

Cloudera Data Platform Private Cloud Base with IBM and Cloudera Data Platform Private Cloud Base EDH with IBM deliver long-term service and fixes

Table of contents

1 Overview	6 Ordering information
3 Key requirements	7 Terms and conditions
3 Planned availability date	9 Prices
4 Program number	10 Order now
4 Publications	11 Regional availability
5 Technical information	

At a glance

Cloudera Data Platform Private Cloud Base with IBM^(R) delivers:

- Enhanced security and stability of Cloudera Data Platform Private Cloud Base with Service Pack 1 (SP1)
- Faster time to value with containerized data services and efficient hardware utilization
- Capability to leverage GPU-accelerated Apache Spark 3.0 to help remove bottlenecks and improve time to insight for data-driven enterprises
- Improved on-premises data storage performance with Apache Ozone object storage

Overview

Cloudera Data Platform Private Cloud with IBM delivers powerful analytic, transactional, and machine learning workloads in a hybrid data platform, combining the agility and flexibility of public cloud with the control of the data centre. With a choice of traditional and elastic analytics and scalable object storage, Cloudera Data Platform Private Cloud with IBM enables organizations to transform traditional monolithic cluster deployments into modern, more efficient platforms.

Cloudera Data Platform Private Cloud Base with IBM 7.1.7, Service Pack 1, is designated a Long Term Supported (LTS) release. A Service Pack (SP) is for clients who value a stable platform, service many users or use cases, and want low-risk, low-cost maintenance and operations.

Cloudera with IBM offerings generally have a three-year support period. This LTS release provides a stable version of the platform to be supported for four years from the initial release of Cloudera Data Platform Private Cloud Base with IBM 7.1.7 until August 2025. Periodic, cumulative hot fixes will be released to address any vulnerabilities or fixes to ensure this version remains secure. There will be no major changes or new features that require significant testing. This enables clients with complex cluster implementations or workloads that support critical business operations that need extensive testing to upgrade to a version of CDP Private Cloud Base that will remain stable, longer. Clients on LTS need only upgrade when the next LTS version is released.

Clients looking to utilize the latest feature set and innovations that Cloudera releases on Cloudera Data Platform should consider upgrading to the regular Feature Release cycle. Feature Releases are released more frequently and are typically supported for 18 months.

Cloudera Data Platform Private Cloud Base with IBM key features:

- Is deployed in traditional co-located workloads in a familiar cluster form factor, leveraging the latest open source analytics
- Offers a choice of data store options, including Hadoop Distributed File System (HDFS), Ozone, and third-party object storage, to help meet changing performance and scalability demands
- Provides security and governance with Cloudera Shared Data Experience (SDX), helping to enable safe and compliant data lakes with policy-based data access for more users
- Has direct in-place upgrade for Cloudera Distributed Hadoop (CDH) and Hortonworks Data Platform (HDP) deployments, which can yield improvements in speed, efficiency, and security

With Cloudera Data Platform Private Cloud, organizations can benefit from:

- Rapid time to value through simplified provisioning of easy-to-use, self-service analytics in minutes rather than days, to help enable rapid onboarding of new use cases
- Optimized resource utilization and the decoupling of compute and storage, which can help to lower data centre infrastructure costs
- Workload isolation and multi-tenancy management to help reduce the impact of spikes on critical workloads and missed SLAs and SLOs

Cloudera Data Platform Private Cloud Base with IBM 7.1.7 Service Pack 1 contains all hot fixes from previously released cumulative hot fixes, additional CVE, security updates, critical bug fixes, and minor certifications. The full list of updates in Service Pack 1 includes:

- 45 CVE and security fixes
- Critical bug fixes
- Consolidation of all hot fixes
- CVE fixes for Log4v2.x, Log4J v1 remediation
- A new document errata
- HSM partner certifications
 - Support for Thales HSM CipherTrust Manager 2.0
 - Support for GCP Cloud HSM
 - Support for the RSA/None/OAEPWithSHA512AndMGF1Padding CryptoAlgorithm as the encryptionAlgorithm of the LunaSAProvider
- OS and DB certifications
 - Support for PostgreSQL 14
 - Support for Maria DB 10.5

Cloudera Distributed Hadoop and Hortonworks Data Platform clients should upgrade to CDP Private Cloud Base for improved enterprise data management capabilities, new platform innovations, and with this LTS release, a stable version with extended support.

Cloudera Data Platform Private Cloud Base is offered as a defined capacity virtual server with 16 VPCs, 128 GB RAM, and up to 48 TB of storage. Variable charges apply when exceeding defined capacity.

For more information, see the [Cloudera Runtime component versions](#) web page.

Cloudera Data Platform Private Cloud Data Services with IBM 1.3.4 is an add-on offering for Cloudera Data Platform Data Private Cloud Base with IBM that offers containerized, cloud-native data services for data warehousing, machine learning, and data engineering.

Cloudera Data Platform Private Cloud Data Services has a per VPC metric.

Cloudera Data Platform Private Cloud -- GPU Add-on with IBM:

- Is powered by Cloudera Data Platform with NVIDIA RAPIDS and AI
- Offers a potential 3x-10x performance improvement for ETL and SQL-heavy data analytics compared to CPU-based architecture
- Helps speed up machine learning pipelines with popular RAPIDS libraries natively integrated and managed in CDP
- Helps accelerate data analytics on critical applications like Spark 3.0 without any code changes
- Offers a GPGPU metric.

Cloudera Data Platform HDFS Storage with IBM 7.1.7 SP1 provides the benefits of traditional HDFS storage.

This chargeable component has a per TB metric and is applicable to virtual servers that exceed the defined capacity of 48 TB.

Cloudera Data Platform Private Cloud Ozone or Third Party Storage with IBM 7.1.7 SP1:

- Is designed for big data workloads
- Requires no code change for Apache Spark, Apache Hive, and Apache Hadoop YARN by using ObjectFrontier Software (OFS) protocol
- Provides the benefits of traditional HDFS and S3 Object Storage
- Can scale capacity to hundreds of petabytes, thousands of nodes, and billions of objects
- Can help reduce storage cost by using commodity hardware
- Has a per TB metric and is applicable to virtual servers that exceed the defined capacity of 48 TB

Key requirements

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

Planned availability date

August 16, 2022

Availability within a country is subject to local legal requirements.

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 Reports](#) website.

Reference information

For more information about Cloudera Data Platform Private Cloud Base with IBM and Cloudera Data Platform Private Cloud Base EDH with IBM, see Software Announcement [A20-0473](#), dated July 14, 2020.

Program number

Program number	VRM	Program name
5737-M27	7.1.7	Cloudera Data Platform Private Cloud Base with IBM
5737-N18	7.1.7	Cloudera Data Platform Private Cloud Base EDH with IBM
5900-ASL	1.3.4	Cloudera Data Platform PvC Data Services w IBM

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

IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Systems Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients on-line or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

Systems Lab Services offers a wide range of infrastructure services for IBM Power^(R) servers, IBM Storage systems, IBM Z^(R), and IBM LinuxONE. Systems Lab Services has a global presence and can deploy experienced consultants on-line or onsite around the world.

For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the [IBM Systems Lab Services](#) website.

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With extensive consultative expertise on IBM Security software solutions, Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Expert Labs provides project-based and premier support service subscriptions.

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For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the [IBM Security Expert Labs](#) website.

Technical information

Specified operating environment

Software requirements

Cloudera Data Platform Private Cloud

For details, see the [CDP Private Cloud Base Requirements and Supported Versions](#) documentation.

IBM Support

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Planning information

Packaging

This offering is delivered through the internet as an electronic download. There is no physical media.

Ordering information

For ordering information, consult your IBM representative or IBM Business Partner, or go to the [Passport Advantage](#) website.

These programs are available only through Passport Advantage.

Passport Advantage

Cloudera Data Platform Private Cloud Base with IBM (5737-M27)

Part number description	Part number
Cloudera Data Platform Private Cloud Ozone or 3rd Party Storage with IBM Terabyte Subscription License	D0BEHZX
Cloudera Data Platform Private Cloud - GPU Add-on with IBM General Purpose Graphics Proc Unit Subscription License	D0BEGZX
Cloudera Data Platform Private Cloud HDFS Storage with IBM Terabyte Subscription License	D0BGJZX

Cloudera Data Platform Private Cloud Base EDH with IBM (5737-N18)

Part number description	Part number
Cloudera Data Platform Private Cloud Ozone or 3rd Party Storage and EDH with IBM Terabyte Subscription License	D0BEJZX
Cloudera Data Platform Private Cloud HDFS Storage and EDH with IBM Terabyte Subscription License	D0BGKZX

Part number description	Part number
Cloudera Data Platform Private Cloud Data Services with IBM Virtual Processor Core Subscription License	D0BGIZX

Charge metric

Charge metric information can be found in the corresponding License Information document.

Program number	License Information document title	License Information document number
5737-M27	Cloudera Data Platform Private Cloud Base with IBM	L-EWLE-CEKPBH
5737-N18	Cloudera Data Platform Private Cloud Base EDH with IBM	L-EWLE-CEKP9D
5900-ASL	Cloudera Data Platform PvC Data Services w IBM	L-EWLE-C8TV25

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License Information number

Program number	License Information document title	License Information document number
5737-M27	Cloudera Data Platform Private Cloud Base with IBM	L-EWLE-CEKPBH
5737-N18	Cloudera Data Platform Private Cloud Base EDH with IBM	L-EWLE-CEKP9D
5900-ASL	Cloudera Data Platform PvC Data Services w IBM	L-EWLE-C8TV25

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Yes

Limited warranty

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Volume orders (IVO)

No

Passport Advantage applies

Yes, information is available on the [Passport Advantage and Passport Advantage Express](#) website.

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Yes. Software Subscription and Support, also referred to as Software Maintenance, is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

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For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the [Passport Advantage and Passport Advantage Express](#) website.

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

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