

# IBM Financial Services Workbench for IBM Cloud Pak for Data

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## Highlights

- Flexibly build, deploy and manage data and AI solutions
  - Seamlessly and quickly add data and AI components
  - Rely on no-code design and low-code implementation
  - Employ across public, private, hybrid, multicloud and on-premise settings
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Securely transform digital business opportunities into cloud native solutions

## About IBM Financial Services Workbench

IBM Financial Services Workbench for IBM Cloud Pak for Data is a transformative business solution designed to help organizations turn digital business opportunities into cloud-native solutions. The offering helps institutions move from monolithic applications towards nimbler microservices and DevOps architectures. The solution accomplishes this using a low-code, collaborative environment where business analysts and developers can design, implement, build and test lightweight services with tailor-made tools for their role.

In addition to custom code development options, the offering introduces a no-code design and low-code implementation environment based on domain-driven design. The solution uses best-in-class open source tooling with a pre-integrated and automated pipeline, including packaging, auto-deployment and monitoring capabilities.

## About IBM Cloud Pak for Data

IBM Cloud Pak for Data—formerly IBM Cloud Private for Data—is a fully integrated data platform that modernizes how businesses securely collect, organize and analyze their data. Using open-source architecture and containerized services with data management, analytics, and AI and machine learning capabilities, the platform allows enterprises to flexibly build, deploy and manage data and AI solutions. The solution can be employed across public cloud, private cloud,

hybrid multicloud and on-premise environments and includes:

### **Data access**

Data warehousing, management and data virtualization capabilities provide visibility and security-rich access to enterprise data, regardless of type or location, without the need for migration.

### **Data quality and governance**

Cataloging, profiling, classification and quality evaluation services allow administrators and data scientists to create, document and enact governance policies and rules across all data assets through a single interface.

### **Data analysis**

Advanced modeling capabilities, dashboarding and self-service tools tailored and delivered within role-based workflows for data scientists, analysts, engineers, stewards and developers help accelerate the use of data science across your organization.

### **AI**

Pre-built AI applications designed to address common use cases around customer service, automation and compliance help embed AI in your business processes faster. Building upon the core capabilities within IBM Cloud Pak for Data is a growing catalog of data and AI services from IBM, the open-source community and third parties. Solutions like IBM Financial Services Workbench are automatically integrated within the platform upon provisioning, which ensures customers can customize the platform to suit their business needs.

## **The value of IBM Financial Services Workbench on IBM Cloud Pak for Data**

IBM Financial Services Workbench adds immense value for clients as part of the IBM Cloud Pak for Data platform. Uniting service creation and implementation capabilities with an organization's analytics foundation means users can seamlessly add data and AI components within their operational use cases. This feature speeds the creation of data-driven, intelligent and AI-driven processes and applications.

The enterprise catalog capabilities within IBM Cloud Pak for Data platform deliver a central view of all enterprise data, making it easier to discover for analysis. With the addition of the IBM Financial Services Workbench, add-on microservices can be centralized into that same platform, allowing you to view and discover your business services with various data sources in one place.

Building upon system, domain and industry experience, the IBM Financial Services Workbench for IBM Cloud Pak for Data facilitates a modular architecture for building microservices. Pre-built design packs and ready-to-use integrations help jumpstart the development of new solutions, and the platform helps simplify governance by allowing users to easily explore how services interact with one another and the data.

## **Base components of the IBM Financial Services Workbench**

### **Solution Design**

Solution Design is comprised of tools that allow solution creators like business analysts and developers to seamlessly work together using a shared repository following the principles of domain-driven design. Solution Design is comprised of tools that allow solution creators like business analysts and developers, to seamlessly work together using a shared repository following the principles of domain-driven design.

Most prominently, it features a no-code design tool that can be used by subject matter experts and business analysts to model all aspects of a business domain, like its entities, services, errors and events. Developers can use familiar tools to implement the services as specified by the modeled domain. Such tools include their favorite integrated development environment (IDE), Git for version control, and an auto-generated software development kit (SDK). Changes to the model will be automatically reflected in the SDK, so that developers can more easily adapt the implementation to changed specifications. Comprehensive support for the debugging of service implementations is also part of the package.

Solution Design provides access to pre-built design packs, which can be imported to jumpstart the development of new solutions. It also contains solution packs and ready-to-use integrations, which can be reused to accelerate solution design and implementation.

### **Solution Hub**

The Solution Hub component is capable of automatically building, packaging, testing and deploying solutions created in Solution Design as well as custom solutions created on one of the supported runtimes. During the process, extensive checks ensure that contained implementation code meets the domain model requirements, that dependencies are free of security issues and that target environments meet implementation criteria. As part of the process solutions are transformed into deployed applications that follow current best-practice architecture blueprints.

## **Solution Envoy**

Based on open-standard container technology like Kubernetes and Docker, this component provides a pre-configured and opinionated environment to run solutions. It's enhanced with additional services, like data storage, event processing and security, that allow for a seamless deployment and operation of truly cloud-native solutions with minimum effort. At the same time, Envoy is open for the integration of other services not developed in the Solution Design using open-standards-based interfaces like Swagger, OpenAPI or OAuth2/OIDC. It promotes current best practices for successful operations like log consolidation, monitoring, tracing and metering out of the box. Being based on proven open-source technology, Solution Envoy paves the way for scalability and robust and secure operations.

## **Value proposition for different personas**

### **Business analysts and subject matter experts**

The offering allows business analysts and subject matter experts to quickly model and design business domains without necessarily having to consult IT. While doing so, they establish a binding vocabulary that reduces friction and misunderstandings in their communication with the software development team. Solution Design helps them model their domain in a sound way, following proven methodologies of domain-driven design. Additionally, they use preconceived building blocks in the form of design packs to help them to focus on differentiating products instead of reinventing the wheel. Together, this allows business analysts to deliver solutions and open new revenue streams more quickly and cost-effectively.

### **Solution developers and solution architects**

Providing an opinionated yet open development and runtime environment, the IBM Financial Services Workbench allows developers and architects to dive into solving and implementing core business logic, rather than spending time choosing components. They can do that using familiar tools and can integrate components that aren't part of the IBM Financial Services Workbench. The business requirements are delivered as code that automatically reflects the line of business view as it's currently defined in the Solution Design. This facilitates the work of software developers and architects. The IBM Financial Services Workbench places them in a position to develop cloud-native, API-driven solutions even without a profound cloud education and experience.

### **Corporate IT**

With the IBM Financial Services Workbench, corporate IT and its decisionmakers gain an option to boost their journey into the cloud world. It offers them a pre-configured, best-practice, ready-to-use environment that they can use to confidently bring future-proof, cloud-native solutions into production. As it uses open standards, the suite does not lock in companies, but rather grants access to the world of APIs and cloud services, accelerating the digital transformation of the organization.

### **IT operations**

The IBM Cloud Pak for Data platform is based on open standards and enables IT Operations to rapidly deploy a wide variety of cloud workloads. It provides easy scalability and elasticity and comes with built-in tools to control and monitor secure operations. The platform and the IBM Financial Services Workbench build on widely accepted and proven technology and allow for a fully supported migration of existing investments, paving the way into a cloud-based future.

## Why IBM?

Infused with AI, IBM offers an intelligent data catalog and governance platform that simplifies and accelerates how knowledge workers make decisions. IBM products and services strengthen enterprise governance by delivering trusted data for insights and compliance at scale.

## For more information

To learn more about IBM Cloud Pak for Data, contact your IBM representative or visit:  
<https://www.ibm.biz/icp4data>.

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