

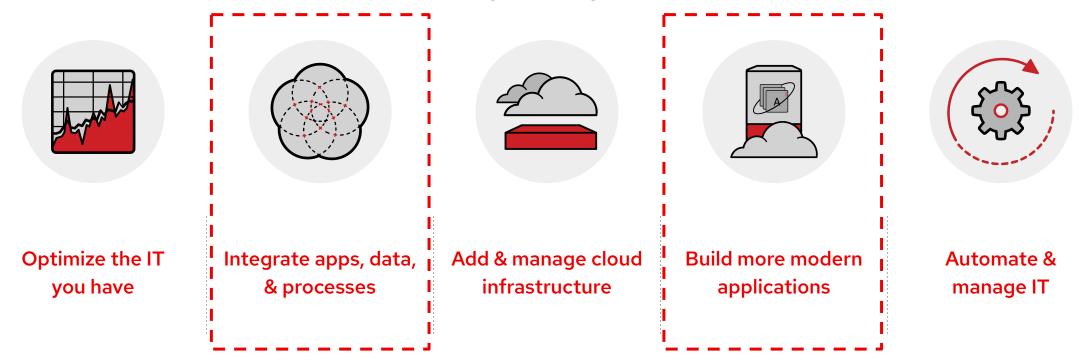
Agile Integration

From Zero to Hero

Andrzej Kowalczyk Senior Solutions Architect



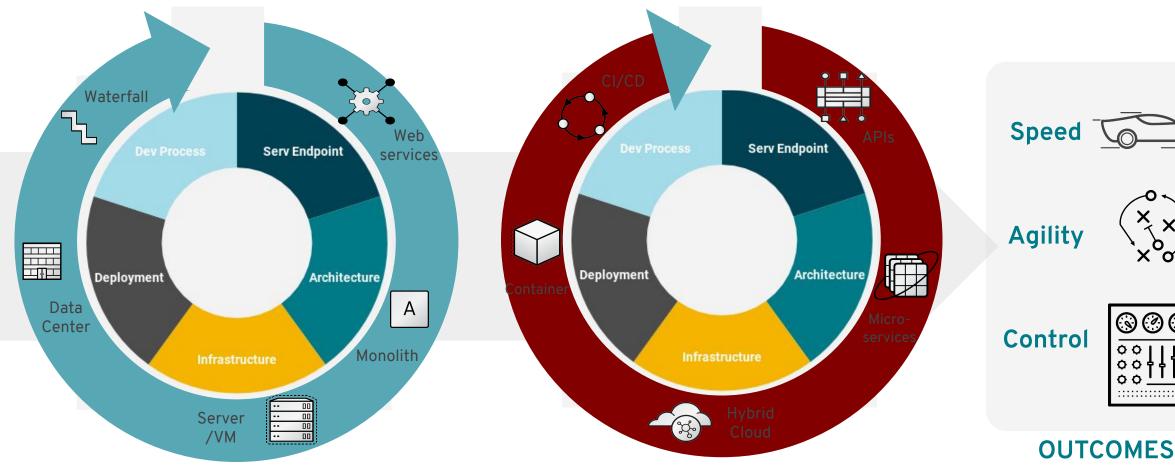
How do you drive innovation to meet business expectations while keeping the lights on?

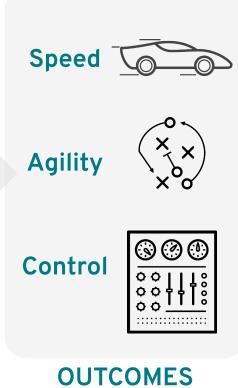


Leveraging the cloud becomes a key strategy for success

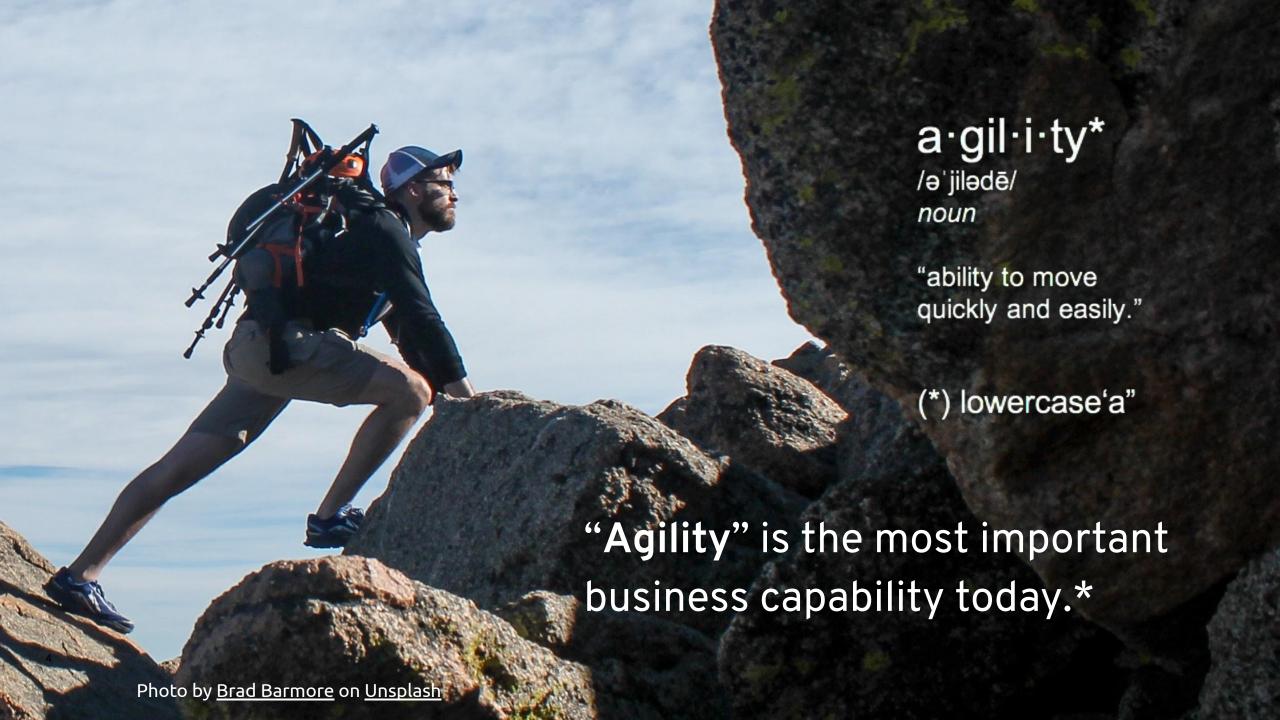


Great Software Companies Are Adopting New Patterns For Development







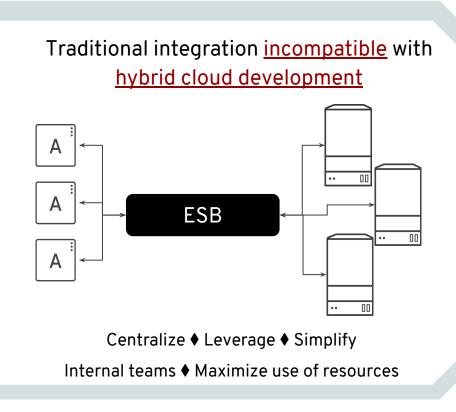


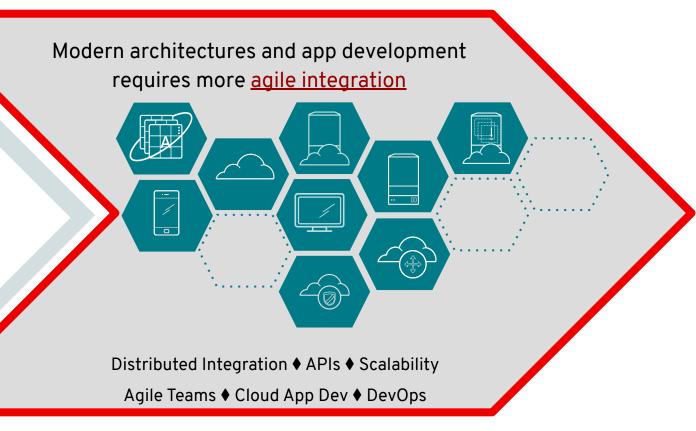


Empire State Building



Integration Is Going Through Rapid Change: Hybrid Cloud And Need For Agility

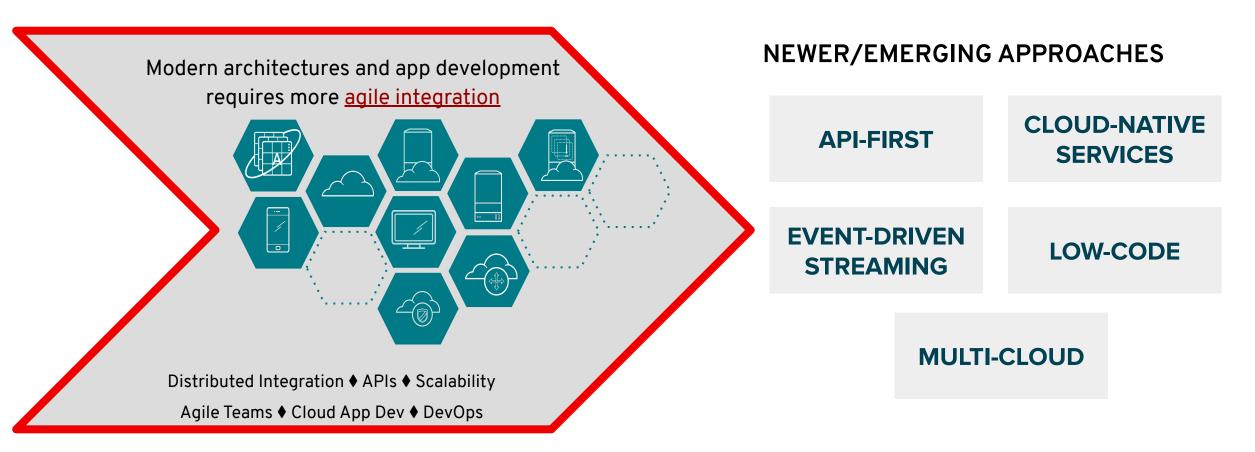




USE INTEGRATION WHERE NEEDED, RATHER THAN CENTRALIZING

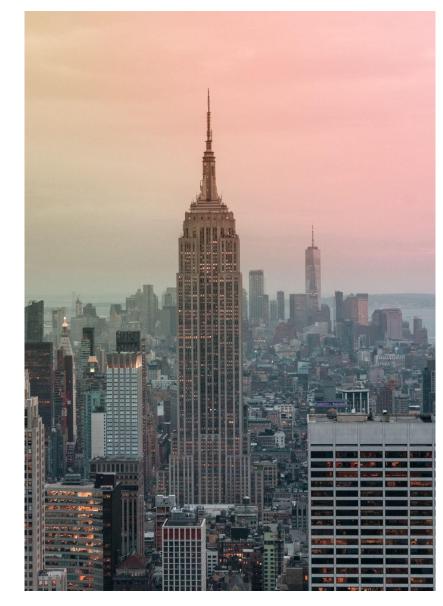


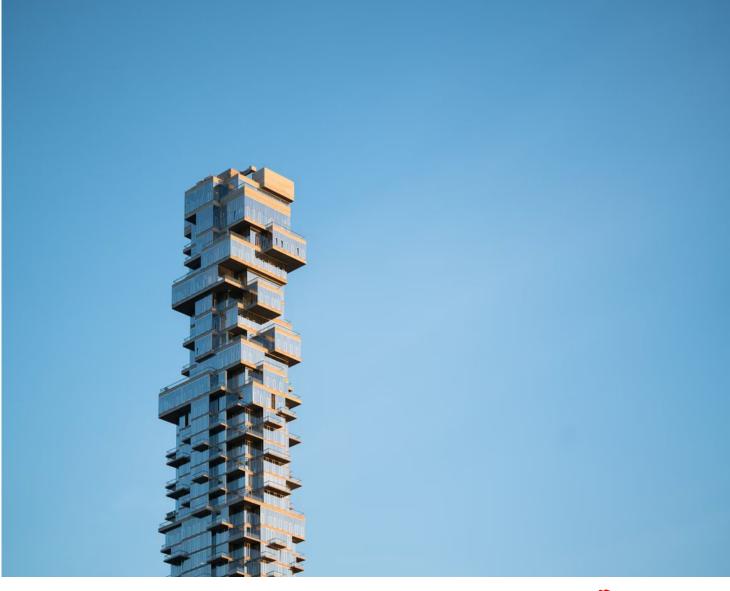
Agile Integration: Effectively Address new Approaches & Initiatives



Source[1]: Integration Architecture and Platforms Primer for 2019, Gartner. **Source [2]:** Agile Integration Is Critical to Successful Digital Transformation, Forrester (commissioned by Red Hat).







Empire State Building

Modern - Modular



How to do it?



Interface

Application concerns

Microservices Connectivity

Infrastructure concerns

API

- API Contracts
- Monetisation
- Business strategic policy enforcement
- Partner ecosystem







APPLICATION

- Choice of language/framework
- Self-service / productivity
- Low mem, fast startup
- Integrations framework

SERVICE TO SERVICE

- Network resilience
- Service security
- Policy enforcement
- Metrics/Observability
- Load balancing

DEPLOYMENT PLATFORM

- Reliability
- Instance placement
- Scaling/autoscaling
- Resource usage
- Job scheduling
- Distributed Logging























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Red Hat Cloud-Native Application Platform

Our vision is to simplify the creation of cloud-native services and serverless functions with a rich set of components and tools to match the **workloads** of modern cloud native apps.

Automate Kubernetes application operations with DevOps in mind

Red Hat
OpenShift

Runtimes, frameworks and services to build applications natively on Kubernetes



Tools and standard processes to increase developer productivity on Kubernetes





Advanced Cluster Management

Multi-cluster Management

Discovery: Provisioning: Policy: Compliance: Configuration: Workloads

Build Cloud-Native Apps

Application Services

Integration: Runtimes
Business Automation

Developer Productivity

Manage Workloads

Platform Services

Service Mesh: Serverless: Builds: CI/CD Pipelines Full Stack Logging: Chargeback **Developer Services**

Helm: Developer CLI: VS Code extensions: IDE Plugins
Code Ready Workspaces
CodeReady Containers

Operate Kubernetes

Cluster Services

Automated Ops : Over-The-Air Updates : Monitoring : Telemetry : Logging : Registry : Networking : Router

Kubernetes

Red Hat Enterprise Linux & RHEL CoreOS













Why the platform?

Benefits of the container development and orchestration platform

Faster software delivery Fostering business needs

Cloud-like experience Speeds up development process

Automation everywhere Eliminates human errors

DevSecOps enabler Engages people

Portability Deploy wherever you want

Resource scalability Better resource utilization

Failure isolation Increases uptime

Consistent environment for any load Simplifies application deployment

Unified high availability & failover Simplifies HA architecture



Red Hat Integration

Data Integration Change Data Capture with Debezium API Management **API** Manager **API** Gateway Istio Service Mesh Tooling & Metadata Adapter

Service Registry

Integration Operator

API Designer

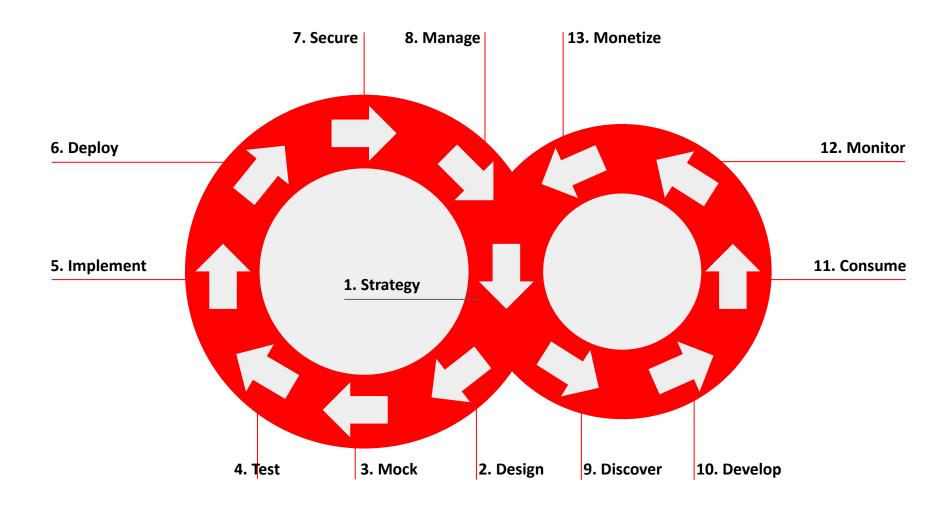
Enterprise Integration

- Comprehensive connectors
- Microservices orchestration
- Data Transformation
- Low-code iPaaS
- Serverless Composition with Camel K

Events & Messaging

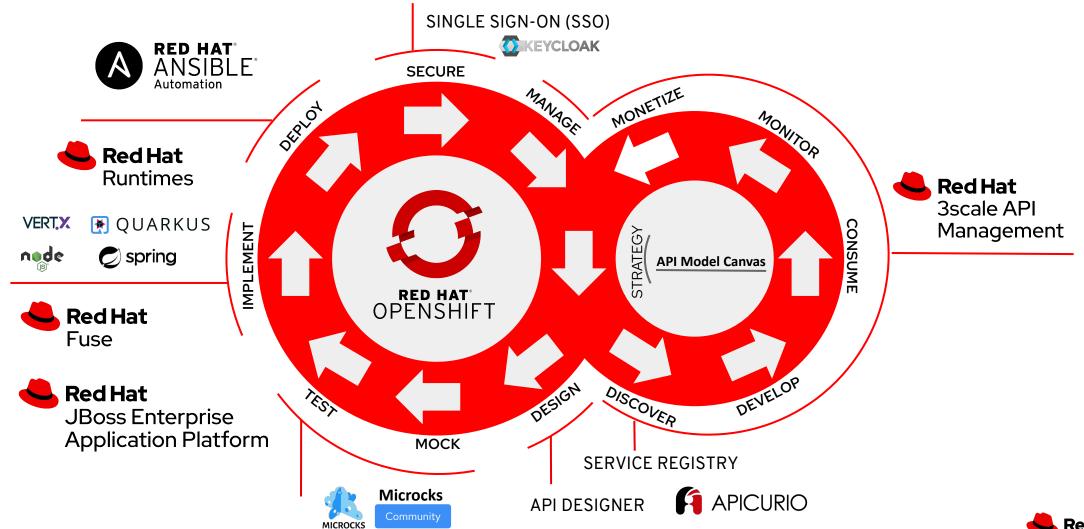
- JMS Message Broker
- Wide Area Routing
- Data Streaming with Apache Kafka
- Self-service messaging

Full API Lifecycle Management





API Lifecycle and Stack





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Questions?





Thank you

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