

Release Notes 3

Release Notes

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Hortonworks DataFlow 3.5.2 Release Notes

This document provides you with the latest information about the HDF 3.5.2 release and its product documentation.



Note: HDF 3.5.2 is the last version of HDF that Cloudera will provide. Going forward Cloudera encourages customers to migrate to CFM 2.x on CDP. Cloudera requires customers to be on HDF 3.5.1 or HDF 3.5.2 before migrating to CFM 2.x on CDP. For more information on migration to CFM, see [HDF to CFM migration](#) document.

Component Support

HDF 3.5.2 includes the following components:

- Apache Ambari 2.7.5
- Apache Kafka 2.3.1
- Apache NiFi 1.12.1
- NiFi Registry 0.8.0
- Apache Ranger 1.2.0
- Apache Storm 1.2.1
- Apache ZooKeeper 3.4.6
- Apache MiNiFi Java Agent 0.6.0
- Apache MiNiFi C++ 0.6.0
- Hortonworks Schema Registry 0.8.1
- Hortonworks Streaming Analytics Manager 0.6.0
- Apache Knox 1.0.0
- SmartSense 1.5.0

Component Availability in HDF

Previous HDF releases shipped with the following components versions.

	NiFi	Storm	Kafka	ZooKeeper	Ambari	Ranger	MiNiFi Java Agent	MiNiFi C++	Streaming Analytics Manager	Schema Registry	NiFi Registry	SmartSense
HDF 3.5.2	1.12.1	1.2.1	2.3.1	3.4.6	2.7.5	1.2.0	0.6.0	0.6.0	0.6.0	0.8.1	0.8.0	1.5.0
HDF 3.5.1	1.11.4	1.2.1	2.3.1	3.4.6	2.7.5	1.2.0	0.6.0	0.6.0	0.6.0	0.8.1	0.6.0	1.5.0
HDF 3.5.0	1.11.1	1.2.1	2.3.1	3.4.6	2.7.5	1.2.0	0.6.0	0.6.0	0.6.0	0.8.1	0.5.0	1.5.0
HDF 3.4.1.1	1.9.0	1.2.1	2.1.0	3.4.6	2.7.3	1.2.0	0.6.0	0.6.0	0.6.0	0.7.0	0.3.0	1.5.0
HDF 3.4.0	1.9.0	1.2.1	2.1.0	3.4.6	2.7.3	1.2.0	0.6.0	0.6.0	0.6.0	0.7.0	0.3.0	1.5.0
HDF 3.3.1	1.8.0	1.2.1	2.0.0	3.4.6	2.7.3	1.2.0	0.6.0	0.6.0	0.6.0	0.5.4	0.2.0	1.5.0
HDF 3.3.0	1.8.0	1.2.1	2.0.0	3.4.6	2.7.1	1.2.0	0.6.0	0.6.0	0.6.0	0.5.4	0.2.0	1.5.0
HDF 3.2.0	1.7.0	1.2.1	1.1.1	3.4.6	2.7.0	1.1.0	0.5.0	0.5.0	0.6.0	0.5.3	0.2.0	N/A
HDF 3.1.2	1.5.0	1.1.1	1.0.0	3.4.6	2.6.2	0.7.0	0.4.0	0.4.0	0.6.0	0.5.0	0.1.0	N/A

	NiFi	Storm	Kafka	ZooKeeper	Ambari	Ranger	MiNiFi Java Agent	MiNiFi C++	Streaming Analytics Manager	Schema Registry	NiFi Registry	SmartSense
HDF 3.1.1	1.5.0	1.1.1	1.0.0	3.4.6	2.6.1	0.7.0	0.4.0	0.4.0	0.6.0	0.5.0	0.1.0	N/A
HDF 3.1.0	1.5.0	1.1.1	1.0.0	3.4.6	2.6.1	0.7.0	0.4.0	0.4.0	0.6.0	0.5.0	0.1.0	N/A
HDF 3.0.3 (IBM Power System only)	1.2.0	1.1.0	0.10.2.1	3.4.6	2.6.0	0.7.0	0.2.0	TP	0.5.0	0.3.0	N/A	N/A
HDF 3.0.2	1.2.0	1.1.0	0.10.2.1	3.4.6	2.6.0	0.7.0	0.2.0	TP	0.5.0	0.3.0	N/A	N/A
HDF 3.0.1	1.2.0	1.1.0	0.10.2.1	3.4.6	2.5.1	0.7.0	0.2.0	TP	0.5.0	0.3.0	N/A	N/A
HDF 3.0.0	1.2.0	1.1.0	0.10.2.1	3.4.6	2.5.1	0.7.0	0.2.0	TP	0.5.0	0.3.0	N/A	N/A
HDF 2.1.4	1.1.0	1.0.2	1.10.1	3.4.6	2.4.2.0	0.6.2	0.1.0	TP	N/A	N/A	N/A	N/A
HDF 2.1.2	1.1.0	1.0.2	0.10.1	3.4.6	2.4.2.0	0.6.2	0.1.0	TP	N/A	N/A	N/A	N/A
HDF 2.1.1	1.1.0	1.0.2	0.10.1	3.4.6	2.4.2.0	0.6.2	0.1.0	TP	N/A	N/A	N/A	N/A
HDF 2.1.0	1.1.0	1.0.2	0.10.1	3.4.6	2.4.2.0	0.6.2	0.1.0	TP	N/A	N/A	N/A	N/A
HDF 2.0.2	1.0.0	1.0.1	0.10.0.1	3.4.6	2.4.1.0	0.6.0	0.0.1	TP	N/A	N/A	N/A	N/A
HDF 2.0.1	1.0.0	1.0.1	0.10.0.1	3.4.6	2.4.1.0	0.6.0	0.0.1	TP	N/A	N/A	N/A	N/A
HDF 2.0.0	1.0.0	1.0.1	0.10.0.1	3.4.6	2.4.0.1	0.6.0	0.0.1	TP	N/A	N/A	N/A	N/A
HDF 1.2.1	0.6.1	0.10.0	0.9.0.1	3.4.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HDF 1.2.0.1	0.6.1	0.10.0	0.9.0.1	3.4.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HDF 1.2.0	0.6.0	0.10.0	0.9.0.1	3.4.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HDF 1.1.0	0.4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HDF 1.0	0.3.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Understanding the Apache Component Version

At Cloudera, products are versioned with 4 digits plus a build number (for example, HDF 3.5.2.0-99). Apache components shipped within the products are versioned with the product version prefixed by the 3 digits of the Apache version (for example, in HDF 3.5.2.0-99, we have NiFi 1.12.1.3.5.2.0-99).

When we start building a release of a product, we use, as the base version, the Apache component version which exists at that time. However, it does not mean that the component version we ship is equal to the corresponding Apache version. Between the moment we start building a release, and the moment the release gets out, we add a lot of improvements, features and fixes.

This is why it is important to distinguish the Apache version from the Cloudera version. For example, the NiFi version in HDF 3.5.2.0 is NiFi 1.12.1.3.5.2.0-`<build-number>`. It means that when we started building the HDF 3.5.2.0 release, we used Apache NiFi 1.12.1 as the base version. However, it does not mean that the NiFi version we ship is equal to Apache NiFi 1.12.1. In fact, we added a lot of improvements on top of it. At the end, in this release, NiFi 1.12.1.3.5.2.0-`<build-number>` is actually including more things than what you could find in Apache NiFi 1.12.1.

What's New in HDF 3.5.2

HDF 3.5.2 is a major release that includes new features, bug fixes, and improvements. This is the last version of HDF that Cloudera will provide. Going forward Cloudera encourages customers to migrate to CFM on CDP.

log4j vulnerability patches

On December 21, 2021 Cloudera released a hotfix for Cloudera Flow Management on Private Cloud Base. It addresses 2 CVEs and other vulnerability concerns as listed below. Cloudera urges all customers to upgrade their DataFlow services to the latest version.

- [CVE-2021-44228](#) which affects Apache Log4j2 versions 2.0 through 2.14.1.
- [CVE-2021-45046](#) which affects Apache Log4j2 version 2.15.0
- [LOGBACK-1591](#) which affects logback versions `<= 1.2.7`



Important:

NiFi contains the vulnerable log4j2 libraries and should be updated. For information about the available hotfix, contact your Cloudera Support representative.

Cloudera is not aware of known exploitation paths within CFM for Private Cloud Base, however upgrading protects against the possibility of any exploitation.

Apache NiFi Updates

NiFi has been upgraded from 1.11.4 to 1.12.1.



Note: The NiFi version in HDF 3.5.2.0 is NiFi 1.12.1.3.5.2.0, which includes everything that is available in Apache NiFi 1.12.1 as well as additional improvements, bug fixes, and security patches.

New features and improvements in Apache NiFi include:

- Hazelcast implementation for the distributed map cache server - this provides a resilient implementation of the distributed map cache within NiFi without the need of external dependencies like HBase or Redis.
- ListenFTP processor - this gives the possibility to have NiFi acting as an FTP server to ingest data directly into NiFi using FTP.
- System Status History monitoring - this provides a new monitoring view in NiFi to track over time the system metrics of the NiFi cluster
- ADLS Gen2 processors - new set of processors to interact with ADLS in Azure
- Support for Kafka 2.6
- Option to empty all queues at process group level
- ScriptedTransformRecord processor - this provides a very powerful option to implement custom transformations while still leveraging the Record API
- Flow File concurrency at process group level - this provides a higher level abstraction at Process Group level to implement patterns similar to what was possible with Wait/Notify processors
- Support for a record writer in the ListX processors
- Support for version 2 and 3 of the schema encoding with the Schema Registry

Schema Registry Updates

The supported version of Schema Registry is 0.8.1.

New features, improvements, and fixes in Schema Registry include:

- ISSUE 574: Re-create a delete schema does not work.
- ISSUE 568: Synchronize Kerberos ticket renewal for non-renewable ticket.
- ISSUE 640: SchemaRegistryClient doesn't take advantage of the UrlSelector for failover scenarios.

Supported NiFi Components

Learn about the NiFi processors, controller services, and reporting tasks supported by HDF 3.5.2.

Supported NiFi Processors

Learn about the NiFi Processors supported by HDF 3.5.2.

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. Do not use these features in your production environments.

- | | | |
|---------------------------|---------------------------|------------------------------|
| • AttributesToCSV | • GetAzureEventHub | • PutDatabaseRecord |
| • AttributesToJSON | • GetAzureQueueStorage | • PutDistributedMapCache |
| • Base64EncodeContent | • GetCouchbaseKey | • PutDruidRecord |
| • CalculateRecordStats | • GetFile | • PutDynamoDB |
| • CaptureChangeMySQL | • GetFTP | • PutElasticsearch |
| • CompressContent | • GetHBase | • PutElasticsearchHttp |
| • ConnectWebSocket | • GetHDFS | • PutElasticsearchHttpRecord |
| • ConsumeAMQP | • GetHDFSFileInfo | • PutElasticsearchRecord |
| • ConsumeAzureEventHub | • GetHDFSSequenceFile | • PutEmail |
| • ConsumeEWS | • GetHTMLElement | • PutFile |
| • ConsumeGCPubSub | • GetHTTP | • PutFTP |
| • ConsumeJMS | • GetIgniteCache | • PutGCXObject |
| • ConsumeKafka | • GetJMSQueue | • PutGridFS |
| • ConsumeKafka_0_10 | • GetJMSTopic | • PutHBaseCell |
| • ConsumeKafka_1_0 | • GetKafka | • PutHBaseJSON |
| • ConsumeKafka_2_0 | • GetMongoRecord | • PutHBaseRecord |
| • ConsumeKafka_2_6 | • GetSFTP | • PutHDFS |
| • ConsumeKafkaRecord_0_10 | • GetSolr | • PutHive3QL |
| • ConsumeKafkaRecord_1_0 | • GetSplunk | • PutHive3Streaming |
| • ConsumeKafkaRecord_2_0 | • GetSQS | • PutHiveQL |
| • ConsumeKafkaRecord_2_6 | • GetTCP | • PutHiveStreaming |
| • ConsumeMQTT | • GetTwitter | • PutHTMLElement |
| • ConsumeWindowsEventLog | • HandleHttpRequest | • PutInfluxDB |
| • ControlRate | • HandleHttpResponse | • PutJMS |
| • ConvertAvroSchema | • HashAttribute | • PutKafka |
| • ConvertAvroToJSON | • HashContent | • PutKinesisFirehose |
| • ConvertAvroToORC | • IdentifyMimeType | • PutKinesisStream |
| • ConvertAvroToParquet | • InvokeAWSGatewayApi | • PutKudu |
| • ConvertCharacterSet | • InvokeHTTP | • PutLambda |
| • ConvertCSVToAvro | • InvokeScriptedProcessor | • PutORC |
| • ConvertJSONToAvro | • JoltTransformJSON | • PutParquet |
| • ConvertJSONToSQL | • JoltTransformRecord | • PutRecord |
| • ConvertRecord | • JsonQueryElasticsearch | • PutRiemann |

- CreateHadoopSequenceFile
- CryptographicHashAttribute
- CryptographicHashContent
- DeleteAzureBlobStorage
- DeleteAzureDataLakeStorage
- DeleteByQueryElasticsearch
- DeleteDynamoDB
- DeleteGCSObject
- DeleteGridFS
- DeleteHBaseCells
- DeleteHBaseRow
- DeleteHDFS
- DeleteS3Object
- DeleteSQS
- DetectDuplicate
- DistributeLoad
- DuplicateFlowFile
- EncryptContent
- 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
- ForkRecord
- ListAzureBlobStorage
- ListAzureDataLakeStorage
- ListDatabaseTables
- ListenFTP
- ListenHTTP
- ListenRELP
- ListenSyslog
- ListenTCP
- ListenTCPRecord
- ListenUDP
- ListenUDPRecord
- ListenWebSocket
- ListFile
- ListFTP
- ListGCSBucket
- ListHDFS
- ListS3
- ListSFTP
- LogAttribute
- LogMessage
- LookupAttribute
- LookupRecord
- MergeContent
- MergeRecord
- ModifyHTMLElement
- MonitorActivity
- Notify
- ParseCEF
- ParseEvtx
- ParseSyslog
- PartitionRecord
- PostHTTP
- PublishAMQP
- PublishGCPubSub
- PublishJMS
- PublishKafka
- PublishKafka_0_10
- PublishKafka_1_0
- PublishKafka_2_0
- PublishKafka_2_6
- PublishKafkaRecord_0_10
- PublishKafkaRecord_1_0
- PublishKafkaRecord_2_0
- PublishKafkaRecord_2_6
- PublishMQTT
- PutAzureBlobStorage
- PutAzureDataLakeStorage
- PutAzureEventHub
- PutAzureQueueStorage
- PutBigQueryBatch
- PutS3Object
- PutSFTP
- PutSNS
- PutSolrContentStream
- PutSolrRecord
- PutSplunk
- PutSQL
- PutSQS
- PutSyslog
- PutTCP
- PutUDP
- PutWebSocket
- QueryCassandra
- QueryDatabaseTable
- QueryDatabaseTableRecord
- QueryElasticsearchHttp
- QueryRecord
- QuerySolr
- QueryWhois
- ReplaceText
- ReplaceTextWithMapping
- ResizeImage
- RetryFlowFile
- RouteHL7
- RouteOnAttribute
- RouteOnContent
- RouteText
- SampleRecord
- ScanAttribute
- ScanContent
- ScanHBase
- ScriptedTransformRecord
- ScrollElasticsearchHttp
- SegmentContent
- SelectHive3QL
- SelectHiveQL
- SplitAvro
- SplitContent
- SplitJson
- SplitRecord
- SplitText
- SplitXml
- TagS3Object
- TailFile
- TransformXml
- UnpackContent
- UpdateAttribute
- UpdateCounter
- UpdateRecord
- ValidateCsv

- GenerateFlowFile
- GenerateTableFetch
- GeoEnrichIP
- GeoEnrichIPRecord
- PutBigQueryStreaming
- PutCassandraQL
- PutCloudWatchMetric
- PutCouchbaseKey
- ValidateRecord
- ValidateXml
- Wait
- YandexTranslate

Supported NiFi Controller Services

Learn about the NiFi Controller Services supported by HDF 3.5.2.

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. Do not use these features in your production environments.

- ActionHandlerLookup
- ADLSCredentialsControllerService
- AlertHandler
- AvroReader
- AvroRecordSetWriter
- AvroSchemaRegistry
- AWSCredentialsProviderControllerService
- AzureStorageCredentialsControllerService
- AzureStorageCredentialsControllerService
- CassandraSessionProvider
- CouchbaseClusterService
- CouchbaseKeyValueLookupService
- CouchbaseMapCacheClient
- CouchbaseRecordLookupService
- CSVReader
- CSVRecordLookupService
- CSVRecordSetWriter
- DatabaseRecordLookupService
- DatabaseRecordSink
- DBCPConnectionPool
- DBCPConnectionPoolLookup
- DistributedMapCacheClientService
- DistributedMapCacheLookupService
- DistributedMapCacheServer
- DistributedSetCacheClientService
- DistributedSetCacheServer
- DruidTranquilityController
- EasyRulesEngineProvider
- EasyRulesEngineService
- ElasticsearchClientServiceImpl
- ElasticsearchLookupService
- ElasticsearchStringLookupService
- EmbeddedHazelcastCacheManager
- ExpressionHandler
- ExternalHazelcastCacheManager
- FreeFormTextRecordSetWriter
- GCPCredentialsControllerService
- GurokReader
- HazelcastDBCPConnectionPool
- 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
- HiveConnectionPool
- HortonworksSchemaRegistry
- JMSConnectionFactoryProvider
- JndiJmsConnectionFactoryProvider
- JsonPathReader
- JsonRecordSetWriter
- JsonTreeReader
- KafkaRecordSink_1_0
- KafkaRecordSink_2_0
- KafkaRecordSink_2_6
- KeytabCredentialsService
- KuduLookupService
- LogHandler
- ParquetReader
- ParquetRecordSetWriter
- PrometheusRecordSink
- ReaderLookup
- RecordSetWriterLookup
- RecordSinkHandler
- RecordSinkServiceLookup
- RedisConnectionPoolService
- RedisDistributedMapCacheClientService
- RestLookupService
- ScriptedActionHandler
- ScriptedLookupService
- ScriptedReader
- ScriptedRecordSetWriter
- ScriptedRecordSink
- ScriptedRulesEngine
- SimpleDatabaseLookupService
- SimpleKeyValueLookupService
- SimpleScriptedLookupService
- SiteToSiteReportingRecordSink
- StandardHttpContextMap
- StandardProxyConfigurationService
- StandardRestrictedSSLContextService
- StandardS3EncryptionService
- StandardSSLContextService
- Syslog5424Reader
- SyslogReader
- VolatileSchemaCache
- XMLReader
- XMLRecordSetWriter

Supported NiFi Reporting Tasks

Learn about the NiFi Reporting Tasks supported by HDF 3.5.2.

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

Unsupported Features

Some features exist within HDF 3.5.2, but Cloudera does not currently support these capabilities.

Technical Preview Features

The following features are available within 3.5.2 but are not ready for production deployment. Cloudera encourages you to explore these technical preview features in non-production environments and provide feedback on your experiences through the [Cloudera Community Forums](#).

Table 1: Technical Previews

Component	Feature
MiNiFi	Android/iOS MiNiFi libraries for mobile integration
NiFi	Encrypted flow file repository
NiFi	Encrypted content repository

Community Driven Features

The following features are developed and tested by the Cloudera community but are not officially supported by Cloudera. These features 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.

Community Driven Kafka features

- Kafka Connect

Unsupported HDP Components

NiFi processors available in HDF 3.5.2 have been tested against the following HDP components:

- Hive 1.2.1000 in HDP 2.5.x and HDP 2.6.x
- Hive 3.1.0 in HDP 3.0.x and HDP 3.1.x
- Hadoop, HBase and Kafka included from HDP 2.5.x to HDP 3.1.x

Using processors to interact with other configurations of Hive, Hadoop, Hbase and Kafka is not covered by Cloudera Support.

Unsupported Customizations

Hortonworks cannot guarantee that default NiFi processors are compatible with proprietary protocol implementations or proprietary interface extensions. For example, we support interfaces like JMS and JDBC that are built around standards, specifications, or open protocols. But we do not support customizations of those interfaces, or proprietary extensions built on top of those interfaces.

Behavior Changes

Behavioral changes denote a marked change in behavior from the previously released version to this version of software.

The followings are the behavioral changes in Apache NiFi component in this release:

Removal of Elasticsearch 5 processors

Scenario

The processors PutElasticsearch5, FetchElasticsearch5, DeleteElasticsearch5 are no longer available and will be shown as "ghost processors" if not replaced with the following alternatives.

Expected user action

You must change the processor to a more robust alternative:

- PutElasticsearch5 should be replaced by one of the ** PutElasticsearch(Http) or PutElasticsearch(Http)Record processors
- FetchElasticsearch5 should be replaced by one of the FetchElasticsearch(Http) processors
- DeleteElasticsearch5 should be replaced by DeleteByQueryElasticsearch

Apache Patch Information

The following sections list patches in each HDF 3.5.2 component beyond what was fixed in the base version of the Apache component.

NiFi Patches

This release provides NiFi 1.12.1 and the listed Apache patches.



Note: The NiFi version in HDF 3.5.2.0 is NiFi 1.12.1.3.5.2.0, which includes fixes that is available in Apache NiFi 1.12.1 as well as additional improvements.

- [NIFI-2580](#): Improve EvaluateJSONPath docs.
- [NIFI-4303](#): RabbitMQConsumer: Publish the message routing key as an attribute to flowfile.
- [NIFI-4897](#): Add documentation to user guide for terminating a processor.
- [NIFI-5829](#): Create Lookup Controller Services for RecordSetWriter and RecordReader.
- [NIFI-6820](#): If Processor adjusts a counter but does not interact with any FlowFiles, the counter isn't updated.
- [NIFI-7429](#): Add Status History capabilities for system level metrics.
- [NIFI-7452](#): Support adls_gen2_directory in Atlas reporting task.
- [NIFI-7503](#): PutSQL Shouldn't Commit When in AutoCommit Mode.
- [NIFI-7534](#): Consume MQTT Processor. Support EL for Topic Filter property.
- [NIFI-7549](#): Adding Hazelcast based DistributedMapCacheClient support.
- [NIFI-7557](#): Cache large/common FlowFile attributes when restoring FlowFile Repository.
- [NIFI-7565](#): Add DATE support to Nifi Kudu processor.
- [NIFI-7584](#): LOG OUT button does not work when OpenID Connect is used for authentication.
- [NIFI-7624](#): Build a ListenFTP processor.

- [NIFI-7637](#): ValidateRecord does not validate datatypes in an array.
- [NIFI-7685](#): Add UTF8 support for FetchFTP.
- [NIFI-7719](#): Allow NiFi CLI to use additional authN mechanisms.
- [NIFI-7745](#): Add a SampleRecord processor.
- [NIFI-7777](#): CompressContent should accept password.
- [NIFI-7796](#): Add Prometheus metrics for total bytes received and bytes sent for components.
- [NIFI-7815](#): Enhance the logging in MergeContent processor.
- [NIFI-7817](#): ParquetReader fails to instantiate due to missing default value for compression-type property.
- [NIFI-7825](#): Support native library loading via absolute path.
- [NIFI-7827](#): PutS3Object multipart state directory should be configurable.
- [NIFI-7830](#): PutAzureDataLakeStorage fails on large files.
- [NIFI-7843](#): Recursive avro schemas fail to write with RecordWriter.
- [NIFI-7852](#): Correction in additionalDetails of LookupRecord documentation.
- [NIFI-7854](#): Add proxy username/password support to SQS processors.
- [NIFI-7859](#): Write execution duration attributes to SelectHive3QL output flow files.
- [NIFI-7867](#): nifi.sh diagnostics also runs the env command.
- [NIFI-7871](#): Correct errors in documentation for UUID3, UUID5 and hash in Expression Language Guide.
- [NIFI-7874](#): S3List processor in v1.12.1 uses lots of CPU power and RAM.
- [NIFI-7892](#): Create a Logout page for OIDC.
- [NIFI-7909](#): Change DataTypeUtils.toInteger() to use Math.toIntExact().
- [NIFI-7914](#): Upgrade dependencies.
- [NIFI-7916](#): refactor CountText to ignore whitespace words when counting.
- [NIFI-7920](#): When enabling Controller Services, if Cluster Coordinator fails to enable, can result in service becoming unmodifiable with error "Revision ... is not the most up-to-date revision. This component appears to have been modified".
- [NIFI-7923](#): Nar Auto-Loader cannot recover from Throwable/Error.
- [NIFI-7925](#): ValidateRecord reports false positive for avro arrays with null elements.
- [NIFI-7929](#): connectionTimeout and readTimeout options are not exposed in the CLI.
- [NIFI-7933](#): Set proper property descriptor for CSV Escape.
- [NIFI-7941](#): Add options and example(s) for NiFi Registry mode to the Encrypt-Config section of the Toolkit Guide.
- [NIFI-7942](#): Status History fails on Record processors.
- [NIFI-7943](#): Add application properties to GetAzureEventHub.
- [NIFI-7944](#): When importing a flow from registry, Controller Service may lose track of Referencing Components.
- [NIFI-7952](#): Allow PutKudu to take RecordPath for determining Operation Type and data to insert.
- [NIFI-7953](#): Allow ConsumeKafka_2_* / ConsumeKafkaRecord_2_* to separate Records based on Message Key.
- [NIFI-7954](#): HBase_*_ClientService should wrap calls in getUgi().doAs.
- [NIFI-7956](#): Allow PutKudu to optionally rollback on failure instead of transferring to failure.
- [NIFI-7959](#): Implement MonitorActivity disconnection management.
- [NIFI-7968](#): PutHDFS/PutParquet fail to write to Kerberized HDFS with KMS enabled.
- [NIFI-7972](#): TailFile reading from NFS may introduce NUL characters.
- [NIFI-7976](#): JSON Schema Inference infers long type when all values fit in integer type.
- [NIFI-7984](#): Add Run Duration to FetchHBaseRow processor in NiFi.
- [NIFI-7992](#): Content Repository can fail to cleanup archive directory fast enough.
- [NIFI-7993](#): Upgrade Jetty from 9.4.26.v20200117 to 9.4.34.v20201102.
- [NIFI-7994](#): ReplaceText concurrency issue.
- [NIFI-7996](#): Conversion with ConvertRecord to avro results in invalid date.
- [NIFI-7999](#): NiFi startup can be very slow if using many load balanced connections per node.
- [NIFI-8017](#): NPE at org.apache.nifi.provenance.index.lucene. IndexDirectoryManager:486.
- [NIFI-8020](#): TailFile can leave FileChannel open when handling NUL characters.

- [NIFI-8054](#): When components are removed from flow, their class loaders are not cleaned up.

For more information on fixed Apache NiFi patches, see <https://cwiki.apache.org/confluence/display/NIFI/Release+Notes>.

NiFi Registry Patches

This release provides NiFi Registry 0.8.0 and the listed Apache patches.

- [NIFIREG-429](#): Flyway error when upgrading from older release to 0.8.0.

For more information on fixed Apache NiFi Registry patches, see <https://cwiki.apache.org/confluence/display/NIFIREG/Release+Notes>.

Kafka Patches

This release provides Kafka 2.3.1 and the listed Apache patches.

- [KAFKA-5462](#): Add a configuration for users to specify a template for building a custom principal name.
- [KAFKA-8860](#): SslPrincipalMapper should handle distinguished names with spaces.

ZooKeeper Patches

This release provides ZooKeeper 3.4.6 and the listed Apache patches.

- [ZOOKEEPER-602](#): Log all exceptions not caught by ZK threads.
- [ZOOKEEPER-1045](#): Support Quorum Peer mutual authentication via SASL.
- [ZOOKEEPER-1342](#): quorum Listener & LearnerCnxAcceptor are missing thread names.
- [ZOOKEEPER-1392](#): Request READ or ADMIN permission for getAcl().
- [ZOOKEEPER-1907](#): Improve Thread handling.
- [ZOOKEEPER-2029](#): Leader.LearnerCnxAcceptor should handle exceptions in run().
- [ZOOKEEPER-2186](#): QuorumCnxManager#receiveConnection may crash with random input.
- [ZOOKEEPER-2247](#): Zookeeper service becomes unavailable when leader fails to write transaction log.
- [ZOOKEEPER-2360](#): Update commons collections version used by tests/releaseaudit.
- [ZOOKEEPER-2498](#): Potential resource leak in C client when processing unexpected / out of order response.
- [ZOOKEEPER-2594](#): Use TLS for downloading artifacts during build.
- [ZOOKEEPER-2775](#): ZK Client not able to connect with Xid out of order error.
- [ZOOKEEPER-3043](#): QuorumKerberosHostBasedAuthTest fails on Linux box: Unable to parse:includedir /etc/krb5.conf.d/.
- [ZOOKEEPER-3253](#): Client should not send requests with cxid=-4, -2, or -1.

Common Vulnerabilities and Exposures

Lists common vulnerabilities and exposures fixed in HDF 3.5.2.

The following CVEs have been fixed in HDF 3.5.2:

log4j vulnerability patches

On December 21, 2021 Cloudera released a hotfix for Cloudera Flow Management on Private Cloud Base. It addresses 2 CVEs and other vulnerability concerns as listed below. Cloudera urges all customers to upgrade their DataFlow services to the latest version.

- [CVE-2021-44228](#) which affects Apache Log4j2 versions 2.0 through 2.14.1.
- [CVE-2021-45046](#) which affects Apache Log4j2 version 2.15.0
- [LOGBACK-1591](#) which affects logback versions <= 1.2.7



Important:

NiFi contains the vulnerable log4j2 libraries and should be updated. For information about the available hotfix, contact your Cloudera Support representative.

Cloudera is not aware of known exploitation paths within CFM for Private Cloud Base, however upgrading protects against the possibility of any exploitation.

CVE-2020-9486

Component: Apache NiFi

Description: The NiFi stateless execution engine produced log output which included sensitive property values. When a flow was triggered, the flow definition configuration JSON was printed, potentially containing sensitive values in plaintext.

Severity: Important

Versions Affected: Apache NiFi 1.10.0 - 1.11.4

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2020-9486>

CVE-2020-9487

Component: Apache NiFi

Description: The NiFi download token (one-time password) mechanism used a fixed cache size and did not authenticate a request to create a download token, only when attempting to use the token to access the content. An unauthenticated user could repeatedly request download tokens, preventing legitimate users from requesting download tokens.

Severity: Important

Versions Affected: Apache NiFi 1.0.0 - 1.11.4

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2020-9487>

CVE-2020-9491

Component: Apache NiFi

Description: The NiFi UI and API were protected by mandating TLS v1.2, as well as listening connections established by processors like ListenHTTP, HandleHttpRequest, etc. However intracluster communication such as cluster request replication, Site-to-Site, and load balanced queues continued to support TLS v1.0 or v1.1.

Severity: Critical

Versions Affected: Apache NiFi 1.2.0 - 1.11.4

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2020-9491>

CVE-2020-13940

Component: Apache NiFi

Description: The notification service manager and various policy authorizer and user group provider objects allowed trusted administrators to inadvertently configure a potentially malicious XML file. The XML file has the ability to make external calls to services (via XXE).

Severity: Low

Versions Affected: Apache NiFi 1.0.0 - 1.11.4

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2020-13940>

Download

To access HDF software artifacts, authentication is now required.

For information on how to download HDF software artifacts, see *Downloading Your Software*.

For information on HDF repo locations, see *HDF Repository Locations*.

Related Information

[Downloading your Software](#)

[HDF Repository Locations](#)

[HDF Repository Location for IBM Power Systems](#)

HDF Repository Locations

Use the following tables to identify the HDF 3.5.2 repository location for your operating system and operational objectives.

Access to the HDF software artifacts for production purposes requires authentication. Prior to starting installation, you must download the HDF software artifacts from the Cloudera Downloads portal.

You must first have an active subscription agreement that provides you access to download and use HDF. You get the credentials from Cloudera sales representatives or from the Flow Management account welcome email. The entitlement to HDF is connected to your MyCloudera account which you can use to access the HDF downloads page.



Note:

The download credentials contained in your welcome email are not the same as the credentials you use to access the support portal.

Table 2: Amazon Linux 2 repositories & additional download locations

OS	Format	Download location
Amazon Linux 2	HDF Build number	3.5.2.0-99
	HDF Base URL	https://archive.cloudera.com/p/HDF/amazonlinux2/3.x/updates/3.5.2.0
	HDF Repo	https://archive.cloudera.com/p/HDF/amazonlinux2/3.x/updates/3.5.2.0/hdf.repo
	RPM tarball	https://archive.cloudera.com/p/HDF/amazonlinux2/3.x/updates/3.5.2.0/HDF-3.5.2.0-amazonlinux2-rpm.tar.gz
	Tars tarball	https://archive.cloudera.com/p/HDF/amazonlinux2/3.x/updates/3.5.2.0/HDF-3.5.2.0-amazonlinux2-tars-tarball.tar.gz
	HDF Management Pack	https://archive.cloudera.com/p/HDF/amazonlinux2/3.x/updates/3.5.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.5.2.0-99.tar.gz
	HDP and Ambari Repositories	
	Ambari	https://archive.cloudera.com/p/ambari/amazonlinux2/2.x/updates/2.7.5.0/ambari.repo
	HDP	https://archive.cloudera.com/p/HDP/amazonlinux2/3.x/updates/3.1.5.0/hdp.repo
	HDP-UTILS	https://archive.cloudera.com/p/HDP-UTILS/1.1.0.22/repos/amazonlinux2
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.tar.gz

OS	Format	Download location
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.5.2.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.tar.gz
	iOS/Android Libraries	<ul style="list-style-type: none"> Android – https://github.com/hortonworks/nifi-android-s2s iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 3: RHEL/Oracle Linux/CentOS 7 HDF repository & additional download locations

OS	Format	Download location
RHEL/Oracle Linux/CentOS 7 (64-bit):	HDF Build Number	3.5.2.0-99
	HDF Base URL	https://archive.cloudera.com/p/HDF/centos7/3.x/updates/3.5.2.0
	HDF Repo	https://archive.cloudera.com/p/HDF/centos7/3.x/updates/3.5.2.0/hdf.repo
	RPM tarball	https://archive.cloudera.com/p/HDF/centos7/3.x/updates/3.5.2.0/HDF-3.5.2.0-centos7-rpm.tar.gz
	Tars tarball	https://archive.cloudera.com/p/HDF/centos7/3.x/updates/3.5.2.0/HDF-3.5.2.0-centos7-tars-tarball.tar.gz
	HDF Management Pack	https://archive.cloudera.com/p/HDF/centos7/3.x/updates/3.5.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.5.2.0-99.tar.gz
	MiNiFi C++ Agent	https://archive.cloudera.com/p/HDF/centos7/3.x/updates/3.5.2.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.6.0-bin.tar.gz
	HDP and Ambari Repositories	
	Ambari	https://archive.cloudera.com/p/ambari/centos7/2.x/updates/2.7.5.0/ambari.repo
	HDP	https://archive.cloudera.com/p/HDP/centos7/3.x/updates/3.1.5.0/hdp.repo
	HDP-UTILS	https://archive.cloudera.com/p/HDP-UTILS/1.1.0.22/repos/centos7
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.5.2.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.tar.gz
MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.tar.gz 	

OS	Format	Download location
	iOS/Android Libraries	<ul style="list-style-type: none"> Android – https://github.com/hortonworks/nifi-android-s2s iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 4: SLES 12 HDF repository & additional download locations

OS	Format	Download location	
SUSE Linux Enterprise Server (SLES) v12	HDF Build Number	3.5.2.0-99	
	HDF Base URL	https://archive.cloudera.com/p/HDF/sles12/3.x/updates/3.5.2.0	
	Repo	https://archive.cloudera.com/p/HDF/sles12/3.x/updates/3.5.2.0/hdf.repo	
	RPM tarball	https://archive.cloudera.com/p/HDF/sles12/3.x/updates/3.5.2.0/HDF-3.5.2.0-sles12-rpm.tar.gz	
	Tars tarball	https://archive.cloudera.com/p/HDF/sles12/3.x/updates/3.5.2.0/HDF-3.5.2.0-sles12-tars-tarball.tar.gz	
	HDF Management Pack	https://archive.cloudera.com/p/HDF/sles12/3.x/updates/3.5.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.5.2.0-99.tar.gz	
	HDP and Ambari Repositories		
	Ambari	https://archive.cloudera.com/p/ambari/sles12/2.x/updates/2.7.5.0/ambari.repo	
	HDP	https://archive.cloudera.com/p/HDP/sles12/3.x/updates/3.1.5.0/hdp.repo	
	HDP-UTILS	https://archive.cloudera.com/p/HDP-UTILS/1.1.0.22/repos/sles12	
	OS Agnostic Downloads		
	NiFi only	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.tar.gz 	
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.tar.gz 	
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.5.2.0	
	NiFi Registry	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.tar.gz 	
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.tar.gz 	
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.tar.gz 	
iOS/Android Libraries	<ul style="list-style-type: none"> Android – https://github.com/hortonworks/nifi-android-s2s iOS – https://github.com/hortonworks/nifi-ios-s2s 		

Table 5: Ubuntu 16 HDF repository & additional download locations

OS	Format	Download location
Ubuntu Trusty 16 (64-bit)	HDF Build Number	3.5.2.0-99
	HDF Base URL	https://archive.cloudera.com/p/HDF/ubuntu16/3.x/updates/3.5.2.0
	Repo	https://archive.cloudera.com/p/HDF/ubuntu16/3.x/updates/3.5.2.0/hdf.list
	Deb tarball	https://archive.cloudera.com/p/HDF/ubuntu16/3.x/updates/3.5.2.0/HDF-3.5.2.0-ubuntu16-deb.tar.gz

OS	Format	Download location
	Tars tarball	https://archive.cloudera.com/p/HDF/ubuntu16/3.x/updates/3.5.2.0/HDF-3.5.2.0-ubuntu16-tars-tarball.tar.gz
	HDF Management Pack	https://archive.cloudera.com/p/HDF/ubuntu16/3.x/updates/3.5.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.5.2.0-99.tar.gz
	MiNiFi C++ Agent	https://archive.cloudera.com/p/HDF/ubuntu16/3.x/updates/3.5.2.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.6.0-bin.tar.gz
	HDP and Ambari Repositories	
	Ambari	https://archive.cloudera.com/p/ambari/ubuntu16/2.x/updates/2.7.5.0/ambari.list
	HDP	https://archive.cloudera.com/p/HDP/ubuntu16/3.x/updates/3.1.5.0/hdp.list
	HDP-UTILS	https://archive.cloudera.com/p/HDP-UTILS/1.1.0.22/repos/ubuntu16
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.5.2.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.tar.gz
	iOS/Android Libraries	<ul style="list-style-type: none"> Android – https://github.com/hortonworks/nifi-android-s2s iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 6: Ubuntu 18 HDF repository & additional download locations

OS	Format	Download location
Ubuntu Trusty 18 (64-bit)	HDF Build Number	3.5.2.0-99
	HDF Base URL	https://archive.cloudera.com/p/HDF/ubuntu18/3.x/updates/3.5.2.0
	Repo	https://archive.cloudera.com/p/HDF/ubuntu18/3.x/updates/3.5.2.0/hdf.list
	Deb tarball	https://archive.cloudera.com/p/HDF/ubuntu18/3.x/updates/3.5.2.0/HDF-3.5.2.0-ubuntu18-deb.tar.gz
	Tars tarball	https://archive.cloudera.com/p/HDF/ubuntu18/3.x/updates/3.5.2.0/HDF-3.5.2.0-ubuntu18-tars-tarball.tar.gz
	HDF Management Pack	https://archive.cloudera.com/p/HDF/ubuntu18/3.x/updates/3.5.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.5.2.0-99.tar.gz
	HDP and Ambari Repositories	
	Ambari	https://archive.cloudera.com/p/ambari/ubuntu18/2.x/updates/2.7.5.0/ambari.list
	HDP	https://archive.cloudera.com/p/HDP/ubuntu18/3.x/updates/3.1.5.0/hdp.list
	HDP-UTILS	https://archive.cloudera.com/p/HDP-UTILS/1.1.0.22/repos/ubuntu18

OS	Format	Download location
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.5.2.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.tar.gz
	iOS/Android Libraries	<ul style="list-style-type: none"> Android – https://github.com/hortonworks/nifi-android-s2s iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 7: Debian 9 HDF repository & additional download locations

OS	Format	Download location
Debian 9	HDF Build Number	3.5.2.0-99
	HDF Base URL	https://archive.cloudera.com/p/HDF/debian9/3.x/updates/3.5.2.0
	Repo	https://archive.cloudera.com/p/HDF/debian9/3.x/updates/3.5.2.0/hdf.list
	Deb tarball	https://archive.cloudera.com/p/HDF/debian9/3.x/updates/3.5.2.0/HDF-3.5.2.0-debian9-deb.tar.gz
	Tars tarball	https://archive.cloudera.com/p/HDF/debian9/3.x/updates/3.5.2.0/HDF-3.5.2.0-debian9-tars-tarball.tar.gz
	HDF Management Pack	https://archive.cloudera.com/p/HDF/debian9/3.x/updates/3.5.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.5.2.0-99.tar.gz
	HDP and Ambari Repositories	
	Ambari	https://archive.cloudera.com/p/ambari/debian9/2.x/updates/2.7.5.0/ambari.list
	HDP	https://archive.cloudera.com/p/HDP/debian9/3.x/updates/3.1.5.0/hdp.list
	HDP-UTILS Base URL	https://archive.cloudera.com/p/HDP-UTILS/1.1.0.22/repos/debian9
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-1.12.1.3.5.2.0-99-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-toolkit-1.12.1.3.5.2.0-99-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.5.2.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/nifi-registry-0.8.0.3.5.2.0-99-bin.tar.gz

OS	Format	Download location
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-0.6.0.3.5.2.0-99-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.zip Tar.gz File – https://archive.cloudera.com/p/HDF/3.5.2.0/minifi-toolkit-0.6.0.3.5.2.0-99-bin.tar.gz
	iOS/Android Libraries	<ul style="list-style-type: none"> Android – https://github.com/hortonworks/nifi-android-s2s iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 8: NiFi and MiNiFi MSI files

File	Location
NiFi MSI	https://archive.cloudera.com/p/HDF/windows/3.x/updates/3.5.2.0/nifi-3.5.2.0-99.msi
MiNiFi MSI	https://archive.cloudera.com/p/HDF/windows/3.x/updates/3.5.2.0/minifi-3.5.2.0-99.msi

HDF Repository Location for IBM Power Systems

HDF 3.5.2 is not certified on IBM Power Systems.

Fixed Issues

Summary of fixed issues for this release.

Fixed issues represents selected issues that were previously logged via Hortonworks Support, but are now addressed in the current release. These issues may have been reported in previous versions within the Known Issues section; meaning they were reported by customers or identified by Hortonworks Quality Engineering team.

The HDF 3.5.2 is a major release that includes new features and supports for new versions of some Apache components including Apache NiFi, Apache NiFi Registry, Apache Kafka, and Schema Registry. For fixed issues in these Apache components, see *Apache Patch Information*.

Fixed issues in HDF 3.5.2 include:

- ReplaceText, when scheduled to run with multiple Concurrent Tasks, and using a Replacement Strategy of "Regular Expression" or "Literal Replace" can result in content being corrupted.
The issue is far more likely to occur with multiple Concurrent Tasks, but it may be possible to trigger when using a single Concurrent Task.
- Sometimes restarting Stream Analytics Manager fails. In most cases hitting a Retry button solves the issue. If retry does not solve and issue is Downloading mysql jdbc driver failed, the particular file marked in the logs should be removed on that node in /tmp. After that the installation can be continued.
Sometimes Stream Analytics Manager installation times out. This is caused by the same root cause. Delete the mysql jar from the Stream Analytics Manager host /tmp folder, and retry after the timeout.
- Install or upgrade of HDF fails as the URL for HDP-UTILS, in the mpack, is not correct.
- Synchronize Kerberos ticket renewal for non-renewable ticket.
- Re-create a deleted schema does not work.

Known Issues

Summary of known issues for this release.

- Issue:

A known issue in Chrome 92.x causes significant slowness in the NiFi UI and may lead to high CPU consumption. For more information, see the Chrome Known Issues documentation at [1235045](#).

Workaround:

Use another version of Chrome or a different browser.

- Issue:

Configuration parameter registry.sso.enabled was not found in configurations dictionary.

Workaround:

Run the following command on the Ambari server node:

```
/var/lib/ambari-server/resources/scripts/configs.py -a set -l <ambari-server-hostname> -n <cluster_name> -u admin -p {admin_user_password} -c registry-sso-config -k registry.sso.enabled -v <either true or false>
```

- Issue:

JDK 8u271, JDK 8u281, and JDK 8u291 may cause socket leak issues in NiFi due to JDK-8245417 and JDK-8256818. Pay attention to the build version of your JDK because some later builds are fixed as described in JDK-8256818.

Workaround:

Consider using a more recent version of the JDK like 8u282, or builds of the JDK where the issue is fixed.

- Issue:

SAM app with storm-druid sink throws exception.

Workaround:

There is no workaround for this issue.

- Issue:

When you upgrade HDF from an older version (pre 3.5.0.0) on HDP, Nifi Registry might fail during the start with the following error message:

```
Caused by: org.xml.sax.SAXParseException: cvc-complex-type.2.4.b:
The content of element 'providers' is not complete. One of
'{eventHookProvider, extensionBundlePersistenceProvider}' is expected.
```

Workaround

To resolve this issue, add the following configuration to Advanced nifi-registry-providers-env in Ambari:

```
<extensionBundlePersistenceProvider>
  <class>org.apache.nifi.registry.provider.extension.FileSystemBundlePersistenceProvid
class>
  <property name="Extension Bundle Storage
Directory">{{nifi_registry_internal_dir}}/extension_bundles</property>
</extensionBundlePersistenceProvider>
```

- Issue:

The default Ambari reporting task in NiFi is not configured correctly and the NiFi metrics are not properly displayed in Ambari even though there is no reported error.

Workaround:

In the reporting task configuration, change the Application ID property to an uppercase value: **NIFI**. For example:

Reporting Task Details

SETTINGS PROPERTIES COMMENTS

Required field

Property	Value
Metrics Collector URL	? \${ambari.metrics.collector.url}
Application ID	? NIFI
Hostname	? \${hostname(true)}
Process Group ID	? No value set

OK

- TSB-497: CVE-2021-27905: Apache Solr SSRF vulnerability with the Replication handler

The Apache Solr ReplicationHandler (normally registered at "/replication" under a Solr core) has a "masterUrl" (also "leaderUrl" alias) parameter. The "masterUrl" parameter is used to designate another ReplicationHandler on another Solr core to replicate index data into the local core. To help prevent the CVE-2021-27905 SSRF vulnerability, Solr should check these parameters against a similar configuration used for the "shards" parameter.

For the latest update on this issue, see the corresponding Knowledge article: [TSB 2021-497: CVE-2021-27905: Apache Solr SSRF vulnerability with the Replication handler](#)

Third-Party Licenses

HDF 3.5.2 deploys numerous third-party licenses and dependencies, all of which are compatible with the Apache software license. For complete third-party license information, see the licenses and notice files contained within the distribution.

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