



IBM Terms of Use – SaaS Specific Offering Terms

IBM BigInsights on Cloud

The Terms of Use (“ToU”) is composed of this IBM Terms of Use - SaaS Specific Offering Terms (“SaaS Specific Offering Terms”) and a document entitled IBM Terms of Use - General Terms (“General Terms”) available at the following URL: www.ibm.com/software/sla/sladb.nsf/sla/tou-gen-terms/.

In the event of a conflict, the SaaS Specific Offering Terms prevail over the General Terms. By ordering, accessing or using the IBM SaaS, Client agrees to the ToU.

The ToU is governed by the IBM International Passport Advantage Agreement, the IBM International Passport Advantage Express Agreement, or the IBM International Agreement for Selected IBM SaaS Offerings, as applicable (“Agreement”) and together with the ToU make the complete agreement.

1. IBM SaaS

The following IBM SaaS offerings are covered by these SaaS Specific Offering Terms:

- IBM Open Platform with Apache Spark and Apache Hadoop on Cloud Small Data Node
- IBM Open Platform with Apache Spark and Apache Hadoop on Cloud Medium Data Node
- IBM Open Platform with Apache Spark and Apache Hadoop on Cloud Large Data Node
- IBM Open Platform with Apache Spark and Apache Hadoop on Cloud Small Management Node
- IBM Open Platform with Apache Spark and Apache Hadoop on Cloud Medium Management Node
- IBM Open Platform with Apache Spark and Apache Hadoop on Cloud Large Management Node
- IBM BigInsights on Cloud

IBM Bluemix, IBM’s open standards cloud platform for building, running, and managing apps and services, is a technical pre-requisite for the IBM SaaS. New users can register for access via the online registration form: <https://console.ng.bluemix.net/registration>.

2. Charge Metrics

The IBM SaaS is sold under the following charge metric as specified in the Transaction Document:

- Instance is a unit of measure by which the IBM SaaS can be obtained. An Instance is access to a specific configuration of the IBM SaaS. Sufficient entitlements must be obtained for each Instance of the IBM SaaS made available to access and use during the measurement period specified in Client’s Proof of Entitlement (PoE) or Transaction Document.
- Engagement is a unit of measure by which the services can be obtained. An Engagement consists of professional and/or training services related to the IBM SaaS. Sufficient entitlements must be obtained to cover each Engagement.

3. Charges and Billing

The amount payable for the IBM SaaS is specified in a Transaction Document.

3.1 Partial Month Charges

A partial month charge as specified in the Transaction Document may be assessed on a pro-rated basis.

3.2 Set-up Charges

The following set-up services are purchased on a per Engagement basis and will be billed at the rate specified in the Transaction Document.

3.2.1 IBM BigInsights on Cloud Jump Start Remotely Delivered

This set-up service provides up to 50 hours of remote consulting time for startup activities including (1) assistance with use cases, (2) coaching on best practices for reports, dashboards and other systems tooling, (3) guided assistance and advice on preparation, execution and validation for initial data loading, and (4) other administrative and configuration topics of interest (collectively, "Startup Activities"). Services expire 90 days from the date of purchase of the entitlement or from the date Client is notified by IBM that access to the IBM SaaS is available, whichever is later, regardless of whether all hours have been used.

3.2.2 IBM BigInsights on Cloud Accelerator Remotely Delivered

This set-up service provides up to 50 hours of remote consulting time for performing Startup Activities or other activities specified and scoped at the time of purchase in one or more mutually agreed transaction documents. Services expire 12 months from the date of purchase of the entitlement or on the last day of the initial IBM SaaS subscription term, whichever is earliest, regardless of whether all hours have been used.

4. IBM SaaS Subscription Period Renewal Options

The term of the IBM SaaS begins on the date IBM notifies Client of their access to the IBM SaaS, as documented in the PoE. The PoE will specify whether the IBM SaaS renews automatically, proceeds on a continuous use basis, or terminates at the end of the term.

For automatic renewal, unless Client provides written notice not to renew at least 90 days prior to the term expiration date, the IBM SaaS will automatically renew for the term specified in the PoE.

For continuous use, the IBM SaaS will continue to be available on a month to month basis until Client provides 90 days written notice of termination. The IBM SaaS will remain available to the end of the calendar month after such 90 day period.

5. Enabling Software

The following IBM software entitlements are included as enabling software under the terms of their applicable IBM program licenses, in addition to the limitations below:

InfoSphere DataStage

Entitlement: 280 PVUs (as defined in the License Information document for InfoSphere DataStage)

Use Restriction: Client may only use InfoSphere DataStage to populate data into the IBM SaaS.

InfoSphere DataStage and QualityStage Designer

Entitlement: 2 Concurrent Users (as defined in the License Information document for InfoSphere DataStage and QualityStage Designer)

Use Restriction: Client may only use InfoSphere DataStage and QualityStage Designer to populate data into the IBM SaaS.

6. Technical Support

Technical support for the IBM SaaS is provided via email, online forums, and an online problem reporting system which is available on the Client portal at <https://support.ibmcloud.com>. IBM will make available the IBM Software as a Service Support Handbook which provides technical support contact information and other information and processes. Technical support is included with the IBM SaaS and is not available as a separate offering.

Severity	Severity Definition	Response Time Objectives During Support Hours	Response Time Coverage
1	<p>Critical business impact/service down: Business critical functionality is inoperable or critical interface has failed. This usually applies to a production environment and indicates an inability to access services resulting in a critical impact on operations. This condition requires an immediate solution.</p> <p>Severity 1 issues require that Client is available to help IBM diagnose issues during the 24X7 period otherwise the issue is downgraded to Severity 2.</p>	Within 1 hour	24x7
2	Significant business impact: A service feature or function is severely restricted in its use or Client is in jeopardy of missing business deadlines.	Within 2 business hours	M-F business hours
3	Minor business impact: Indicates the service or	Within 4 business	M-F

	functionality is usable and it is not presenting a critical impact on operations.	hours	business hours
4	Minimal business impact: An inquiry or non-technical request.	Within 1 business day	M-F business hours

7. IBM SaaS Offering Additional Terms

7.1 Cookies

Client is aware and agrees that IBM may, as part of the normal operation and support of the IBM SaaS, collect personal information from Client (your employees and contractors) related to the use of the IBM SaaS, through tracking and other technologies. IBM does so to gather usage statistics and information about effectiveness of our IBM SaaS for the purpose of improving user experience and/or tailoring interactions with Client. Client confirms that it will obtain or have obtained consent to allow IBM to process the collected personal information for the above purpose within IBM, other IBM companies and their subcontractors, wherever we and our subcontractors do business, in compliance with applicable law. IBM will comply with requests from Client's employees and contractors to access, update, correct or delete their collected personal information.

7.2 Derived Benefit Locations

Where applicable, taxes are based upon the location(s) Client identifies as receiving benefit of the IBM SaaS. IBM will apply taxes based upon the business address listed when ordering an IBM SaaS as the primary benefit location unless Client provides additional information to IBM. Client is responsible for keeping such information current and providing any changes to IBM.

7.3 Personal Information and Regulated Data

This IBM SaaS is not designed to any specific security requirements for regulated content, such as personal information or sensitive personal information. Client is responsible to determine if this IBM SaaS meets Client needs with regard to the type of content Client uses in connection with the IBM SaaS. The IBM SaaS may not be used for the transmission or storage of any Protected Health Information (PHI) protected under the Health Information Portability and Accountability Act of 1996 (HIPAA) unless (a) IBM and Client have entered into an applicable Business Associate Agreement, and (b) IBM provides Client with express written confirmation that the IBM SaaS can be used with PHI.

7.4 Use of Compiled Data

IBM may monitor Client's use of the IBM SaaS, for the purpose of IBM's internal research, testing and development of improvements or enhancements to the IBM SaaS or for the development of new services or to provide Client additional services that provide a more tailored and meaningful experience for users. In doing so, IBM may compile and analyze, in aggregated and anonymized format, summary information reflecting the use of the IBM SaaS by Client's authorized users, and may prepare reports, studies, analysis and other work product resulting from this compilation and analysis (collectively the "Compiled Data"). IBM retains ownership rights in and to the Compiled data

7.5 Encryption

The primary method of encryption of user data is through the native HDFS encryption available in Hadoop. Client is responsible for identifying the data to be encrypted and executing the required steps to ensure that the data is encrypted.

7.6 Twitter Data

7.6.1 Definitions

"Analysis Report" means the results or output created by Client's applications on the IBM SaaS from the process of analyzing and deriving information from the Twitter Content. Such results may not contain Twitter Content, but may contain content that is duplicative to that in the Twitter Content, such as search terms and references to the subject matter of the Tweets.

"Tweet ID" means the unique identification number generated by Twitter for each Tweet.

“Tweets” means a public posting with a text body of no more than 140 characters made by any end user of the Twitter service “Twitter Content” means Tweets and Tweet IDs, Twitter end user public profile information, and any derivative works thereof.

7.6.2 Access and Use of Twitter Content

The IBM SaaS provides a means for Client to select and access Twitter Content for Client’s use solely within the IBM SaaS. Twitter Content is neither owned nor controlled by IBM. Twitter Content may include materials that are illegal, inaccurate, misleading, indecent, or otherwise objectionable. IBM or its suppliers have no obligation to review, filter, verify, edit or remove any Twitter Content. However, IBM or its suppliers may, at their sole discretion, do so. Client agrees, upon IBM’s request, to promptly delete or modify any Tweet that may be stored on the IBM SaaS.

7.6.3 Volume of Twitter Data

If Client has acquired entitlements to an IBM SaaS configuration that includes a minimum of fifteen (15) nodes as part of the IBM SaaS, then Client may be given access to Twitter Content.

7.6.4 Restrictions on Twitter Content

Client shall not:

- a. Use Twitter Content in violation of any applicable law including but not limited to privacy laws or for any unauthorized or improper purposes.
- b. Download or remove Twitter Content from the IBM SaaS. However, Analysis Reports may be downloaded or removed from the IBM SaaS.
- c. Make available to any third party any Twitter Content included in the IBM SaaS.
- d. Use the Twitter Content for any other purpose except for the limited purpose allowed for in the IBM SaaS.
- e. Aggregate, cache, or store location data or geographic information contained in the Twitter Content separately from the Tweet to which it is associated, or use the location data or geographic data included in the Twitter Content for any reason except to identify the location tagged in the Tweet.
- f. Comingle Twitter Content with other data, unless the Twitter Content will always be clearly attributable to Twitter.
- g. Use Twitter Content provided as part of the IBM SaaS to perform analysis on a small group of individuals or a single individual for any unlawful or discriminatory purpose.
- h. Display the Twitter Content that Client receives access to as a part of IBM SaaS.
- i. Use the Twitter Content or analysis therefrom in the IBM SaaS as part of an advertising network.
- j. Use the Twitter Content for the purpose of performing analysis that is a regularly-produced, time-based series of measurements made using the same, or similar, methodologies for the purpose of comparing television program performance over time, or against a defined set or subset of other television programs.
- k. Use any aggregate Twitter user metrics, such as number of users or accounts, obtained while accessing and using the Twitter Content as part of the IBM SaaS for any purpose.

7.6.5 Termination by IBM

Client’s access and use of the Twitter Content shall cease upon termination of the IBM SaaS. Notwithstanding the foregoing, in addition to the rights of suspension and termination in the Agreement, IBM may cease providing access to the Twitter Content at any time without notice and without the obligation to provide Client a refund, credit, or other compensation.

7.6.6 Warranty and Indemnification Disclaimer for Twitter Content

NOTWITHSTANDING THE WARRANTY SET FORTH IN THE AGREEMENT, THE TWITTER CONTENT IS PROVIDED SOLELY “AS IS”, “AS AVAILABLE” WITH ALL FAULTS, AND CLIENT’S USE OF THE TWITTER CONTENT IS AT ITS SOLE RISK. IBM DOES NOT MAKE, AND HEREBY DISCLAIMS, ANY AND ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, PERFORMANCE, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, TITLE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, USAGE, OR TRADE PRACTICE, IN CONNECTION WITH THE TWITTER CONTENT. IBM DOES NOT WARRANT THAT THE ACCESS TO THE TWITTER CONTENT WILL BE UNINTERRUPTED, OR ERROR-FREE. THIS DISCLAIMER OF WARRANTY MAY NOT BE VALID IN SOME JURISDICTIONS

AND CLIENT MAY HAVE WARRANTY RIGHTS UNDER LAW WHICH MAY NOT BE WAIVED OR DISCLAIMED. ANY SUCH WARRANTY EXTENDS ONLY FOR THIRTY (30) DAYS FROM THE EFFECTIVE DATE OF THIS AGREEMENT (UNLESS SUCH LAW PROVIDES OTHERWISE).

ANY OBLIGATION FOR IBM TO INDEMNIFY CLIENT UNDER THE AGREEMENT DOES NOT APPLY IN ANY WAY TO CLIENT'S ACCESS AND USE OF THE TWITTER CONTENT.

7.6.7 United States Government Use

The Twitter Content is a "commercial item" as that term is defined at 48 C.F.R. 2.101, consisting of "commercial computer software" and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212. Any use, modification, derivative, reproduction, release, performance, display, disclosure or distribution of the Twitter Content by any government entity is prohibited, except as expressly permitted by the terms of this ToU. Additionally, any use by U.S. government entities must be in accordance with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4. If Client uses the Twitter Content in Client's official capacity as an employee or representative of a U.S., state or local government entity and Client is legally unable to accept the jurisdiction, venue or other clauses herein, then those clauses do not apply to such entity, but only to the extent as required by applicable law. Contractor/manufacture is Twitter, Inc. 1355 Market Street, Suite 900, San Francisco, California 94103

7.7 Client Obligations

Client is responsible for:

- following IBM's initial configuring of the IBM Open Platform with Apache Spark and Apache Hadoop components and any BigInsights modules selected, monitoring, configuring and managing the IBM Open Platform with Apache Spark and Apache Hadoop components which run under Ambari as well as the BigInsights module. Examples of these components and software include, but are not limited to, HBase, Hive, Zookeeper, Oozie, BigSQL, BigSheets, Big R etc. Client has flexibility to choose which components to run, but is therefore responsible for monitoring and stopping or starting those components.
- limiting access to members of their organization to the IBM SaaS by sharing the URL, username and password available after the IBM SaaS cluster is provisioned and also granting and revoking access (through entries in LDAP)
- developing, as necessary or required, programs and applications on the service to analyze data and obtain insights from it. Client is also responsible for the quality and performance of such programs or applications developed.
- use and maintenance of any permissible software or data that is added by or on behalf of Client to the cluster. IBM may provide assistance, but will not maintain, move or remove Client added permissible software and data that fills a partition or affects the functioning of the service.
- Using the Hadoop data encryption feature available on the SaaS to encrypt data as per business requirements.
- Checking the following link periodically to be informed about a scheduled non-disruptive or disruptive downtime - <https://developer.ibm.com/bluemix/support/#status>
- backing up all data, metadata, configuration files and environment parameters as per business requirements so as to ensure continuity
- restoring data, metadata, configuration files and environment parameters from any backup to ensure continuity, in an eventuality of cluster failure of any type including but not limited to data center or pod failure, server failure or hard disk failure or software failures.
- ensuring continuity, compatibility and performance of the IBM SaaS platform after installing permissible software (including any open source packages), or upgrading IBM Open Platform components or BigInsights software.

Client may:

- only install and run software on the IBM SaaS which is required to perform or support analysis of data through the pre-installed IBM Open Platform with Apache Spark and Apache Hadoop or BigInsights software. Client is prohibited from installing or using any other software of any kind on the IBM SaaS.
- install additional open source packages for use with the IBM SaaS on the nodes. IBM is not obligated to support these packages and is not responsible for impacts to the performance of the

IBM SaaS due to any such additional packages. If Client installed software is determined by IBM to compromise security or security compliance guidelines of the infrastructure, server or environment, it may be disabled or removed by IBM.

7.8 IBM Operational Responsibilities

As part of the IBM SaaS, IBM will:

- provide and manage servers, storage and networking infrastructure for the cluster.
- provide an initial configuration of the IBM Open Platform components and any BigInsights modules selected
- provide and manage an internet facing and internal firewall for protection and isolation.
- monitor and manage the following components on the IBM SaaS:
 - (1) Network components
 - (2) Servers and their local storage
 - (3) Operating System
 - (4) Hadoop Key Management Store
 - (5) LDAP on the Hadoop cluster
 - (6) Ambari cluster manager
- provide maintenance patches, including appropriate security patches for the operating system, the IBM Open Platform with Apache Spark and Apache Hadoop, and BigInsights module, if selected (but not for any software or components separately added by the Client)

Regular maintenance that should not require any system downtime (“non-disruptive” maintenance) and maintenance that may require some system downtime and restarting (“disruptive” maintenance”), will be performed at the scheduled times published at <https://developer.ibm.com/bluemix/support/#status> . Any changes to the scheduled maintenance times will be posted with at least 24 hours advance notice. Client will be notified of additional scheduled downtimes at least 24 hours in advance.

8. Service Level Objective

IBM provides the following service level objective (“SLO”) for the IBM SaaS, after IBM makes the IBM SaaS available to Client.

IBM will provide an SLO of 99.9% service availability measured by the following:

- a. The ability to deploy an application either through the portal or command line.
- b. The ability to connect to an application service
- c. The availability of an individual service instance

There are no service level credits or reporting offered at this time.



Appendix A

1. IBM SaaS Description

IBM BigInsights on Cloud provides pre-installed baremetal servers with IBM Open Platform and optional modules, ready to use. The base offering includes the following infrastructure features:

- Hardware servers,
- Networking infrastructure
- Internet facing firewall
- An operating system
- An LDAP server
- Metadata DB
- Hadoop Key Management Store

The IBM SaaS is based on open source packages from IBM Open Platform with Apache Spark and Apache Hadoop.

- a. IBM BigInsights on Cloud provides data nodes, management node configurations. Management and data nodes are required for every cluster. Data nodes will hold data to be analyzed and run the programs developed by the Client to analyze the data. The data (with the exception of any data IBM may, but is not committed to, provide, as part of the IBM SaaS in the future and permitted software, programs and applications (see the Section entitled "Client Obligations" above) will be provided by Client.
- b. Management nodes are comprised of services (like NameNode, Job Tracker, Management console, HBase Master etc), which help in managing and monitoring service on all the data nodes (like datanode, Hbase region, task tracker etc)

IBM BigInsights on Cloud is offered based on the configuration that best meets the Client's needs. The available configurations of the nodes are:

Offering Type	Small Configuration	Medium Configuration	Large Configuration
Data Node	<ul style="list-style-type: none"> • 2 x 10 cores 2650 v3 Sandy bridge • 64 GB RAM • 16 TB (OS disks) • 20 TB (internal storage disks) 	<ul style="list-style-type: none"> • 2 x 10 cores 2650 v3 Sandy bridge • 128 GB RAM • 16 TB (OS disks) • 28 TB (internal storage disks) 	<ul style="list-style-type: none"> • 2 x 12 cores 2690 v3 Sandy bridge • 256 GB RAM • 16 TB (OS disks) • 32 TB (internal storage disks)
Management Node	<ul style="list-style-type: none"> • 2 x 10 cores 2650 v3 Sandy bridge • 64 GB RAM • 16 TB (OS disks) 	<ul style="list-style-type: none"> • 2 x 10 cores 2650 v3 Sandy bridge • 128 GB RAM • 16 TB (OS disks) 	<ul style="list-style-type: none"> • 2 x 12 cores 2690 v3 Sandy bridge • 256 GB RAM • 16 TB (OS disks)

2. Optional Services

2.1 IBM BigInsights on Cloud

This optional offering includes the following features:

- Big R
- Machine Learning
- Text Analytics
- Big SQL
- BigSheets