

Sandbox HDP 2.2.4.2 Ambari 2.0 Release Notes

The Sandbox uses the following versions of Ambari and HDP stack. Please use the release note links provided for Ambari and HDP stack specific information.

Ambari 2.0 Release Notes

http://docs.hortonworks.com/HDPDocuments/Ambari-2.0.0.0/Ambari_RelNotes_v20/index.html#Item1.1

HDP 2.2.4.2 Release Notes

http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.2.4/HDP_RelNotes_v224/index.html

MD5 of Virtual Appliances for corresponding to these release notes

Md5 **Vmware** - 1c778e19c9150a2d85d379700948071b

Md5 **Virtualbox** - 12b5ab86e2b3d4e85e40c6bd0283d3d6

Known Issues

List of issues you may encounter when using this version of the Sandbox.

BUG-34310 - Receiving Error dialog display when trying to modify HBase config within Ambari in Sandbox "500 status code received GET method for API /api/v1/stacks/HDP/versions/2.2/validations"

Component: Ambari

Workaround: Delete the following Custom hbase-site configurations from Ambari:

```
hbase_master_heapsize
hbase_regionserver_heapsize
hbase.rpc.engine
```

BUG-34455 - No audits for the Knox repository type in Ranger

Component: Sandbox

Workaround: Execute the following

```
cp /usr/share/java/mysql-connector-java.jar /usr/hdp/2.2.*/knox/ext
```

and restart the Knox gateway.

start: su -l knox -c "/usr/hdp/current/knox-server/bin/gateway.sh start"

stop: su -l knox -c "/usr/hdp/current/knox-server/bin/gateway.sh stop"

BUG-34671- Ambari shows alerts for some of the services that are started, when ambari is first launched.

Component: Sandbox

Workaround: If you simply wait a few minutes, the alerts will sync up and no longer show as an alert.

BUG-34692 - Splash screen of new sandbox hdp 2.2.4.2 is pointing to HDP 2.2

Component: Sandbox

BUG-34592 - Broken links for Yarn webui's such as: nodemanager <http://127.0.0.1:8042/> which prevents allowing access to the nodemanager info and logs

Component: Sandbox

Workaround: For VMware the workaround is to replace "sandbox.hortonworks.com" with the IP address used for the virtual machine, typically 192.xxx.xxx.xxx

BUG-34485 - Hive service showing it has to be restarted due to configuration changes

Component: Sandbox

Workaround: After starting Ambari Server and Ambari Agent, log into Ambari dashboard and restart Hive service.

BUG-34485 - The about page for Hue <http://127.0.0.1:8000/about/> does not have complete listing of components

Component: Sandbox

BUG-34609 - Virtualbox image still references the name as 2.2.4 which should be 2.2.4.2

Component: Sandbox

BUG-33940 - Jps output is showing as "process information unavailable" in Champlain m10 Ambari 2.0 sandbox (JDK bug)

<https://bugs.launchpad.net/ubuntu/+source/openjdk-6/+bug/1417962>

Component: Sandbox

Limitations

List of common limitations, that have a workaround.

RMP-3553 - Ranger and Knox are not administered by Ambari

Workaround: You can use the following commands to start and stop Ranger and Knox services by executing the commands within the console or ssh.

Ranger

start Apache Ranger Admin: `service ranger-admin start`

stop Apache Ranger Admin: `service ranger-admin stop`

start Ranger UserSync: `service ranger-usersync start`

stop Ranger UserSync: `service ranger-usersync stop`

Knox

```
start: su -l Knox -c "/usr/hdp/current/knox-server/bin/gateway.sh start"
stop: su -l Knox -c "/usr/hdp/current/knox-server/bin/gateway.sh stop"
```

RMP-3586 - Due to dependency of the underlying OS and Virtual machine application, the following may occur when suspending the virtual machine:

- Region Server service for HBase may be stopped when returning back from suspended state. It will need to be restarted.
- Ambari Metrics may be stopped when returning back from suspended state since it now uses an embedded HBase.

Workaround: Avoid having to suspend your virtual machine.

System Information

OS Version

CentOS release 6.6 (Final)

LSB_VERSION=base-4.0-amd64:base-4.0-noarch:core-4.0-amd64:core-4.0-noarch:graphics-4.0-amd64:graphics-4.0-noarch:printing-4.0-amd64:printing-4.0-noarch

*Java Version

java version "1.7.0_75"

OpenJDK Runtime Environment (rhel-2.5.4.0.el6_6-x86_64 u75-b13)

OpenJDK 64-Bit Server VM (build 24.75-b04, mixed mode)

**Updated from previous version*

HDP Information

Tech Preview Packages

Ambari Views - Capacity Scheduler 0.3

Ambari Views - Files 0.1

Ambari Views - Hive 0.2

Ambari Views - Pig 0.1

Ambari Views - Slider Apps View 1.0

Ambari Views - Tez 0.5.2.2.2.0 -1238

Databases Used

Ambari: postgres

Hive Metastore : Mysql

Ranger: Mysql

Oozie: derby (embedded)

HDP Supported Components Not Installed

Apache Accumulo

Apache Datafu

Apache Mahout

Newly Added HDP Supported Packages

Apache Spark

spark_2_2_4_2_2-python-1.2.1.2.2.4.2-2.el6.noarch

spark_2_2_4_2_2-1.2.1.2.2.4.2-2.el6.noarch

spark_2_2_4_2_2-worker-1.2.1.2.2.4.2-2.el6.noarch

spark_2_2_4_2_2-master-1.2.1.2.2.4.2-2.el6.noarch

Installed Packages

NOTE: Ganglia and Nagios are no longer installed

Apache Ambari

*ambari-metrics-collector-2.0.0-1238.x86_64

*ambari-metrics-monitor-2.0.0-1238.x86_64

*ambari-metrics-hadoop-sink-2.0.0-1238.x86_64

ambari-log4j-2.0.0.1238-1.noarch

ambari-server-2.0.0-1238.noarch

ambari-agent-2.0.0-1238.x86_64

**New packages that replace functionality of Ganglia and Nagios in past builds*

Apache Hadoop (HDFS, YARN, Mapreduce)

hadoop_2_2_4_2_2-mapreduce-2.6.0.2.2.4.2-2.el6.x86_64

hadoop_2_2_4_2_2-hdfs-2.6.0.2.2.4.2-2.el6.x86_64

hadoop_2_2_4_2_2-libhdfs-2.6.0.2.2.4.2-2.el6.x86_64

hadoop_2_2_4_2_2-2.6.0.2.2.4.2-2.el6.x86_64

hadoop_2_2_4_2_2-yarn-2.6.0.2.2.4.2-2.el6.x86_64

hadoop_2_2_4_2_2-client-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-yarn-nodemanager-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-https-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-yarn-proxyserver-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-hdfs-datanode-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-hdfs-secondarynamenode-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-yarn-resourcemanager-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-mapreduce-historyserver-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-hdfs-namenode-2.6.0.2.2.4.2-2.el6.x86_64

*hadoop_2_2_4_2_2-hdfs-fuse-2.6.0.2.2.4.2-2.el6.x86_64
*hadoop_2_2_4_2_2-doc-2.6.0.2.2.4.2-2.el6.x86_64
*hadoop_2_2_4_2_2-source-2.6.0.2.2.4.2-2.el6.x86_64
*hadoop_2_2_4_2_2-hdfs-zkfc-2.6.0.2.2.4.2-2.el6.x86_64
*hadoop_2_2_4_2_2-conf-pseudo-2.6.0.2.2.4.2-2.el6.x86_64
*hadoop_2_2_4_2_2-hdfs-journalnode-2.6.0.2.2.4.2-2.el6.x86_64

*New separate packages that were previously bundled in previous builds

Apache Falcon

falcon_2_2_4_2_2-doc-0.6.0.2.2.4.2-2.el6.noarch
falcon_2_2_4_2_2-0.6.0.2.2.4.2-2.el6.noarch

Apache Hive

hive_2_2_4_2_2-webhcat-0.14.0.2.2.4.2-2.el6.noarch
hive_2_2_4_2_2-metastore-0.14.0.2.2.4.2-2.el6.noarch
hive_2_2_4_2_2-hcatalog-0.14.0.2.2.4.2-2.el6.noarch
hive_2_2_4_2_2-webhcat-server-0.14.0.2.2.4.2-2.el6.noarch
hive_2_2_4_2_2-server2-0.14.0.2.2.4.2-2.el6.noarch
hive_2_2_4_2_2-server-0.14.0.2.2.4.2-2.el6.noarch
hive_2_2_4_2_2-0.14.0.2.2.4.2-2.el6.noarch
hive_2_2_4_2_2-hcatalog-server-0.14.0.2.2.4.2-2.el6.noarch
hive_2_2_4_2_2-jdbc-0.14.0.2.2.4.2-2.el6.noarch

Apache Hbase

hbase_2_2_4_2_2-rest-0.98.4.2.2.4.2-2.el6.noarch
hbase_2_2_4_2_2-doc-0.98.4.2.2.4.2-2.el6.noarch
hbase_2_2_4_2_2-master-0.98.4.2.2.4.2-2.el6.noarch
hbase_2_2_4_2_2-thrift2-0.98.4.2.2.4.2-2.el6.noarch
hbase_2_2_4_2_2-thrift-0.98.4.2.2.4.2-2.el6.noarch
hbase_2_2_4_2_2-0.98.4.2.2.4.2-2.el6.noarch
hbase_2_2_4_2_2-regionserver-0.98.4.2.2.4.2-2.el6.noarch

Apache Flume

flume_2_2_4_2_2-agent-1.5.2.2.2.4.2-2.el6.noarch
flume_2_2_4_2_2-1.5.2.2.2.4.2-2.el6.noarch

Apache Hue

hue-hcatalog-2.6.1.2.2.4.2-2.el6.x86_64
hue-2.6.1.2.2.4.2-2.el6.x86_64
hue-beeswax-2.6.1.2.2.4.2-2.el6.x86_64
hue-pig-2.6.1.2.2.4.2-2.el6.x86_64
hue-oozie-2.6.1.2.2.4.2-2.el6.x86_64

hue-tutorials-1.2.1-88.noarch
hue-common-2.6.1.2.2.4.2-2.el6.x86_64
hue-server-2.6.1.2.2.4.2-2.el6.x86_64
hue-sandbox-1.2.1-88.noarch

Apache Kafka

kafka_2_2_4_2_2-0.8.1.2.2.4.2-2.el6.noarch

Apache Knox

knox_2_2_4_2_2-0.5.0.2.2.4.2-2.el6.noarch

Apache Oozie

oozie_2_2_4_2_2-4.1.0.2.2.4.2-2.el6.noarch
oozie_2_2_4_2_2-client-4.1.0.2.2.4.2-2.el6.noarch

Apache Pig

pig_2_2_4_2_2-0.14.0.2.2.4.2-2.el6.noarch

Apache Ranger

ranger_2_2_4_2_2-debuginfo-0.4.0.2.2.4.2-2.el6.x86_64
ranger_2_2_4_2_2-hdfs-plugin-0.4.0.2.2.4.2-2.el6.x86_64
ranger_2_2_4_2_2-usersync-0.4.0.2.2.4.2-2.el6.x86_64
ranger_2_2_4_2_2-hbase-plugin-0.4.0.2.2.4.2-2.el6.x86_64
ranger_2_2_4_2_2-hive-plugin-0.4.0.2.2.4.2-2.el6.x86_64
ranger_2_2_4_2_2-knox-plugin-0.4.0.2.2.4.2-2.el6.x86_64
ranger_2_2_4_2_2-admin-0.4.0.2.2.4.2-2.el6.x86_64
ranger_2_2_4_2_2-storm-plugin-0.4.0.2.2.4.2-2.el6.x86_64

Apache Solr

solr-4.10.4 (tarball Install) /opt/solr/solr-4.10.4

Apache Slider

slider_2_2_4_2_2-0.61.0.2.2.4.2-2.el6.noarch

Apache Sqoop

sqoop_2_2_4_2_2-1.4.5.2.2.4.2-2.el6.noarch
sqoop_2_2_4_2_2-metastore-1.4.5.2.2.4.2-2.el6.noarch

Apache Storm

storm_2_2_4_2_2-slider-client-0.9.3.2.2.4.2-2.el6.x86_64
storm_2_2_4_2_2-0.9.3.2.2.4.2-2.el6.x86_64

Apache Tez

tez_2_2_4_2_2-0.5.2.2.2.4.2-2.el6.noarch

Apache Zookeeper

*zookeeper_2_2_4_2_2-server-3.4.6.2.2.4.2-2.el6.noarch

zookeeper_2_2_4_2_2-3.4.6.2.2.4.2-2.el6.noarch

*New separate packages that were previously bundled in previous builds

Other Packages

Packages that HDP components may use.

Python

python-devel-2.6.6-52.el6.x86_64

python-pip-1.3.1-4.el6.noarch

python-pycurl-7.19.0-8.el6.x86_64

python-iniparse-0.3.1-2.1.el6.noarch

python-libs-2.6.6-52.el6.x86_64

python-urlgrabber-3.9.1-9.el6.noarch

newt-python-0.52.11-3.el6.x86_64

rpm-python-4.8.0-38.el6_6.x86_64

python-setuptools-0.6.10-3.el6.noarch

python-lxml-2.2.3-1.1.el6.x86_64

python-2.6.6-52.el6.x86_64

mysql

mysql-server-5.1.73-3.el6_5.x86_64

mysql-libs-5.1.73-3.el6_5.x86_64

mysql-5.1.73-3.el6_5.x86_64

mysql-connector-java-5.1.17-6.el6.noarch

Postgres

postgresql-server-8.4.20-2.el6_6.x86_64

postgresql-8.4.20-2.el6_6.x86_64

postgresql-libs-8.4.20-2.el6_6.x86_64

HDP Services started automatically on startup

When the virtual machine is booted up, the following services are started. If not specified, assume all are java processes. The users that launch the process are the corresponding names of the component. The processes are listed with their main class.

Falcon

Main - org.apache.falcon.Main

HDFS

SecondaryNameNode - org.apache.hadoop.hdfs.server.namenode.SecondaryNameNode

*Portmap - org.apache.hadoop.portmap.Portmap

NameNode - org.apache.hadoop.hdfs.server.namenode.NameNode

DataNode - org.apache.hadoop.hdfs.server.datanode.DataNode

*Nfs3 - org.apache.hadoop.hdfs.nfs.nfs3.Nfs3

**Unlike the other processes that are launched by hdfs user, these are run as root user.*

HIVE

*RunJar - webhcat - org.apache.hadoop.util.RunJar

RunJar - metastore - org.apache.hadoop.util.RunJar

RunJar - hiveserver2 - org.apache.hadoop.util.RunJar

**Run as hcat user*

Knox

gateway.jar - /usr/hdp/current/knox-server/bin/gateway.jar

*ldap.jar - /usr/hdp/current/knox-server/bin/ldap.jar

**This process is a mini ldap server*

Mapreduce

*JobHistoryServer - org.apache.hadoop.mapreduce.v2.hs.JobHistoryServer

**mapred is the user used to launch this process*

Oozie

Bootstrap - org.apache.catalina.startup.Bootstrap

Ranger (XaSecure)

*UnixAuthenticationService - com.xasecure.authentication.UnixAuthenticationService

EmbeddedServer - com.xasecure.server.tomcat.EmbeddedServer

**Run as root user*

YARN

ApplicationHistoryServer -

org.apache.hadoop.yarn.server.applicationhistoryservice.ApplicationHistoryServer

ResourceManager - org.apache.hadoop.yarn.server.resourcemanager.ResourceManager

NodeManager - org.apache.hadoop.yarn.server.nodemanager.NodeManager

Zookeeper

QuorumPeerMain - org.apache.zookeeper.server.quorum.QuorumPeerMain

HDP Services not started automatically

In order to utilize the functionality of these services, they need to be turned on and require more memory added to the virtual machine.

Ambari

*AmbariServer - org.apache.ambari.server.controller.AmbariServer

Ambari Agent (non java process)

**Run as root user*

Flume

Application - org.apache.flume.node.Application

HBase

HRegionServer - org.apache.hadoop.hbase.regionserver.HRegionServer

HMaster - org.apache.hadoop.hbase.master.HMaster

Kafka

Kafka - kafka.Kafka

Storm

supervisor - backtype.storm.daemon.supervisor

nimbus - backtype.storm.daemon.nimbus

logviewer - backtype.storm.daemon.logviewer

core - backtype.storm.ui.core

drpc - backtype.storm.daemon.drpc

Apache Ambari Notes

-By default Ambari Metrics service is off.

-Maintenance Mode is on for

HBase

Falcon

Storm

Flume

Spark

Kafka

Ambari Metrics