IBM Cloud Pak for Integration

Accelerate integration with AI-powered automation

Effective integration of applications and data is essential to digital transformation, with 80% of leading organizations providing their employees secure and timely access to relevant data, empowering them to make better business decisions.[1]

Traditional approaches to integration are slow to implement, hard to scale and laden by skill-intensive, complex technologies. A new, AI-accelerated approach to integration is needed. It must be one that enables extended teams to create integrations, uses a complete set of integration styles and capabilities, and embeds AI and automation to accelerate creation of integration mapping, API test creation, anomaly detection and workload balancing.

Achieve the optimal mix of existing and new system development by modernizing core applications to be cloud-native and unlocking the value of your data while sunsetting other systems.

IBM Cloud Pak® for Integration delivers this new approach, extending AI-powered automation across the integration lifecycle.

With it, companies are able to speed their integration development by 300%, reduce costs of integration by over 33% and increase overall operational efficiency while maintaining enhanced security, governance and availability.[2]

Highlights

– Generate new tests for API-led activity automatically based on comparison workload detected in production environments versus test environments

– Use built-in NLP and AI to gain custom mapping recommendations to accelerate the building of integration flows

– Built-in automated workload scaling and balancing helps to avoid production and performance issues

– Automate deployment, scaling and self-healing across systems and update without downtime, enhanced with end-to-end tracing

Benefits

Accelerate development
Use built-in AI to accelerate integration development by 50%
– 300%[2]. Low-code and no-code integration tooling that uses
built-in natural language processing (NLP) and AI to offer custom
mapping suggestions when building integration flows has been
shown to solve complex business problems 50% faster.[2]

Coupled with prebuilt smart connectors and a common, share-
able asset repository to enable reuse and deployment across
multiple integration styles and capabilities, developers will have
everything they need to speed delivery.

Reduce cost
Automate to reduce the cost of integration by over 33%.[2]
Powered by AI, new tests can be automatically generated based
on comparison of workloads detected in production environ-
ments versus test environments, cutting project timelines and
freeing your teams for higher-value activities.

Bringing together the industry's most complete set of tools and
capabilities and enhancing them through automated deployment
eliminates the expensive maintenance downtime and multiple
licensing fees that accompany other vendor offerings or "roll-
your-own" approaches.

Lower Risk
Improve workload and operational efficiency through
AI-powered automation while reducing risk with processing
mining and robotic process automation (RPA) capabilities,
helping you discover anomalies across integrations and extend-
ing integrations to otherwise unreachable assets. With built-in
automated workload scaling, balancing and self-healing, you'll
also experience up to five-nines application availability and
throughput optimization.[3]

IBM Cloud Pak for Integration captures deployment, operation
and security issues as they happen, reducing the time taken to
identify the root cause and simplifying the steps that prevent
potential adherence to security and compliance policies across
all integration assets.

300%
increase in integration
speed with IBM Cloud Pak
for Integration

33%
reduction in integration
costs with IBM Cloud Pak
for Integration

Capabilities

IBM Cloud Pak for Integration is a complete hybrid integration platform, including the optimal mix of traditional and modern integration styles and embeds AI and automation.

API management
Unlock business data and assets as APIs.

Application integration
Connect your cloud and on-premises applications.

Event streaming
Deliver real-time Kafka event interaction.

Enterprise messaging
Deliver messages reliably with enterprise-grade messaging.

High-speed data transfer
Drive faster data transport across essentially any cloud in a security-rich environment.

End-to-end security
Control access to vital resources wherever they are.

Deployment options

Run your integration software more easily virtually anywhere—through containers supported by Red Hat® OpenShift® software on IBM Cloud®, on essentially any existing infrastructure on premises or through private and public clouds. Use the capabilities you need with a fully modular approach that's designed to be easy to consume.

As a part of the IBM Automation platform, IBM Cloud Pak for Integration includes containerized IBM middleware and common software services for development and management on top of a common integration layer.
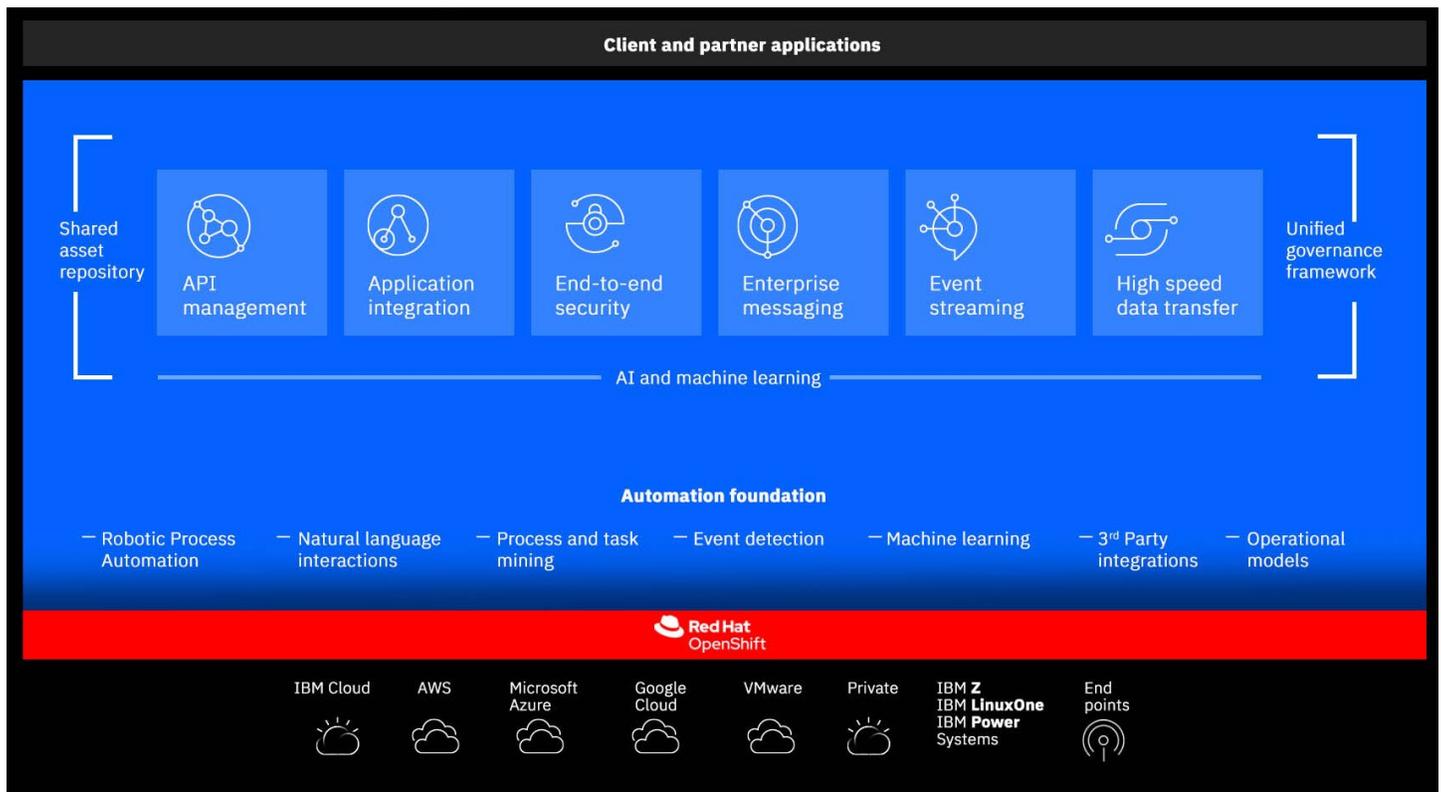
Figure 1: IBM Cloud Pak for Integration marketecture

Security and support

Companies are more connected to the outside world than ever before. IBM Cloud Pak for Integration helps your organization reduce exposure to business and security risks while adhering to compliance policies. Using IBM proprietary assessment tools and industry best practices, our technical specialists help formulate an identity and access management (IAM) strategy based on your current and future business requirements. Take advantage of full software stack support and ongoing security, compliance and version compatibility.

IBM Cloud Pak for Integration
Features and benefits

Features	Benefits
Low-code and no-code tooling	**Increase productivity, reduce time to market.** Helps ensure that a wider set of roles has the ability to easily apply AI through a no-code approach to create intelligent business solutions.
AI mapping assist	**Integrate applications and data faster, more easily and with greater accuracy.** Uses semantic analysis and AI algorithms to suggest mappings, designed to make the hardest part of integration simpler.
Connectors catalog	**Connect everything, virtually anywhere.** Prebuilt, security-rich intelligent connectors, including RPA, for scraping key details from existing applications, enabling effective connectivity on premises or in the cloud.
Design and asset repository	**Build and deploy reusable integrations.** Reuse established and previously written applications to speed development.
Security-rich gateway	**Enforce security consistently without external security solutions.** Integrate, control and optimize delivery of workloads across multiple channels in a security-rich environment, including mobile, API, web, service-oriented architecture (SOA), B2B and cloud.

Summary

IBM Cloud Pak for Integration delivers a modern, agile approach to integration, extending AI-powered automation across the integration lifecycle. With it, we've seen companies speed their integration development by 300%, reduce their costs of integration by over 33% and increase their overall operational efficiency while maintaining enhanced security, governance and availability.[2]

Provide your employees with access to the data they need to make better business decisions and drive new engagement models and personalized omnichannel experiences for your customers.

IBM Cloud Pak for Integration is part of the IBM Automation platform, a set of shared automation services that help you get insight into how your processes run, visualize hotspots and bottlenecks, and use financial impact information to prioritize which issues to address first.

Next steps

Unlock the value of IBM Cloud Pak solutions by leveraging the IBM Partner Ecosystem
IBM Cloud Pak solutions host a growing ecosystem of technology partners. As an open, Kubernetes-based platform, we integrate with an array of tech solutions that enhance what we do. IBM Business Partners play an integral role in empowering your organization to build the cloud business solutions you need.

For more information

To learn more about IBM Cloud Pak for Integration, please contact your IBM representative or IBM Business Partner, or visit ibm.com/cloud/cloud-pak-for-integration.

Why IBM?

IBM Cloud offers the most open and secure public cloud for business with a next-generation hybrid cloud platform, advanced data and AI capabilities, and deep enterprise expertise across 20 industries.

We offer full stack cloud platforms with over 170 products and services covering data, containers, AI, the Internet of Things (IoT) and blockchain. To learn more, visit ibm.com/cloud

1 "Organizational Agility and the CIO: Challenging Bureaucracy, Seeking Integration," Workday, 30 January 2020, blog.workday.com/en-us/2020/organizational-agility-and-the-cio-challenging-bureaucracy-seeking-integration.html

2 "The Total Economic Impact Of An API Management Solution: Cost Savings and ROI Enabled By IBM API Connect," *Forrester Total Economic Impact Study Commissioned By IBM*, February 2017, vmark.eu/wp-content/uploads/2019/04/IMPACTSTUDY_FORESTER.pdf

3 "The Holy Grail of five-nines reliability," *TechTarget*, March 2005, searchnetworking.techtarget.com/feature/The-Holy-Grail-of-five-nines-reliability