

Cloudera Flow Management 2.1.2

Support Matrix

Date published: 2019-06-26

Date modified: 2021-12-21

CLOUDERA

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Review System Requirements

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

Supported versions of CDP

CFM 2.1.2 supports the following versions of CDP Private Cloud Base:

- 7.1.7
- 7.1.7 SP1
- 7.1.7 SP2

Supported JDK

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](#).

Other system requirements

- ZooKeeper – You must install the ZooKeeper service available with your CDP Private Cloud Base cluster.
- 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 | <ul style="list-style-type: none"> 7.6 7.7 7.8 7.9 8.2 |
| RHEL | <ul style="list-style-type: none"> 7.6 7.7 7.8 7.9 8.2 |
| SLES | <ul style="list-style-type: none"> 12 SP5 |
| Ubuntu | <ul style="list-style-type: none"> 18.04 20.04 |
| Windows | <ul style="list-style-type: none"> 10 Server 2016 Server 2019 <p> Note: 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

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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
- AttributesToJSON
- Base64EncodeContent
- CalculateRecordStats
- CaptureChangeMySQL
- CompressContent12
- ConnectWebSocket
- ConsumeAMQP
- ConsumeAzureEventHub
- ConsumeEWS
- ConsumeGCPubSub
- ConsumeJMS
- ConsumeKafka
- ConsumeKafka_0_10
- ConsumeKafka_1_0
- ConsumeKafka_2_0
- ConsumeKafka_2_6
- ConsumeKafka2CDP
- ConsumeKafka2RecordCDP
- ConsumeKafkaRecord_0_10
- ConsumeKafkaRecord_1_0
- ConsumeKafkaRecord_2_0
- ConsumeKafkaRecord_2_6
- ConsumeKinesisStream
- ConsumeMQTT 1
- ConsumeWindowsEventLog
- ControlRate
- ConvertAvroSchema
- ConvertAvroToJSON
- ConvertAvroToORC
- ConvertAvroToParquet
- ConvertCharacterSet
- ConvertCSVToAvro
- ConvertJSONToAvro
- ConvertJSONToSQL
- ConvertRecord
- CreateHadoopSequenceFile
- GetAzureQueueStorage
- GetCouchbaseKey 1
- GetFile
- 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
- PutCouchbaseKey 1
- PutDatabaseRecord
- PutDistributedMapCache
- PutDynamoDB 1
- PutElasticsearch 1
- PutElasticsearchHttp 1
- PutElasticsearchHttpRecord
- PutElasticsearchRecord
- PutEmail 1
- PutFile
- PutFTP
- PutGCSObject
- PutGridFS
- PutHBaseCell 1
- PutHBaseJSON
- PutHBaseRecord
- PutHDFS
- PutHive3QL
- PutHive3Streaming
- PutHiveQL
- PutHiveStreaming
- PutHTMLElement
- PutInfluxDB
- PutJMS
- PutKafka
- PutKinesisFirehose
- PutKinesisStream
- PutKudu
- PutLambda
- PutMongoRecord
- PutORC
- PutParquet
- PutRecord
- PutRiemann
- PutS3Object
- PutSFTP
- PutSNS

- CryptographicHashAttribute
- CryptographicHashContent
- DecryptContentPGP
- DeleteAzureBlobStorage
- DeleteAzureDataLakeStorage
- DeleteByQueryElasticsearch
- DeleteDynamoDB
- DeleteGCSObject
- DeleteGridFS
- DeleteHBaseCells
- DeleteHBaseRow
- DeleteHDFS
- DeleteS3Object
- DeleteSQS
- DetectDuplicate
- DistributeLoad
- DuplicateFlowFile
- EncryptContent 2
- EncryptContentPGP
- EnforceOrder
- EvaluateJsonPath
- EvaluateXPath
- EvaluateXQuery
- ExecuteGroovyScript
- ExecuteInfluxDBQuery
- ExecuteProcess
- ExecuteScript
- ExecuteSQL
- ExecuteSQLRecord
- ExecuteStreamCommand
- ExtractAvroMetadata
- ExtractGrok
- ExtractHL7Attributes
- ExtractImageMetadata
- ExtractText
- FetchAzureBlobStorage
- FetchAzureDataLakeStorage
- FetchDistributedMapCache
- FetchElasticsearch
- FetchElasticsearchHttp
- FetchFile
- FetchFTP
- FetchGCSObject
- FetchGridFS
- FetchHBaseRow
- FetchHDFS
- FetchParquet
- FetchS3Object
- FetchSFTP
- FlattenJson
- ListenGRPC
- ListenHTTP
- ListenRELP
- ListenSyslog
- ListenTCP
- ListenTCPRecord
- ListenUDP
- ListenUDPRecord
- ListenWebSocket
- ListFile
- ListFTP
- ListGCSBucket
- ListHDFS
- ListS3
- ListSFTP
- LogAttribute
- LogMessage
- LookupAttribute
- LookupRecord
- MergeContent 1
- MergeRecord
- ModifyHTMLElement
- MonitorActivity
- Notify
- ParseCEF
- ParseEvtx
- ParseSyslog
- PartitionRecord
- PostHTTP
- PublishAMQP 1
- PublishGCPubSub 1
- PublishJMS 1
- PublishKafka
- PublishKafka_0_10
- PublishKafka_1_0
- PublishKafka_2_0
- PublishKafka_2_6
- PublishKafka2CDP
- PublishKafka2RecordCDP
- PublishKafkaRecord_0_10
- PublishKafkaRecord_1_0
- PublishKafkaRecord_2_0
- PublishKafkaRecord_2_6
- PublishMQTT 1
- PutAccumuloRecord
- PutAzureBlobStorage
- PutAzureCosmosDBRecord 1
- PutAzureDataLakeStorage
- PutAzureEventHub 1
- PutAzureQueueStorage
- PutSolrContentStream
- PutSolrRecord
- PutSplunk
- PutSplunkHTTP 1
- PutSQL
- PutSQS
- PutSyslog
- PutTCP
- PutUDP
- PutWebSocket 1
- QueryCassandra
- QueryDatabaseTable
- QueryDatabaseTableRecord
- QueryElasticsearchHttp
- QueryRecord
- QuerySolr
- QuerySplunkIndexingStatus
- QueryWhois
- ReplaceText 1
- ReplaceTextWithMapping
- ResizeImage
- RetryFlowFile
- RouteHL7
- RouteOnAttribute
- RouteOnContent
- RouteText
- SampleRecord 1
- ScanAccumulo
- ScanAttribute
- ScanContent
- ScanHBase
- ScriptedTransformRecord
- ScrollElasticsearchHttp
- SegmentContent
- SelectHive3QL
- SelectHiveQL
- SplitAvro 1
- SplitContent 1
- SplitJson 1
- SplitRecord
- SplitText 1
- SplitXml 1
- TagS3Object
- TailFile
- TransformXml
- UnpackContent
- UpdateAttribute
- UpdateCounter
- UpdateHive3Table
- UpdateHiveTable

- ForkRecord
- GenerateFlowFile
- GenerateTableFetch
- GeoEnrichIP
- GeoEnrichIPRecord
- GetAzureEventHub
- PutBigQueryBatch
- PutBigQueryStreaming 1
- PutCassandraQL 1
- PutCassandraRecord
- PutCDPObjectStore
- PutCloudWatchMetric
- UpdateRecord
- ValidateCsv
- ValidateRecord
- ValidateXml
- Wait
- YandexTranslate

Footnotes

- 1 – indicates a memory intensive processor
- 2 – indicates a CPU intensive processor

Related Information

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[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
- ActionHandlerLookup
- ADLSCredentialsControllerService
- ADLSIDBrokerCloudCredentialsProviderControllerService
- AlertHandler
- AvroReader
- AvroRecordSetWriter
- AvroSchemaRegistry
- AWSCredentialsProviderControllerService
- AWSIDBrokerCloudCredentialsProviderControllerService
- AzureBlobIDBrokerCloudCredentialsProviderControllerService
- AzureCosmosDBClientService
- AzureStorageCredentialsControllerService
- AzureStorageCredentialsControllerServiceLookup
- CassandraDistributedMapCache
- CassandraSessionProvider
- CouchbaseClusterService
- CouchbaseKeyValueLookupService
- CouchbaseMapCacheClient
- CouchbaseRecordLookupService
- CSVReader
- HiveConnectionPool
- HortonworksSchemaRegistry
- IPFIXReader
- IPLookupService
- JASNIReader
- JMSConnectionFactoryProvider
- JndiJmsConnectionFactoryProvider
- JsonPathReader
- JsonRecordSetWriter
- JsonTreeReader
- KafkaRecordSink_1_0
- KafkaRecordSink_2_0
- KafkaRecordSink_2_6
- KeytabCredentialsService
- KuduLookupService
- LoggingRecordSink
- LogHandler
- MongoDBControllerService
- MongoDBLookupService
- ParquetReader
- ParquetRecordSetWriter

- CSVRecordLookupService
- CSVRecordSetWriter
- DatabaseRecordLookupService
- DatabaseRecordSink
- DBCPConnectionPool
- DBCPConnectionPoolLookup
- DistributedMapCacheClientService
- DistributedMapCacheLookupService
- DistributedMapCacheServer
- DistributedSetCacheClientService
- DistributedSetCacheServer
- EasyRulesEngineProvider
- EasyRulesEngineService
- ElasticSearchClientServiceImpl
- ElasticSearchLookupService
- ElasticSearchStringLookupService
- EmbeddedHazelcastCacheManager
- ExpressionHandler
- ExternalHazelcastCacheManager
- FreeFormTextRecordSetWriter
- GCPCredentialsControllerService
- GrokReader
- HadoopDBCPConnectionPool
- HazelcastMapCacheClient
- HBase_1_1_2_ClientMapCacheService
- HBase_1_1_2_ClientService
- HBase_1_1_2_ListLookupService
- HBase_1_1_2_RecordLookupService
- HBase_2_ClientMapCacheService
- HBase_2_ClientService
- HBase_2_RecordLookupService
- Hive3ConnectionPool
- PrometheusRecordSink
- ReaderLookup
- RecordSetWriterLookup
- RecordSinkHandler
- RecordSinkServiceLookup
- RedisConnectionPoolService
- RedisDistributedMapCacheClientService
- RestLookupService
- ScriptedActionHandler
- ScriptedLookupService
- ScriptedReader
- ScriptedRecordSetWriter
- ScriptedRecordSink
- ScriptedRulesEngine
- SimpleDatabaseLookupService
- SimpleKeyValueLookupService
- SimpleScriptedLookupService
- SiteToSiteReportingRecordSink
- StandardHttpContextMap
- StandardPGPPrivateKeyService
- StandardPGPPublicKeyService
- StandardProxyConfigurationService
- StandardRestrictedSSLContextService
- StandardS3EncryptionService
- StandardSSLContextService
- Syslog5424Reader
- SyslogReader
- VolatileSchemaCache
- WindowsEventLogReader
- XMLReader
- XMLRecordSetWriter

Related Information

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Supported NiFi Reporting Tasks

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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`

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