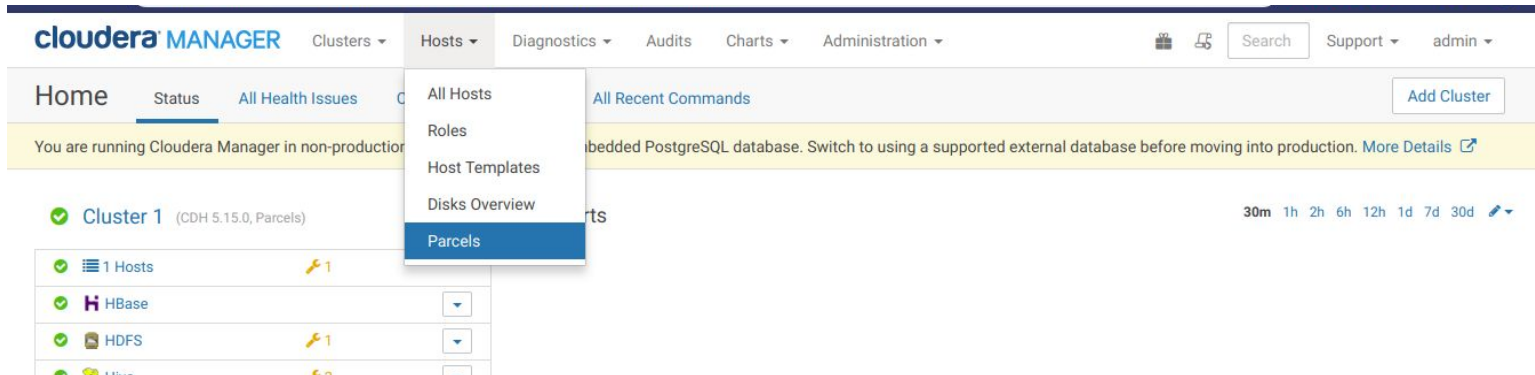


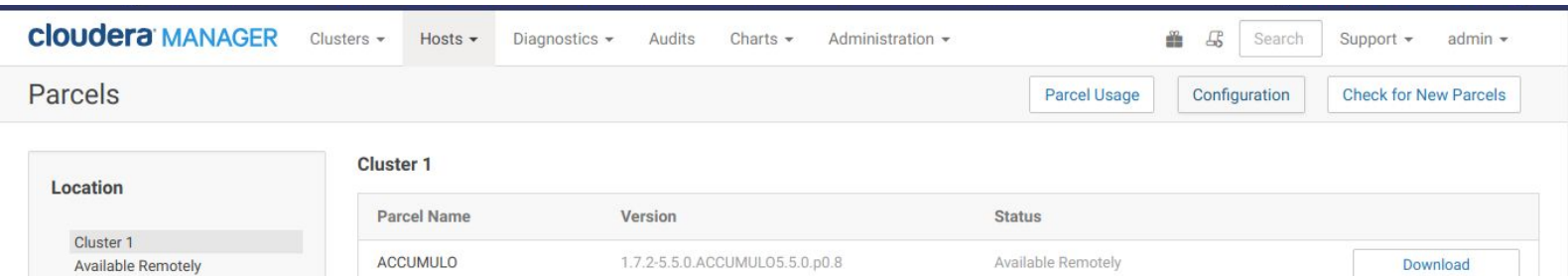


Apache Phoenix Setup Guide

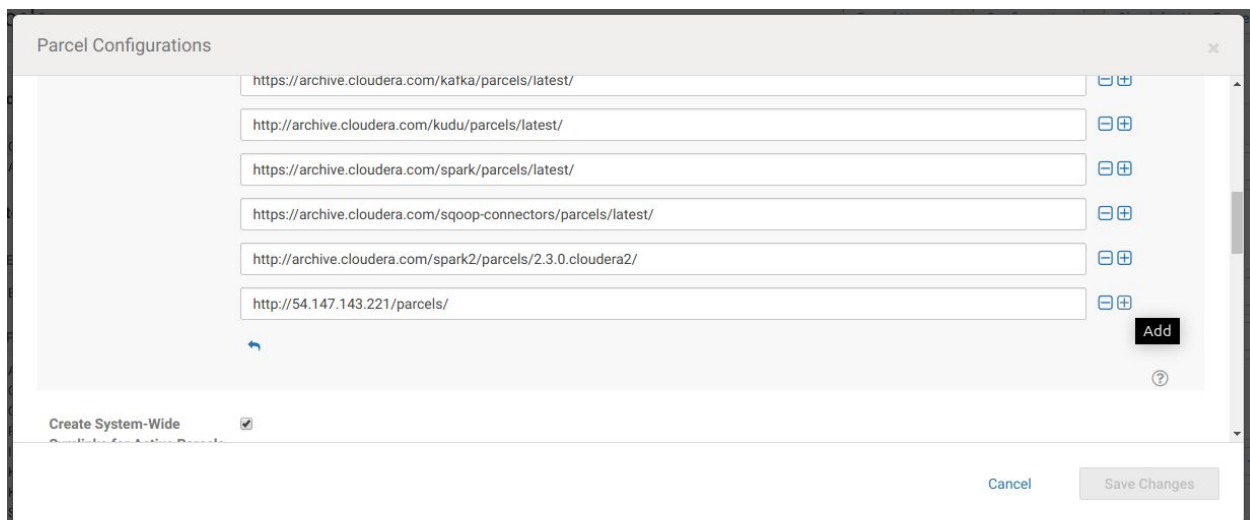
1. Turn on your ec2 instance and log in to the Cloudera manager dashboard. And from the top menu bar, click on **Hosts > Parcels**



2. Click on the top right corner, Click on **configuration**.



3. Then click on the '+' sign next to an existing Remote Parcel Repository URL,





4. A new empty text box will appear, now paste the following URL into it.

```
http://archive.cloudera.com/cloudera-labs/phoenix/parcels/latest/
```

After that click on **Save Changes**.

Parcel Configurations

https://archive.cloudera.com/kafka/parcels/latest/	⊞ ⊞
http://archive.cloudera.com/kudu/parcels/latest/	⊞ ⊞
https://archive.cloudera.com/spark/parcels/latest/	⊞ ⊞
https://archive.cloudera.com/sqoop-connectors/parcels/latest/	⊞ ⊞
http://archive.cloudera.com/spark2/parcels/2.3.0.cloudera2/	⊞ ⊞
http://54.147.143.221/parcels/	⊞ ⊞
http://archive.cloudera.com/cloudera-labs/phoenix/parcels/latest/	⊞ ⊞

↺

?

Cancel Save Changes

5. Wait for some time until you see a parcel named CLAB PHOENIX, as shown below

cloudera MANAGER Clusters ▾ Hosts ▾ Diagnostics ▾ Audits ▾ Charts ▾ Administration ▾

Search Support ▾ admin ▾

Parcels

Cluster 1

Location: Cluster 1, Available Remotely

Filters: ERROR STATUS (Error: 5), PARCEL NAME

Parcel Name	Version	Status	Actions
ACCUMULO	1.7.2-5.5.0.ACCUMULO5.5.0.p0.8	Available Remotely	Download
	1.4.4-1.cdh4.5.0.p0.65	Unavailable	
Error for parcel ACCUMULO-1.4.4-1.cdh4.5.0.p0.65-el7: Parcel not available for OS Distribution RHEL7.			
CDH 5	5.15.1-1.cdh5.15.1.p0.4	Available Remotely	Download
	5.15.0-1.cdh5.15.0.p0.21	Distributed, Activated	Deactivate
CDH 4	4.7.1-1.cdh4.7.1.p0.47	Unavailable	
Error for parcel CDH-4.7.1-1.cdh4.7.1.p0.47-el7: Parcel not available for OS Distribution RHEL7.			
FAST_DATA_KAFKA_CONFLUENT	4.0.1-oss-release-0	Distributed	Activate ▾
IMPALA	2.1.0-1.impala2.0.0.p0.1995	Unavailable	
Error for parcel IMPALA-2.1.0-1.impala2.0.0.p0.1995-el7: Parcel not available for OS Distribution RHEL7.			
KAFKA	3.1.0-1.3.1.0.p0.35	Distributed, Activated	Deactivate

The Parcel Configurations have been saved. Any new parcels will be listed here shortly.

PARCEL NAME

ACCUMULO	2	
CDH 4	1	
CDH 5	2	
CLABS_PHOENIX	1	
FAST_DATA_KAFKA_CONFLUENT...	1	
IMPALA	1	
KAFKA	1	
KUDU	1	
SOLR	1	

Parcel Name	Version	Status	Actions
	5.15.0-1.cdh5.15.0.p0.21	Distributed, Activated	Deactivate
CDH 4	4.7.1-1.cdh4.7.1.p0.47	Unavailable	
Error for parcel CDH-4.7.1-1.cdh4.7.1.p0.47-el7: Parcel not available for OS Distribution RHEL7.			
CLABS_PHOENIX	4.7.0-1.clabs_phoenix1.3.0.p0.000	Available Remotely	Download
FAST_DATA_KAFKA_CONFLUENT	4.0.1-oss-release-0	Distributed	Activate ▾

6. Once the parcel is there, click on **Download** then **Distribute** and at last **Activate**, as they appear on the right side of it.

Error for parcel CDH-4.7.1-1.cdh4.7.1.p0.47-el7: Parcel not available for OS Distribution RHEL7.

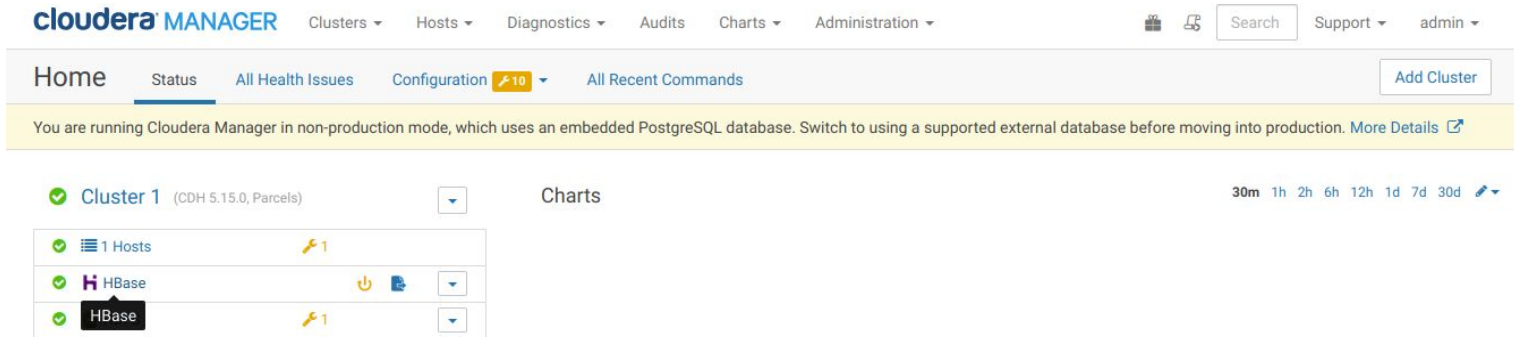
CLABS_PHOENIX	4.7.0-1.clabs_phoenix1.3.0.p0.000	Available Remotely	Download
FAST_DATA_KAFKA_CONFLUENT	4.0.1-oss-release-0	Distributed	Activate ▾
CLABS_PHOENIX	4.7.0-1.clabs_phoenix1.3.0.p0.000	Downloaded	Distribute ▾
FAST_DATA_KAFKA_CONFLUENT	4.0.1-oss-release-0	Distributed	Activate ▾
CLABS_PHOENIX	4.7.0-1.clabs_phoenix1.3.0.p0.000	Distributed	Activate ▾
FAST_DATA_KAFKA_CONFLUENT	4.0.1-oss-release-0	Distributed	Activate ▾

Download this product to the local repository

ui.parcel.distribute.tooltip

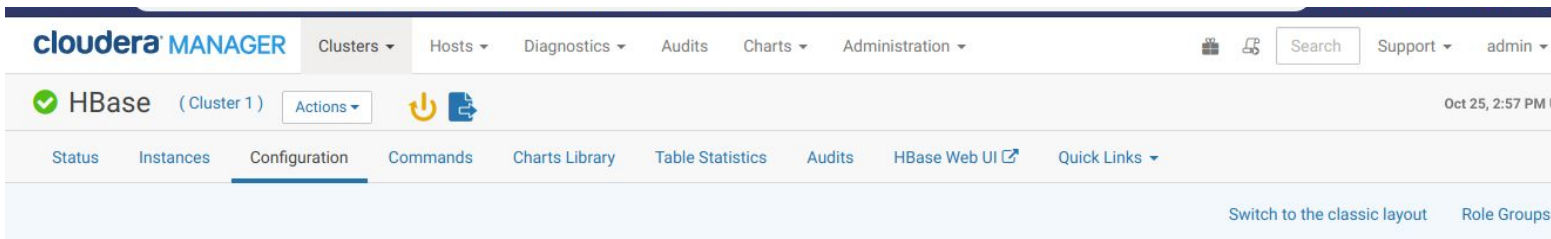
Activate this product for this cluster

7. Now, to enable, secondary indexing, add the following property to the hbase-site.xml advanced configuration snippet. For that Go to the first go to **Cloudera Manager** dashboard and click on **HBase** from the services



The screenshot shows the Cloudera Manager dashboard. The top navigation bar includes 'clusters', 'Hosts', 'Diagnostics', 'Audits', 'Charts', and 'Administration'. The main content area shows 'Cluster 1' (CDH 5.15.0, Parcels) with a list of services: '1 Hosts', 'HBase', and 'HBase'. The 'HBase' service is highlighted.

8. Now from HBase services, click Configuration, from the top menu bar.



The screenshot shows the Cloudera Manager HBase configuration page. The top navigation bar includes 'clusters', 'Hosts', 'Diagnostics', 'Audits', 'Charts', and 'Administration'. The main content area shows the 'HBase' service with a list of tabs: 'Status', 'Instances', 'Configuration', 'Commands', 'Charts Library', 'Table Statistics', 'Audits', 'HBase Web UI', and 'Quick Links'. The 'Configuration' tab is selected.

9. Now in the search bar, paste the following file name.

HBase Service Advanced Configuration Snippet (Safety Valve) for hbase-site.xml

10. Once it is search result are appeared click on **View as xml** and paste the following property to it. As shown below.

```
<property>
  <name>hbase.regionserver.wal.codec</name>
  <value>org.apache.hadoop.hbase.regionserver.wal.IndexedWALEditCodec</value>
</property>
```



cloudera MANAGER Clusters Hosts Diagnostics Audits Charts Administration

✓ HBase (Cluster 1) Actions Oct 25, 2:58 PM UTC

Status Instances Configuration Commands Charts Library Table Statistics Audits HBase Web UI Quick Links

HBase Service Advanced Configuration Snippet (Safety Valve) for hbase-site.xml

Switch to the classic layout Role Groups

Filters

SCOPE

HBase (Service-Wide)	1
Gateway	0
HBase REST Server	0
HBase Thrift Server	0
Master	0
RegionServer	0

CATEGORY

Advanced	1
Backup	0
Logs	0
Main	0
Metrics	0
Monitoring	0

HBase Service Advanced Configuration Snippet (Safety Valve) for hbase-site.xml

HBase (Service-Wide)

View Editor

```
<property>
  <name>hbase.regionserver.wal.codec</name>
  <value>org.apache.hadoop.hbase.regionserver.wal.IndexedWALEditCodec</value>
</property>
```

25 Per Page

1 Edited Value Reason for change...

Save Changes

11. Now click on **Save Changes**.

12. Now Click on **Stale Configuration**.

✓ HBase (Cluster 1) Actions Oct 25, 2:59 PM UTC

Status Instances Configuration Commands Charts Library Table Statistics Audits HBase Web UI Quick Links

HBase Service Advanced Configuration Snippet (Safety Valve) for hbase-site.xml

Switch to the classic layout Role Groups

Filters

SCOPE

Stale Configuration: Client configuration redeployment needed

HBase Service Advanced Configuration Snippet (Safety Valve) for hbase-site.xml

HBase (Service-Wide)

View Editor

```
<property>
  <name>hbase.regionserver.wal.codec</name>
  <value>org.apache.hadoop.hbase.regionserver.wal.IndexedWALEditCodec</value>
</property>
```

13. Click on **Restart Services > Restart Now** and then **Finish**.

Filters Clear All

FILE

File: hbase-site.xml	2
Parcels	1

SERVICE Clear

HBase	3
-------	---

ROLE TYPE

Master	2
--------	---

File: hbase-site.xml hbase(1) Show

```
... .. -161,6 +161,10 @@
161 161 <property>
162 162   <name>hbase.zookeeper.property.clientPort</name>
163 163   <value>2181</value>
164 164 </property>
165 165 + <property>
166 166 +   <name>hbase.regionserver.wal.codec</name>
167 167 +   <value>org.apache.hadoop.hbase.regionserver.wal.IndexedWALEditCodec</value>
168 168 + </property>
169 169 </configuration>
170 170
```

File: hbase-site.xml hbase(1) Show

```
... .. -273,6 +273,10 @@
273 273 <property>
274 274   <name>hbase.regionserver.wal.codec</name>
275 275   <value>org.apache.hadoop.hbase.regionserver.wal.IndexedWALEditCodec</value>
276 276 </property>
277 277 </configuration>
```



Restart Stale Services

Review Changes

All services running with outdated configurations in the cluster and their dependencies will be restarted.

☒ Re-deploy client configuration

Back

1 2

Restart Now

All requested services successfully restarted.

Completed 2 of 2 step(s).

☒ Show All Steps ☐ Show Only Failed Steps ☐ Show Running Steps

Execute global command Wait for configuration staleness computation	Oct 25, 2:59:46 PM	163ms
Execute command Restart on cluster Cluster 1	Oct 25, 2:59:47 PM	4.6m

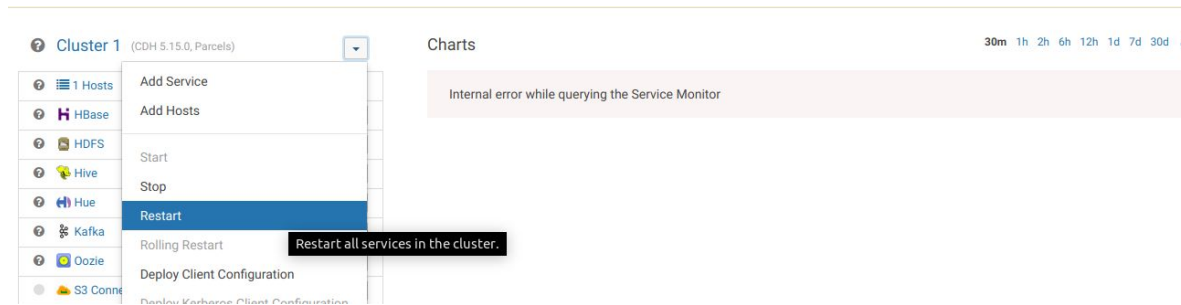
Back

1 2

Finish

13. Now Restart first **Cloudera Manager** and then **Cluster Services**.

The screenshot shows the Cloudera Manager interface. On the left, a sidebar lists various services. A context menu is open for 'Cloudera Management Service Actions', with the 'Restart' option highlighted. A tooltip 'Restart a service' is displayed over the 'Restart' button. The main panel displays four performance graphs: HDFS IO (showing read and write rates), Cluster Network IO (showing receive and transmit rates), Cluster Disk IO (showing read and write rates), and Cluster CPU (showing usage percentage).



14. **Suppress** the warnings if any. Nad Restart again Unit all services shows a green tick.

15. Our Phoenix set up is complete, now go to ec2 instance/ Putty terminal and run the following command to open Phoenix shell.

```
phoenix-sqlline.py localhost:2181
```

```
[ec2-user@ip-172-31-91-254 ~]$ phoenix-sqlline.py localhost:2181
Setting property: [incremental, false]
Setting property: [isolation, TRANSACTION_READ_COMMITTED]
Issuing: !connect jdbc:phoenix:localhost:2181 none none org.apache.phoenix.jdbc.PhoenixDriver
Connecting to jdbc:phoenix:localhost:2181
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/opt/cloudera/parcels/CLABS_PHOENIX-4.7.0-1.clabs_phoenix1.3.0.p0.000/lib/phoenix/phoenix-4.7.0-clabs-phoenix1.3.0-client.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/opt/cloudera/parcels/CDH-5.15.0-1.cdhs.15.0.p0.21/jars/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
18/10/25 16:03:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/10/25 16:03:17 WARN impl.MetricsConfig: Cannot locate configuration: tried hadoop-metrics2-phoenix.properties,hadoop-metrics2.properties
Connected to: Phoenix (version 4.7)
Driver: PhoenixEmbeddedDriver (version 4.7)
Autocommit status: true
Transaction isolation: TRANSACTION_READ_COMMITTED
Building list of tables and columns for tab-completion (set fastconnect to true to skip)...
86/86 (100%) Done
Done
sqlline version 1.1.8
0: jdbc:phoenix:localhost:2181> 
```