Change the Way You Integrate Applications with IBM Cloud Pak for Integration

—

think

Digital
Event
Experience

IBM

Integration is more important than ever

Why?

- Business continuity / resiliency
- Business automation
- Digital readiness
- SaaS adoption
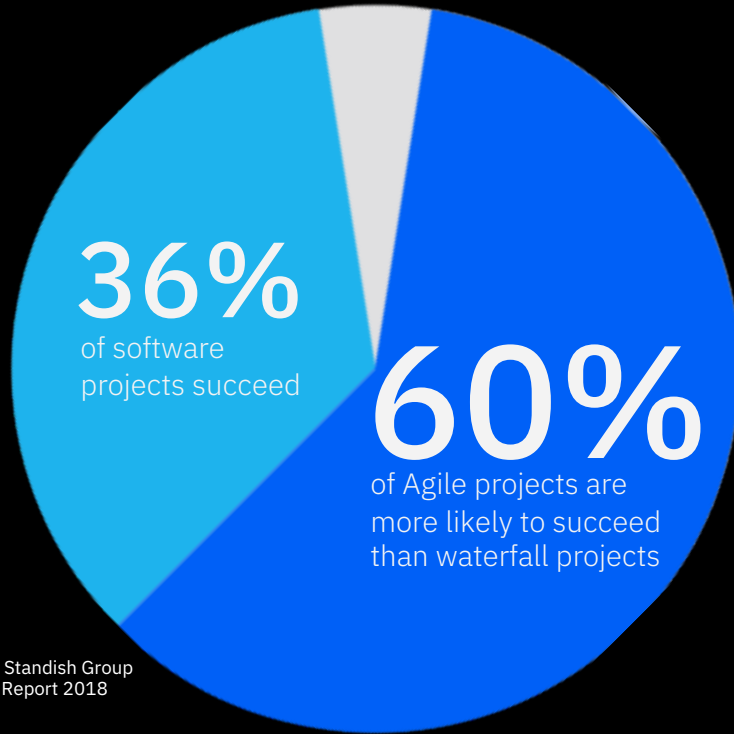- AI
- Blockchain and IoT
- Partner ecosystems

Through 2020, integration work will account for

50%

of the time and cost of building a digital platform.

To build or to modernize...

Older ways of software development are simply not good enough to allow companies to compete

36%
of software projects succeed

60%
of Agile projects are more likely to succeed than waterfall projects

Source: Standish Group
CHAOS Report 2018

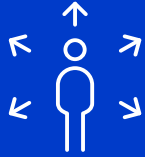# Compared to low performers, high performers have ...

170x
faster mean time to recover from downtime
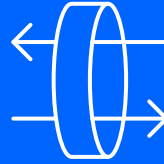
1/5
As likely for a change to fail

Nicole Forsgren, Accelerate: The Science of Lean Software and DevOps: Building and Scaling High Performing Technology Organizations (2018)

IBM can help you build and modernize with Agile Integration

People & Process

- Decentralized ownership
- Empowered teams
- Agile methods

Architecture

- Fine-grained deployment
- API led
- Event-driven
- Microservices aligned

Technology

- Cloud-native infrastructure
- Essential integration capabilities
- Unified security, governance, and operations

Cloud Pak for Integration

Broadest integration capabilities

Unified experience, operational efficiency & reuse

—

Deploy where needed

Container-based architecture with common enterprise services

—

Enterprise-grade

Secure, scalable

API Lifecycle

Application & Data Integration

Enterprise Messaging

Events

High Speed Transfer

Integration Security

IBM Cloud Pak for Integration

Client and Partner Applications

Unified User Experience

Asset Sharing

API Lifecycle
• API Connect

Application & Data Integration
• App Connect

Enterprise Messaging
• MQ

Events
• Event Streams

High Speed Transfer
• Aspera

Governance

Integration Security
• DataPower

IBM containerized software

Container platform and operational services   Red Hat OpenShift

IBM public cloud

AWS

Microsoft Azure

Google Cloud

Private

IBM **Z**
IBM **LinuxOne**
IBM **Power** Systems
IBM **Storage**

Endpoints

Cloud Pak for Integration Walk-Through

IBM: seeing tremendous growth

350+

Customers in 2019

Mix of existing

IBM Integration customers and **greenfield**

100%

Growth for 2020

Spanning industries including Retail, Financial Services and Government

Integration & Development Roadmap

1. Establish next generation **Cloud Native** architecture for enterprise leveraging Red Hat OpenShift and incumbent runtimes

Cloud Pak for Integration

- Kubernetes native DevOps (aka GitOps) following modern practices (2H)
- Cloud Pak for Integration as a Service (SOD 2Q)
- Openshift native install/upgrade using Operators (2Q)
- Expanded platform support with zLinux (2Q)

Messaging

- Build scalable active/ active messaging solutions (2Q)
- Dynamically balance applications (2Q)
- Container-native HA for enterprise msg without reliance on a shared filesystem (4Q)

Events

- Kubernetes Operator based on open source CNCF Strimzi project (2Q)
- Kafka version upgrade (2Q)

API Lifecycle and Gateways

- API policies & security into cloud native infrastructure w/ APIM + Istio (3Q)

Application Integration

- Dynamically generated, lighter-weight containers for app integration (4Q)

Integration & Development Roadmap

2. **Deliver enhanced capabilities** that unifies, secures and controls integrations across legacy, hybrid and public cloud environments

Cloud Pak for Integration

− Offline design experience to build integration patterns and push to CP4I (1Q)

− SaaS connectors running in Cloud Pak (1Q+)

− App Connect integration with Asset Repo (2Q)

− Unified portal to discover & subscribe to APIs, events, queues, etc. (4Q)

− MCM support to manage CP4I assets (1Q)

Messaging

− Global message reach with Aspera FASP.io for MQ on Z (2Q)

− Support for REST administration and Messaging (2Q)

− Mac OS development (2Q)

− Secure exposure using Internet Pass Through (2Q)

Events

− Support for MirrorMaker 2 to underpin geo-replication (2Q)

API Lifecycle and Gateways

− Secure and manage GraphQL endpoints through a unified API catalog (2Q)

− Automated API behavior testing with no-code and DevOps ready plugin (2Q)

− Secure event-based applications alongside REST APIs (2Q)

Application Integration

− Simplified authoring and test experience for app integrations (2Q)

− Healthcare Pack v5, support for FHIR , OpenShift support (1Q)

− Weather Company adapter for bringing in weather insights (1Q)

Aspera

− Admin and Navigator support for fasp.io Gateway and HSTS (2Q)

− Native Cloud Object Storage Support (2Q)

Integration & Development Roadmap

3. Speed Cloud Pak for Integration time-to-value with **AI infusion** in cloud native development and integration

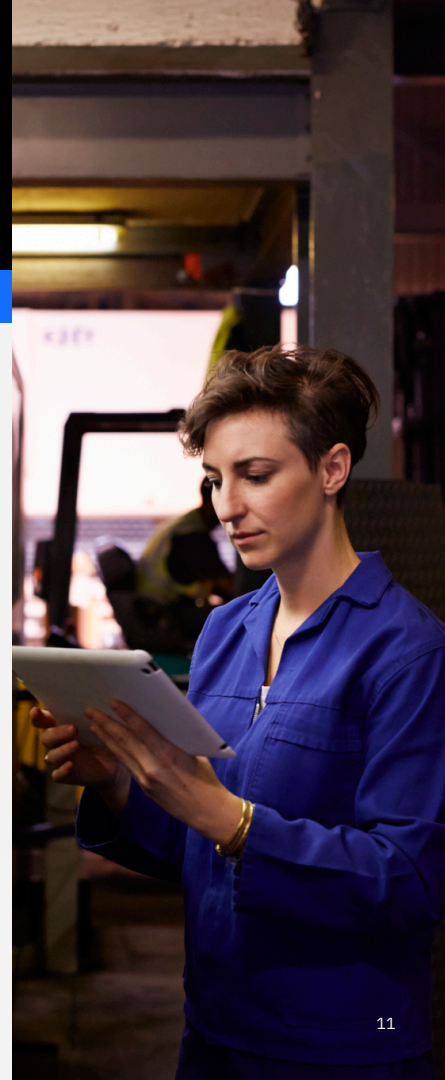| Application Integration	Messaging	API Lifecycle and Gateways
– AI inserted into integration mapping for deep insight into past mappings to accelerate flow design process (3Q) – AI in mapping to find relationships between source and target systems (3Q)	– Autonomic tuning of IBM Messaging to minimize admin overhead and costs by automatically adjusting resources to optimize performance (4Q)	– Automated API testing based on industry best practices to improve ease of use (4Q)

Next steps:

- Read the field guide to IBM's approach to modern, agile integration delivered through Cloud Pak for Integration

- Learn why IDC recommends enterprises leverage a hybrid integration platform

- Talk to your IBM rep to schedule a virtual integration modernization workshop