



Services and Integrations



Agenda

- Identify how you can extend the functionality of IBM Cloud Pak for Data
 - Identify the services that are available in the catalog
 - Identify the services that are available outside of the catalog
 - Integrate IBM Cloud Pak for Data with other applications
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Services and Integrations

You can extend the functionality of IBM® Cloud Pak for Data by installing services and by integrating Cloud Pak for Data with other applications.

Services in the Catalog

AI

Service	Provided by	Pricing	Learn more
Watson™ Assistant	IBM	Separately priced	<p>Build conversational interfaces into any app, device, or channel.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Assistant • Usage information: Building an assistant with Watson Assistant
Watson Discovery	IBM	Separately priced	<p>Find answers and uncover insights in your complex business content.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Discovery • Usage information: Finding answers with Watson Discovery
Watson Knowledge Studio	IBM	Separately priced	<p>Teach Watson the language of your domain.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Knowledge Studio • Usage information: Creating a machine learning model with Watson Knowledge Studio <p>Included in the separately priced Watson API Kit package.</p>
Watson Machine Learning	IBM	Included with Cloud Pak for Data	<p>Deploy machine-learning models into production at scale.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Machine Learning • Usage information: Building and deploying models with Watson Machine Learning

Service	Provided by	Pricing	Learn more
Watson Natural Language Understanding	IBM	Separately priced	<p>Take your understanding of unstructured data to a new level by extracting entities, keywords, sentiments, and more.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Natural Language Understanding • Usage information: Analyzing semantics with Watson Natural Language Understanding <p>Included in the separately priced Watson API Kit package.</p>
Watson OpenScale	IBM	Included with Cloud Pak for Data	<p>Infuse your AI with trust and transparency. Understand how your AI models make decisions to detect and mitigate bias.</p> <ul style="list-style-type: none"> • Installation information: Installing the Watson OpenScale service • Usage information: Validating and monitoring AI models with Watson OpenScale
Watson Studio	IBM	Included with Cloud Pak for Data	<p>Unleash the power of your data. Build custom models and infuse your business with AI and machine learning.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Studio • Usage information: Analyzing data
Watson Speech to Text	IBM	Separately priced	<p>Quickly convert audio and voice into written text.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Speech to Text • Usage information: Transcribing speech with Watson Speech to Text <p>Included in the separately priced Watson API Kit package.</p>
Watson Text to Speech	IBM	Separately priced	<p>Convert written text into natural-sounding speech.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Text to Speech • Usage information: Synthesizing speech with Watson Text to Speech <p>Included in the separately priced Watson API Kit package.</p>

IBM Analytics Services

→ [Analytics Engine powered by Apache Spark](#)

→ [Cognos Analytics](#)
Self-service analytics, infused with AI and machine learning, enable you to create stunning visualizations and share your findings through dashboards and reports.

→ [Data Refinery](#)
Simplify the process of preparing large amounts of raw data for analysis.

→ [Execution Engine for Apache Hadoop](#)

→ [SPSS Modeler](#)
Create flows to prepare and blend data, build and manage models, and visualize the results.

→ [Extending Cloud Pak for Data with IBM Streams](#)

You can develop and run applications that process in-flight data with the IBM Streams service. Streams enables continuous and fast analysis of massive volumes of moving data to help improve the speed of business insight and decision making.

Dashboards

Service	Provided by	Pricing	Learn more
Analytics Dashboards	IBM	Included with Cloud Pak for Data	<p>Identify patterns in your data with sophisticated visualizations. No coding needed.</p> <ul style="list-style-type: none">• Installation information: Installing Analytics Dashboards• Usage information: Analytics dashboards

Data Governance

Service	Provided by	Pricing	Learn more
DataStage® Edition	IBM	Separately priced	<p>Effortlessly deliver data at the right time to the right place with integration, transformation, and delivery of data in batch and real time.</p> <ul style="list-style-type: none"> • Installation information: Installing the DataStage Edition service • Usage information: Transforming data (DataStage Edition)
Regulatory Accelerator	IBM	Included with Cloud Pak for Data	<p>Streamline the process of complying with regulations.</p> <ul style="list-style-type: none"> • Installation information: Installing Regulatory Accelerator • Usage information: Governing data to comply with regulations with Regulatory Accelerator
Watson Knowledge Catalog	IBM	Included with Cloud Pak for Data	<p>Find the right data fast. Discover relevant, curated data assets using intelligent recommendations and user reviews.</p> <ul style="list-style-type: none"> • Installation information: Installing Watson Knowledge Catalog • Usage information: Governing and curating data (Watson Knowledge Catalog)

Data Sources

Service	Provided by	Pricing	Learn more
CockroachDB	Third party	Separately priced	<p>An SQL database with the scalability of a NoSQL database and the reliability of a transactional RBDMS.</p> <ul style="list-style-type: none"> Installation information: https://www.cockroachlabs.com/docs/stable/ Usage information: https://www.cockroachlabs.com/docs/stable/
Data Virtualization	IBM	Included with Cloud Pak for Data	<p>Query many data sources as one.</p> <ul style="list-style-type: none"> Installation information: Installing Data Virtualization Usage information: Virtualizing data (Data Virtualization)
IBM Db2® Advanced Edition	IBM	Separately priced	<p>Relational database that delivers advanced data management and analytics capabilities for transactional workloads.</p> <ul style="list-style-type: none"> Installation information: Installing the Db2 Advanced Edition service Usage information: Working with integrated IBM Db2 Advanced Edition databases
IBM Db2 Event Store	IBM	Included with Cloud Pak for Data	<p>Data store designed to rapidly ingest and analyze streamed data for event-driven applications.</p> <ul style="list-style-type: none"> Installation information: Installing the Db2 Event Store service Usage information: Working with integrated IBM Db2 Event Store databases
IBM Db2 Warehouse	IBM	Included with Cloud Pak for Data	<p>Data warehouse designed for high-performance, in-database analytics. Runs on a single node for cost-efficiency or on multiple nodes for improved performance.</p> <ul style="list-style-type: none"> Installation information: Installing the Db2 Warehouse service Usage information: Working with integrated IBM Db2 Warehouse databases

Service	Provided by	Pricing	Learn more
Db2 for z/OS® Connector	IBM	Included with Cloud Pak for Data	<p>Create databases in Db2 for z/OS and work directly with the data from Cloud Pak for Data.</p> <ul style="list-style-type: none"> • Installation information: Installing the Db2 for z/OS Connector service • Usage information: Working with Db2 for z/OS databases (Db2 for z/OS Connector)
MongoDB	Third party	Separately priced	<p>Scalable, open source NoSQL database.</p> <ul style="list-style-type: none"> • Installation information: Installing the MongoDB service • Usage information: Working with integrated MongoDB databases
PostgreSQL	Third party	Included with Cloud Pak for Data	<p>Open source object-relational database designed for developers.</p> <ul style="list-style-type: none"> • Installation information: Installing the PostgreSQL service • Usage information: Working with integrated PostgreSQL databases

Developer Tools

Service	Provided by	Pricing	Learn more
Jupyter Notebooks with Python 3.6 for GPU	IBM	Included with Cloud Pak for Data	<p>An optional development environment for Watson Studio that enables you to create Jupyter Notebooks that use GPU-accelerated Python 3.6 libraries.</p> <ul style="list-style-type: none"> • Installation information: Installing Jupyter notebooks with Python 3.6 GPU • Usage information: GPU environments (Watson Studio)
Jupyter Notebooks with R 3.6	IBM	Included with Cloud Pak for Data	<p>An optional development environment for Watson Studio that enables you to create Jupyter Notebooks that use R 3.6 libraries.</p> <ul style="list-style-type: none"> • Installation information: Installing Jupyter notebooks with R 3.6 • Usage information: Notebook environments (Watson Studio)
Open Source Management	IBM	Included with Cloud Pak for Data	<p>Make it easy for developers and data scientists to find and access approved open source packages.</p> <ul style="list-style-type: none"> • Installation information: Installing Open Source Management • Usage information: Accessing approved open source packages with Open Source Management
RStudio Server with R 3.6	IBM	Included with Cloud Pak for Data	<p>Optional development environment for working with R.</p> <ul style="list-style-type: none"> • Installation information: Installing RStudio • Usage information: RStudio

Industry solutions

Service	Provided by	Pricing	Learn more
Financial Crimes Insight®	IBM	Separately priced	<p>Simplify the process of detecting and mitigating financial crimes with AI and regulatory expertise.</p> <ul style="list-style-type: none"> • Installation information: Installing the Financial Crimes Insight solution • Usage information: Detecting and investigating financial crimes
Financial Services Workbench	IBM	Separately priced	<p>Design, implement, and deliver microservices that transform digital business opportunities into cloud-native solutions.</p> <ul style="list-style-type: none"> • Installation information: https://fswb-documentation.knowis.net/latest/installation/content/installation • Usage information: https://fswb-documentation.knowis.net/latest/
Prolifics Customer Prospecting Accelerator	Third party	Separately priced	<p>Unlock reliable sales leads and increase customer acquisition.</p> <ul style="list-style-type: none"> • Installation information: https://www.prolifics.com/cloud-pak-for-data • Usage information: https://www.prolifics.com/insights/videos/customer-prospecting-accelerator

Storage

Service	Provided by	Pricing	Learn more
NetApp ONTAP	Third party	Separately priced	<p>Unify and simplify your data infrastructure—across edge, core, and cloud.</p> <ul style="list-style-type: none">• Installation information: Install Trident• Usage information: What is Trident
Portworx	Third party	Separately priced	<p>Portworx provides essential cloud native storage to address these needs effortlessly.</p> <ul style="list-style-type: none">• Installation information: Install Portworx on Kubernetes via Helm• Usage information: Portworx documentation

Services outside the Catalog

Service	Category	Provided by	Pricing	Learn more
Watson™ Language Translator	AI	IBM	Separately priced	<p>Translate text into different languages.</p> <ul style="list-style-type: none"> Installation information: Installing Watson Language Translator Usage information: Translating text with Watson Language Translator
Watson Assistant for Voice Interaction	AI	IBM	Separately priced	<p>A bundle of services that deliver a Watson-based voice automation system.</p> <ul style="list-style-type: none"> Installation information: Installing Watson Assistant for Voice Interaction Usage information: Enhancing call center operations with Watson Assistant for Voice Interaction
Watson Machine Learning Accelerator	AI	IBM	Separately priced	<p>An end-to-end, deep learning platform for data scientists.</p> <ul style="list-style-type: none"> Installation information: Installing Watson Machine Learning Accelerator Usage information: Submitting workload to Watson Machine Learning Accelerator

Industry accelerators

- The industry accelerators that are provided by IBM are a set of artifacts that help you address common business issues.

Accelerator	Description
Contact Center Optimization	<p>Improve the productivity of your customer contact center. This accelerator includes more than 95 business terms and enables you to effectively analyze the productivity of your contact center. Your data scientists can use the data associated with this glossary to discover patterns related to:</p> <ul style="list-style-type: none"> • Agent productivity • Contact center usage <p>When you import the accelerator, the terms are added to your business glossary under the Contact Center Optimization category.</p> <p>Industry: Cross-industry</p>
Credit Card Fraud	<p>Quickly detect credit card fraud to reduce financial losses and protect you and your customers. This accelerator includes more than 135 banking business terms and enables you to flag suspicious credit card activity to quickly identify credit card fraud.</p> <p>Industry: Banking</p>
Customer 360 Degree View	<p>Get a complete picture of your customer base. This accelerator includes more than 70 business terms and enables you to gain insight into facets such as:</p> <ul style="list-style-type: none"> • Customer segmentation • Credit risk • Loyalty • Social media sentiment <p>Industry: Cross-industry</p>

Accelerator	Description
Customer Attrition Prediction	<p>Discover why your customers are leaving. This accelerator includes more than 100 business terms and a set of sample data science assets that enable you quickly identify customers who are likely to churn so that you can get to the root of the problem.</p> <p>This accelerator replaces the Customer Churn Management accelerator, which included only business terms.</p> <p>Industry: Banking</p>
Customer Life Event Prediction	<p>When you can see the future, you can plan ahead for the financial wellness of your client by reaching out with the right offer at the right time. This accelerator includes more than 100 business terms and a set of sample data science assets.</p> <p>Industry: Banking</p>
Customer Offer Affinity	<p>Identify the right financial products and investment opportunities for new and existing clients. This accelerator includes more than 190 business terms and a set of sample data science assets to help you determine which offers will be most relevant to your clients.</p> <p>Industry: Banking</p>
Customer Segmentation	<p>Easily differentiate between client segments by identifying patterns of behavior. Go beyond the traditional demographic markers, such as age, income, and gender, with an algorithm that identifies common behavioral patterns. This accelerator includes more than 100 business terms and a set of sample data science assets.</p> <p>Industry: Banking</p>

Accelerator	Description
Intelligent Maintenance Prediction	<p>Reduce your costs by scheduling maintenance at just the right time. Use predictive analytics and machine learning to optimize your maintenance schedule based on the costs that you will incur. This accelerator includes more than 100 business terms and a set of sample data science assets.</p> <p>Industry: Telco</p>
Loan Default Analysis	<p>Identify potential credit risks in your loan portfolio. This accelerator includes more than 135 banking business terms and enables you to assess whether a loan is a safe bet or a big risk for credit exposure.</p> <p>Industry: Banking</p>
Streaming Analytics for Customer Life Event Prediction	<p>Extend the Customer Life Event Prediction accelerator with streaming data. When you can see the future, you can plan ahead for the financial wellness of your client by reaching out with the right offer at the right time. And with streaming data, you can generate timely, actionable alerts. This accelerator includes more than 100 business terms and a set of data science assets.</p> <p>Industry: Banking</p>

Service	Required for
Decision Optimization	Making recommendations based on data. See Installing Decision Optimization .
Watson™ Knowledge Catalog	Importing data governance artifacts, such as business terms and categories. See Installing Watson Knowledge Catalog .
Watson Studio	Importing data science assets to an analytics project. See Installing Watson Studio .
Watson Machine Learning	Deploying analytical models. See Installing Watson Machine Learning .
RStudio	Running R Shiny apps. See Installing RStudio .
Streams	Streaming analytics. See Installing Streams .

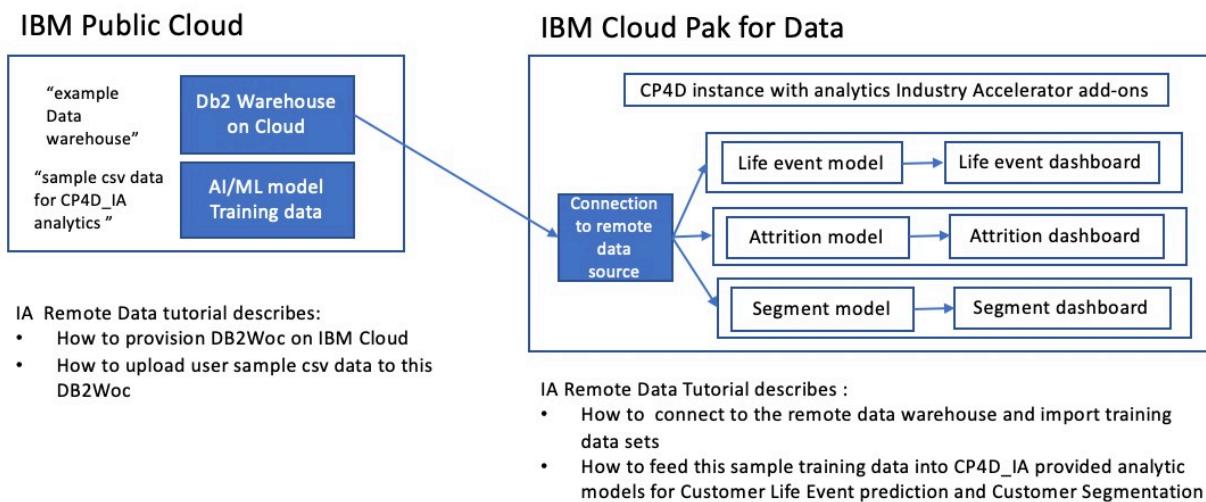
Integrations

- Auditing your sensitive data with IBM Guardium

Lab

- Tutorial on importing remote data for use with Cloud Pad for Data Industry Accelerators

Remote Sample training data import into IBM Cloud Pak for Data



Do you want to talk about Installation, you might want to... because services will be easy after that..

Reference Links

- https://www.ibm.com/support/producthub/icpdata/docs/content/SSQNUZ_current/cpd/svc/svc.html