

IBM Db2 11.5.6 delivers enhancements to help automate data management and support artificial intelligence data workloads

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Overview

IBM^(R) Db2^(R) 11.5.6 is an enterprise-ready data management system with integrated data and artificial intelligence (AI) capabilities that is built on the security-rich and scalable Red Hat^(R) OpenShift^(R) foundation.

Db2 11.5.6 enhancements include the following:

- Integrated machine learning.
- Graph database with stand-alone user interface (UI).
- Click-to-Containerize migration tool.
- Spatial analytics enhancements.
- Db2 pureScale^(R) enhancements, including health-monitoring improvements.
- Columnar online schema-level backup and restore enhancements.
- Improved Trickle Feed Insert performance, reduced memory requirements for insert processing, and reduced storage requirements.
- Advanced Log Space Management (ALSM). Support for high-availability disaster recovery (HADR), traditional backup, restore, and roll-forward support.
 - Multiple standby support for HADR in a Kubernetes environment.
- Adaptive workload management. Integrated CPU control, support row-store table workload.
- 2-node HADR support with pacemaker. Enhanced network resiliency and problem determination.
- Data management console:
 - Role-based access to the console
 - Monitoring reports enhancements
 - Dark theme
 - Console event monitor enhancements
 - Integrations
- Containerization:
 - Red Hat OpenShift 4.6 support. Db2 on Cloud Pak for Data does not support Red Hat OpenShift Container Platform (OCP) 3.11 but continues to support OCP 4.6.
 - Red Hat OpenShift Operator Framework. Db2 on Cloud Pak for Data is deployed using operators.

- Cloud Pak for Data Storage Support. New storage support for IBM Red Hat OpenShift Kubernetes (ROKS) virtual private cloud (VPC) Gen2 cluster with Red Hat OpenShift Container Storage (OCS) and additional version support for existing storage options.
- Db2 containerized deployment (for online transaction processing [OLTP], data warehousing, and more). Multiple database support on a single deployment.
- Multiple standby support for HADR.

Key requirements

For details, see the [Software requirements](#) section.

Planned availability date

June 29, 2021

Description

The Db2 family of hybrid data management solutions is built on an intelligent common SQL engine that is designed for scalability and flexibility and to run workloads in many deployment forms, including on-premises, private cloud, and public cloud. Db2 11.5.6 is available in three editions:

- Db2 Community Edition (without charge)
- Db2 Standard Edition
- Db2 Advanced Edition

All three editions provide unrestricted access to the full feature set of Db2.

Db2 11.5.6 delivers a modernized database management system focused on modern deployments (Click-to-Containerize and Db2 on Cloud Pak for Data operator) and the support of modern workloads (Db2 Graph with stand-alone UI and machine learning optimizer technology preview).

Db2 11.5.6 provides the next generation of resilience and enterprise-level core capabilities (recoverability enhancements, Db2 for SAP enhancements, compression enhancements, and availability enhancements). The new Data Management Console has several usability enhancements.

Db2 11.5.6 addresses a wide variety of business requirements through the following features:

- A built-in graph solution
- Lightweight and simple migration tools to accelerate an organization's journey towards the cloud
- Installation and upgrade of Db2 containerized deployments using Red Hat operators designed for faster deployment and easier database management
- Db2 Data Management Console enhancements

Db2 Graph is an enterprise-grade in-database graph solution with no additional cost to existing Db2 licenses. It queries data and relationships with existing relational tables and supports graph analytics and traditional SQL on the same data.

Enhancements in Db2 11.5.6 include the following:

- A UI to create graph models and visualize graph results
- Dynamic graphs that enable you to add and edit graphs without restarting the server

- Per-user authentication and querying
- Optimization strategies that can improve performance when navigating across the edge

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Report Request](#) website.

Reference information

For more information about Db2, see Software Announcement [ZP19-0261](#), dated June 4, 2019.

Program number

Program number	VRM	Program name
5737-K73	11.5.6	IBM Db2 Advanced Edition
5737-K74	11.5.6	IBM Db2 Standard Edition

Offering Information

Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage^{\(R\)} and Passport Advantage Express](#) website.

Publications

None.

Services

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Technical information

Specified operating environment

Software requirements

Db2

IBM AIX^(R) 7.2 on Power^(R) System - Big Endian

Hybrid Data Management Platform

The operating system support level for various IBM Hybrid Data Management Platform products is frequently updated. To obtain the current information for supported software levels, including recommended maintenance levels, see the [Hybrid data management](#) website.

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Planning information

Packaging

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Passport Advantage

Charge metric

The charge metrics for these licensed products can be found in the following License Information documents:

Program identifier	License Information document title	License Information document number
5737-K73	IBM Db2 Advanced Edition	L-MSHB-BXDS8E
5737-K74	IBM Db2 Standard Edition	L-MSHB-BXDSL3

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

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License Information number

The following License Information documents apply to the offerings in this announcement:

Program identifier	License Information document title	License Information document number
5737-K73	IBM Db2 Advanced Edition	L-MSHB-BXDS8E
5737-K74	IBM Db2 Standard Edition	L-MSHB-BXDSL3

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Limited warranty

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Enhanced support

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Volume orders (IVO)

No

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Variable charges apply

No

Educational allowance available

Education allowance does not apply. Education software allowance does not apply. Special education prices are available for qualified clients through Passport Advantage.

Statement of good security practices

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Announcement countries

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