



# Hortonworks Sandbox

## HDP 2.4

## Release Notes

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March 2016

Md5 **VMware** Virtual Appliance - 1d2be9ee1d6ae5ee15b879cfe378b2c3

Md5 **Virtualbox** Virtual Appliance- 3be05e61ad1d336266e133adb69b08df

## HDP Stack and Ambari

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

### HDP 2.4 Build 169 Release Notes

[http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.4.0/bk\\_HDP\\_RelNotes/content/ch\\_relnotes\\_v240.html](http://docs.hortonworks.com/HDPDocuments/HDP2/HDP-2.4.0/bk_HDP_RelNotes/content/ch_relnotes_v240.html)

### Ambari 2.2.1.0 Build 161 Release Notes

[http://docs.hortonworks.com/HDPDocuments/Ambari-2.2.1.0/bk\\_releasenotes\\_ambari\\_2.2.1.0/content/ch\\_relnotes-ambari-2.2.1.0.html](http://docs.hortonworks.com/HDPDocuments/Ambari-2.2.1.0/bk_releasenotes_ambari_2.2.1.0/content/ch_relnotes-ambari-2.2.1.0.html)

## Behavior Changes

**RMP-5904-** Added maria\_dev as default user login

**RMP-5426** – Admin for Ambari no longer uses default password

**Workaround:** Resetting Ambari Password via SSH

1. Start your sandbox, ssh using a terminal or the web browser link:
2. Run the following commands:  
ambari-admin-password-reset

The following text will appear

Please set the password for admin:

Please retype the password for admin:

After setting and retyping your new password, type the command:  
ambari-agent restart

3. Ambari Admin password should be reset
4. Open Ambari login page. Verify your new password allows you to login as admin user.

**RMP-5326** – Turn off alerts in ambari

**BUG-52540** – Removed the line from console “You can access ssh [root@127.0.0.2 ...](#)”

## New Features – Serviceability

**RMP-5895-** Add java version output to sandbox-version command.

## Known Issues

N/A

## Fixed Issues

**BUG-48978** – Regression of Bug-40732 blueprint values are missing for Falcon

**BUG-48765**- Receiving message " [Dr. Who] is not authorized to view the log" when viewing logs in the sandbox

## Limitations

This is a list of common limitations along with their workarounds.

**RMP-4362** - Solr is not administered by Ambari

**Workaround:** You can use the following commands to start and stop solr

```
start service as root user /opt/lucidworks-hdpsearch/solr/bin/solr start -c -z sandbox.hortonworks.com
```

```
stop service as root user /opt/lucidworks-hdpsearch/solr/bin/solr stop -c -z sandbox.hortonworks.com
```

**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

Operating System and Java versions that the Sandbox has installed.

### OS Version

CentOS release 6.7 (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\_95"

OpenJDK Runtime Environment (rhel-2.6.4.0.el6\_7-x86\_64 u95-b00)

OpenJDK 64-Bit Server VM (build 24.95-b01, mixed mode)

*\*Updated from previous version*

### Image File Sizes

VMware – 9.75 GB

Virtualbox –

## Tech Preview Packages

These packages are included to allow an early look as to what we are working on.

- Zeppelin 0.6.0

## Users / Password

Hive

Database User: hive

Database Pass: hive

## Databases Used

These are a list of databases used within Sandbox along with the corresponding HDP components that use them.

- Ambari: postgres
- Hive Metastore : Mysql
- Ranger: Mysql
- Oozie: derby (embedded)

## HDP Supported Components Not Installed

These components are offered by the Hortonworks distribution, but not included in the Sandbox.

- Apache Accumulo
- Apache Mahout

## Newly Added HDP Supported Packages

These are packages that have recently been included into the Sandbox for this release.

### Apache Ambari

ambari-metrics-monitor-2.2.1.0-161.x86\_64  
ambari-server-2.2.1.0-161.x86\_64  
ambari-metrics-collector-2.2.1.0-161.x86\_64  
ambari-metrics-hadoop-sink-2.2.1.0-161.x86\_64  
ambari-agent-2.2.1.0-161.x86\_64

### Apache Ambari Views

ambari-admin-2.2.1.0.161.jar  
capacity-scheduler-2.2.1.0.161.jar  
files-2.2.1.0.161.jar  
hive-2.2.1.0.161.jar  
pig-2.2.1.0.161.jar

slider-2.2.1.0.161.jar  
tez-view-2.2.1.0.161.jar

### **Apache Hadoop (HDFS, YARN, Mapreduce)**

hadoop\_2\_4\_0\_0\_169-2.7.1.2.4.0.0-169.el6.x86\_64  
hadoop\_2\_4\_0\_0\_169-hdfs-2.7.1.2.4.0.0-169.el6.x86\_64  
hadoop\_2\_4\_0\_0\_169-libhdfs-2.7.1.2.4.0.0-169.el6.x86\_64  
hadoop\_2\_4\_0\_0\_169-yarn-2.7.1.2.4.0.0-169.el6.x86\_64  
hadoop\_2\_4\_0\_0\_169-client-2.7.1.2.4.0.0-169.el6.x86\_64  
hadoop\_2\_4\_0\_0\_169-mapreduce-2.7.1.2.4.0.0-169.el6.x86\_64

### **Apache Falcon**

falcon\_2\_4\_0\_0\_169-0.6.1.2.4.0.0-169.el6.noarch  
falcon\_2\_4\_0\_0\_169-doc-0.6.1.2.4.0.0-169.el6.noarch

### **Apache Hive**

hive\_2\_4\_0\_0\_169-webhcat-server-1.2.1000.2.4.0.0-169.el6.noarch  
hive\_2\_4\_0\_0\_169-server-1.2.1000.2.4.0.0-169.el6.noarch  
hive\_2\_4\_0\_0\_169-1.2.1000.2.4.0.0-169.el6.noarch  
hive\_2\_4\_0\_0\_169-webhcat-1.2.1000.2.4.0.0-169.el6.noarch  
hive\_2\_4\_0\_0\_169-hcatalog-server-1.2.1000.2.4.0.0-169.el6.noarch  
hive\_2\_4\_0\_0\_169-metastore-1.2.1000.2.4.0.0-169.el6.noarch  
hive\_2\_4\_0\_0\_169-hcatalog-1.2.1000.2.4.0.0-169.el6.noarch  
hive\_2\_4\_0\_0\_169-server2-1.2.1000.2.4.0.0-169.el6.noarch  
hive\_2\_4\_0\_0\_169-jdbc-1.2.1000.2.4.0.0-169.el6.noarch

### **Apache Hbase**

hbase\_2\_4\_0\_0\_169-rest-1.1.2.2.4.0.0-169.el6.noarch  
hbase\_2\_4\_0\_0\_169-doc-1.1.2.2.4.0.0-169.el6.noarch  
hbase\_2\_4\_0\_0\_169-regionserver-1.1.2.2.4.0.0-169.el6.noarch  
hbase\_2\_4\_0\_0\_169-thrift-1.1.2.2.4.0.0-169.el6.noarch  
hbase\_2\_4\_0\_0\_169-thrift2-1.1.2.2.4.0.0-169.el6.noarch  
hbase\_2\_4\_0\_0\_169-1.1.2.2.4.0.0-169.el6.noarch  
hbase\_2\_4\_0\_0\_169-master-1.1.2.2.4.0.0-169.el6.noarch

### **Apache Flume**

flume\_2\_4\_0\_0\_169-agent-1.5.2.2.4.0.0-169.el6.noarch  
flume\_2\_4\_0\_0\_169-1.5.2.2.4.0.0-169.el6.noarch

### **Apache Kafka**

kafka\_2\_4\_0\_0\_169-0.9.0.2.4.0.0-169.el6.noarch

### **Apache Knox**

knox\_2\_4\_0\_0\_169-0.6.0.2.4.0.0-169.el6.noarch

**Apache Oozie**

oozie\_2\_4\_0\_0\_169-client-4.2.0.2.4.0.0-169.el6.noarch  
oozie\_2\_4\_0\_0\_169-4.2.0.2.4.0.0-169.el6.noarch

**Apache Phoenix**

phoenix\_2\_4\_0\_0\_169-4.4.0.2.4.0.0-169.el6.noarch

**Apache Pig**

pig\_2\_4\_0\_0\_169-0.15.0.2.4.0.0-169.el6.noarch

**Apache Ranger**

ranger\_2\_4\_0\_0\_169-hive-plugin-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-yarn-plugin-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-kafka-plugin-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-knox-plugin-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-usersync-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-hdfs-plugin-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-admin-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-storm-plugin-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-hbase-plugin-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-debuginfo-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-kms-0.5.0.2.4.0.0-169.el6.x86\_64  
ranger\_2\_4\_0\_0\_169-solr-plugin-0.5.0.2.4.0.0-169.el6.x86\_64

**Apache Solr (Included in the Hadoop Search package)**

Solr 5.21 lucidworks-hdpsearch-2.3-4.noarch

**Apache Slider**

slider\_2\_4\_0\_0\_169-0.80.0.2.4.0.0-169.el6.noarch  
storm\_2\_4\_0\_0\_169-slider-client-0.10.0.2.4.0.0-169.el6.x86\_64

**Apache Spark**

spark\_2\_4\_0\_0\_169-1.6.0.2.4.0.0-169.el6.noarch  
spark\_2\_4\_0\_0\_169-yarn-shuffle-1.6.0.2.4.0.0-169.el6.noarch  
spark\_2\_4\_0\_0\_169-python-1.6.0.2.4.0.0-169.el6.noarch

**Apache Sqoop**

sqoop\_2\_4\_0\_0\_169-metastore-1.4.6.2.4.0.0-169.el6.noarch  
sqoop\_2\_4\_0\_0\_169-1.4.6.2.4.0.0-169.el6.noarch

**Apache Storm**

storm\_2\_4\_0\_0\_169-slider-client-0.10.0.2.4.0.0-169.el6.x86\_64  
storm\_2\_4\_0\_0\_169-0.10.0.2.4.0.0-169.el6.x86\_64

### **Apache Tez**

tez\_2\_4\_0\_0\_169-0.7.0.2.4.0.0-169.el6.noarch

### **Apache Zookeeper**

zookeeper\_2\_4\_0\_0\_169-server-3.4.6.2.4.0.0-169.el6.noarch

zookeeper\_2\_4\_0\_0\_169-3.4.6.2.4.0.0-169.el6.noarch

## **Other Packages**

These are some of the installed packages in the Sandbox that the HDP components may depend on.

### **Python**

python-lxml-2.2.3-1.1.el6.x86\_64

python-pycurl-7.19.0-8.el6.x86\_64

python-iniparse-0.3.1-2.1.el6.noarch

python-pip-7.1.0-1.el6.noarch

python-libs-2.6.6-64.el6.x86\_64

python-urlgrabber-3.9.1-9.el6.noarch

rpm-python-4.8.0-47.el6.x86\_64

newt-python-0.52.11-3.el6.x86\_64

python-devel-2.6.6-64.el6.x86\_64

python-argparse-1.2.1-2.1.el6.noarch

python-setuptools-0.6.10-3.el6.noarch

python-2.6.6-64.el6.x86\_64

\*difference from previous version there is now python-urlgrabber

### **mysql**

mysql-5.1.73-5.el6\_6.x86\_64

mysql-libs-5.1.73-5.el6\_6.x86\_64

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

mysql-server-5.1.73-5.el6\_6.x86\_64

### **Postgres**

postgresql-server-8.4.20-4.el6\_7.x86\_64

postgresql-8.4.20-4.el6\_7.x86\_64

postgresql-libs-8.4.20-4.el6\_7.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.

### **Ambari**

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

Ambari Agent (non java process)

*\*Run as root user*

## **Atlas**

Main - org.apache.atlas.Main

## **HDFS**

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

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

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

\*\*Nfs

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

*\*\*The nfs process doesn't show up as a name for jps output*

## **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*

## **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*

## **Spark**

HistoryServer - org.apache.spark.deploy.history.HistoryServer

## **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

## **Zeppelin**

ZeppelinServer - org.apache.zeppelin.server.ZeppelinServer

## **HDP Services not started automatically**

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

## **HDFS**

SecondaryNameNode -

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

*\*Since on a single node, secondary namenode is not needed, it is not started.*

## **Falcon**

Main - org.apache.falcon.Main

## **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

## **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*

## **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

## As Designed

The following are Ambari settings that one should be aware of.

- By default Ambari Metrics service is off.
- Maintenance Mode is on for
  - HDFS
  - HBase
  - Falcon
  - Storm
  - Ambari Metrics
  - Kafka
  - Knox