Hortonworks DataFlow

Release Notes

docs.cloudera.com

Hortonworks DataFlow: Release Notes

Copyright © 2012-2018 Hortonworks, Inc. Some rights reserved.

Table of Contents

List of Tables

1. Hortonworks DataFlow 3.1.2 Release Notes

This document provides you with the latest information about the HDF 3.1.2 release and its product documentation.

1.1. Component Support

HDF 3.1.2 includes the following components:

- Apache Ambari 2.6.2

- Apache Kafka 1.0.0

- Apache NiFi 1.5.0

- NiFi Registry 0.1.0

- Apache Ranger 0.7.0

- Apache Storm 1.1.1

- Apache ZooKeeper 3.4.6

- Apache MiNiFi Java Agent 0.4.0

- Apache MiNiFi C++ 0.4.0

- Hortonworks Schema Registry 0.5.0

- Hortonworks Streaming Analytics Manager 0.6.0

1.1.1. 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 3.1.2	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	.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	.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
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

1.2. What's New in HDF 3.1.2

HDF 3.1.2 is a maintenance release that includes bug fixes. HDF 3.1.2 includes the following bug fixes:

Hortonworks Bug ID	Apache Bug ID	Description
BUG-103676	NIFI-5228	Allow user to choose whether or not to add File Attributes as FlowFile Attributes when using ListFile.
BUG-103666	NIFI-5109	AbstractList processor stops calling performListing after primary node reelection.
BUG-103284	NIFI-5204	When node joins cluster, if a processor is stopping but cluster says the state is disabled, node ends up in inconsistent state.
BUG-102998	NIFI-5194	ConsumeKafka processor can occasionally hang.
BUG-102932	NIFI-5099	Changing the destination of a relation is not identified as "Local change" by NiFi Registry.
BUG-102776	NIFI-4862	Copy original FlowFile attributes to output FlowFiles at SelectHiveQL processor.
BUG-102766	NIFI-5124	Upgrade commons-fileupload.
BUG-102765	NIFI-5108	Update to Commons Compress to 1.16.1.
BUG-102764	NIFI-4870	Upgrade ActiveMQ dependencies.
BUG-102761	NIFI-4945	In NiFi 1.5, START_TLS in combination with LDAP will allow any password during auth.
BUG-102753	NIFI-4788	Expose whitelisting configuration for docker instantiation.
BUG-102746	N/A	SAM and Schema Registry fail due to not found DBConnectionVerification.jar on Ambari 2.6.2.
BUG-102016	NIFI-5134	NiFi can encounter "no TGT" after Hive service outage.
BUG-101099	N/A	HDF 2.0..x/ 2.1.x -> HDF 3.1.x upgrade overrides manual changes to toolkit memory settings causing OutOfMemoryException.
BUG-100013	NIFI-5043	TailFile opens and never closes readers in Multiple Files mode.
BUG-100012	NIFI-5045	PutHiveQL routes parse errors to retry instead of failure.
BUG-99842	N/A	HDF 3.1 Kafka configuration parameter log.message.format.version is not set during upgrade as expected.
BUG-99695	NIFI-5012	Controller Services are not automatically enabled/disabled when joining cluster.
BUG-99694	MINIFI-435	MiNiFi - Cannot perform secured S2S with NiFi 1.5.0.
BUG-99629	NIFI-4395	GenerateTableFetch can't fetch column type by state after instance reboot.
BUG-99627	NIFI-5154	Out of Scope processors can block Controller Services.
BUG-99426	N/A	NiFi Certificate Authority fails to stop on restart.
BUG-99164	NIFI-4944	PutHiveStreaming multiple instances with Snappy fail intermittently.
BUG-98548	NIFI-4959	HandleHttpRequest processor doesn't close/release incomplete message error.
BUG-98442	NIFI-4969	Failed to import versioned flow when processor uses "Event Driven" scheduling.
BUG-98189	NIFI-4884	Failed to import flow from registry when processor has CRON schedule.
BUG-97870	NIFI-4920	Change Version and Revert Local Changes incorrectly reset sensitive properties.
BUG-97868	NIFI-4925	Ranger Authorizer - Memory Leak.
BUG-96648	NIFI-4773	QueryDatabaseTable does not update processor State with ID and its value consistently.
BUG-94944	NIFI-4836	Allow QueryDatabaseTables to send out batches of flow files while result set is being processed.
BUG-94556	NIFI-4772	If several processors do not return from their @OnScheduled method, NiFi will stop scheduling any Processors.

For more information about the HDF 3.1.x releases, see:

- HDF 3.1.0 Release Notes

- HDF 3.1.1 Release Notes

1.3. Unsupported Features

Some features exist within HDF 3.1.2, but Hortonworks does not currently support these capabilities.

- Technical Preview Features [4]

- Community Driven Features [4]

- Unsupported Customizations [8]

1.3.1. Technical Preview Features

The following features are available within HDF 3.1.2 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 1.1. Technical Previews

Component	Feature
MiNiFi	Android/iOS MiNiFi libraries for mobile integration

1.3.2. 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

- ExecuteFlumeSink

- ExecuteFlumeSource

- ExecuteSparkInteractive

- ExtractCCDAAttributes

- ExtractEmailAttachments

- ExtractEmailHeaders

- ExtractMediaMetadata

- ExtractTNEFAttachments

- FetchAzureBlobStorage

- FetchGCSObject

- FuzzyHashContent

- GetDynamoDB

- GetHDFSEvents

- 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

- PutSlack

- PutTCP

- PutUDP

- QueryDNS

- 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

1.3.3. 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.

1.4. Deprecated Technologies

This section points out any technology from previous releases that has been deprecated or removed from this release (operating systems, Java versions, databases, product features). Use this section as a guide for your implementation plans.

Deprecated   Technology that Hortonworks is removing in a future release. Deprecated items are supported until they are removed; deprecation gives you time to plan for removal.

Removed   Technology that Hortonworks has removed from production and is no longer supported.

Table 1.2. Deprecated Operating Systems

Operating System	Release Deprecated	Release Removed
Ubuntu 12	HDF 3.0.0	HDF 3.0.0
Debian 6	HDF 2.1.2	HDF 3.0.0

Table 1.3. Deprecated NiFi Processors

Processor	Release Deprecated
ConvertCSVToAvro	HDF 3.0.0
ConvertJSONToAvro	HDF 3.0.0
GetKafka	HDF 2.0.0
PutKafka	HDF 2.0.0
EvaluateRegularExpression	HDF 1.0.0

Table 1.4. Deprecated Kafka APIs

API	Release Deprecated	Use Instead
kafka.producer.Producer	HDF 3.1.0	org.apache.kafka.clients.producer.KafkaProducer
kafka.consumer.SimpleConsumer	HDF 3.1.0	org.apache.kafka.clients.consumer.KafkaConsumer
SecurityProtocol.PLAINTEXTSASL	HDF 3.1.0	SASL_PLAINTEXT

1.5. HDF Repository Locations

Use the following table to identify the HDF 3.1.2 repository location for your operating system and operational objectives. HDF 3.1.2 supports the following operating systems:

- RHEL/Oracle Linux/CentOS 6 HDF repository & additional download locations [9]

- RHEL/Oracle Linux/CentOS 7 HDF repository & additional download locations [10]

- **SLES 11 SP3/SP4** HDF repository & additional download locations [11]

- SLES 12 HDF repository & additional download locations [12]

- Ubuntu 14 HDF repository & additional download locations [13]

- Ubuntu 16 HDF repository & additional download locations [14]

- Debian 7 HDF repository & additional download locations [15]

- NiFi and MiNiFi MSI files [16]

Table 1.5. RHEL/Oracle Linux/CentOS 6 HDF repository & additional download locations

OS	Format	Download location
RHEL/Oracle Linux/CentOS 6 (64-bit):	HDF Build number	3.1.2.0-7
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/centos6/3.x/updates/3.1.2.0
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/centos6/3.x/updates/3.1.2.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/centos6/3.x/updates/3.1.2.0/HDF-3.1.2.0-centos6-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/centos6/3.x/updates/3.1.2.0/HDF-3.1.2.0-centos6-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/centos6/3.x/updates/3.1.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.1.2.0-7.tar.gz
	MiNiFi C++	http://public-repo-1.hortonworks.com/HDF/centos6/3.x/updates/3.1.2.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.4.0-bin.tar.gz
HDP and Ambari Repositories		
	Ambari	http://public-repo-1.hortonworks.com/ambari/centos6/2.x/updates/2.6.2.0/ambari.repo
	HDP	http://public-repo-1.hortonworks.com/HDP/centos6/2.x/updates/2.6.5.0/hdp.repo
	HDP-UTILS Base URL	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/centos6
OS Agnostic Downloads		
	NiFi only	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.tar.gz
	NiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.tar.gz

OS	Format	Download location
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.1.2.0
	NiFi Registry	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.tar.gz • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.zip
	MiNiFi Java Agent	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.tar.gz
	MiNiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.tar.gz
	iOS/Android Libraries	• Android – https://github.com/hortonworks/nifi-android-s2s • iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 1.6. RHEL/Oracle Linux/CentOS 7 HDF repository & additional download locations

OS	Format	Download location
RHEL/Oracle Linux/CentOS 7 (64-bit):	HDF Build Number	3.1.2.0-7
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.1.2.0
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.1.2.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.1.2.0/HDF-3.1.2.0-centos7-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.1.2.0/HDF-3.1.2.0-centos7-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.1.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.1.2.0-7.tar.gz
	MiNiFi C++ Agent	http://public-repo-1.hortonworks.com/HDF/centos7/3.x/updates/3.1.2.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.4.0-bin.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/centos7/2.x/updates/2.6.2.0/ambari.repo
	HDP	http://public-repo-1.hortonworks.com/HDP/centos7/2.x/updates/2.6.5.0/hdp.repo
	HDP-UTILS Base URL	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/centos7
	OS Agnostic Downloads	
	NiFi only	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.tar.gz
	NiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/

OS	Format	Download location
		Tags are latest and 3.1.2.0
	NiFi Registry	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.tar.gz • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.zip
	MiNiFi Java Agent	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.tar.gz
	MiNiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.tar.gz
	iOS/Android Libraries	• Android – https://github.com/hortonworks/nifi-android-s2s • iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 1.7. SLES 11 SP3/SP4 HDF repository & additional download locations

OS	Format	Download location
SUSE Enterprise Linux 11 SP3, SP4	HDF Build Number	3.1.2.0-7
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/suse11sp3/3.x/updates/3.1.2.0
	Repo	http://public-repo-1.hortonworks.com/HDF/suse11sp3/3.x/updates/3.1.2.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/suse11sp3/3.x/updates/3.1.2.0/HDF-3.1.2.0-suse11sp3-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/suse11sp3/3.x/updates/3.1.2.0/HDF-3.1.2.0-suse11sp3-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/suse11sp3/3.x/updates/3.1.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.1.2.0-7.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/suse11/2.x/updates/2.6.2.0/ambari.repo
	HDP	http://public-repo-1.hortonworks.com/HDP/suse11sp3/2.x/updates/2.6.5.0/hdp.repo
	HDP-UTILS Base URL	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/suse11sp3
	OS Agnostic Downloads	
	NiFi only	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.tar.gz
	NiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.1.2.0
	NiFi Registry	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.tar.gz

OS	Format	Download location
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.zip
	MiNiFi Java Agent	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.tar.gz
	MiNiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.tar.gz
	iOS/Android Libraries	• Android – https://github.com/hortonworks/nifi-android-s2s • iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 1.8. SLES 12 HDF repository & additional download locations

OS	Format	Download location
SUSE Linux Enterprise Server (SLES) v12 SP1	HDF Build Number	3.1.2.0-7
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.1.2.0
	Repo	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.1.2.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.1.2.0/HDF-3.1.2.0-sles12-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.1.2.0/HDF-3.1.2.0-sles12-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/sles12/3.x/updates/3.1.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.1.2.0-7.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/sles12/2.x/updates/2.6.2.0/ambari.repo
	HDP	http://public-repo-1.hortonworks.com/HDP/sles12/2.x/updates/2.6.5.0/hdp.repo
	HDP-UTILS Base URL	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/sles12
	OS Agnostic Downloads	
	NiFi only	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.tar.gz
	NiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.1.2.0
	NiFi Registry	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.tar.gz • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.zip
	MiNiFi Java Agent	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.zip

OS	Format	Download location
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/ minifi-0.4.0.3.1.2.0-7-bin.tar.gz
	MiNiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.tar.gz
	iOS/Android Libraries	• Android – https://github.com/hortonworks/nifi-android-s2s
		• iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 1.9. Ubuntu 14 HDF repository & additional download locations

OS	Format	Download location
Ubuntu Trusty (14.04) (64-bit)	HDF Build Number	3.1.2.0-7
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.1.2.0
	Repo	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.1.2.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.1.2.0/ HDF-3.1.2.0-ubuntu14-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.1.2.0/ HDF-3.1.2.0-ubuntu14-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/ubuntu14/3.x/updates/3.1.2.0/tars/ hdf_ambari_mp/hdf-ambari-mpack-3.1.2.0-7.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/ubuntu14/2.x/updates/2.6.2.0/ ambari.list
	HDP	http://public-repo-1.hortonworks.com/HDP/ubuntu14/2.x/updates/2.6.5.0/hdp.list
	HDP-UTILS Base URL	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/ubuntu14
	OS Agnostic Downloads	
	NiFi only	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/ nifi-1.5.0.3.1.2.0-7-bin.tar.gz
	NiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.1.2.0
	NiFi Registry	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.tar.gz
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.zip
	MiNiFi Java Agent	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/ minifi-0.4.0.3.1.2.0-7-bin.tar.gz
	MiNiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.zip

OS	Format	Download location
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.tar.gz
	iOS/Android Libraries	• Android – https://github.com/hortonworks/nifi-android-s2s
		• iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 1.10. Ubuntu 16 HDF repository & additional download locations

OS	Format	Download location
Ubuntu Trusty 16 (64-bit)	HDF Build Number	3.1.2.0-7
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.1.2.0
	Repo	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.1.2.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.1.2.0/HDF-3.1.2.0-ubuntu16-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.1.2.0/HDF-3.1.2.0-ubuntu16-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.1.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.1.2.0-7.tar.gz
	MiNiFi C++ Agent	http://public-repo-1.hortonworks.com/HDF/ubuntu16/3.x/updates/3.1.2.0/tars/nifi-minifi-cpp/nifi-minifi-cpp-0.4.0-bin.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/ubuntu16/2.x/updates/2.6.2.0/ambari.list
	HDP	http://public-repo-1.hortonworks.com/HDP/ubuntu16/2.x/updates/2.6.5.0/hdp.list
	HDP-UTILS Base URL	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/ubuntu16
	OS Agnostic Downloads	
	NiFi only	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.tar.gz
	NiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/
		Tags are latest and 3.1.2.0
	NiFi Registry	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.tar.gz
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.zip
	MiNiFi Java Agent	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.tar.gz
	MiNiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.zip
		• Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.tar.gz

OS	Format	Download location
	iOS/Android Libraries	• Android – https://github.com/hortonworks/nifi-android-s2s • iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 1.11. Debian 7 HDF repository & additional download locations

OS	Format	Download location
Debian 7	HDF Build Number	3.1.2.0-7
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/debian7/3.x/updates/3.1.2.0
	Repo	http://public-repo-1.hortonworks.com/HDF/debian7/3.x/updates/3.1.2.0/hdf.list
	Deb tarball	http://public-repo-1.hortonworks.com/HDF/debian7/3.x/updates/3.1.2.0/HDF-3.1.2.0-debian7-deb.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/debian7/3.x/updates/3.1.2.0/HDF-3.1.2.0-debian7-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/debian7/3.x/updates/3.1.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.1.2.0-7.tar.gz
	HDP and Ambari Repositories	
	Ambari	http://public-repo-1.hortonworks.com/ambari/debian7/2.x/updates/2.6.2.0/ambari.list
	HDP	http://public-repo-1.hortonworks.com/HDP/debian7/2.x/updates/2.6.5.0/hdp.list
	HDP-UTILS Base URL	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/debian7
	OS Agnostic Downloads	
	NiFi only	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-1.5.0.3.1.2.0-7-bin.tar.gz
	NiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-toolkit-1.5.0.3.1.2.0-7-bin.tar.gz
	Docker Hub	https://hub.docker.com/r/hortonworks/nifi/ Tags are latest and 3.1.2.0
	NiFi Registry	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.tar.gz • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/nifi-registry-0.1.0.3.1.2.0-7-bin.zip
	MiNiFi Java Agent	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-0.4.0.3.1.2.0-7-bin.tar.gz
	MiNiFi Toolkit	• Zip File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.zip • Tar.gz File – http://public-repo-1.hortonworks.com/HDF/3.1.2.0/minifi-toolkit-0.4.0.3.1.2.0-7-bin.tar.gz
	iOS/Android Libraries	• Android – https://github.com/hortonworks/nifi-android-s2s • iOS – https://github.com/hortonworks/nifi-ios-s2s

Table 1.12. NiFi and MiNiFi MSI files

File	Location
NiFi MSI	http://public-repo-1.hortonworks.com/HDF/windows/3.x/updates/3.1.2.0/nifi-3.1.2.0-7.msi
MiNiFi MSI	http://public-repo-1.hortonworks.com/HDF/windows/3.x/updates/3.1.2.0/minifi-3.1.2.0-7.msi

1.6. HDF Repository Location for IBM Power Systems

Table 1.13. RHEL 7 HDF repository & additional download locations

OS	Format	Download location
RHEL 7 (64-bit):	HDF Build Number	3.1.2.0-7
	HDF Base URL	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.1.2.0
	HDF Repo	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.1.2.0/hdf.repo
	RPM tarball	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.1.2.0/HDF-3.1.2.0-centos7-ppc-rpm.tar.gz
	Tars tarball	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.1.2.0/HDF-3.1.2.0-centos7-ppc-tars-tarball.tar.gz
	HDF Management Pack	http://public-repo-1.hortonworks.com/HDF/centos7-ppc/3.x/updates/3.1.2.0/tars/hdf_ambari_mp/hdf-ambari-mpack-3.1.2.0-7.tar.gz
	HDP and Ambari Repositories	
	Ambari	https://public-repo-1.hortonworks.com/ambari/centos7-ppc/2.x/updates/2.6.2.0/ambari.repo
	HDP	http://public-repo-1.hortonworks.com/HDP/centos7-ppc/2.x/updates/2.6.5.0/hdp.repo
	HDP-UTILS	http://public-repo-1.hortonworks.com/HDP-UTILS-1.1.0.22/repos/centos7-ppc/hdp-utils.repo

1.7. Common Vulnerabilities and Exposures

The following CVEs have been fixed in HDF 3.1.2.

1.7.1. 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. See ActiveMQ CVE-2015-5254 announcement for more information.

Mitigation: The fix to upgrade the activemq-client library to 5.15.3 was applied to the HDF 3.1.2 release. HDF users should upgrade to HDF 3.1.2.

1.7.2. CVE-2017-8028

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

Severity: Severe
Versions Affected: Apache NiFi 0.1.0 - 1.5.0

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 3.1.2 release. HDF users should upgrade to HDF 3.1.2.

1.7.3. 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 3.1.2 release. HDF users should upgrade to HDF 3.1.2.

The following CVEs have been fixed in HDF 3.1.0.

1.7.4. CVE-2017-12632

Summary: Apache NiFi host header poisoning issue
Severity: Medium
Versions Affected: Apache NiFi 0.1.0 - 1.4.0, HDF 1.x, 2.x, 3.0.x

Description: A malicious host header in an incoming HTTP request could cause NiFi to load resources from an external server.
Mitigation: The fix to sanitize host headers and compare to a controlled whitelist was applied on the Apache NiFi 1.5.0 release. HDF users should upgrade to HDF 3.1.0.

1.7.5. CVE-2017-15697

Summary: Apache NiFi XSS issue in context path handling
Severity: Moderate
Versions Affected: Apache NiFi 1.0.0 - 1.4.0, HDF 2.0.0 - 3.0.x
Description: A malicious X-ProxyContextPath or X-Forwarded-Context header containing external resources or embedded code could cause remote code execution.
Mitigation: The fix to properly handle these headers was applied on the Apache NiFi 1.5.0 release. HDF users should upgrade to HDF 3.1.0.

1.7.6. CVE-2017-12623

Summary: Apache NiFi XXE issue in template XML upload
Severity: Important
Versions Affected: Apache NiFi 1.0.0 - 1.3.0; HDF 2.x, 3.0.0 - 3.0.1.1

Impact: Any authenticated user could upload a template which contained malicious code and accessed sensitive files via an XML External Entity (XXE) attack.

Mitigation: The fix to properly handle XML External Entities was applied on the Apache NiFi 1.4.0 release. Users running a prior 1.x release should upgrade to the appropriate release. HDF users should upgrade to HDF 3.1.0.

1.7.7. CVE-2017-15703

Summary: Apache NiFi Java deserialization issue in template XML upload

Severity: Moderate

Versions Affected: Apache NiFi 1.0.0 - 1.3.0; HDF 2.x, 3.0.0 - 3.0.1.1

Description: Any authenticated user (valid client certificate but without ACL permissions) could upload a template which contained malicious code and caused a denial of service via Java deserialization attack.

Mitigation: The fix to properly handle Java deserialization was applied on the Apache NiFi 1.4.0 release. HDF users should upgrade to HDF 3.1.0.

1.8. Known Issues

Hortonworks Bug ID	Apache JIRA	Component	Summary
BUG-97319		Ambari/NiFi	**Issue:** After you have upgraded HDF services on an HDP cluster, you may experience issues starting NiFi. **Problem:** After upgrade, NiFi starts but Ambari reports that it is stopped. The command line NiFi service is running on the host. **Workaround:** To work around this issue, click the Ambari **Restart All** option for NiFi. NiFi starts successfully.
BUG-94090		SAM	**Issue:** You may be unable to import some topologies from HDF 3.0.x **Problem:** When you have a new HDF 3.1.0 installation, you cannot import topologies created in HDF 3.0.x. **Workaround:** To work around this issue, you can upgrade your existing version of HDF to HDF 3.1.0.
		NiFi	**Issue:** When you have upgraded HDF services on your HDP cluster, the NiFi version number displayed in Ambari does not change from NiFi 1.2.0 to NiFi 1.5.0. **Workaround:** After performing the upgrade scenario for HDF services on an HDP cluster as documented in the *Ambari Managed HDF Upgrade* documentation, disregard the NiFi version displayed in Ambari. NiFi has been successfully upgraded.
		NiFi	**Issue:** Unable to load native library. **Associated error message:** You may encounter an error message similar to one of the following: • Failed to write to HDFS of libhadoop was built without snappy support... Native snappy library not available: this version of libhadoop was built without snappy support. • Failed to load native-hadoop with error: java.lang.UnsatisfiedLinkError: Native Library /path/to/

Hortonworks Bug ID	Apache JIRA	Component	Summary
			hadoop/lib/native/libhadoop.so.1.0.0 already loaded in another classloader **Problem:** Native libraries can only be loaded into the Java runtime by a single ClassLoader. Once a ClassLoader loads a native library, subsequent attempts to load that same native library by a different ClassLoader will fail. If multiple components in NiFi attempt to load a native library, it will fail to do so and the components may fail to execute if it attempts to use those native libraries. Whether those components fail ultimately depend on the order they are loaded and executed which is not guaranteed by NiFi. This will occur most frequently with components that leverage the native Hadoop library. These components include but are not limited to: • NiFi Ranger Authorizer • Any HDFS Processors • Any HBase Processors • Any Hive Processors **Workaround:** This issue is most frequently encountered using an HDFS Processor with a Compression Codec that Hadoop leverages native libraries to implement. In this scenario, the dataflow can be updated to utilize a CompressContent Processor before/after the HDFS Processor to apply the desired compression. The CompressContent does not leverage native libraries and will not be susceptible to this known issue.
BUG-94989		Storm/Ambari	**Issue:** When performing an Ambari managed rolling upgrade, you may encounter an inaccurate warning message indicating that Storm topologies need to be stopped. **Associated error message:** `Storm topologies need to stop.` **Workaround:** You may safely ignore this error message. Storm topologies do not need to be stopped before performing a rolling upgrade.
	KNOX-1108	NiFi/Knox	**Issue:** NiFi/Knox integration does not support HA. In NiFiHaDispatch, executeRequest is overridden and does not have the try/catch block in DefaultHaDispatch's executeRequest method which is used to catch exceptions and begin the fail over process. **Workaround:** There is no workaround for this issue.
BUG-90903	N/A	NiFi/Knox	**Issue:** Knox HA failover for NiFi is not supported. **Workaround:** There is no workaround for this issue.
BUG-63132	N/A	Storm	**Summary:** Solr bolt does not run in a Kerberos environment. **Associated error message:** The following is an example: `[ERROR] Request to collection hadoop_logs failed due to (401) org.apache.solr.client.solrj.impl.HttpSolrClient $RemoteSolrException: Error from server at http:[...] Error 401 Authentication required`

Hortonworks Bug ID	Apache JIRA	Component	Summary
			Workaround: None at this time.

1.9. Third-Party Licenses

HDF 3.1.2 deploys numerous third-party licenses and dependencies, all of which are compatible with the Apache software license. For complete third-party license information, see the licenses and notice files contained within the distribution.