#### THE 3 PILLARS OF AGILE INTEGRATION:

Connector, Container and API

Microservices, Containers, APIs & Integration Day

Sameer Parulkar Senior Product Marketing Manager May 21, 2019

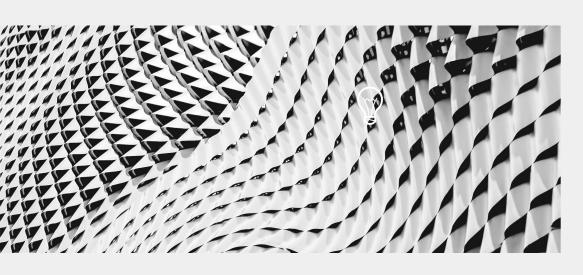


#### We will cover

- Changing world of integration
- Blueprint for enterprise architecture Agile integration
- Red Hat technology stack
- Wrap up



# The Changing World of Integration



"Insights and innovations are happening at a rate that we've never seen before. It's an exciting time at UPS, and Red Hat is a significant partner in that transformation."

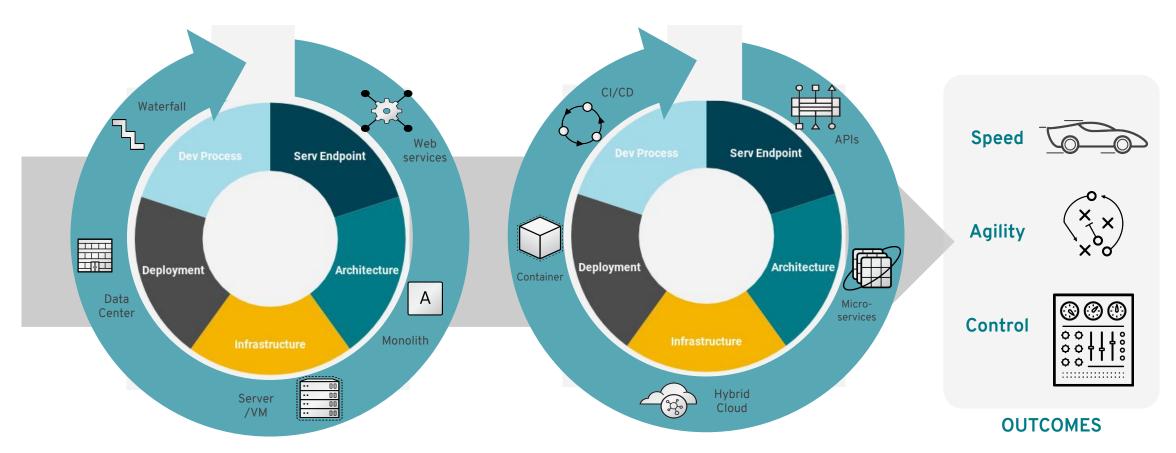
NICK COSTIDES

VICE PRESIDENT, I.T., UPS





## GREAT SOFTWARE COMPANIES ARE ADOPTING NEW PATTERNS FOR DEVELOPMENT



**ENABLE DIGITAL BUSINESS** 



#### INTEGRATION IS CRITICAL FOR DIGITAL BUSINESS

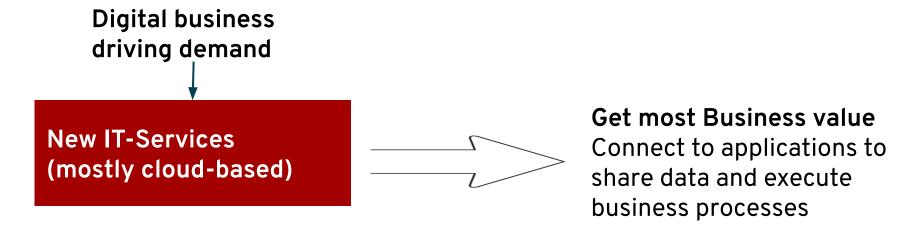
Connect new apps, data, devices to get the most value from your data



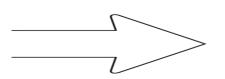


#### WHAT ABOUT DIGITAL BUSINESS

Integration is essential to get most value from your data



New Digital Initiatives (mostly cloud-based)

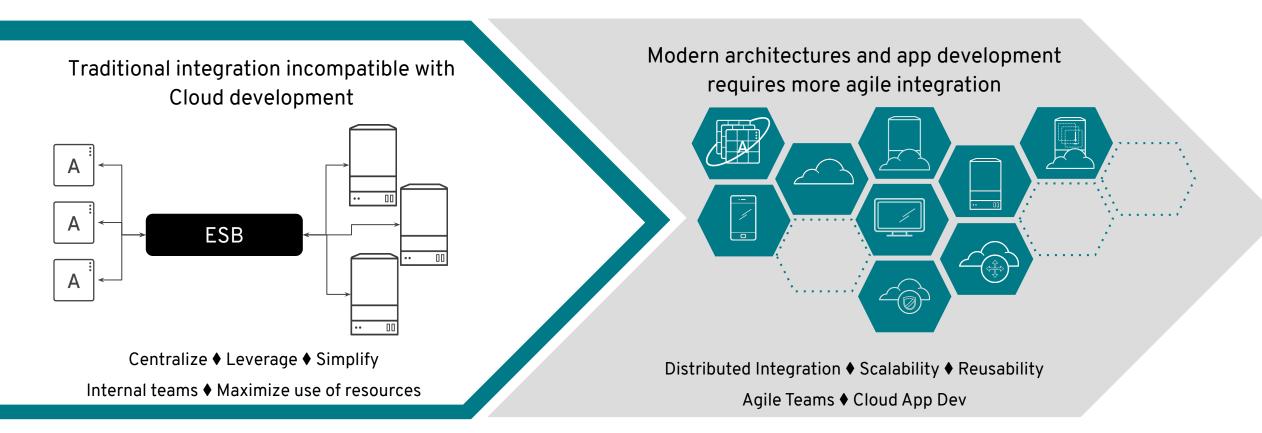


#### **Drive requirements**

To deliver data and applications to new ecosystem of consumers



# INTEGRATION IS UNDERGOING RAPID CHANGE: ADOPTION OF CLOUD & NEED FOR AGILITY

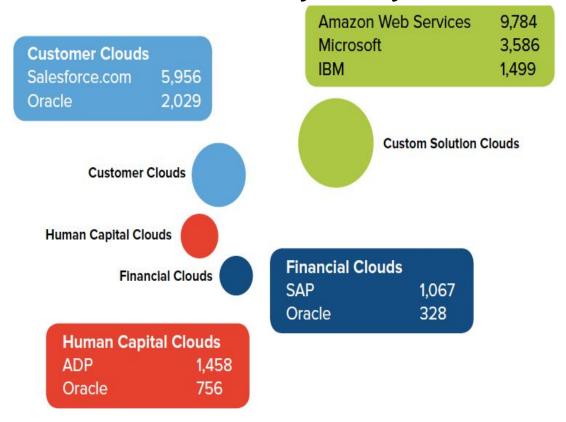


USE INTEGRATION WHERE NEEDED, RATHER THAN CENTRALIZING

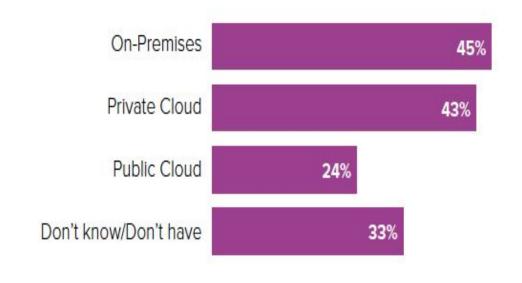


#### DIGITAL SERVICES: INTEGRATE APPS WHERE DEPLOYED

IDC InfoBrief: Agile Integration for Today's cloud-enabled enterprise (Oct 2017)



#### Planned or Actual Location of Custom Solutions



There isn't one dominant cloud

45% run bespoke applications in a private cloud or are implementing within 12 months NEW SERVICES (INNOVATIONS)



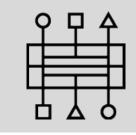
#### MOVE TOWARDS API CENTRIC FASTER INTEGRATION

SUPPORT NEW USERS, EXISTING & NEW USE CASES - AT SPEED



EASY-TO-USE TOOLS & PROCESSES

Integration across the organization means getting non-technical users involved.



INCREASED COLLABORATION

integration includes partners & customers.



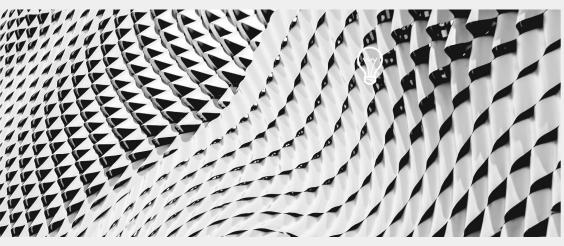
SPEEDY SERVICE

Agile development requires a fast turn-around. Create & connect new apps quickly.



# Blueprint for Enterprise Architecture

### **API-centric Agile Integration**



"We've created a team of highly motivated people to challenge traditional banking assumptions.

We're creating the capability to sell products in a way that is 100% digital"

SEBASTIAN CARVALLO,

ENTERPRISE ARCHITECTURE

MANAGER, BANCO GALICIA



#### API-CENTRIC AGILE INTEGRATION

Key foundational capabilities needed by today's enterprises

## DISTRIBUTED INTEGRATION

- LIGHTWEIGHT
- PATTERN BASED
- EVENT ORIENTED
- COMMUNITY SOURCED

**FLEXIBILITY** 

#### **CONTAINERS**

- CLOUD NATIVE SOLUTIONS
- LEAN ARTIFACTS, INDIVIDUALLY DEPLOYABLE
- CONTAINER BASED SCALING AND HIGH AVAILABILITY

**SCALABILITY** 

#### **APIs**

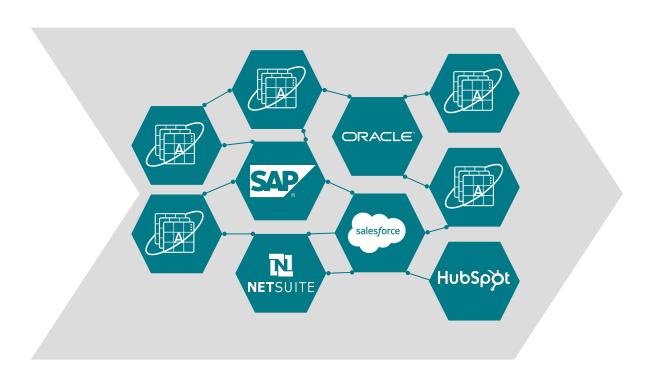
- WELL DEFINED, REUSABLE, AND WELL MANAGED END-POINTS
- ECOSYSTEM LEVERAGE

**RE-USABILITY** 



#### DEVELOP APPS WITH AGILE INTEGRATION AT THE CORE

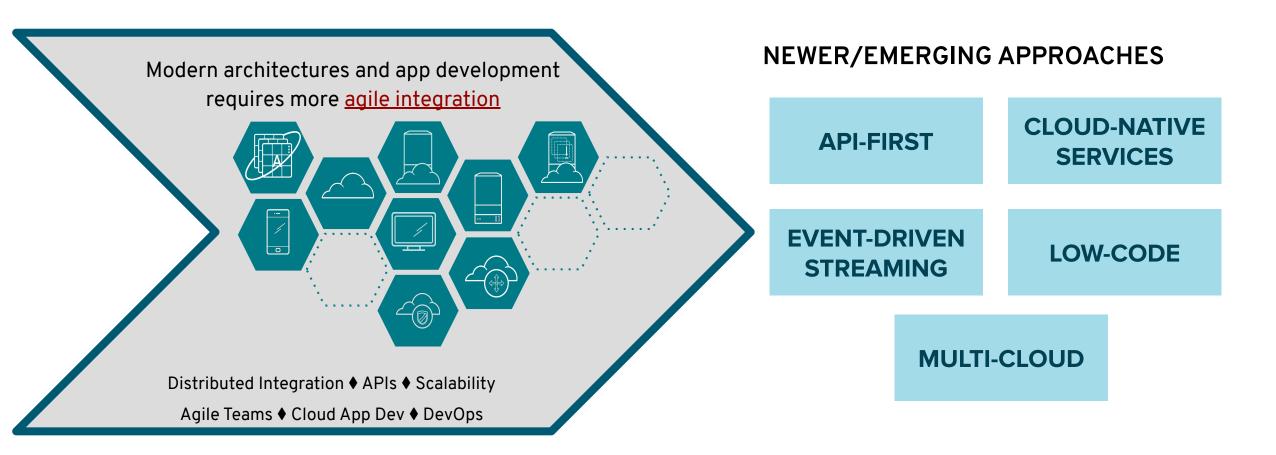
Connect - Mediate - Transform: Data, Services and Information for Microservices, APIs, Legacy services



- Leverage Agile Integration to build new services, experiment with new solutions
- And to integrate with existing services and data
- Integration <u>must</u> be a key capability for <u>all app dev projects</u>

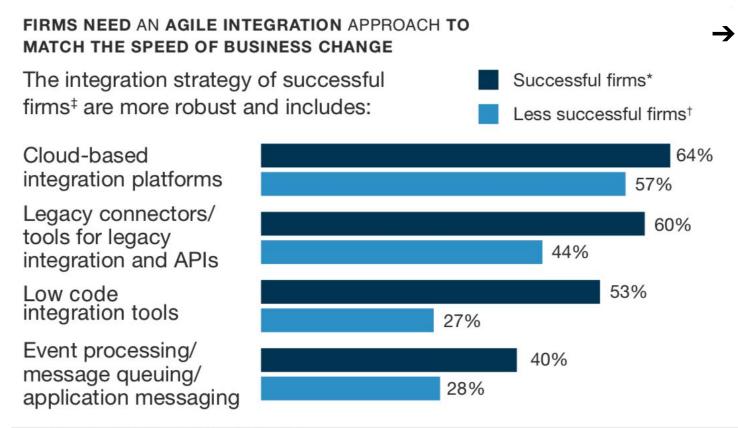


# AGILE INTEGRATION: EFFECTIVELY ADDRESS NEW APPROACHES & INITIATIVES





#### AGILE INTEGRATION: Forrester weighs in



Forrester study (commissioned by Red Hat)

https://www.redhat.com/en/resources /agile-integration-critical-to-digital-tra nsformation-forrester-analyst-report

#### **ACHIEVE FASTER API RELEASES**



Successful firms with an agile integration strategy release/ update APIs weekly or daily, nearly three times more frequently than less successful firms.



#### Example: Digital API Program For Citizen Services

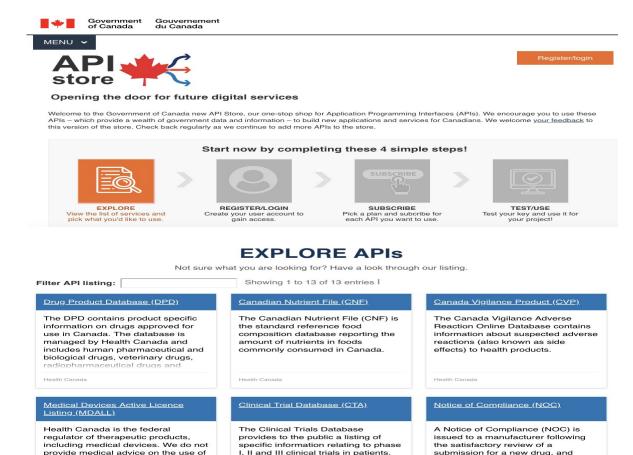


Innovation, Science and Economic Development (ISED)

#### Digital API Program for govt services

APIs are essential for digital journeys. ISED overcame challenges like API discovery, security, scalability, monitoring using RH technologies to create a multitenant API hub to power their innovations.

API Store: <a href="https://api.canada.ca">https://api.canada.ca</a>



The database is managed by Health

<u>Leading organizations accelerate innovation and business value across hybrid clouds with Red Hat Integration and container</u> technologies

the products identified in this listing.



signifies compliance with the Food

#### AGILE INTEGRATION CUSTOMER ADOPTION

#### Red Hat 2019 Innovation Award



Modernized infra and built 1-click CI/CD solution that increases dev speed and boosts collaboration Fuse+Data Grid+Decision Manager+ OpenShift



Built open source private cloud platform to deliver innovative banking services <u>3scale+OpenShift</u>

### Red Hat 2019 Innovation Award Honorable mentions



Adopted containerized Hybrid cloud platform and DevOps to gain speed, efficiency and increased competitiveness <u>Fuse+OpenShift</u>



Delivers a unified digital experience platform using cloud-native container and integration tech <u>Fuse+3scale+Data Grid+OpenShift</u>

#### Integration customers who presented at RH Summit 2019

- Government of Canda (ISED) <u>A digital API program in government</u>
- CIBC Bank <u>Building the optimal architecture for open banking</u>
- Sparks NZ A year in the life of moving to open source agile integration
- Duestche Telecom <u>Building a next generation integration platform for</u>
   Deutsche Telecom IT
- SWIFT A blueprint for distributed integration from world's largest financial network



#### AGILE INTEGRATION CUSTOMER ADOPTION



Streamlines package tracking and delivery using <u>Fuse+OpenShift</u> Shifted to more collaborative and DevOps approach



Created an innovative digital platform AVIATOR to Optimize their operations. <u>Fuse+3scale+OpenShift</u> and other RH products.



Argentina's migration department unified national security data to better predict criminal threats.

<u>Fuse+OpenShift</u> and other RH products

























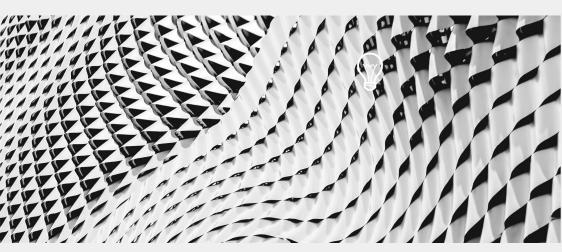








# The Red Hat Technology Stack

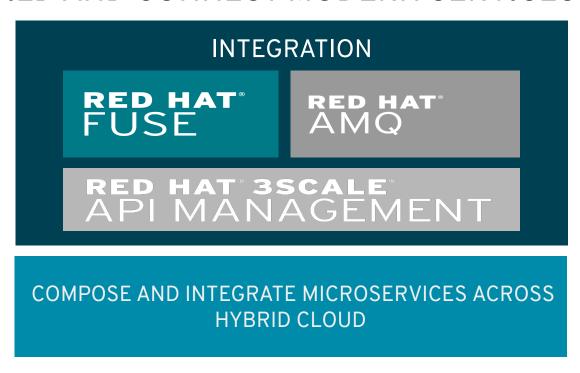


"What keeps us motivated when working on AVIATAR is that passengers get home on time and can spend more time with their families. We're really improving the passenger experience, and that's something to be proud of." JOHANNES HANSEN, SENIOR DIRECTOR OF APPLICATION DEVELOPMENT/UX FOR AVIATAR, LUFTHANSA TECHNIK



#### API-CENTRIC AGILE INTEGRATION PRODUCTS

## RED HAT INTEGRATION BUILD AND CONNECT MODERN SERVICES



Connect - Mediate - Transform

Develop, Deploy and Manage Across a Hybrid Cloud



#### API-CENTRIC AGILE INTEGRATION PRODUCTS



STRATEGIC CAPABILITIES NEEDED BY TODAY'S ENTERPRISES

## DISTRIBUTED INTEGRATION

LIGHTWEIGHT

PATTERN BASED

EVENT-ORIENTED

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#### **CONTAINERS**

CLOUD-NATIVE SOLUTIONS

LEAN ARTIFACTS,
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CONTAINER-BASED SCALING
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RED HAT® OPENSHIFT

Tools & processes

#### **APIs**

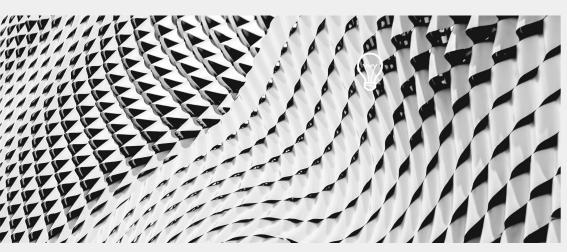
WELL-DEFINED, REUSABLE, & WELL-MANAGED ENDPOINTS

ECOSYSTEM LEVERAGE





## Wrap Up





#### TAKE AWAYS

- No one is safe from disruption.
- More and more markets are characterised by competitive Digital services. Increased agility is the strongest weapon.
- Integration is a core capability that everyone should master. However Integration approaches need to be revised to facilitate agility.
- Red Hat offers the Agile Integration concept, which resides on the three capability pillars: distributed integration, containerization, and APIs.
- The key technologies involved are Red Hat Integration (Distributed Integration, Messaging, API Management) & OpenShift Container Platform.

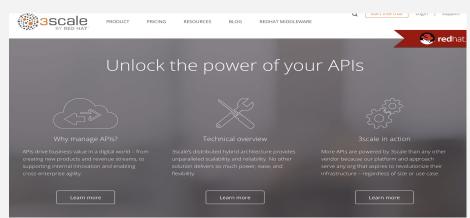


#### **RESOURCES**

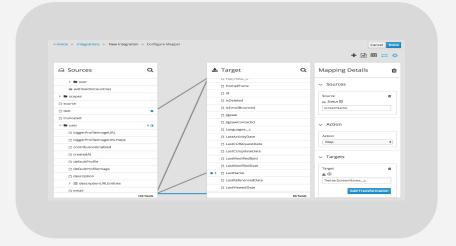


https://www.redhat.com/en/resources/mi-a

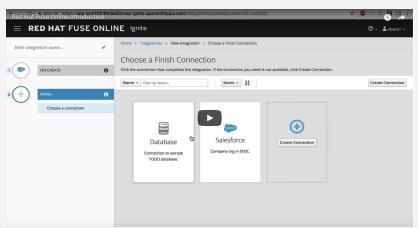
gile-integration-ebook



Get Started with API Management: 3scale.net



## Get Started with Fuse Online: <a href="mailto:redhat.com/fuseonline">redhat.com/fuseonline</a>



Watch video: Introducing Red Hat Fuse
Online Red Hat

# Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.









