

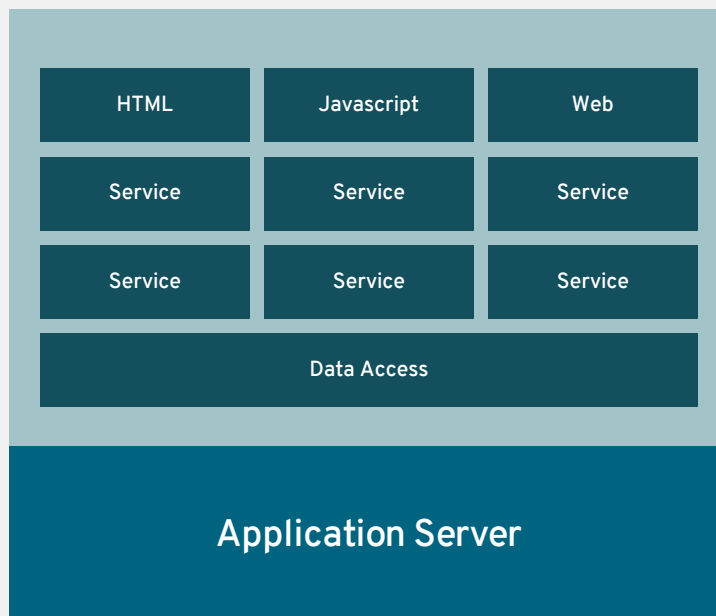


# MODERN APPLICATION DEVELOPMENT HAS CHANGED, HAVE YOU?

Mattias Paulsson  
Head of Solution Strategy and Middleware SSP, Nordics

# BACKGROUND AND CONTEXT

# MONOLITHIC ARCHITECTURE





**CLOUD-NATIVE APPS  
BUILDING APPLICATIONS  
FOR THE CLOUD**

# WHY CLOUD-NATIVE APPS?



**FASTER  
SERVICE DELIVERY**

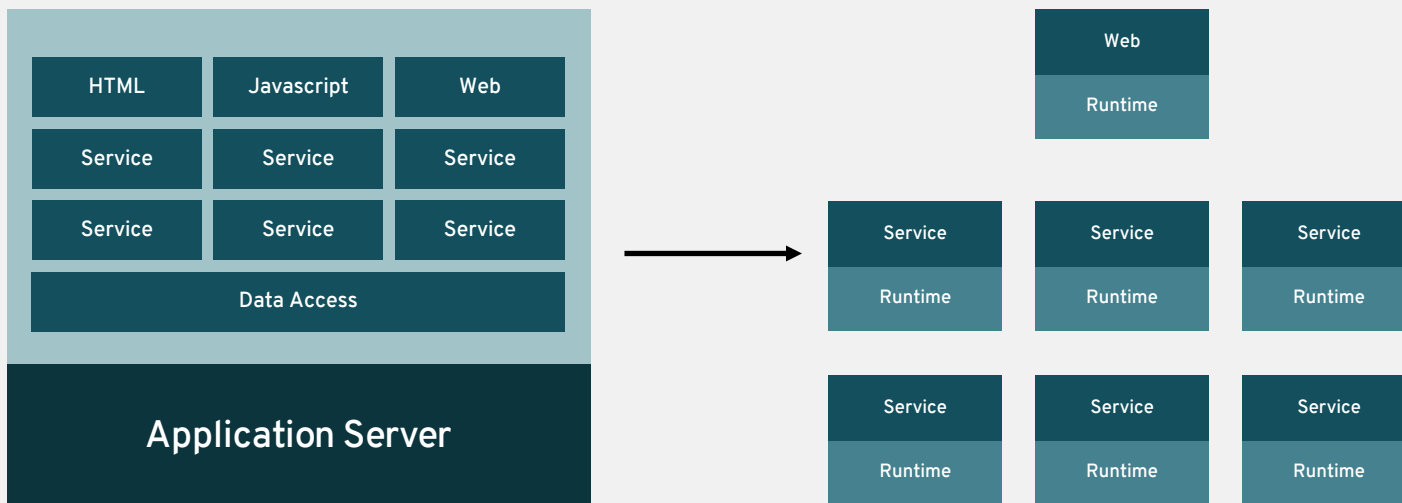


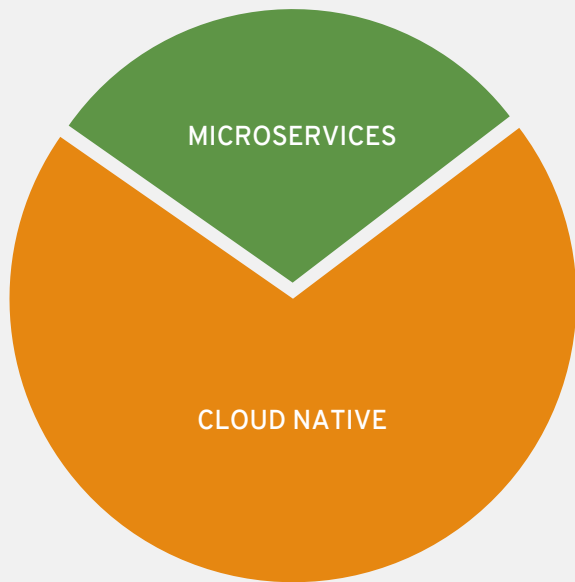
**INCREASE  
SERVICE QUALITY**



**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!



# 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  
.....  
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



# 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  
.....  
FAST  
MONOLITH

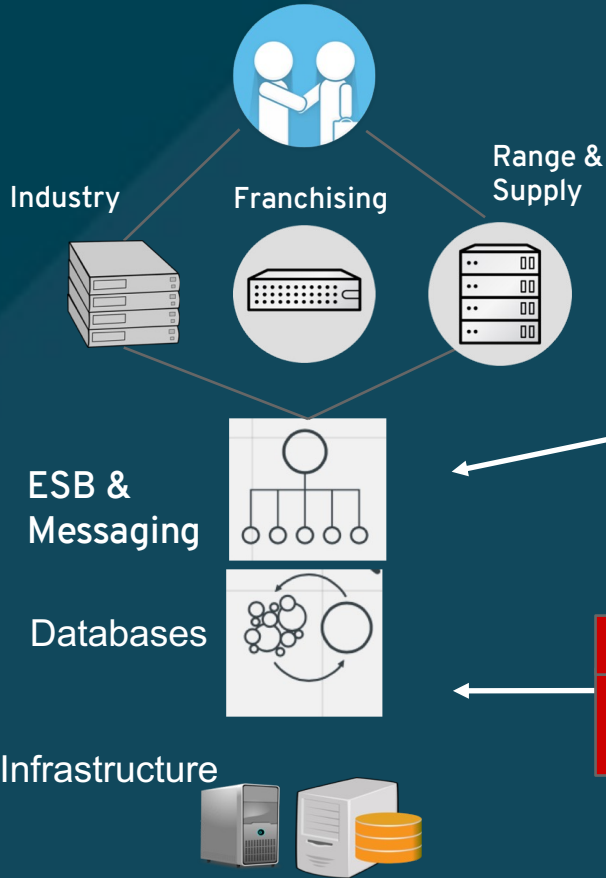
# BUT CLOUD NATIVE ISN'T JUST TECHNOLOGY

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

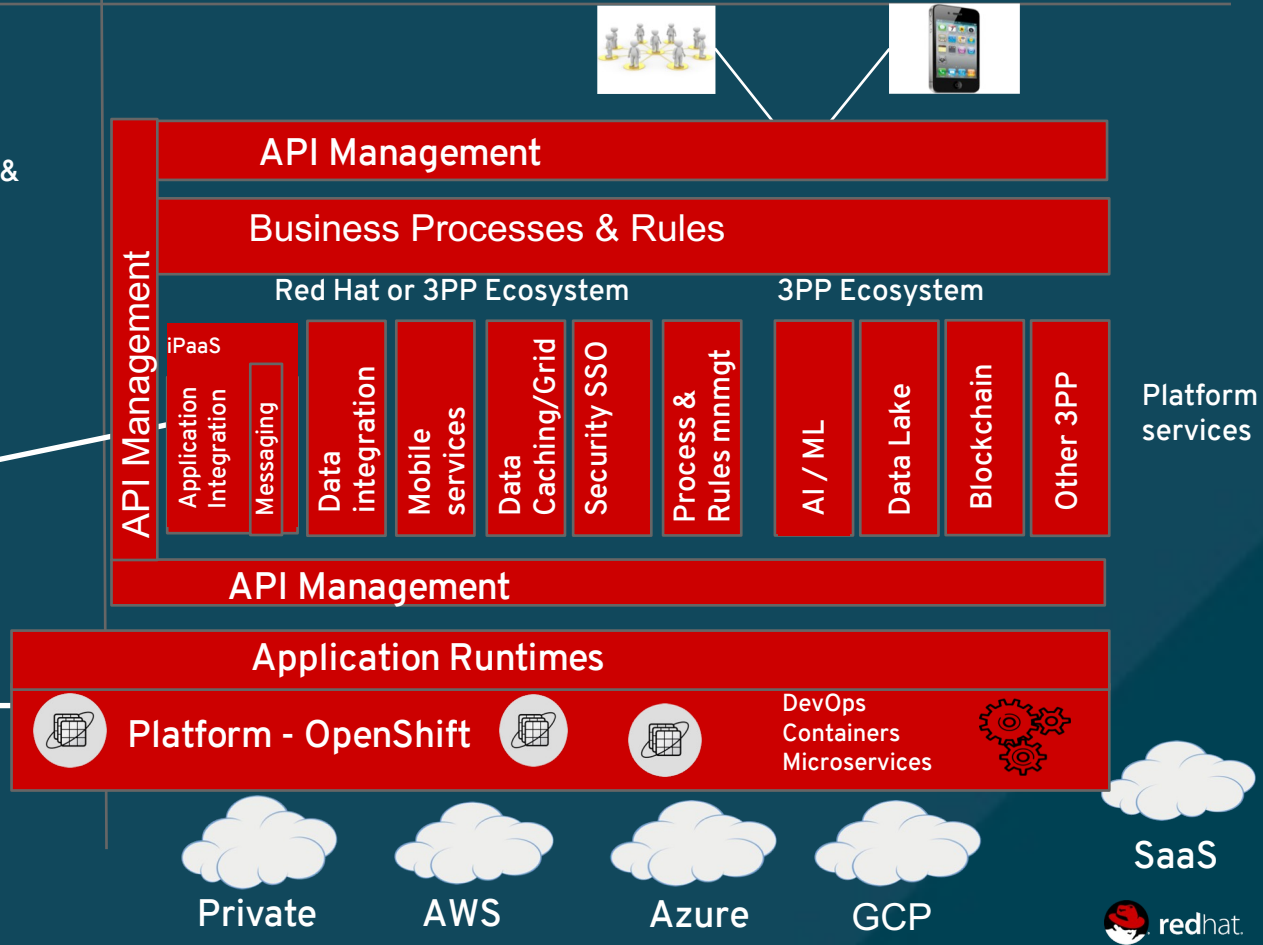
- Joe Beda, CTO of Heptio

# An evolutionary approach to Innovation

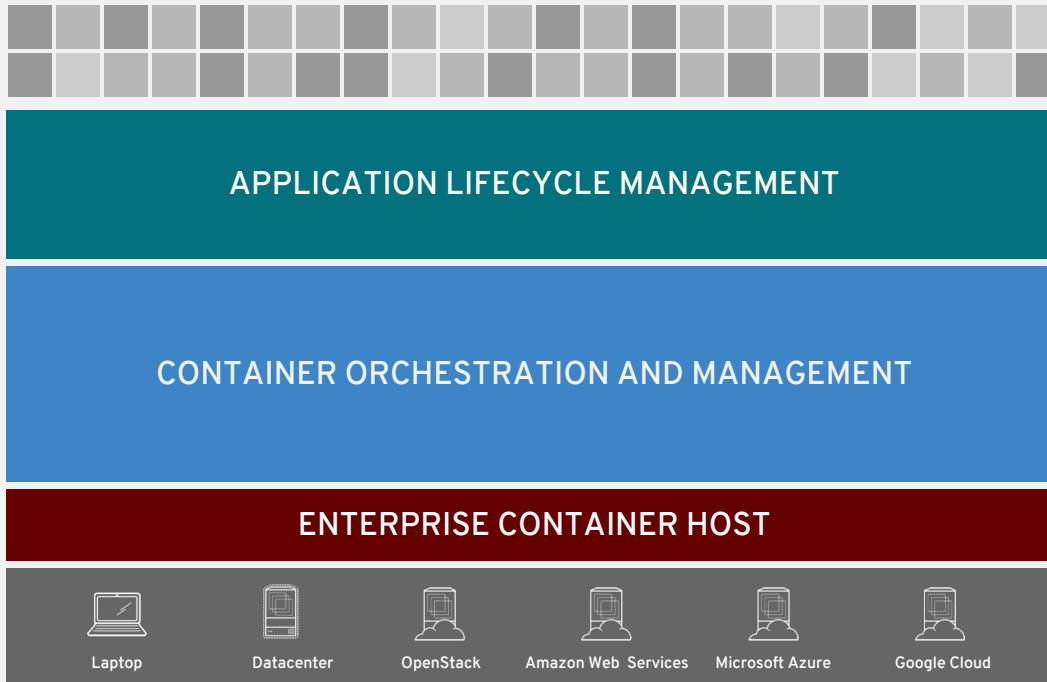
# Mode 1: Systems of Record



# Mode 2: Systems of Innovation / Engagement

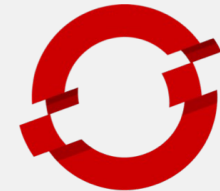


# CLOUD-NATIVE CAPABILITIES WITH RED HAT OPENSSHIFT



ANY  
CONTAINER

.....



**RED HAT**  
OPENSSHIFT

.....

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







# OPENSIFT COMMONS

An interactive community for all OpenShift Users, Customers, Contributors, Partners, Service Providers and Developers to share ideas, code, best practices, and experiences.

More at <http://commons.openshift.org>



# 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**  
FUZE

**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**  
webservices

**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

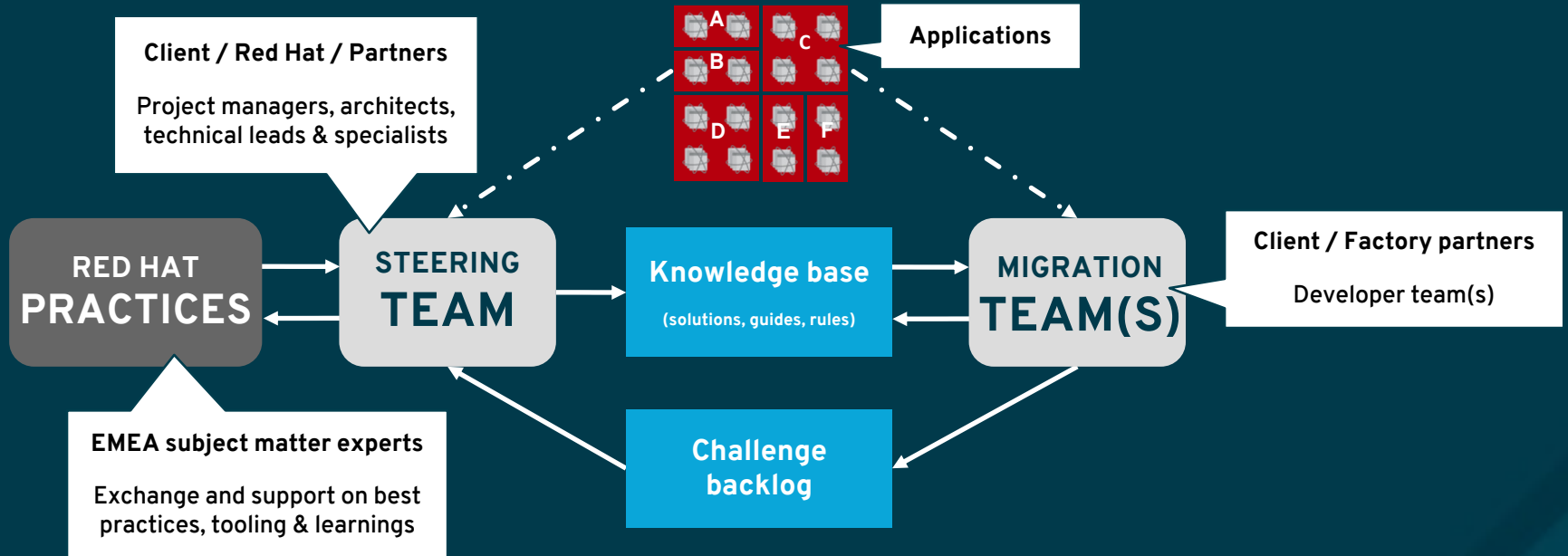
Iterative, managed service, factory scale up.



- 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



[plus.google.com/+RedHat](https://plus.google.com/+RedHat)



[facebook.com/redhatinc](https://facebook.com/redhatinc)



[linkedin.com/company/red-hat](https://linkedin.com/company/red-hat)



[twitter.com/RedHatNews](https://twitter.com/RedHatNews)



[youtube.com/user/RedHatVideos](https://youtube.com/user/RedHatVideos)