Technical Preview
HDP 2.3

Release Notes

HDP Stack and Ambari

The Sandbox uses the following versions of Ambari and HDP stack.
HDP 2.3 Build 2130
Ambari 2.1 Build 781

Known Issues

Since this is an early preview of a release, you may experience some unexpected
behaviors. Below are some issues you may encounter.

BUG-38937 – Pig view not able to show parsing errors, job says completed.
Component: Pig View

BUG-38787 – Opening pig view from hive view shows 500 error (very intermittent) just
refresh to workaround
Component: Pig View

BUG-38982 - When click on the Ambari views button on the top right , if you are in the
welcome ambari page you, the complete list of views are not listed.
Component: Ambari

Limitations

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

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 start
> **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"
> For knox you also need to start the Ldap service.
> start: su - knox -c '/usr/hdp/current/knox-server/bin/ldap.sh start'
> stop: su - knox -c '/usr/hdp/current/knox-server/bin/ldap.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
Operating System and Java versions that the Sandbox has installed.

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_79"
OpenJDK Runtime Environment (rhel-2.5.5.3.el6_6-x86_64 u79-b14)
OpenJDK 64-Bit Server VM (build 24.79-b02, mixed mode)
***Updated from previous version**

Image File Sizes
VMware – 6.6 GB
Virtualbox –7 GB

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

- ▪ Ambari Views – Storm

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 Datafu
- Apache Mahout
- Solr

Newly Added HDP Supported Packages

These are packages that have recently been included into the Sandbox for this release.
Apache Atlas
atlas-metadata_2_3_0_0_2130-0.1.0.2.3.0.0-2130.el6.noarch
atlas-metadata_2_3_0_0_2130-hive-plugin-0.1.0.2.3.0.0-2130.el6.noarch

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

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*

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

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 to be added to the virtual machine.
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

Ranger (XaSecure)
*UnixAuthenticationService - com.xasecure.authentication.UnixAuthenticationService

EmbededServer - com.xasecure.server.tomcat.EmbededServer

Run as root user

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

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

- By default Ambari Metrics service is off.
- Maintenance Mode is on for
  - HBase
  - Falcon
  - Storm
  - Flume
  - Spark
  - Kafka
  - Ambari Metrics
  - Atlas