IBM Cloud Pak for Integration

Automate integration to improve application speed and quality

Effective integration of applications and data is essential for achieving operational excellence, with 70% of digital transformation projects failing due to a lack of integration quality.[1]

Traditional approaches to integration are slow to implement, hard to scale and laden by skill-intensive, complex technologies. A new, automated, closed loop approach to integration is needed. It must be one that enables extended teams to rapidly 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 have been able to speed their integration development by up to 55%, reduce unplanned outages by up to 60% and spend up to 60% less time managing and monitoring integrations - all while maintaining enhanced security, governance and availability.[2]

Gartner® gives IBM the highest scores for the following 3 out of 5 use cases in the 2021 Gartner Critical Capabilities for Enterprise Integration Platform as a Service:

– Application Integration

– B2B Ecosystem Integration

– Event Integration[3]

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 drag-and-drop developer interfaces to accelerate integration development by up to 55%[2]. Low-code and no-code integration tooling uses built-in natural language processing (NLP) and AI to offer custom mapping suggestions when building integration flows and has been shown to solve complex business problems 50% faster.[4]

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%.[4] 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 while reducing risk with processing mining and robotic process automation (RPA) capabilities, helping you discover anomalies across integrations and extending 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.[5] IBM Cloud Pak for Integration customers improved the quality and resiliency of their integrations, making drastic reductions in production system downtime and degradation.[2]

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.

151%

ROI within 3 years using IBM Cloud Pak for Integration[2]

<6 mth

payback period with IBM Cloud Pak for Integration[2]

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 and manage, secure and socialize a broad set of technology endpoints.

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.
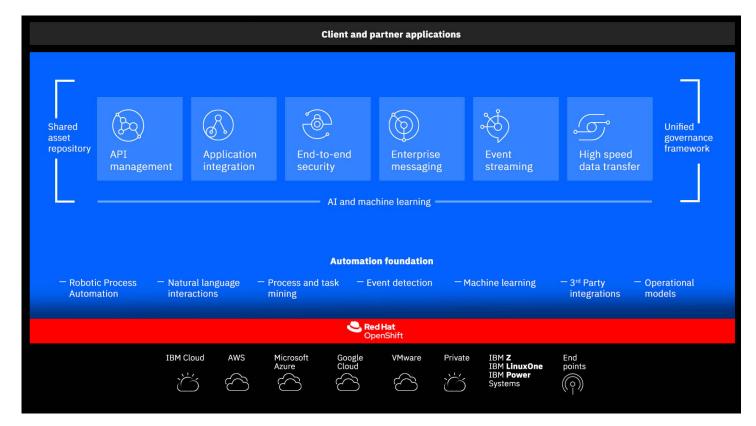

Figure 1: IBM Cloud Pak for Integration marketecture

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 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, companies have been able to speed their integration development by up to 55%, reduce unplanned outages by up to 60% and spend up to 60% less time on management and monitoring - all while maintaining enhanced security, governance and availability.[2]

Ensure that your business's critical data can easily move from where it is generated to where it is consumed, allowing you 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.

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/.

1 "Companies That Failed At Digital Transformation And What We Can Learn From Them", Forbes.com, September 2019
https://www.forbes.com/sites/blakemorgan/2019/09/30/companies-that-failed-at-digital-transformation-and-what-we-can-learn-from-them/?sh=40f6e7bf603c
2 "The Total Economic Impact Of IBM Cloud Pak For Integration", Forrester Research, Inc., September 2021
https://www.ibm.com/account/reg/signup?formid=urx-51240
3 "Critical Capabilities for Enterprise Integration Platform as a Service, by Eric Thoo, Keith Guttridge, Bindi Bhullar, Shameen Pillai, Abhishek Singh, 25 October 2021
https://www.ibm.com/account/reg/signup?formid=urx-51375
4 "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
5 "The Holy Grail of five-nines reliability," *TechTarget*, March 2005,
searchnetworking.techtarget.com/feature/The-Holy-Grail-of-five-nines-reliability