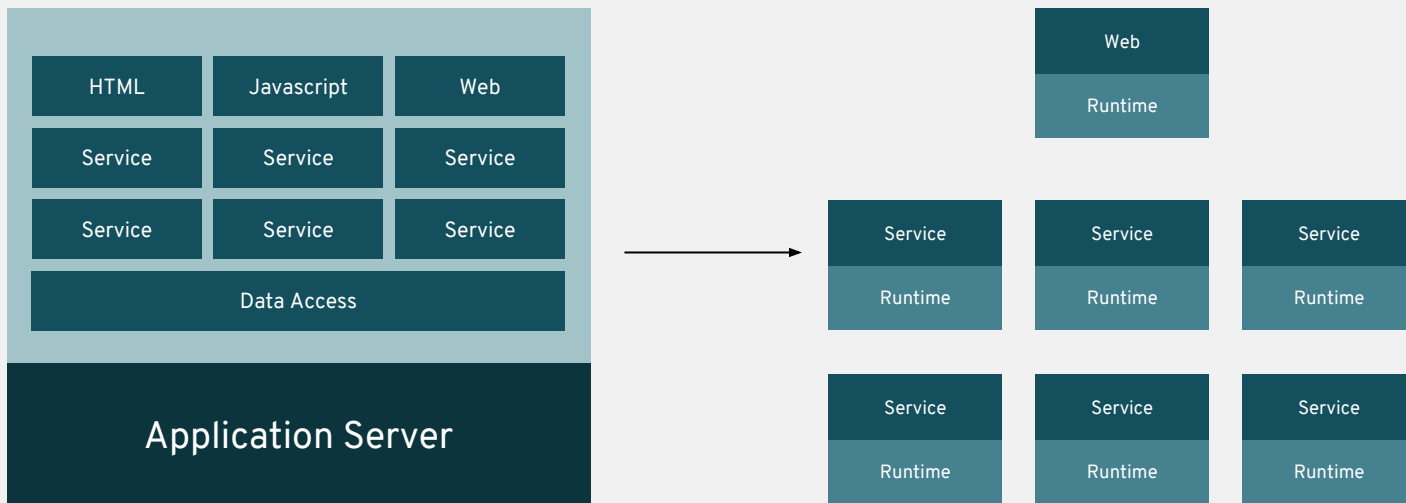


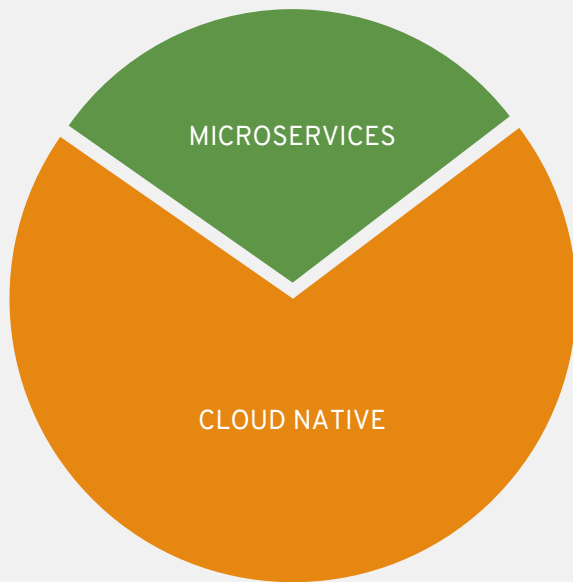
**INCREASE
SERVICE QUALITY**



**REDUCE
RISK OF DELIVERY**

MICROSERVICES ARCHITECTURE





CLOUD-NATIVE IS
MUCH MORE THAN
YOUR APPLICATION
ARCHITECTURE

THE PATH TO CLOUD-NATIVE APPS

A DIGITAL DARWINISM

RE-ORG TO
DEVOPS

SELF-SERVICE
ON-DEMAND
INFRA

AUTOMATION

CONTINUOUS
DELIVERY

ADVANCED
DEPLOYMENT
TECHNIQUES

MICROSERVICES

AND ONLY
THEN!

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.....
FAST
MONOLITH

THE FAST MONOLITH

- Refactored to REST and JavaScript
- Adopted Container on Red Hat OpenShift
- Automated Testing
- Redefined Dev and Ops Boundaries
- Continuous Deployment Pipeline
- Zero Downtime Release to Production
- Release Cycles From 3 months to 1 Week



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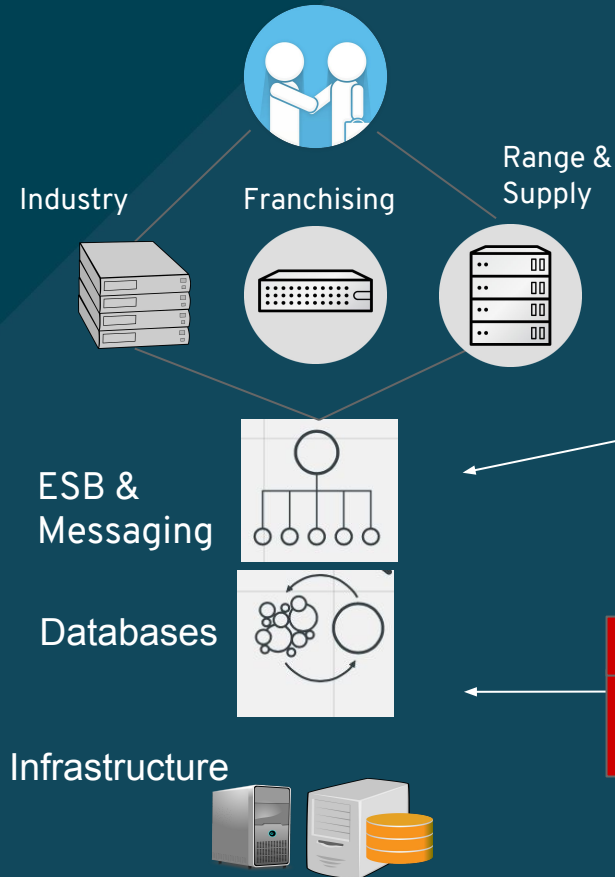
BUT CLOUD NATIVE ISN'T JUST TECHNOLOGY

“ Cloud Native is structuring
teams, culture, and technology
to utilize automation and architectures to
manage complexity and unlock velocity ”

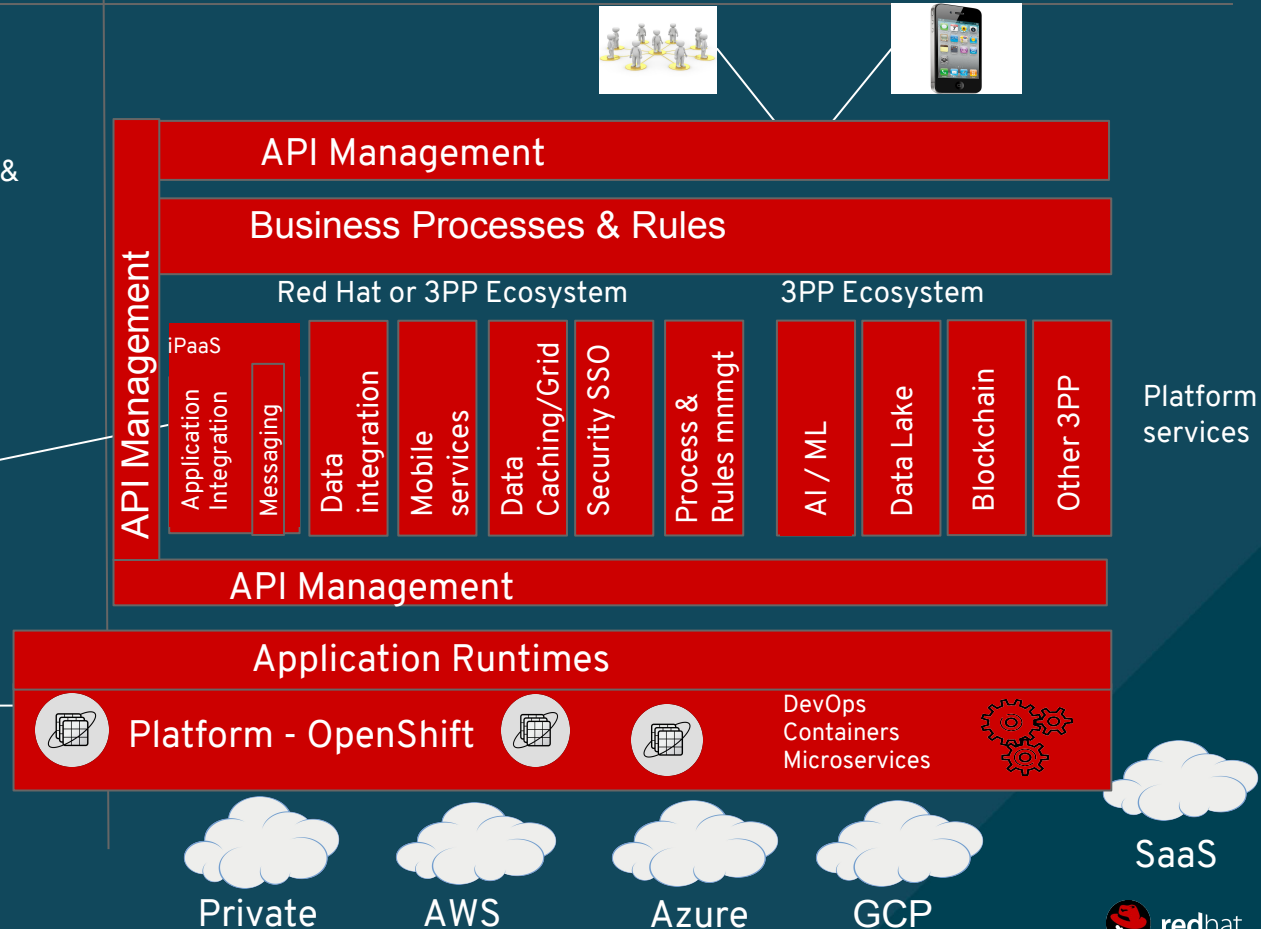
- Joe Beda, CTO of Heptio

An evolutionary approach to Innovation

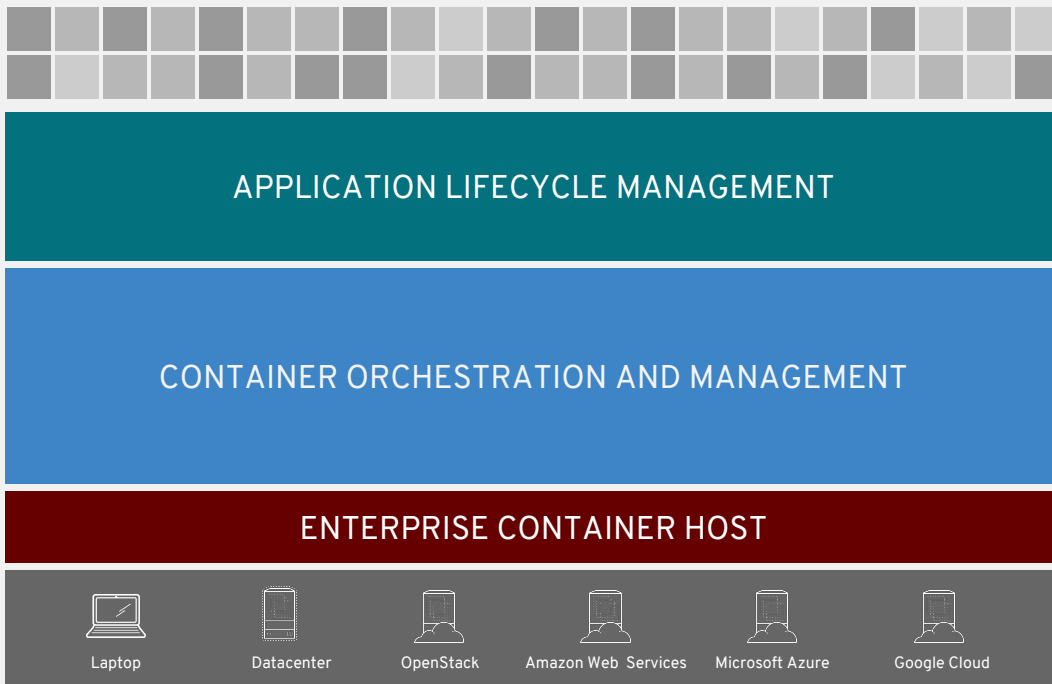
Mode 1: Systems of Record



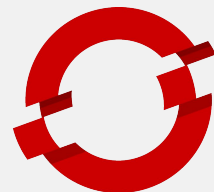
Mode 2: Systems of Innovation / Engagement



CLOUD-NATIVE CAPABILITIES WITH RED HAT OPENSIFT



ANY
CONTAINER



RED HAT
OPENSIFT

ANY
INFRASTRUCTURE

COMMUNITY-POWERED INNOVATION



RED HAT®
OPENSIFT
Container Platform

Build and host apps anywhere you want: laptop, datacenter, cloud



RED HAT®
OPENSIFT
Dedicated

Build apps in a dedicated public cloud managed by Red Hat



RED HAT®
OPENSIFT
Online

Focus on your apps, Red Hat manages the rest in public cloud





THE POWER OF THE **OPENSIFT ECOSYSTEM**

RED HAT PORTFOLIO

Optimized for Containers

RED HAT[®]
OPENSIFT
Application Runtimes

RED HAT[®]
JBoss[®]
WEB SERVER

RED HAT[®]
JBoss[®]
ENTERPRISE
APPLICATION PLATFORM

RED HAT[®]
DATA GRID

RED HAT[®]
AMQ

RED HAT[®]
FUSE

RED HAT[®]
MOBILE

RED HAT[®]
ANSIBLE[®]
Engine

RED HAT[®]
QUAY
CONTAINER
REGISTRY

RED HAT[®]
DECISION
MANAGER

RED HAT[®]
PROCESS AUTOMATION
MANAGER

RED HAT[®]
3SCALE[®]
API MANAGEMENT

RED HAT[®]
OPENSIFT
Container Storage

THIRD-PARTY ISV

Red Hat Container Catalog (200+ certified)

IBM

Microsoft

SAP

New Relic

Couchbase

CRUNCHY
Enterprise PostgreSQL

Sysdig

f5

VERITAS

ZABBIX

NetApp

Sonatype

JFrog

dynatrace

nuagenetworks

CLOUD SERVICES

Open Service Broker

amazon
web services

Microsoft Azure



Google Cloud



RED HAT ENTERPRISE LINUX ECOSYSTEM

Hardware, Virtualization, Cloud and Service Provider Certifications

OPPORTUNITIES FOR CHANGE

Application Modernization and Migration

CORE MIGRATION

EXISTING & NEW
WORKLOADS

APPLICATION
SERVERS

ESB & INTEGRATION
PLATFORMS

BPM & DECISION
MANAGEMENT

APPLICATION
INFRASTRUCTURE

MODERNIZATION INITIATIVES

ENABLING BUSINESS
VELOCITY

BETTER
SOFTWARE
ARCHITECTURE

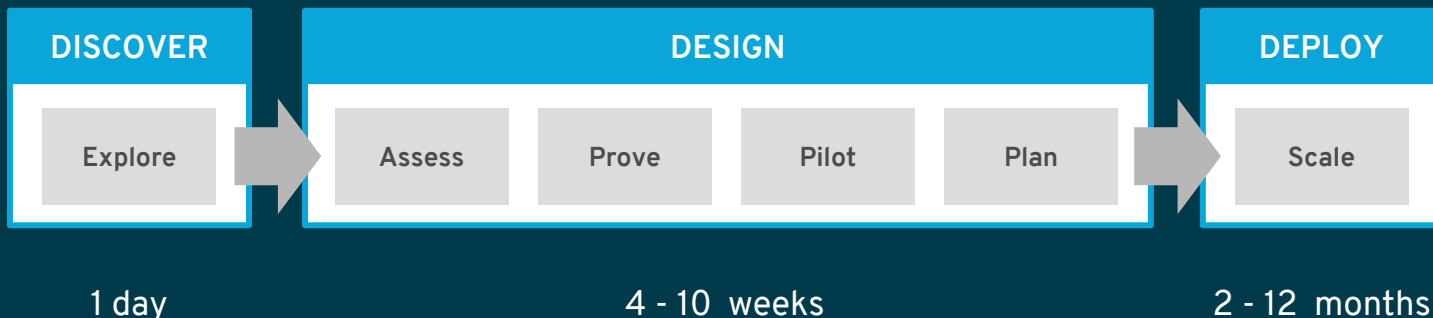
AGILE
INTEGRATION

STREAMLINE
APPLICATION
LIFECYCLE

CONTINUOUS
INNOVATION

METHODOLOGY

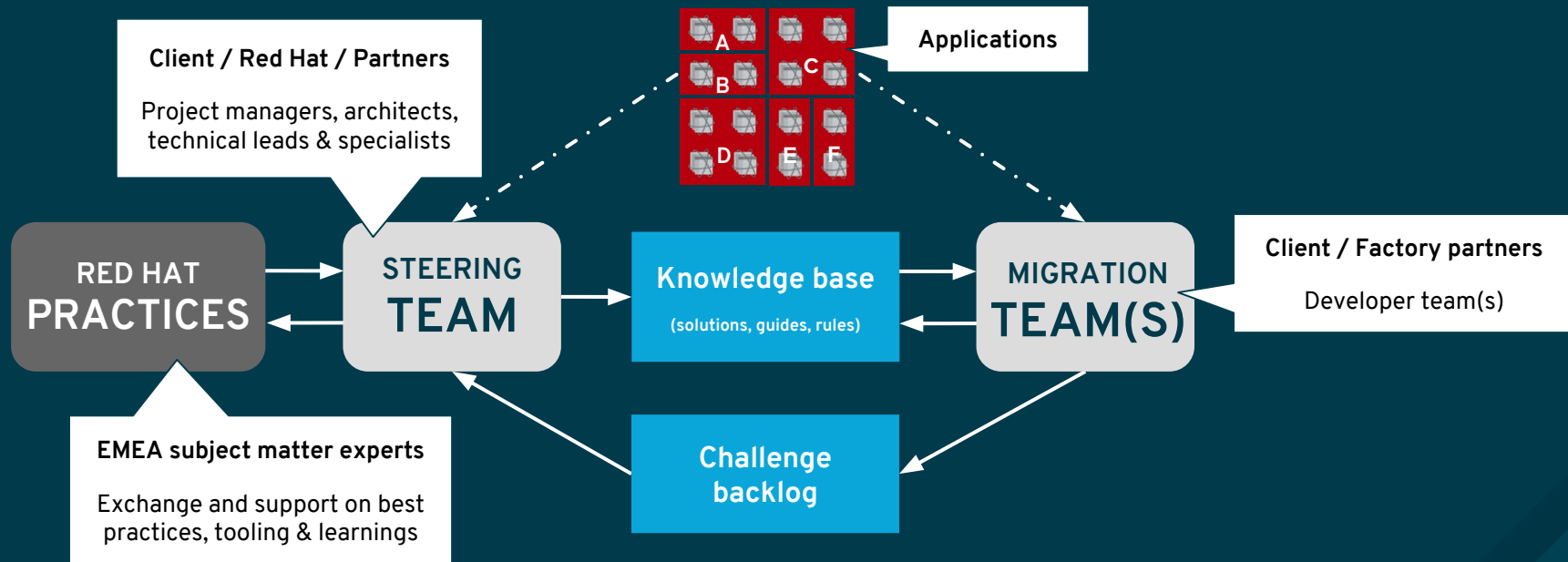
Iterative, managed service, factory scale up.



- Standard, proven, modular, repeatable, pragmatic methodology
- Step by step, low risk and highly efficient
- Scale up by leveraging collaboration with clients and partners

FACTORY DELIVERY MODEL

Project team structure & collaboration strategy





An immersive residency for teams of 3-6 people
to rapidly build applications,
experience Devops,
and learn how to develop cloud native apps



THANK YOU



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linkedin.com/company/red-hat



twitter.com/RedHatNews



youtube.com/user/RedHatVideos