

Release Notes 3

Release Notes

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Hortonworks DataFlow 3.2.0 Release Notes

This document provides you with the latest information about the HDF 3.2.0 release and its product documentation.

Component Support

HDF 3.2.0 includes the following components:

- Apache Ambari 2.7.0
- Apache Kafka 1.1.1
- Apache NiFi 1.7.0
- NiFi Registry 0.2.0
- Apache Ranger 1.1.0
- Apache Storm 1.2.1
- Apache ZooKeeper 3.4.6
- Apache MiNiFi Java Agent 0.5.0
- Apache MiNiFi C++ 0.5.0
- Hortonworks Schema Registry 0.5.3
- Hortonworks Streaming Analytics Manager 0.6.0
- Apache Knox 1.0.0

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
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
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
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
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
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
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
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
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
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
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

	NiFi	Storm	Kafka	ZooKeeper	Ambari	Ranger	MiNiFi Java Agent	MiNiFi C++	Streaming Analytics Manager	Schema Registry	NiFi Registry
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
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
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
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
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
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
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
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
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
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

What's New in HDF 3.2.0

HDF 3.2.0 is a minor release that includes the following new features and bug fixes. In addition to the updates listed below, HDF 3.2.0 also includes Knox 1.0.0 in the public repository.

Apache Kafka Updates

Kafka has been upgraded from 1.0.0 to 1.1.0 with some critical bug fixes including:

- [KAFKA-6172](#) - Cache lastEntry in TimeIndex to avoid unnecessary disk access
- [KAFKA-6175](#) - AbstractIndex should cache index file to avoid unnecessary disk access during resize()
- [KAFKA-6258](#) - SSLTransportLayer should keep reading from socket until either the buffer is full or the socket has no more data

In addition to these bug fixes, an important new feature was added to capture producer and topic partition level metrics without instrumenting or configuring interceptors on the clients.

This provides a non-invasive approach to capture important metrics for producers without refactoring/modifying your existing Kafka clients.

Apache Storm Updates

Storm has been upgraded from 1.1.0 to 1.2.1. Storm 1.2.1 now supports all HDP 3.0 components including Hadoop/HDFS 3.0, HBase 2.0 and Hive 3.

Key Bug Fixes include:

- [STORM-2993](#) - Storm HDFS bolt throws ClosedChannelException when Time rotation policy is used
- [BUG-104149](#) - Prevent supervisor crash when topology conf file doesn't exist in updateBlobsForTopology
- [BUG-94588](#) - Skip the user while checking isProcessAlive

For a full list of bug fixes, see the following:

http://rsync.mirror.anlx.net/apache/storm/apache-storm-1.2.2/RELEASE_NOTES.html

SAM Updates

New Features and Improvements in SAM include:

- Rule, Projection and Aggregate processor supports writing complex conditions
- Atlas integration – Ability to import ‘Atlas’ as a service and push SAM app information to Atlas during deployment
- Compatibility with HDP 3.0 (Hive 3.0, Hbase 2.0, Hadoop/HDFS 3.0)
- Test mode enhancement to support test mode without a cluster
- Support for updating a SAM app environment

Key Bug Fixes include:

- SAM view mode metrics related fixes
- Custom processor handling null values

Schema Registry Updates

Schema Registry has been upgraded from 0.5.0 to 0.5.2 with some important improvements including:

- [ISSUE-441](#) Let addOrUpdate be compatible with PostgreSQL under 9.5
- [ISSUE-418](#) Add JWT based SSO as alternative authentication to common-auth module.
- [ISSUE-420](#) Add migration to add extents for created tables to fix serializable as an isolation level for Oracle database
- [ISSUE-415](#) Client side schema validation - Disable or Customize

Apache NiFi Updates

NiFi has been upgraded from 1.5.0 to 1.7.0. NiFi 1.7.0 now supports all HDP 3.0 components including Hadoop/HDFS 3.0, HBase 2.0 and Hive 3.

New Features:

- [NIFI-5214](#) - Add a REST lookup service
- [NIFI-5133](#) - Create a processor to Publish and Subscribe to Google Pub/Sub
- [NIFI-4982](#) - Add a DistributedMapCacheLookupService
- [NIFI-4963](#) - Add support for Hive 3.0 processors
- [NIFI-4917](#) - Create a new Controller Service for specifying Keytabs
- [NIFI-4906](#) - Add GetHdfsFileInfo Processor
- [NIFI-4872](#) - NIFI component high resource usage annotation
- [NIFI-4833](#) - Add ScanHBase processor
- [NIFI-4809](#) - Implement a SiteToSiteMetricsReportingTask
- [NIFI-4227](#) - Create a ForkRecord processor
- [NIFI-4185](#) - Add XML record reader
- [NIFI-5186](#) - Update UI to account for asynchronous validation

Key Bugs Fixed:

- [NIFI-5200](#) - Nested ProcessSession.read resulting in outer stream being closed.
- [NIFI-5033](#) - Cannot update variable referenced in restricted components
- [NIFI-4837](#) - Thread leak on HandleHTTPRequest processor

Apache NiFi Registry Updates

NiFi Registry has been upgrade from 0.1.0 to 0.2.0.

New Features:

- [NIFIREG-162](#) Add Git backed persistence provider
- [NIFIREG-173](#) Allow metadata DB to use other DBs besides H2

- [NIFIREG-172](#) Add self-hosted Swagger UI to nifi-registry-web-api WAR
- [NIFIREG-160](#) Implement a hook provider allowing users to create their own hook implementations that execute when a new flow is committed to the registry
- [NIFIREG-134](#) Enable Spring Boot Actuator REST API endpoints
- [NIFIREG-120](#) Docker image for NiFi Registry
- [NIFIREG-109](#) LdapUserGroupProvider: Allow admin to configure group membership attribute
- [NIFIREG-39](#) Leverage Apache NiFi Flow Design System

Key Bugs Fixed:

- [NIFIREG-174](#) - Parameter conf.dir in bootstrap.conf not working
- [NIFIREG-153](#) - The angular router module not properly injected.
- [NIFIREG-144](#) - NPE when accessing for metadata of 'latest' version and no versions exists
- [NIFIREG-140](#) - Nifi Registry not able to start - NoClassDefFoundError org/apache/nifi/registry/util/FileUtils
- [NIFIREG-126](#) - Entering an invalid bucket id in a deep link causes JS error

Apache MiNiFi Java Updates

MiNiFi Java has been upgraded from 0.4.0 to 0.5.0. Improvements include integrations with the MiNiFi C2 server.

New Features:

- [MINIFI-449](#) - Transform NiFi Registry's VersionedFlowSnapshot to YAML
- [MINIFI-441](#) - Improved Docker image
- [MINIFI-434](#) - Preserve security properties when pulling a new config

Key Bugs Fixed:

- [MINIFI-460](#) - SiteToSiteProvenanceReporting task fails to start
- [MINIFI-457](#) - Getting flow status for a processor returns "no processor"
- [MINIFI-456](#) - Exception when hitting MiNiFi C2
- [MINIFI-450](#) - PullHttpChangeIngestor needs to properly close OkHttp response
- [MINIFI-435](#) - MiNiFi - Cannot perform secured S2S with NiFi 1.5.0
- [MINIFI-431](#) - C2 - Exception while agent tries to pull the config

Apache MiNiFi C++ Updates

MiNiFi C++ has been upgraded from 0.4.0 to 0.5.0. Improvements around stability, extendible processors, and interactive ease of use have been made.

New Features:

- [MINIFICPP-508](#) - Support EL for ApplyTemplate Template property
- [MINIFICPP-476](#) - Support true/false literals as function args in EL
- [MINIFICPP-475](#) - Allow preferred image dimensions/mode to be set in GetUSBCamera properties
- [MINIFICPP-474](#) - Implement getDelimitedField EL function
- [MINIFICPP-472](#) - Implement date manipulation EL functions
- [MINIFICPP-471](#) - Implement string manipulation EL functions
- [MINIFICPP-469](#) - Implement base64 encode/decode EL functions
- [MINIFICPP-463](#) - Implement escape/unescape URL EL functions
- [MINIFICPP-445](#) - Implement escape/unescape CSV functions in expression language
- [MINIFICPP-436](#) - Implement encode/decode XML EL functions
- [MINIFICPP-434](#) - Create SQL (lite) processors
- [MINIFICPP-410](#) - MQTT should use controller service instead of a manual SSL configuration
- [MINIFICPP-401](#) - Implement Dynamic Relationships
- [MINIFICPP-397](#) - Implement RouteOnAttribute
- [MINIFICPP-394](#) - Implement MQTT C2 protocol

- [MINIFICPP-382](#) - Add SUSE support to bootstrap process.
- [MINIFICPP-31](#) - Support UpdateAttribute

Key Bugs Fixed:

- [MINIFICPP-495](#) - bootstrap.sh will exit with error in default install Debian systems
- [MINIFICPP-430](#) - GetFile incorrectly reports 0 file size for non-regular files
- [MINIFICPP-396](#) - RPG does not pass SSLContextService to site to site client in a consistent way
- [MINIFICPP-389](#) - FlexLexer.h missing, causing broken Alpine docker build
- [MINIFICPP-385](#) - RPG destruction can lead to EOFException in NiFi when sockets are not closed.

Unsupported Features

Some features exist within HDF 3.2.0, but Hortonworks does not currently support these capabilities.

Technical Preview Features

The following features are available within HDF 3.1.1 but are not ready for production deployment. Hortonworks encourages you to explore these technical preview features in non-production environments and provide feedback on your experiences through the [Hortonworks Community Forums](#).

Table 1: Technical Previews

Component	Feature
MiNiFi	Android/iOS MiNiFi libraries for mobile integration

Community Driven Features

The following features are developed and tested by the Hortonworks community but are not officially supported by Hortonworks. 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 Hortonworks best practices. Do not use these features in your production environments.

Community Driven Kafka features

- Kafka Connect
- Kafka Streams

Community Driven NiFi Tools and Services

- Embedded ZooKeeper
- Sensitive key migration toolkit

Community Driven NiFi Processors

- AttributeRollingWindow
- AWSCredentialsProviderControllerService
- CompareFuzzyHash
- ConsumeAzureEventHub
- ConsumeEWS
- ConsumeIMAP
- ConsumeKafka_0_11
- ConsumeKafkaRecord_0_11
- ConsumePOP3
- ConvertExcelToCSVProcessor
- CountText
- DebugFlow

- DeleteDynamoDB
- DeleteGCSObject
- DeleteHDFS
- DeleteMongo
- DeleteRethinkDB
- ExecuteSparkInteractive
- ExtractCCDAAttributes
- ExtractEmailAttachments
- ExtractEmailHeaders
- ExtractMediaMetadata
- ExtractTNEFAttachments
- ExecuteFlumeSink
- ExecuteFlumeSource
- FetchAzureBlobStorage
- FetchGCSObject
- FuzzyHashContent
- GetDynamoDB
- GetHDFSEvents
- GetMongo
- GetRethinkDB
- GetSNMP
- InvokeGRPC
- ISPEnrichIP
- InferAvroSchema
- ListenBeats
- ListenGRPC
- ListenLumberjack
- ListenSMTP
- ListAzureBlobStorage
- ListGCSBucket
- ListS3
- LogMessage
- ModifyBytes
- MoveHDFS
- PublishKafka_0_11
- PublishKafkaRecord_0_11
- PutKudu
- PutMongoRecord
- PutRethinkDB
- OrcFormatConversion
- PutAzureBlobStorage
- PutDynamoDB
- PutGCSObject
- PutIgniteCache
- PutKinesisFirehose
- PutKinesisStream
- PutLambda
- PutMongo
- PutSlack
- PutTCP

- PutUDP
- QueryDNS
- RunMongoAggregation
- SetSNMP
- SpringContextProcessor
- StoreInKiteDataset

Note:

HDF 3.1.x does not support Hive 2. As a result, NiFi Processors working with Hive (PutHiveQL, PutHiveStreaming, SelectHiveQL) and the NiFi Controller Service HiveConnectionPool may not support Hive 2.

Community Driven NiFi Controller Services

- AWSCredentialsProviderControllerService
- ConfluentSchemaRegistry
- GCPCredentialsControllerService
- GraphiteMetricReporterService
- IPLookupService
- JettyWebSocketClient
- JettyWebSocketServer
- LivySessionController
- MongoDBControllerService
- MongoDBLookupService
- PropertiesFileLookupService
- RedisConnectionPoolService
- RedisDistributedMapCacheClientService
- SimpleCsvFileLookupService
- SimpleKeyValueLookupService
- XMLFileLookupService

Community Driven NiFi Reporting Tasks

- DataDogReportingTask
- MetricsReportingTask
- SiteToSiteBulletinReportingTask
- SiteToSiteStatusReportingTask
- StandardGangliaReporter

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.

New Provenance Policy Requirements for NiFi

Scenario

Apache NiFi 1.7.0 introduces new policies for controlling access to provenance events from a component. When upgrading to Apache NiFi 1.7.0 these new policies will not exist. As a result, users who could previously access provenance events will no longer have access to these provenance events. To ensure continued user access to provenance events, a NiFi administrator must update NiFi policies after upgrade.

Previous behavior

Previously, NiFi leveraged the data policies for a component to control access to provenance events but these would also allow a user to download flowfile attributes and content through provenance events and in queues on outgoing connections. Often times granting this much access was too much for the operators of the NiFi instance. However, withholding this access made it difficult for operators to understand the dataflow and track what was happening.

New behavior

By introducing a new view provenance events policy for controlling access to the event itself these operators can better understand the dataflow and track what is happening while the administrators can still maintain tight control of the flowfile attributes and content. When upgrading to Apache NiFi 1.7.0 these new policies will not exist. As a result, users who could previously access provenance events through the data policies described above will no longer have access to these provenance events.

Expected user action

Before users can access provenance event information, a DataFlow administrator must:

1. Create new provenance policies.
2. Assign users to the new policies.

NiFi component properties have been renamed

Scenario

Some NiFi component properties have been renamed.

Component	Old property	New property
ReportLineageToAtlas	kafka-kerberos-service-name-kafka	kafka-kerberos-service-name
GetCouchbaseKey and PutCouchbaseKey	Couchbase Cluster Controller Service	cluster-controller-service
	Bucket Name	bucket-name
	Document Type	document-type
	Document Id	document-id
	Persist To	persist-to
	Replicate To	replicate-to

Expected user action

Old properties become unsupported user-defined properties and the components become invalid. To make the components valid again, migrate the values from the old properties to the new ones, and then remove the old properties.

Apache Patch Information

The following sections list patches in each HDF 3.2.0 component beyond what was fixed in the base version of the Apache component.

Kafka Patches

This release provides Kafka 1.1.0 with no additional Apache patches.

A new feature was added to capture producer and topic partition level metrics. This feature is available in HDF 3.2.0. It is not available in Apache Kafka 1.1.0.

Knox Patches

This release provides Knox 1.0.0 with no Apache patches.

NiFi Patches

This release provides NiFi 1.7.0 and the listed Apache patches.

- [\[NIFI-5278\]](#) - ExecuteSparkInteractive processor fails on code containing a quote
- [\[NIFI-5316\]](#) - Potential bug with Fetch Parquet
- [\[NIFI-5349\]](#) - DB Fetch processors do not support Expression Language for Initial Max Value
- [\[NIFI-5361\]](#) - Upon restart of NiFi, some processors show Active Threads but never actually run
- [\[NIFI-5362\]](#) - When user clicks "Terminate" on a processor, the processor does terminate but provides an error message
- [\[NIFI-5368\]](#) - Referenced Controller Services not being validated in Mock Framework
- [\[NIFI-5370\]](#) - Cluster request replication failing with wildcard certs
- [\[NIFI-5377\]](#) - StandardNiFiServiceFacade: Recursive method call allows for Stack Overflow when a circular reference exists
- [\[NIFI-5415\]](#) - Renamed ListenSyslogGroovyTest to ITListenSyslogGroovy
- [\[NIFI-5258\]](#) - Improve handling of response headers for consistent application
- [\[NIFI-5374\]](#) - Suppress stacktrace being returned to remote client when using NiFi REST API
- [\[NIFI-5399\]](#) - Improve documentation to indicate that wildcard certificates are not recommended for cluster communications

Ranger Patches

This release provides Ranger 1.1.0 and the listed Apache patches.

- [RANGER-1715](#): Enhance Ranger Hive Plugin to support authorization on Hive replication Tasks
- [RANGER-1715](#): Enhance Ranger Hive Plugin to support authorization on Hive replication Tasks - repladmin permission
- [RANGER-1841](#): Audit log record for 'use dbName' hive command contains large number of tags
- [RANGER-1828](#): Good coding practice-add additional headers in ranger
- [RANGER-1833](#): Update Ranger to use 0.8.1 Atlas version
- [RANGER-1825](#): BUG-89494 : Ranger Tagsync start is failing
- [RANGER-91119](#): Exclude jackson jaxrs library from ranger-admin packaging
- [RANGER-1886](#): TagSync updates for changes in Atlas API
- [RANGER-1886](#): TagSync updates for changes in Atlas API - Part 2
- [RANGER-1883](#): Part 2 - All tag sources and sinks should use the same kerberos identity and reuse it
- [RANGER-1897](#): TagSync should replace use of V1 Atlas APIs with V2 APIs for efficient tag-download from Atlas
- [RANGER-1895](#): Simplify Storm dependencies
- [RANGER-1797](#): Tomcat Security Vulnerability Alert. The version of the tomcat for ranger should upgrade to 7.0.82.
- [RANGER-1906](#): Simplify Atlas plugin dependency management
- [RANGER-1898](#): Simplify Knox plugin dependency management
- [RANGER-1893](#): Update HBase dependency to 1.2.6
- [RANGER-1922](#): Simplify HBase dependencies
- [RANGER-1926](#): Upgrade Storm dependency to 1.1.1
- [RANGER-1905](#): Fix assembly creation - it's a black magic. As ranger-plugins-audit doesn't exclude guava from hadoop common, an older guava is leaked into embeddedwebserver classpath, which somehow filtered out by the assembly plugin Fix the atlas plugin assembly, so the guava is actually coming from the 'atlas-plugin's

dependency, and not from the ranger-plugins-audit's dependency. And revert "RANGER-1858:ranger-admin start fail when policymgr_http_enabled equal to false."

- [RANGER-1984](#): Hbase audit log records may not show all tags associated with accessed column
- [RANGER-1999](#): Ranger policy engine updates to support list-of-values in access resource
- [RANGER-2000](#): Policy effective dates to support time-bound and temporary authorization
- [RANGER-1987](#): Upgrade to Storm 1.2.0 in Ranger
- [RANGER-2019](#): Handle upgrade scenario to rename the old ATLAS service def and use the new service def
- [RANGER-2019](#): Handle upgrade scenario to rename the old ATLAS service def and use the new service def
- [RANGER-2027](#): Evaluate grantor's group membership in the plugin for grant/revoke request
- [RANGER-2026](#): Update Hbase plugin to handle default namespace
- [RANGER-2018](#): Upgrade to Spring 4
- [RANGER-1994](#): Tomcat Security Vulnerability Alert. The version of the tomcat for ranger should upgrade to 7.0.85.
- [RANGER-2035](#): fix handling of null implClass in servicedefs (Oracle returns null for stored empty strings)
- [RANGER-2043](#): Ranger KMS KeyProvider and HSM KeyProvider should have more debug logs
- [RANGER-2115](#): Atlas service def creation failing in Ranger manual installation

Storm Patches

This release provides Storm 1.2.1 and the listed Apache patches.

- [STORM-1839](#): Kinesis Spout
- [STORM-1694](#): Kafka Spout Trident Implementation Using New Kafka Consumer API
- [STORM-1960](#): Add CORS support to STORM UI Rest api
- [STORM-1959](#): Add missing license header to KafkaPartitionOffsetLag
- [STORM-1950](#): Change response json of "Topology Lag" REST API to keyed by spoutId, topic, partition.
- [STORM-1833](#): Simple equi-join in storm-sql standalone mode
- [STORM-1866](#): Update Resource Aware Scheduler Documentation
- [STORM-1930](#): Kafka New Client API - Support for Topic Wildcards
- [STORM-1924](#): Adding conf options for Persistent Word Count Topology
- [STORM-1956](#): Disabling Backpressure by default
- [STORM-1934](#): Fix race condition between sync-supervisor and sync-processes
- [STORM-1919](#): Introduce FilterBolt on storm-redis
- [STORM-1742](#): More accurate 'complete latency'
- [STORM-1945](#): Fix NPE bugs on topology spout lag for storm-kafka-monitor
- [STORM-1888](#): add description for shell command
- [STORM-1902](#): add a simple & flexible FileNameFormat for storm-hdfs
- [STORM-1914](#): Storm Kafka Field Topic Selector
- [STORM-1907](#): PartitionedTridentSpoutExecutor has incompatible types that cause ClassCastException
- [STORM-1925](#): Remove Nimbus thrift call from Nimbus itself
- [STORM-1909](#): Update HDFS spout documentation
- [STORM-1136](#): Command line module to return kafka spout offsets lag and display in storm ui
- [STORM-1911](#): IClusterMetricsConsumer should use seconds to timestamp unit
- [STORM-1849](#): HDFSFileTopology should use the 3rd argument as topologyName
- [STORM-1906](#): Window count/length of zero should be disallowed
- [STORM-1893](#): Support OpenTSDB for storing timeseries data.
- [STORM-1723](#): Introduce ClusterMetricsConsumer
- [STORM-1700](#): Introduce 'whitelist' / 'blacklist' option to MetricsConsumer
- [STORM-1698](#): Asynchronous MetricsConsumerBolt
- [STORM-1705](#): Cap number of retries for a failed message
- [STORM-1884](#): Prioritize pendingPrepare over pendingCommit
- [STORM-1575](#): fix TwitterSampleSpout NPE on close

- [STORM-1874](#): Update logger private permissions
- [STORM-1865](#): update command line client document
- [STORM-1771](#): HiveState should flushAndClose before closing old or idle Hive connections
- [STORM-1882](#): Expose TextFileReader public
- [STORM-1873](#): Implement alternative behaviour for late tuples
- [STORM-1719](#): Introduce REST API: Topology metric stats for stream
- [STORM-1887](#): Fixed help message for set_log_level command
- [STORM-1878](#): Flux can now handle IStatefulBolts
- [STORM-1864](#): StormSubmitter should throw respective exceptions and log respective errors for registered submitter hook invocation
- [STORM-1868](#): Modify TridentKafkaWordCount to run in distributed mode
- [STORM-1859](#): Ack late tuples in windowed mode
- [STORM-1851](#): Fix default nimbus impersonation authorizer config
- [STORM-1848](#): Make KafkaMessageId and Partition serializable to support
- [STORM-1862](#): Flux ShellSpout and ShellBolt can't emit to named streams
- [STORM-1728](#): TransactionalTridentKafkaSpout error
- [STORM-1850](#): State Checkpointing Documentation update
- [STORM-1674](#): Idle KafkaSpout consumes more bandwidth than needed
- [STORM-1842](#): Forward references in storm.thrift cause tooling issues
- [STORM-1730](#): LocalCluster#shutdown() does not terminate all storm threads/thread pools.
- [STORM-1841](#): Address a few minor issues in windowing and doc
- [STORM-1709](#): Added group by support in storm sql standalone mode
- [STORM-1720](#): Support GEO in storm-redis

ZooKeeper Patches

This release provides ZooKeeper 3.4.6 and the listed Apache patches.

- [ZOOKEEPER-2141](#): ACL cache in DataTree never removes entries
- [ZOOKEEPER-1897](#): ZK Shell/Cli not processing commands
- [ZOOKEEPER-1926](#): Unit tests should only use build/test/data for data
- [ZOOKEEPER-2064](#): Prevent resource leak in various classes
- [ZOOKEEPER-2053](#): Make scripts use ZOOKEEPER_HOME if set.
- [ZOOKEEPER-1876](#): Add support for installing windows services in .cmd scripts
- [ZOOKEEPER-1848](#): [WINDOWS] Java NIO socket channels does not work with Windows ipv6 on JDK6
- [ZOOKEEPER-1574](#): Set svn:eol-style property to native.
- [ZOOKEEPER-1575](#): adding .gitattributes to prevent CRLF and LF mismatches for source and text files
- [ZOOKEEPER-1888](#): ZkCli.cmd commands fail with "'java' is not recognized as an internal or external command"
- [ZOOKEEPER-1791](#): ZooKeeper package includes unnecessary jars that are part of the package.
- [ZOOKEEPER-1506](#): Re-try DNS hostname -> IP resolution if node connection fails
- [ZOOKEEPER-1952](#): Default log directory and file name can be changed
- [ZOOKEEPER-706](#): large numbers of watches can cause session re-establishment to fail
- [ZOOKEEPER-1576](#): Zookeeper cluster - failed to connect to cluster if one of the provided IPs causes java.net.UnknownHostException

HDF Repository Locations

Use the following tables to identify the HDF 3.2.0 repository location for your operating system and operational objectives.

HDF 3.2.0 supports the following operating systems:

Table 2: Amazon Linux 2 repositories & additional download locations

OS	Format	Download location	
Amazon Linux 2	HDF Build number	3.2.0.0-520	
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.2.0.0	
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.2.0.0/hdf.repo	
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.2.0.0/HDF-3.2.0.0-amazonlinux2-rpm.tar.gz	
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.2.0.0/HDF-3.2.0.0-amazonlinux2-tars-tarball.tar.gz	
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.2.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.2.0.0-520.tar.gz	
	HDP and Ambari Repositories		
	Ambari	http://public-repo-1.hortonworks.com/ambari/amazonlinux2/2.x/updates/2.7.0.0/ambari.repo	
	HDP	http://public-repo-1.hortonworks.com/HDP/amazonlinux2/3.x/updates/3.0.0.0/hdp.repo	
	HDP-UTILS	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/amazonlinux2	
	OS Agnostic Downloads		
	NiFi only	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.tar.gz 	
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.tar.gz 	
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.2.0.0	
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.tar.gz Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.zip 	
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.tar.gz 	
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-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	3.2.0.0-520
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.2.0.0
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.2.0.0/hdf.repo

OS	Format	Download location
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.2.0.0/HDF-3.2.0.0-centos7-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.2.0.0/HDF-3.2.0.0-centos7-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.2.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.2.0.0-520.tar.gz
	MiNiFi C++ Agent	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.2.0.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.5.0-bin.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/centos7/2.x/updates/2.7.0.0/ambari.repo
	HDP	http://public-repo-1.hortonworks.com/HDP/centos7/3.x/updates/3.0.0.0/hdp.repo
	HDP-UTILS	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/centos7
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.2.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.tar.gz Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.zip
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-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 4: SLES 12 HDF repository & additional download locations

OS	Format	Download location
SUSE Linux Enterprise Server (SLES) v12 SP1	HDF Build Number	3.2.0.0-520
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.2.0.0
	Repo	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.2.0.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.2.0.0/HDF-3.2.0.0-sles12-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.2.0.0/HDF-3.2.0.0-sles12-tars-tarball.tar.gz

OS	Format	Download location
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.2.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.2.0.0-520.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/sles12/2.x/updates/2.7.0.0/ambari.repo
	HDP	http://public-repo-1.hortonworks.com/HDP/sles12/3.x/updates/3.0.0.0/hdp.repo
	HDP-UTILS	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/sles12
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.2.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.tar.gz Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.zip
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-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 14 HDF repository & additional download locations

OS	Format	Download location
Ubuntu Trusty (14.04) (64-bit)	HDF Build Number	3.2.0.0-520
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.2.0.0
	Repo	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.2.0.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.2.0.0/HDF-3.2.0.0-ubuntu14-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.2.0.0/HDF-3.2.0.0-ubuntu14-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.2.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.2.0.0-520.tar.gz
	HDP and Ambari Repositories	
	Ambari	Not available
	HDP	http://public-repo-1.hortonworks.com/HDP/ubuntu14/3.x/updates/3.0.0.0/hdp.list

OS	Format	Download location
	HDP-UTILS	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/ubuntu14
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.2.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.tar.gz Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.zip
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-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 16 HDF repository & additional download locations

OS	Format	Download location
Ubuntu Trusty 16 (64-bit)	HDF Build Number	3.2.0.0-520
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.2.0.0
	Repo	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.2.0.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.2.0.0/HDF-3.2.0.0-ubuntu16-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.2.0.0/HDF-3.2.0.0-ubuntu16-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.2.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.2.0.0-520.tar.gz
	MiNiFi C++ Agent	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.2.0.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.5.0-bin.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/ubuntu16/2.x/updates/2.7.0.0/ambari.list
	HDP	http://public-repo-1.hortonworks.com/HDP/ubuntu16/3.x/updates/3.0.0.0/hdp.list
	HDP-UTILS	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/ubuntu16
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.tar.gz

OS	Format	Download location
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.2.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.tar.gz Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.zip
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-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	3.2.0.0-520
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.2.0.0
	Repo	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.2.0.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.2.0.0/HDF-3.2.0.0-debian9-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.2.0.0/HDF-3.2.0.0-debian9-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.2.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.2.0.0-520.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/debian9/2.x/updates/2.7.0.0/ambari.list
	HDP	http://public-repo-1.hortonworks.com/HDP/debian9/3.x/updates/3.0.0.0/hdp.list
	HDP-UTILS Base URL	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/debian9
	OS Agnostic Downloads	
	NiFi only	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-1.7.0.3.2.0.0-520-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-toolkit-1.7.0.3.2.0.0-520-bin.tar.gz

OS	Format	Download location
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.2.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.tar.gz Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/nifi-registry-0.2.0.3.2.0.0-520-bin.zip
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-0.5.0.3.2.0.0-520-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.2.0.0/minifi-toolkit-0.5.0.3.2.0.0-520-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	http://public-repo-1.hortonworks.com/HDF/windows/3.x/updates/3.2.0.0/nifi-3.2.0.0-520.msi
MiNiFi MSI	http://public-repo-1.hortonworks.com/HDF/windows/3.x/updates/3.2.0.0/minifi-3.2.0.0-520.msi

HDF Repository Location for IBM Power Systems

Table 9: RHEL 7 HDF repository & additional download locations

OS	Format	Download location
RHEL 7 (64-bit):	HDF Build Number	3.2.0.0-520
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.2.0.0
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.2.0.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.2.0.0/HDF-3.2.0.0-centos7-ppc-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.2.0.0/HDF-3.2.0.0-centos7-ppc-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.2.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.2.0.0-520.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/centos7-ppc/2.x/updates/2.7.0.0/ambari.repo
	HDP	http://public-repo-1.hortonworks.com/HDP/centos7-ppc/3.x/updates/3.0.0.0/hdp.repo
	HDP-UTILS	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/centos7-ppc/hdp-utils.repo

Common Vulnerabilities and Exposures

The following CVEs have been fixed in HDF 3.2.0.

CVE-2018-1324

Summary: Apache NiFi Denial of service issue because of commons-compress vulnerability

Severity: Low

Versions Affected: Apache NiFi 0.1.0 – 1.5.0

Description: A vulnerability in the commons-compress library could cause denial of service. See [commons-compress CVE-2018-1324 announcement](#) for more information.

Mitigation: The fix to upgrade the commons-compress library to 1.16.1 was applied to the HDF 3.2.0 release. To address this issue, upgrade to HDF 3.2.0.

CVE-2018-1309

Summary: Apache NiFi XML External Entity issue in SplitXML processor

Severity: Moderate

Versions Affected: Apache NiFi 0.1.0 – 1.5.0

Description: Malicious XML content could cause information disclosure or remote code execution.

Mitigation: The fix to disable external general entity parsing and disallow doctype declarations was applied to the HDF 3.2.0 release. To address this issue, upgrade to HDF 3.2.0.

CVE-2018-1310

Summary: Apache NiFi JMS Deserialization issue because of ActiveMQ client vulnerability

Severity: Moderate

Versions Affected: Apache NiFi 0.1.0 – 1.5.0

Description: Malicious JMS content could cause denial of service.

Mitigation: The fix to upgrade the activemq-client library to 5.15.3 was applied to the HDF 3.2.0 release. To address this issue, upgrade to HDF 3.2.0.

CVE-2017-8028

Summary: Apache NiFi LDAP TLS issue because of Spring Security LDAP vulnerability

Severity: Severe

Versions Affected: Apache NiFi 0.1.0 – 15.0

Description: Spring Security LDAP library was not enforcing credential authentication after TLS handshake negotiation. See [NVD CVE-2017-8028 disclosure](#) for more information.

Mitigation: The fix to upgrade the spring-ldap library to 2.3.2.RELEASE+ was applied to the HDF 3.2.0 release. To address this issue, upgrade to HDF 3.2.0.

Third-Party Licenses

HDF 3.2.0 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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