

Support Matrix

Date published: 2019-06-26

Date modified: 2021-04-28

CLOUDERA

Legal Notice

© Cloudera Inc. 2024. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Unless otherwise noted, scripts and sample code are licensed under the Apache License, Version 2.0.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 (“ASLv2”), the Affero General Public License version 3 (AGPLv3), or other license terms. Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners.

Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER’S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

Contents

| | |
|--|----------|
| Review System Requirements..... | 4 |
| Supported operating systems..... | 4 |
| Supported NiFi Registry databases..... | 5 |
| Supported NiFi Processors..... | 5 |
| Supported NiFi Controller Services..... | 8 |
| Supported NiFi Reporting Tasks..... | 9 |

Review System Requirements

Before getting started with the Cloudera Flow Management (CFM) installation, it is helpful to review the system requirements.

System requirements for deployments on CDP Private Cloud Base

- Supported JDKs:
 - Oracle JDK 1.8
 - OpenJDK 1.8
 - OpenJDK 11
 - Azul Zulu JDK 1.8
 - Azul Zulu JDK 11



Note:

JDK limitations and requirements:

- Azul Zulu JDK 1.8 and 11 are only supported when NiFi is installed as a standalone component, not managed by Cloudera Manager, and not part of a CDP cluster.
 - If you are using JDK 11, Java 11.0.8 or later is required.
 - If you are using Java 8, do not use JDK 8u271, JDK 8u281, and JDK 8u291 as they might cause socket leak issues in NiFi due to JDK-8245417 and JDK-8256818. Consider using a more recent version of the JDK like 8u282, or builds of the JDK where the issue is fixed as described in [JDK-8256818](#).
- ZooKeeper – You must install the ZooKeeper service available with your CDP Private Cloud Base cluster.
- CFM 2.1.1 supports CDP Private Cloud Base 7.1.6, 7.1.7, 7.1.7 SP1, and 7.1.7 SP2.
- 4 cores per NiFi node is the minimum number of cores required by Cloudera to be supported. Cloudera recommends 8 cores per NiFi node as it usually provides the best starting point for the most common use cases.

Related Information

[Supported operating systems](#)

[Supported NiFi Registry databases](#)

[Supported NiFi Processors](#)


[Supported NiFi Controller Services](#)

[Supported NiFi Reporting Tasks](#)

Supported operating systems

CFM supports the following operating systems.

| Operating system | Versions |
|------------------|--|
| CentOS/RHEL | <ul style="list-style-type: none"> 7.6 7.7 7.8 7.9 |
| SLES | <ul style="list-style-type: none"> 12 SP5 |
| Ubuntu | <ul style="list-style-type: none"> 18.04 |

| Operating system | Versions |
|------------------|--|
| Windows | <ul style="list-style-type: none"> 10 Server 2016 Server 2019  <p>Note:</p> <p>NiFi on Windows is only supported in a standalone mode, not managed by Cloudera Manager or as part of a CDP cluster, and as a single instance installation. Clustering NiFi on Windows is not supported.</p> <p>NiFi Registry is not on supported on Windows</p> |

Related Information

[Review System Requirements](#)

[Supported NiFi Registry databases](#)

[Supported NiFi Processors](#)

[Supported NiFi Controller Services](#)

[Supported NiFi Reporting Tasks](#)

Supported NiFi Registry databases

The following databases are supported by NiFi Registry.

- H2
- PostgreSQL 9.5+
- PostgreSQL 10.x
- PostgreSQL 11.x
- PostgreSQL 12.x
- PostgreSQL 13.x
- MySQL 5.6
- MySQL 5.7
- MySQL 8

Related Information

[Review System Requirements](#)

[Supported operating systems](#)

[Supported NiFi Processors](#)

[Supported NiFi Controller Services](#)

[Supported NiFi Reporting Tasks](#)

Supported NiFi Processors

This release ships with Apache NiFi 1.13.2 and includes a set of Processors, most of which are supported by Cloudera Support. You should be familiar with the available supported Processors, and avoid using any unsupported Processors in production environments.

Additional Processors are developed and tested by the Cloudera community but are not officially supported by Cloudera. Processors are excluded for a variety of reasons, including insufficient reliability or incomplete test case coverage, declaration of non-production readiness by the community at large, and feature deviation from Cloudera best practices.

- [AttributesToCSV](#)
- [GetFile](#)
- [PutDistributedMapCache](#)

- AttributesToJSON
- Base64EncodeContent
- CalculateRecordStats
- CaptureChangeMySQL
- CompressContent
- Memory intensive
- CPU intensive
- ConnectWebSocket
- ConsumeAMQP
- ConsumeAzureEventHub
- ConsumeEWS
- ConsumeGCPubSub
- ConsumeJMS
- ConsumeKafka
- ConsumeKafka_0_10
- ConsumeKafka_1_0
- ConsumeKafka_2_0
- ConsumeKafka_2_6
- ConsumeKafkaRecord_0_10
- ConsumeKafkaRecord_1_0
- ConsumeKafkaRecord_2_0
- ConsumeKafkaRecord_2_6
- ConsumeMQTT
- Memory intensive
- ConsumeWindowsEventLog
- ControlRate
- ConvertAvroSchema
- ConvertAvroToJSON
- ConvertAvroToORC
- ConvertAvroToParquet
- ConvertCharacterSet
- ConvertCSVToAvro
- ConvertJSONToAvro
- ConvertJSONToSQL
- ConvertRecord
- CreateHadoopSequenceFile
- CryptographicHashAttribute
- CryptographicHashContent
- DeleteAzureBlobStorage
- DeleteAzureDataLakeStorage
- DeleteByQueryElasticsearch
- DeleteDynamoDB
- DeleteGCSObject
- DeleteGridFS
- DeleteHBaseCells
- DeleteHBaseRow
- DeleteHDFS
- DeleteS3Object
- DeleteSQS
- GetFTP
- GetHBase
- GetHDFS
- GetHDFSFileInfo
- GetHDFSSequenceFile
- GetHTMLElement
- GetHTTP
- GetIgniteCache
- GetJMSQueue
- GetJMSTopic
- GetKafka
- GetMongoRecord
- GetSFTP
- GetSolr
- GetSplunk
- GetSQS
- GetTCP
- GetTwitter
- HandleHttpRequest
- HandleHttpResponse
- HashAttribute
- HashContent
- IdentifyMimeType
- InvokeAWSGatewayApi
- InvokeGRPC
- InvokeHTTP
- InvokeScriptedProcessor
- JoltTransformJSON
- JoltTransformRecord
- JsonQueryElasticsearch
- ListAzureBlobStorage
- ListAzureDataLakeStorage
- ListDatabaseTables
- ListenFTP
- ListenGRPC
- ListenHTTP
- ListenRELP
- ListenSyslog
- ListenTCP
- ListenTCPRecord
- ListenUDP
- ListenUDPRecord
- ListenWebSocket
- ListFile
- ListFTP
- ListGCSBucket
- ListHDFS
- ListS3
- ListSFTP
- LogAttribute
- PutDynamoDB
- Memory intensive
- PutElasticsearch
- Memory intensive
- PutElasticsearchHttp
- Memory intensive
- PutElasticsearchHttpRecord
- PutElasticsearchRecord
- PutEmail
- Memory intensive
- PutFile
- PutFTP
- PutGCSObject
- PutGridFS
- PutHBaseCell
- Memory intensive
- PutHBaseJSON
- PutHBaseRecord
- PutHDFS
- PutHive3QL
- PutHive3Streaming
- PutHiveQL
- PutHiveStreaming
- PutHTMLElement
- PutInfluxDB
- PutJMS
- PutKafka
- PutKinesisFirehose
- PutKinesisStream
- PutKudu
- PutLambda
- PutMongoRecord
- PutORC
- PutParquet
- PutRecord
- PutRiemann
- PutS3Object
- PutSFTP
- PutSNS
- PutSolrContentStream
- PutSolrRecord
- PutSplunk
- PutSplunkHTTP
- Memory intensive
- PutSQL
- PutSQS
- PutSyslog
- PutTCP

| | | |
|-----------------------------|---------------------------|-----------------------------|
| • DetectDuplicate | • LogMessage | • PutUDP |
| • DistributeLoad | • LookupAttribute | • PutWebSocket |
| • DuplicateFlowFile | • LookupRecord | Memory intensive |
| • EncryptContent | • MergeContent | • QueryCassandra |
| Memory intensive | Memory intensive | • QueryDatabaseTable |
| • EnforceOrder | • MergeRecord | • QueryDatabaseTableRecord |
| • EvaluateJsonPath | • ModifyHTMLElement | • QueryElasticsearchHttp |
| • EvaluateXPath | • MonitorActivity | • QueryRecord |
| • EvaluateXQuery | • Notify | • QuerySolr |
| • ExecuteGroovyScript | • ParseCEF | • QuerySplunkIndexingStatus |
| • ExecuteInfluxDBQuery | • ParseEvtx | • QueryWhois |
| • ExecuteProcess | • ParseSyslog | • ReplaceText |
| • ExecuteScript | • PartitionRecord | Memory intensive |
| • ExecuteSQL | • PostHTTP | • ReplaceTextWithMapping |
| • ExecuteSQLRecord | • PublishAMQP | • ResizeImage |
| • ExecuteStreamCommand | Memory intensive | • RetryFlowFile |
| • ExtractAvroMetadata | • PublishGCPubSub | • RouteHL7 |
| • ExtractGrok | Memory intensive | • RouteOnAttribute |
| • ExtractHL7Attributes | • PublishJMS | • RouteOnContent |
| • ExtractImageMetadata | Memory intensive | • RouteText |
| • ExtractText | • PublishKafka | • SampleRecord |
| • FetchAzureBlobStorage | • PublishKafka_0_10 | Memory intensive |
| • FetchAzureDataLakeStorage | • PublishKafka_1_0 | • ScanAccumulo |
| • FetchDistributedMapCache | • PublishKafka_2_0 | • ScanAttribute |
| • FetchElasticsearch | • PublishKafka_2_6 | • ScanContent |
| • FetchElasticsearchHttp | • PublishKafkaRecord_0_10 | • ScanHBase |
| • FetchFile | • PublishKafkaRecord_1_0 | • ScriptedTransformRecord |
| • FetchFTP | • PublishKafkaRecord_2_0 | • ScrollElasticsearchHttp |
| • FetchGCSObject | • PublishKafkaRecord_2_6 | • SegmentContent |
| • FetchGridFS | • PublishMQTT | • SelectHive3QL |
| • FetchHBaseRow | Memory intensive | • SelectHiveQL |
| • FetchHDFS | • PutAccumuloRecord | • SplitAvro |
| • FetchParquet | • PutAzureBlobStorage | Memory intensive |
| • FetchS3Object | • PutAzureCosmosDBRecord | • SplitContent |
| • FetchSFTP | Memory intensive | Memory intensive |
| • FlattenJson | • PutAzureDataLakeStorage | • SplitJson |
| • ForkRecord | • PutAzureEventHub | Memory intensive |
| • GenerateFlowFile | Memory intensive | • SplitRecord |
| • GenerateTableFetch | • PutAzureQueueStorage | • SplitText |
| • GeoEnrichIP | • PutBigQueryBatch | Memory intensive |
| • GeoEnrichIPRecord | • PutBigQueryStreaming | • SplitXml |
| • GetAzureEventHub | Memory intensive | Memory intensive |
| • GetAzureQueueStorage | • PutCassandraQL | • TagS3Object |
| • GetCouchbaseKey | Memory intensive | • TailFile |
| Memory intensive | • PutCassandraRecord | • TransformXml |
| | • PutCloudWatchMetric | • UnpackContent |
| | | • UpdateAttribute |

- PutCouchbaseKey
- Memory intensive
- PutDatabaseRecord
- UpdateCounter
- UpdateHive3Table
- UpdateHiveTable
- UpdateRecord
- ValidateCsv
- ValidateRecord
- ValidateXml
- Wait
- YandexTranslate

Related Information

[Review System Requirements](#)

[Supported operating systems](#)

[Supported NiFi Registry databases](#)

[Supported NiFi Controller Services](#)

[Supported NiFi Reporting Tasks](#)

Supported NiFi Controller Services

This release ships with Apache NiFi 1.13.2 and includes a set of Controller Services, most of which are supported by Cloudera Support. You should be familiar with the available supported Controller Services, and avoid using any unsupported Controller Services in production environments.

Additional Controller Services are developed and tested by the Cloudera community but are not officially supported by Cloudera. Controller Services are excluded for a variety of reasons, including insufficient reliability or incomplete test case coverage, declaration of non-production readiness by the community at large, and feature deviation from Cloudera best practices.

| | | |
|--|-----------------------------------|---------------------------------------|
| AccumuloService | ElasticSearchClientServiceImpl | LogHandler |
| ActionHandlerLookup | ElasticSearchLookupService | MongoDBControllerService |
| ADLSCredentialsControllerService | ElasticSearchStringLookupService | MongoDBLookupService |
| ADLSIDBrokerCloudCredentialsProviderControllerService | ExternalHazelcastCacheManager | ParquetReader |
| AlertHandler | ExpressionHandler | ParquetRecordSetWriter |
| AvroReader | ExternalHazelcastCacheManager | PrometheusRecordSink |
| AvroRecordSetWriter | FreeFormTextRecordSetWriter | ReaderLookup |
| AvroSchemaRegistry | GCPCredentialsControllerService | RecordSetWriterLookup |
| AWSCredentialsProviderControllerService | GrokReader | RecordSinkHandler |
| AWSIDBrokerCloudCredentialsProviderControllerService | HadoopDBConnectionPool | RecordSinkServiceLookup |
| AzureBlobIDBrokerCloudCredentialsProviderControllerService | HadoopDBConnectionPool | RedisConnectionPoolService |
| AzureCosmosDBClientService | HBase_1_1_2_ClientMapCacheService | RedisDistributedMapCacheClientService |
| AzureStorageCredentialsControllerService | HBase_1_1_2_ClientService | RestLookupService |
| AzureStorageCredentialsControllerService | HBase_1_1_2_ListLookupService | ScriptedActionHandler |
| CassandraDistributedMapCache | HBase_1_1_2_RecordLookupService | ScriptedLookupService |
| CassandraSessionProvider | HBase_2_ClientMapCacheService | ScriptedReader |
| CouchbaseClusterService | HBase_2_ClientService | ScriptedRecordSetWriter |
| CouchbaseKeyValueLookupService | HBase_2_RecordLookupService | ScriptedRecordSink |
| CouchbaseMapCacheClient | Hive3ConnectionPool | ScriptedRulesEngine |
| CouchbaseRecordLookupService | HiveConnectionPool | SimpleDatabaseLookupService |
| CSVReader | HortonworksSchemaRegistry | SimpleKeyValueLookupService |

| | | |
|----------------------------------|----------------------------------|-------------------------------------|
| CSVRecordLookupService | IPFIXReader | SimpleScriptedLookupService |
| CSVRecordSetWriter | IPLookupService | SiteToSiteReportingRecordSink |
| DatabaseRecordLookupService | JMSConnectionFactoryProvider | StandardHttpContextMap |
| DatabaseRecordSink | JndiJmsConnectionFactoryProvider | StandardProxyConfigurationService |
| DBCPCConnectionPool | JsonPathReader | StandardRestrictedSSLContextService |
| DBCPCConnectionPoolLookup | JsonRecordSetWriter | StandardS3EncryptionService |
| DistributedMapCacheClientService | JsonTreeReader | StandardSSLContextService |
| DistributedMapCacheLookupService | KafkaRecordSink_1_0 | Syslog5424Reader |
| DistributedMapCacheServer | KafkaRecordSink_2_0 | SyslogReader |
| DistributedSetCacheClientService | KafkaRecordSink_2_6 | VolatileSchemaCache |
| DistributedSetCacheServer | KeytabCredentialsService | WindowsEventLogReader |
| EasyRulesEngineProvider | KuduLookupService | XMLReader |
| EasyRulesEngineService | LoggingRecordSink | XMLRecordSetWriter |

Related Information

[Review System Requirements](#)
[Supported operating systems](#)
[Supported NiFi Registry databases](#)
[Supported NiFi Processors](#)
[Supported NiFi Reporting Tasks](#)

Supported NiFi Reporting Tasks

This release ships with Apache NiFi 1.13.2 and includes a set of Reporting Tasks, most of which are supported by Cloudera Support. You should be familiar with the available supported Reporting Tasks, and avoid using any unsupported Reporting Tasks in production environments.

Additional Reporting Tasks are developed and tested by the Cloudera community but are not officially supported by Cloudera. Reporting Tasks are excluded for a variety of reasons, including insufficient reliability or incomplete test case coverage, declaration of non-production readiness by the community at large, and feature deviation from Cloudera best practices. Do not use these features in your production environments.

- AmbariReportingTask
- ControllerStatusReportingTask
- MetricsEventReportingTask
- MonitorDiskUsage
- MonitorMemory
- PrometheusReportingTask
- QueryNiFiReportingTask
- ReportLineageToAtlas
- ScriptedReportingTask
- SiteToSiteBulletinReportingTask
- SiteToSiteMetricsReportingTask
- SiteToSiteProvenanceReportingTask
- SiteToSiteStatusReportingTask

Related Information

[Review System Requirements](#)
[Supported operating systems](#)
[Supported NiFi Registry databases](#)
[Supported NiFi Processors](#)

Supported NiFi Controller Services