

IBM Big Replicate LiveData Migrator migrates changing data at scale from Apache HDFS to user choice of target environments; IBM Db2 Big SQL 7.1 on CDP Private Cloud Base 7.1.3 accelerates your digital transformation journey

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At a glance

IBM[®] Big Replicate LiveData Migrator is designed to automate cloud migration at scale with no application downtime and no risk of data loss, even when the data sets are under active change.

Advantages include:

- As changes occur anywhere in the donor system, Big Replicate LiveData Migrator creates and helps ensure beneficiary data consistency.
- With one-click replication across all major commercial Hadoop distributions and storage and analytic services, Big Replicate LiveData Migrator minimizes IT resources while requiring only one pass of the source storage.
- Through enhanced migration target options, users can choose to migrate data to Microsoft[™] Azure Data Lake Storage Gen2 (ADLS Gen2), Apache Hadoop Distributed File System (HDFS), local file systems, or Amazon S3.

Overview

IBM Big Replicate LiveData Migrator

Big Replicate LiveData Migrator migrates HDFS data to other Hadoop-compatible file systems and cloud storage, including ongoing changes made to those data before, throughout, and after migration. This data solution is purpose-built to migrate data lake content easily and simply for architects, administrators, and operators. It is immediate, live, and scalable. Organizations can manage their migrations through a robust and intuitive command-line interface or from the self-documenting REST API, track and monitor migration progress, and take advantage of optional management capabilities in the browser-based user interface.

Differentiating factors of Big Replicate LiveData Migrator:

- Hadoop and object storage. Works across a variety of big data source and target environments, including all major Hadoop and object storage technologies.
- Petabyte scale. Migrates big data sets at scale to cloud storage and eliminates the need to halt changes made to the data sets during migration.
- Selective migration. Provides flexible options that enable users to select only those data sets that they want to migrate. Administrators can define

replication policies that identify and control the data that is replicated between clusters, selectively exclude data from migration to specific clusters in the new environment, or move the data to an archive.

- One pass. Migrates existing data sets with a single pass through the source storage system, eliminating the overhead of repeated scans.
- Consensus-based consistency. Incorporates changes that are made to the data sets under migration with a strongly consistent distributed consensus engine, enabling applications to continue to modify the donor system's data without causing divergence between donor and beneficiary.
- Strengthened consistency. As changes occur anywhere in the donor system, LiveData Migrator creates and helps ensure beneficiary data consistency.

For IBM Big Replicate version mapping to WANdisco Fusion releases, see [Big Replicate Mapping](#).

IBM Big Replicate now delivers a committed term license option. Like monthly licenses, committed term licenses enable clients to purchase IBM software in a cloud-centric model. This new purchasing model aligns to cloud-centered consumption models.

As organizations adopt multicloud architectures for their most critical applications, an alignment of pricing and consumption models becomes of utmost importance.

Committed term licenses are designed and priced to:

- Make it easier for organizations to acquire IBM software
- Align consumption models and spend to those clients accustomed to cloud-based solutions
- Align with the Red Hat^(R) subscription model to deliver a consistent buying experience across product portfolios

Committed term licenses will be available for new license sales or expansion of existing IBM software licenses. Committed term licenses can be procured for a minimum of 12 months.

IBM Db2^(R) Big SQL

IBM Db2 Big SQL, an advanced SQL engine for Big Data, is making strides with the fast-evolving open source ecosystem by supercharging analytical workloads on Hadoop platforms. The core capabilities of Big SQL focus on SQL compatibility, scalability, performance, and of course enterprise security/governance, making it a desirable query engine to seek insights from Big Data.

Db2 Big SQL is now available on Cloudera Data Platform Private Cloud Base (previously called CDP Data Center) 7.1.3. Db2 Big SQL. It allows data engineers and data scientists to analyze the structured and unstructured data already stored on HDFS. This Db2 format is optimized for open source file formats stored in Hadoop. Highlights include:

- Integration with CDP Private Cloud Base 7.1.3:
 - Tight integration with components such as Hadoop, Hive, Cloudera Manager, and Ranger
 - ACID capabilities for changing data
 - Zookeeper-based solution for HA automatic failover
 - Big SQL upgrade from legacy platforms to the latest, unified platform
- Capability to create and centrally manage data access policies using Ranger for Db2 Big SQL tables:
 - Add support for column-level Ranger tag-based policies for fine grained access controls on data
 - Enhance Ranger policies on Big SQL tables to have both column masking and row filtering through Ranger UI

- Extend the Ranger column masking/row-filtering policies to Hadoop tables and federated tables (Nicknames only)
- SQL core:
 - Enhanced SQL core by improving reader/writer operations and enhanced error handling to improve trouble-shooting of client issues
 - Extended federation capabilities to query data in Blockchain from a single SQL engine
 - Added support for ACID on Hive tables that are compacted to merge the changes to a table
- Performance:
 - Enhanced Scheduler to better coordinate operations between Big SQL workers in data nodes

With its advanced SQL capabilities, Db2 Big SQL enables business intelligence tools to directly connect for interactive SQL analytics with high performance and high concurrency without data duplication or vendor lock-in. With changing platforms, Big SQL provides a stable environment for applications and avoid unnecessary query rewrites with platform changes or migrations. Port business intelligence applications for business intelligence tools including Cognos[®], Tableau, and others using ODBC or JDBC connections. With its support for popular open source file formats such as Parquet, ORC, Avro, Text, Sequence, and so on, data engineers and data scientists can access data directly by using their tool of choice and can build, test, and deploy models seamlessly using Db2 Big SQL.

Key requirements

IBM Big Replicate LiveData Migrator

Supports Red Hat Enterprise Linux[®] (RHEL) and CentOS operating systems.

IBM Db2 Big SQL

Supports RHEL and CentOS operating systems.

For details, see the [Hardware requirements](#) and the [Software requirements](#) sections.

Planned availability date

October 6, 2020

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 IBM Db2 Big SQL, see Software Announcement [220-141](#), dated March 24, 2020.

Program number

Program number	VRM	Program name
5737-N62	1.4.7	IBM Big Replicate LiveData Migrator
5737-E74	7.1.0	IBM Db2 Big SQL
5737-H85	1.0.0	IBM Big Replicate for Hadoop
5737-H86	1.0.0	IBM Big Replicate for Object Stores
5737-H87	1.0.0	IBM Big Replicate for Hive
5737-H88	1.0.0	IBM Big Replicate for Security
5737-J36	1.0.0	IBM Big Replicate for Backup

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^{\(R\)}](#) website.

Publications

None

Services

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of the lab-based software services team and the business consulting, project management, and infrastructure expertise of the IBM Global Services team. Also, IBM extends the reach of IBM Software Services through IBM Business Partners to provide an extensive portfolio of capabilities. IBM provides the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Hardware requirements

IBM Big Replicate LiveData Migrator

Hadoop distributions:

- Cloudera Data Platform 5.5.0 - 6.3.x
- Hortonworks Data Platform 2.3.0 - 3.1.x
- Elastic MapReduce 5.3 - 5.4
- Google Data Proc 1.0 - 1.3
- ASF 2.7.x - 3.1
- IBM (IOP) 4.2.5
- MapR 5.0 - 6.1.0

Object storage:

- Amazon S3 compatible file systems
- Microsoft Azure Data Lake Storage Gen2 (ADLS Gen2)
- Apache Hadoop Distributed File System (HDFS)
- Local file systems

IBM Db2 Big SQL

- Minimum of 3 SKUs with each SKU of 4 nodes each (for example, 12 nodes, in cluster installation)
- Processor: x86 or IBM POWER^(R) 64-bit systems
- Memory: Minimum 24 GB of memory
- Disk space: Minimum 80 GB of disk storage
- Minimum 32 GB of disk storage on the management node
- Minimum 20 GB of disk storage on other nodes

Software requirements

IBM Big Replicate LiveData Migrator

Operating systems:

- RHEL 6 x86_64
- RHEL 7 x86_64
- CentOS 6 x86_64
- CentOS 7 x86_64

Web browsers:

- Mozilla Firefox 11, or later
- Google Chrome

JavaTM:

- Java JRE 1.7 and 1.8

IBM Db2 Big SQL

Operating systems:

- Red Hat Enterprise Linux (RHEL) Server 7.6, 7.7, and 7.8 (x86-64)
- CentOS 7.6, 7.7, and 7.8 (x86-64)

Platform:

- Cloudera Data Platform Data Center 7.1.3

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Planning information

Packaging

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These programs are only available through Passport Advantage. They are not available as shrinkwrap.

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To locate IBM Business Partners in your geography, see the [Find a Business Partner](#) page.

Passport Advantage

IBM Big Replicate LiveData Migrator (5737-N62)

Part number description	Part number
IBM Big Replicate LiveData Migrator Annual Terabyte Committed Term License	D291ULL

IBM Big Replicate for Hadoop (5737-H85)

Part number description	Part number
IBM Big Replicate for Hadoop Virtual Server Committed Term License	D2923LL

IBM Big Replicate for Object Stores (5737-H86)

Part number description	Part number
IBM Big Replicate for Object Stores Terabyte Committed Term License	D2924LL

IBM Big Replicate for Hive (5737-H87)

Part number description	Part number
IBM Big Replicate for Hive Install Committed Term License	D2925LL

IBM Big Replicate for Security (5737-H88)

Part number description	Part number
IBM Big Replicate for Security Install Committed Term License	D2926LL

IBM Big Replicate for Backup (5737-J36)

Part number description	Part number
IBM Big Replicate for Backup Install Committed Term License	D2927LL

Charge metric

The charge metrics for this licensed product can be found in the following License Information documents:

Program identifier	License Information document title	License Information document number
5737-N62	IBM Big Replicate LiveData Migrator	L-JPHR-BRPS2B

Program identifier	License Information document title	License Information document number
5737-E74	IBM Db2 Big SQL	L-JPHR-BR XR6T
5737-H85	IBM Big Replicate for Hadoop	L-JPHR-BPZKDQ
5737-H86	IBM Big Replicate for Object Stores	L-JPHR-BPZK5L
5737-H87	IBM Big Replicate for Hive	L-JPHR-BPZKJF
5737-H88	IBM Big Replicate for Security	L-MBIS-BJ63RD
5737-J36	IBM Big Replicate for Backup	L-MBIS-BKL2FA

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 offering in this announcement:

Program identifier	License Information document title	License Information document number
5737-N62	IBM Big Replicate LiveData Migrator	L-JPHR-BRPS2B
5737-E74	IBM Db2 Big SQL	L-JPHR-BR XR6T

Program identifier	License Information document title	License Information document number
5737-H85	IBM Big Replicate for Hadoop	L-JPHR-BPZKDQ
5737-H86	IBM Big Replicate for Object Stores	L-JPHR-BPZK5L
5737-H87	IBM Big Replicate for Hive	L-JPHR-BPZKJF
5737-H88	IBM Big Replicate for Security	L-MBIS-BJ63RD
5737-J36	IBM Big Replicate for Backup	L-MBIS-BKL2FA

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Limited warranty applies

Yes

Limited warranty

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If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

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Volume orders (IVO)

No

Passport Advantage applies

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Variable charges apply

No

Educational allowance available

Not applicable.

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