

Hortonworks Data Platform for Enterprise Data Lakes delivers robust, big data analytics that accelerate decision making and innovation

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Overview

Hortonworks Data Platform is an enterprise ready open source Apache Hadoop distribution based on a centralized architecture supported by YARN. Hortonworks Data Platform is designed to address the needs of data at rest, power real-time customer applications, and deliver big data analytics that can help accelerate decision making and innovation.

The official Apache versions for Hortonworks Data Platform V2.6.4 include:

- Apache Accumulo 1.7.0
- Apache Atlas 0.8.0
- Apache Calcite 1.2.0
- Apache DataFu 1.3.0
- Apache Falcon 0.10.0
- Apache Flume 1.5.2
- Apache Hadoop 2.7.3
- Apache HBase 1.1.2
- Apache Hive 1.2.1
- Apache Hive 2.1.0
- Apache Kafka 0.10.1
- Apache Knox 0.12.0
- Apache Mahout 0.9.0
- Apache Oozie 4.2.0
- Apache Phoenix 4.7.0
- Apache Pig 0.16.0
- Apache Ranger 0.7.0
- Apache Slider 0.92.0
- Apache Spark 1.6.3
- Apache Spark 2.2.0
- Apache Sqoop 1.4.6
- Apache Storm 1.1.0
- Apache TEZ 0.7.0
- Apache Zeppelin 0.7.3

- Apache ZooKeeper 3.4.6

IBM^(R) clients can download this new offering from Passport Advantage^(R).

Key prerequisites

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

Planned availability date

March 20, 2018

Description

Apache Components

Atlas

Enterprise readiness

- Atlas to support KnoxSSO authentication ([AMBARI-18818](#), [ATLAS-1244](#))

Cloud

- Shared services HDC: Atlas ([AMBARI-19007](#))
- Install and configure Atlas hook components independently of Atlas admin components

Core capabilities

- Manually create entities ([ATLAS-1193](#))
- Higher-level API - Simplify and streamline usecases
- Integration of ATLAS with Hive 2 ([ATLAS-1280](#))

Integration

SmartSense data capture for Atlas ([ATLAS-1436](#))

HDFS

Enterprise readiness

- Detect slow disks and slow data nodes

Hive

HDP 2.6.0 includes two versions of Apache Hive, one based on the Hive 1 branch, meant for batch processing and one based on the Hive 2 branch, meant for interactive processing. Hortonworks applies stabilizations, bug fixes, and features from the trunk code base as deemed appropriate, so neither of these is identical to any specific released build in Apache. Specific details on the differences are provided [here](#).

HDP deployments driven by Apache Ambari can deploy both Hive 1 and Hive 2 side by side. In this setup, Hive 2 features are accessed through the Hive LLAP interface.

- Hive LLAP (Hive 2 only)
- ACID Merge (Hive 1 and 2)

Hue

Ease of use

- GA criteria for Hue migration tool

Knox

Security features

- Knox support for Hadoop user-group mapping ([KNOX-237](#))
- Support for Linux^(R) user authentication via PAM ([KNOX-537](#))

Integration

- Add support for WebSockets to Knox

Phoenix

Reliability

- Phoenix index stability improvements

Ranger

Security features

- Tag-based security expand for existing type common to Atlas + Ranger: Kafka, HDFS, Hbase ([RANGER-1233](#))
- Ranger authorization for "show Databases/Tables/Columns/Views" or "describe database/schema/table" permissions on HiveServer2 ([RANGER-1195](#), [RANGER-1204](#))
- Support for \$username variable in Ranger policies ([RANGER-698](#))

Integration

- SmartSense rules: Product analytics for Ranger ([RANGER-1304](#))

Enterprise readiness

- Support governance and security features for Beacon - Ranger
- Policy versions in use for each Ranger plug-in ([RANGER-1230](#))
- UI hints for Audit search for Ranger Audit Logs & Policy Search on Report Manager or Policy Listing Page ([RANGER-1227](#))
- Change Ranger Admin start script to setup db for ranger ([AMBARI-18065](#))
- Export/import of policies in Ranger ([RANGER-1214](#))
- Ranger usersync improvement - Incremental, group filtered usersync with additional attributes ([RANGER-1211](#))

Spark

Ease of use

- [Codev 2016-17] Support virtualenv in PySpark ([SPARK-13587](#))

Integration

- Umbrella - Provide Spark 2 GA on HDP: Features across Spark, Livy, and Zeppelin components
- Spark HBase connector enhancements

Enterprise readiness, security

- Spark Thrift Server doAs support for identity propagation, for Spark SQL queries
- Livy API (version 0.3) for REST-based access to Spark and Spark2 jobs, including support for Kerberos authentication and high availability

Core capabilities

- Support for user-defined functions in SparkR
- Support in SparkR for additional large-scale machine learning algorithms

Storm

Integration

- Connectivity enhancements: Kinesis spout, openTSDB bolt, new Kafka Consumer spout

YARN

Enterprise readiness

- Queue priorities to allow high-priority services (for example, LLAP) to run in a shared cluster ([YARN-5864](#))
- Fault tolerance of Slider apps
- Support port range for YARN apps

Zeppelin

Core capabilities

- Zeppelin to work with Spark version 2.x

Ease of use

- Improve JDBC interpreter
- Improve Zeppelin Livy integration
- Support multiple SQL statements in one notebook paragraph

Enterprise readiness, security

- Knox-based LDAP authentication ([Zeppelin-1472](#))
- Improvements to LDAP authentication ([Zeppelin-1611](#))

Integration

- Umbrella - Provide Spark 2 GA on HDP: Features across Spark, Livy, and Zeppelin components
- Support for Phoenix interpreter

The Hortonworks Data Platform part is being released under the following restriction.

This part can only be purchased by clients who qualify any of the below stated scenarios:

- Have existing IBM BigInsights^(R) entitlement
- Have IBM Db2^(R) Big SQL in Enterprise Licensing Agreement (ELA) catalog
- Have IBM Db2 Big SQL entitlements and are currently having HDP support subscription from Hortonworks

Program number

Program number	VRM	Program name
5737-H46	2.6.0	Hortonworks Data Platform

Offering Information

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

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

Publications

Technical documentation can be found in [IBM Knowledge Center](#).

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 our lab-based Software Services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Together, we provide 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

Although there is no single hardware requirement for installing HDP, there are some basic guidelines. A complete installation of HDP 2.6.0 consumes about 6.5 GB of disk space. For more information about HDP hardware recommendations, see the *HDP Cluster Planning Guide*. A guideline is provided below:

Machine Type	Workload Pattern/Cluster Type	Storage	Processor (# of Cores)	Memory (GB)	Network
Slaves	Balanced workload	Twelve 2-3 TB disks	8	128-256	1 GB onboard, 2x10 GBE mezzanine/external
	Compute-intensive workload	Twelve 1-2 TB disks	10	128-256	1 GB onboard, 2x10 GBE mezzanine/external

Machine Type	Workload Pattern/ Cluster Type	Storage	Processor (# of Cores)	Memory (GB)	Network
	Storage-heavy workload	Twelve 4+ TB disks	8	128-256	1 GB onboard, 2x10 GBE mezzanine/ external
Name Node	Balanced workload	Four or more 2-3 TB RAID 10 with spares	8	128-256	1 GB onboard, 2x10 GBE mezzanine/ external
Resource Manager	Balanced workload	Four or more 2-3 TB RAID 10 with spares	8	128-256	1 GB onboard, 2x10 GBE mezzanine/ external

Software requirements

Browser requirements

The Ambari Install Wizard runs as a browser-based web application. You must have a machine capable of running a graphical browser to use this tool. The minimum required browser versions are:

Operating System	Browser
Linux	Chrome 56.0.2924.87, 57.0.2987
	Firefox 51, 52
Mac OS X	Chrome 56.0.2924.87, 57.0.2987
	Firefox 51, 52
	Safari 10.0.1, 10.0.3
Windows™ *	Chrome 56.0.2924.87, 57.0.2987
	Edge 38
	Firefox 51.0.1, 52.0
	Internet Explorer 10, 11

* For HDP Stack component UIs, browsers are not tested or supported for the Windows OS.

On any platform, it is recommended you update your browser to the latest, stable version.

Planning information

Packaging

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

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Ordering information

Product: Hortonworks Data Platform (5737-H46)

Passport Advantage

Description	Part number
Hortonworks Data Platform Virtual Server License + SW Subscription & Support 12 Months	D1XCELL
Hortonworks Data Platform Virtual Server SW Subscription & Support Reinstatement 12 Months	D1XCFL
Hortonworks Data Platform Virtual Server Annual SW Subscription & Support Renewal 12 Months	EOPAELL

Charge metric

Program name	Part number or PID number	Charge metric
Hortonworks Data Platform	5737-H46	Virtual Server

Virtual Server

Virtual Server is a unit of measure by which the Program can be licensed. A server is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. A virtual server is either a virtual computer created by partitioning the resources available to a physical server or an unpartitioned physical server. Licensee must obtain Virtual Server entitlements for each Virtual Server made available to the Program, regardless of the number of processor cores in the Virtual Server or the number of copies of the Program on the Virtual Server.

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access to updates, releases, and versions of the program as long as support is in effect.

License Information number

L-MLOY-AW5TJY

See the [License Information documents](#) page on the IBM Software License Agreement website for more information.

Limited warranty applies

Yes

Limited warranty

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IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

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

Software Subscription and Support applies

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.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

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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.

[Software Support Lifecycle](#)

Variable charges apply

No

Educational allowance available

Not applicable

Statement of good security practices

IT system security involves protecting systems and information through intrusion prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

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Prices

Passport Advantage

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Corrections

(Corrected on February 13, 2019)

A link to Software Subscription and Support information was added.