

Release Notes 3

Release Notes

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Hortonworks DataFlow 3.3.0 Release Notes

This document provides you with the latest information about the HDF 3.3.0 release and its product documentation.

Component Support

HDF 3.3.0 includes the following components:

- Apache Ambari 2.7.1
- Apache Kafka 2.0.0
- Apache NiFi 1.8.0
- NiFi Registry 0.2.0
- 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 0.5.4
- 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 3.3.0	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
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

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

What's New in HDF 3.3.0

HDF 3.3.0 is a minor release that includes the following new features and bug fixes.

Apache Kafka Updates

Kafka has been upgraded from 1.1.1 to 2.0.0.

Kafka Streams now supported

Kafka Streams is now officially supported. Kafka Streams is fully integrated with platform services like Ranger and Schema Registry and supports secure and unsecure clusters.

New features and improvements in Apache Kafka include:

- [KAFKA-6576](#) Configurable Quota Management (KIP-257).
- [KAFKA-6841](#) Add support for Prefixed ACLs.
- [KAFKA-6886](#) Externalize Secrets for Kafka Connect Configurations.
- [KAFKA-6935](#) KIP-295 Add Streams Config for Optional Optimization.

For a full list of bug fixes, see the following: https://dist.apache.org/repos/dist/release/kafka/2.0.0/RELEASE_NOTES.html

Apache Knox Updates

New features and improvements in Apache Knox include:

- Knox SSO support for Schema Registry.
- Knox Gateway support for SMM Rest Server.

- Knox SSO support for SAM.

Schema Registry Updates

New features and bug fixes in Schema Registry include:

- ISSUE-477 De-serialize API without a reader schema.
- ISSUE-481 Fixed SQL injection for search queries.
- ISSUE-485 Fix adding large schema text for oracle.
- ISSUE-486 Fix deadlocks in storage layer during concurrent calls to SR.
- ISSUE-402 Registry 'Jar Storage HDFS URL' does not work for Namenode HA.
- ISSUE-87 Add support for Kafka Header Registry.
- ISSUE-489 Add docs on supporting Kafka Message Header to save schemaVersionId.
- ISSUE-492 Updated spring-context to 5.0.7.RELEASE to resolve security vulnerabilities.
- MINOR Fixed javadoc errors.

Apache Ranger Updates

Ranger has been upgraded from 1.1.0 to 1.2.0.

New features and bug fixes in Ranger include:

New Features:

- [RMP-12275](#) Address Kafka Ranger Plugin compatibility with Kafka 2.0.
- [RMP-11946](#) Add prefixed wildcard support for ACLs with Kafka resources.
- [RMP-11944](#) Add support for Create operation with Topic resource in Kafka.
- [RMP-11943](#) Add support for cluster resource type for Kafka.
- [RMP-11854](#) Add support for `DelegationToken` resource type with `Describe` operation for Kafka.

Platform Integration Updates

- Express and Rolling Upgrade Definition for HDF 3.3
- HDF 3.3. includes SMARTSENSE service
- Add Schema Registry to HDF Messaging Deployment on Cloudbreak

Apache NiFi Updates

NiFi has been upgraded from 1.7.0 to 1.8.0.

New features and improvements in Apache NiFi include:

- Secure cluster communication between nodes now requires two-way SSL.
- Connections support load balancing across the cluster.
- Nodes can be offloaded to prepare for decommissioning.
- It is easier to create a cluster on Docker with docker-compose and environment variables.
- New or improved processors and controller services:
 - LookupService that uses Elasticsearch.
 - NetFlow processors.
 - JoltTransformRecord processor.
 - Processors for interacting with Apache Kafka 2.0.
 - SQL results can now be output as records in any supported format.
 - ListenHTTP Processor supports multipart requests.
- Configure load balancing and load balancing compression from the Connection Properties dialog.
- Connections indicate load balancing status.
- Cluster Summary dialog allows offloading disconnected nodes.

- New documentation for load balancing and node offloading.
- NiFi port list.

For a full list of bug fixes, see the following: <https://issues.apache.org/jira/secure/ReleaseNote.jspa?projectId=12316020&version=12343482>

Apache NiFi Registry Updates

NiFi Registry has been upgraded from 0.2.0 to 0.3.0.

New Features:

- [NIFIREG-180](#) Expose DB configuration properties through docker image.
- [NIFIREG-181](#) Make flow provider configurable in docker.
- [NIFIREG-190](#) Support for Event Whitelisting in the Registry Event Hooks.
- [NIFIREG-192](#) Create/Add REGISTRY_START event that fires when the NiFi Registry initially starts.
- [NIFIREG-194](#) Update VersionedConnection to allow load balancing configuration.

Key Bugs Fixed:

- [NIFIREG-193](#) Upgrade superagent.
- [NIFIREG-196](#) Upgrade lodash, parsejson, https-proxy-agent.
- [NIFIREG-198](#) VersionedRemoteProcessGroup targetUri and targetUris return incorrect derived value.

For a full list of bug fixes, see the following: <https://issues.apache.org/jira/secure/ReleaseNote.jspa?version=12343483&styleName=Html&projectId=12320920>

Apache MiNiFi Java Updates

MiNiFi Java has been upgraded from 0.5.0 to 0.6.0.

New Features:

- [MINIFI-470](#) Update NiFi dependency to 1.7.1.
- [MINIFI-468](#) Update Docker resources to reflect current versioning.

Key Bugs Fixed:

- [MINIFI-477](#) Upgrade dependencies to NiFi 1.8.0.
- [MINIFI-473](#) Make formatting in Sys Admin Guide and Java Quick Start Guide consistent with NiFi documentation.
- [MINIFI-472](#) Update dependencies as reported by dependencies versions plugin.
- [MINIFI-471](#) Upgrade Jetty version.
- [MINIFI-469](#) Support osx in travis build.
- [MINIFI-461](#) Display application startup time in human-readable seconds.

Apache MiNiFi C++ Updates

MiNiFi C++ has been upgraded from 0.5.0 to 0.6.0.

New Features:

- [MINIFICPP-644](#) C API: add support to register terminate handler.
- [MINIFICPP-641](#) C API: add support to register failure callback.
- [MINIFICPP-623](#) Add thread backtrace to describe command.
- [MINIFICPP-618](#) Add C2 triggers for local updates.
- [MINIFICPP-617](#) Introduce previously created python example.
- [MINIFICPP-595](#) Provide support for running on Windows.

Key Bugs Fixed:

- [MINIFICPP-667](#) Create Structural definitions for moving away from C++ classes.

- [MINIFICPP-664](#) Agent classes are required to be defined.
- [MINIFICPP-663](#) Brew upgrade to bison (3.0.x -> 3.2 fails EL Build).
- [MINIFICPP-659](#) Move CAPI code out of libminifi.
- [MINIFICPP-654](#) C API: failure callback improvements.
- [MINIFICPP-653](#) Log message will segfault client if no content produced.
- [MINIFICPP-652](#) Add monitored threads to stacks protocol.
- [MINIFICPP-650](#) Fix MiNiFi typos.
- [MINIFICPP-649](#) Fix some compiler warnings.
- [MINIFICPP-648](#) Add processor and add processor with linkage nomenclature is confusing.
- [MINIFICPP-647](#) Deprecate functions in API that pass char* in favor of those more strongly typed.
- [MINIFICPP-646](#) Re-evaluate passing attributes. Potentially deprecate attribute usage functions.
- [MINIFICPP-645](#) Move from new to malloc in CAPI to facilitate eventual change from C++ to C.
- [MINIFICPP-643](#) Disable windows builds.
- [MINIFICPP-642](#) Shared lib building causes issues in Docker image.
- [MINIFICPP-640](#) C API: how to support dynamic properties?
- [MINIFICPP-638](#) C API: add unit tests.
- [MINIFICPP-637](#) Extend C API to support adding processors with configuration to existing flows.
- [MINIFICPP-636](#) C API: allow creation of empty flow, remove some code duplication.
- [MINIFICPP-635](#) Typo in readme.
- [MINIFICPP-634](#) Clarify RPG requirements and error message when HTTP_CURL doesn't exist.
- [MINIFICPP-631](#) Improve attribute handling of C API.
- [MINIFICPP-630](#) Make ExecutionPlan::runNextProcessor safer.
- [MINIFICPP-628](#) Fix issues on appveyor.
- [MINIFICPP-627](#) Remove unnecessary ternary operators, variable shadowing.
- [MINIFICPP-626](#) Log proper error message in case S2S handshake fails.
- [MINIFICPP-625](#) Fix typos in MiNiFiMain comments.
- [MINIFICPP-624](#) Internal C2 configuration options are not consistent in naming.
- [MINIFICPP-616](#) Update appveyor.yml to remove restricted building on a branch.
- [MINIFICPP-615](#) Provide Windows OpenSSL Support.
- [MINIFICPP-614](#) Reduce overhead of AgentInformation::serialize.
- [MINIFICPP-613](#) Remove rooturi local option.
- [MINIFICPP-610](#) Generate type descriptions.
- [MINIFICPP-607](#) Remove host and peer verification bypass configuration option.
- [MINIFICPP-606](#) AWS linux bootstrap fails.
- [MINIFICPP-604](#) Convert C++ namespace operator to Java packing to keep responses aligned.
- [MINIFICPP-603](#) Fill gaps in C2 responses for Windows.
- [MINIFICPP-602](#) Support a CSV within RPG URL.
- [MINIFICPP-601](#) Add scheduling information to manifest.
- [MINIFICPP-600](#) Add default value to manifest.
- [MINIFICPP-598](#) Add supported relationships to agent manifest.
- [MINIFICPP-596](#) Build core minifi and libminifi artifacts.
- [MINIFICPP-594](#) CapturePCAP predates PROCESSORS.md and thus was never added.
- [MINIFICPP-592](#) Restful lookups in RPG should be bypassed when cURL is disabled.

Unsupported Features

Some features exist within HDF 3.3.0, but Hortonworks does not currently support these capabilities.

Technical Preview Features

The following features are available within HDF 3.3.0 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

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
- DeleteGCXObject
- DeleteHDFS
- DeleteMongo
- DeleteRethinkDB
- ExecuteSparkInteractive
- ExtractCCDAAttributes
- ExtractEmailAttachments
- ExtractEmailHeaders
- ExtractMediaMetadata
- ExtractTNEFAttachments
- ExecuteFlumeSink
- ExecuteFlumeSource
- FetchAzureBlobStorage
- FetchGCXObject

- FuzzyHashContent
- GetDynamoDB
- GetHDFSEvents
- GetMongo
- GetRethinkDB
- GetSNMP
- InvokeGRPC
- ISPEnrichIP
- InferAvroSchema
- ListenBeats
- ListenGRPC
- ListenLumberjack
- ListenSMTP
- ListAzureBlobStorage
- ListGCSBucket
- ListS3
- LogMessage
- ModifyBytes
- MoveHDFS
- ParseNetflowv5
- ParseSyslog5424
- PublishKafka_0_11
- PublishKafkaRecord_0_11
- PutCassandraRecord
- 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
- GPCredentialsControllerService
- GraphiteMetricReporterService
- IPLookupService
- JettyWebSocketClient
- JettyWebSocketServer
- LivySessionController
- MongoDBControllerService
- MongoDBLookupService
- PropertiesFileLookupService
- RedisConnectionPoolService
- RedisDistributedMapCacheClientService
- SimpleCsvFileLookupService
- SimpleKeyValueLookupService
- XMLFileLookupService

Community Driven NiFi Reporting Tasks

- DataDogReportingTask
- MetricsReportingTask
- SiteToSiteBulletinReportingTask
- SiteToSiteStatusReportingTask
- StandardGangliaReporter

Unsupported HDP Components

NiFi processors available in HDF 3.3.0 have been tested against the following HDP components:

- Hive 1.2.1000.2.6.5.0-292
- Hive3 3.1.0.3.0.0.0-1634
- Hadoop: 2.7.3
- HBase: 1.1.2

Using NiFi processors to interact with other configurations of Hive, Hadoop, and HBase is not covered by Hortonworks 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.

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 3.3.0 component beyond what was fixed in the base version of the Apache component.

Kafka Patches

This release provides Kafka 2.0.0 with no additional Apache patches

Knox Patches

This release provides Knox 1.0.0 with no Apache patches.

NiFi Patches

This release provides NiFi 1.8.0 with no additional patches

Ranger Patches

This release provides Ranger 1.2.0 and the listed Apache patches.

- [RANGER-2278](#): Unable to delete user if he has references in new ref tables
- [RANGER-2248](#): Sorting does not work in AbstractPredicateUtil.java
- [RANGER-2257](#): Add policyID to error message when click the Access log of Audit
- [RANGER-2258](#): Improve the policy list page to prompt users when the service is disabled
- [RANGER-2264](#): Kafka default policies for new resources are not showing up in UI when upgrade is done from older version
- [RANGER-2251](#): Need to provide options for making java heap size memory configurable in Ranger services
- [RANGER-2259](#): Need to provide appropriate permissions for unix-auth files.
- [RANGER-2252](#): Permission Kafka Admin should not be part of Topic resource in Ranger Kafka resource definition
- [RANGER-2209](#): Added Ranger service definition for ABFS
- [RANGER-2220](#): minify JavaScript files during packaging
- [RANGER-2238](#): String comparison should not use '==' in ServiceUtil.java
- [RANGER-2249](#): Ranger Audit not flushed immediately to hdfs
- [RANGER-2235](#): Modify the login session detail page as a modal
- [RANGER-2241](#): Removed mds and sha1 generation
- [RANGER-2222](#): Apache RangerKafkaPlugin support to handle Kafka Cluster as a new resource
- [RANGER-2210](#): Ranger support for Apache Kafka 2.0.0

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 3.3.0 repository location for your operating system and operational objectives.

Table 2: Amazon Linux 2 repositories & additional download locations

OS	Format	Download location
Amazon Linux 2	HDF Build number	3.3.0.0-165
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.3.0.0
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.3.0.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.3.0.0/HDF-3.3.0.0-amazonlinux2-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.3.0.0/HDF-3.3.0.0-amazonlinux2-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/amazonlinux2/3.x/updates/3.3.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.3.0.0-165.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/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> • Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.3.0.0
	NiFi Registry	<ul style="list-style-type: none"> • Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> • Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> • Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-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	3.3.0.0-165	
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.3.0.0	
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.3.0.0/hdf.repo	
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.3.0.0/HDF-3.3.0.0-centos7-rpm.tar.gz	
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.3.0.0/HDF-3.3.0.0-centos7-tars-tarball.tar.gz	
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.3.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.3.0.0-165.tar.gz	
	MiNiFi C++ Agent	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.3.0.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.6.0-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/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.tar.gz 	
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.tar.gz 	
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.3.0.0	
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.tar.gz 	
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.tar.gz 	
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-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	3.3.0.0-165
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.3.0.0

OS	Format	Download location
	Repo	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.3.0.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.3.0.0/HDF-3.3.0.0-sles12-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.3.0.0/HDF-3.3.0.0-sles12-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.3.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.3.0.0-165.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/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.3.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-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	3.3.0.0-165
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.3.0.0
	Repo	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.3.0.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.3.0.0/HDF-3.3.0.0-ubuntu14-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.3.0.0/HDF-3.3.0.0-ubuntu14-tars-tarball.tar.gz

OS	Format	Download location
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.3.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.3.0.0-165.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
	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/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.3.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-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	3.3.0.0-165
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.3.0.0
	Repo	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.3.0.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.3.0.0/HDF-3.3.0.0-ubuntu16-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.3.0.0/HDF-3.3.0.0-ubuntu16-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.3.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.3.0.0-165.tar.gz
	MiNiFi C++ Agent	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.3.0.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.6.0-bin.tar.gz
	HDP and Ambari Repositories	

OS	Format	Download location
	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/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.3.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-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	3.3.0.0-165
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.3.0.0
	Repo	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.3.0.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.3.0.0/HDF-3.3.0.0-debian9-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.3.0.0/HDF-3.3.0.0-debian9-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/debian9/3.x/updates/3.3.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.3.0.0-165.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	

OS	Format	Download location
	NiFi only	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-1.8.0.3.3.0.0-165-bin.tar.gz
	NiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-toolkit-1.8.0.3.3.0.0-165-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.3.0.0
	NiFi Registry	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/nifi-registry-0.3.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Java Agent	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-0.6.0.3.3.0.0-165-bin.tar.gz
	MiNiFi Toolkit	<ul style="list-style-type: none"> Zip File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-bin.zip Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.3.0.0/minifi-toolkit-0.6.0.3.3.0.0-165-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/3.3.0.0/nifi-3.3.0.0-165.msi
MiNiFi MSI	http://public-repo-1.hortonworks.com/HDF/windows/3.x/updates/3.3.0.0/minifi-3.3.0.0-165.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	3.3.0.0-165
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.3.0.0
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.3.0.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.3.0.0/HDF-3.3.0.0-centos7-ppc-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.3.0.0/HDF-3.3.0.0-centos7-ppc-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.3.0.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.3.0.0-165.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

OS	Format	Download location
	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 3.3.0:

CVE-2014-0193

Component: Apache NiFi

Description: A vulnerability in the netty library could cause denial of service. See [NIST NVD CVE-2014-0193](#) or [netty release announcement](#) for more information.

Severity: Low

Versions Affected: Apache NiFi 1.0.0 - 1.7.1

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2014-0193>

CVE-2018-17192

Component: Apache NiFi

Description: The X-Frame-Options headers were applied inconsistently on some HTTP responses, resulting in duplicate or missing security headers. Some browsers would interpret these results incorrectly, allowing clickjacking attacks.

Severity: Low

Versions Affected: Apache NiFi 1.0.0 - 1.6.0

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2018-17192>

CVE-2018-17193

Component: Apache NiFi

Description: The message-page.jsp error page used the value of the HTTP request header X-ProxyContextPath without sanitization, resulting in a reflected XSS attack.

Severity: Moderate

Versions Affected: Apache NiFi 1.0.0 - 1.7.1

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2018-17193>

CVE-2018-17194

Component: Apache NiFi

Description: When a client request to a cluster node was replicated to other nodes in the cluster for verification, the Content-Length was forwarded. On a DELETE request, the body was ignored, but if the initial request had a Content-Length value other than 0, the receiving nodes would wait for the body and eventually timeout.

Severity: Moderate

Versions Affected: Apache NiFi 1.0.0 - 1.7.1

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2018-17194>

CVE-2018-17195

Component: Apache NiFi

Description: The template upload API endpoint accepted requests from different domain when sent in conjunction with ARP spoofing + meddler in the middle (MITM) attack, resulting in a CSRF attack. The required attack vector is complex, requiring a scenario with client certificate authentication, same subnet access, and injecting malicious code into an unprotected (plaintext HTTP) website which the targeted user later visits, but the possible damage warranted a Severe severity level.

Severity: Severe

Versions Affected: Apache NiFi 1.0.0 - 1.7.1

Apache CVE Report Link: <https://nifi.apache.org/security.html#CVE-2018-17195>**Fixed Issues**

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.

Table 10:

Hortonworks Bug ID	Apache JIRA	Summary
BUG-113596	NIFI-5771	If 0-byte FlowFiles are load balanced, it can result in content claim not being cleaned up.
BUG-113525	NIFI-5741	JndiJmsConnectionFactory does not properly wrap returned ConnectionFactory with ClassLoader-specific proxy.
BUG-113524	NIFI-5746	The SEND and RECEIVE provenance events for load balancing do not have the same transit uri syntax.
BUG-113216	NIFI-5745	Load Balanced Connections can stop balancing across the cluster if all nodes report backpressure and all data are destined for another node.
BUG-113115	NIFI-5143 , NIFI-5727	Optimize GenerateTableFetch to remove unnecessary COUNT(*).
BUG-112988	N/A	Unable to update Kafka policy repo in Ranger UI.
BUG-112949	N/A	Auto Setup SSO in SR.
BUG-112896	NIFI-5721	ConsumeMQTT processor can exhaust system threads.
BUG-112895	NIFI-5714	Hive[3]ConnectionPool - Kerberos Authentication issue/misleading.
BUG-112755	N/A	Backport 032f531914 commit to fix ducktape test failures.
BUG-112444	N/A	Revisit HDF and SMM kerberos.json definitions.
BUG-112406	N/A	Support HDF-3.1 upgrade to HDF-3.3.
BUG-112333	N/A	Introduce SSO for Schema Registry.
BUG-111825	N/A	Storm should handle a customized Zookeeper service principal name.
BUG-110979	NIFI-5592	Kafka records fails parsing (1 in 4 records).

Hortonworks Bug ID	Apache JIRA	Summary
BUG-110942	N/A	HDF - Knox policymgr_mgr_url not populated when Ranger-Knox plugin is enabled.
BUG-110661	NIFI-3425	Cache prepared statements in PutCassandraQL.
BUG-110648	N/A	Unify nifi-toolkit and configuration utilities in HDF mpack.
BUG-110396	N/A	Knox Ranger Plugin Issue - Repository creation failed - since HDF 3.2 does not have Knox in ranger.supportedcomponents.
BUG-110293	NIFI-5282	GCS processors do not work with proxy.
BUG-110268	N/A	Kafka should handle a customized Zookeeper service principal name.
BUG-110266	N/A	NiFi/NiFi Toolkit should handle a customized Zookeeper service principal name.
BUG-109995	N/A	Logging from NiFi CLI Execution in Ambari should hide sensitive passwords.
BUG-109795	N/A	Kerberos json api changes should be applied to HDF components.
BUG-109540	N/A	SMM tries to connect to ambari metrics on HTTPS even if started on HTTP.
BUG-109146	N/A	Ranger compilation failure on HDF-3.3.0.0 and HDF-3.2-maint.
BUG-108841	N/A	Kafka 2.x uptake into HDF-3.3.
BUG-108717	N/A	Upgrade Jackson-databind library.
BUG-108549	NIFI-5479	Upgrade Jetty.
BUG-108524	NIFI-5595	NiFi is prone to CSRF Attack.
BUG-108503	N/A	UI - Apply HDF Branding.
BUG-107138	N/A	Improve handling of conf files in the HDF mpack.
BUG-106496	N/A	Auto Config of NiFi Registry with NiFi should catch and log exception as warning.
BUG-104177	N/A	Add Knox service definition for SMM.
BUG-99907	N/A	NiFi Toolkit Should Be Configured as Library Dependency for NiFi CA, NiFi, and NiFi Registry.

Known Issues

Summary of known issues for this release.

Hortonworks Bug ID	Apache JIRA	Apache Component	Summary
BUG-108848	N/A	Kafka	Kafka 1.1.1 producer cannot produce messages with snappy compression on IBM Power.
BUG-114024	N/A	Ambari, Ranger	The manual steps given for Ranger Admin upgrade needs to be corrected.

Third-Party Licenses

HDF 3.3.0 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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