



## HBase

Its key-value based and column oriented.

<https://hbase.apache.org/> [<https://hbase.apache.org/>]

Example from <http://gethue.com/hadoop-tutorial-how-to-create-example-tables-in-hbase/> [<http://gethue.com/hadoop-tutorial-how-to-create-example-tables-in-hbase/>]

Configuration for Distributed Mode:

```
mkdir /usr/hbase_storage/
```

```
chown -R hadoop:hadoop /usr/hbase_storage/
```

Download and extract hbase as /opt/hbase

<http://mirror.fibergrid.in/apache/hbase/stable/hbase-1.2.5-bin.tar.gz> [<http://mirror.fibergrid.in/apache/hbase/stable/hbase-1.2.5-bin.tar.gz>]

```
tar xvzf hbase-1.2.5-bin.tar.gz --directory=/opt
```

```
chown -R hadoop:hadoop /opt/hbase*
```

```
ln -s /opt/hbase-1.2.5 /opt/hbase
```

```
/opt/hbase/conf/hbase-site.xml
```

```
<configuration>
<property>
  <name>hbase.cluster.distributed</name>
  <value>true</value>
</property>

<property>
  <name>hbase.rootdir</name>
  <value>hdfs://hadoop-master:9000/hbase</value>
</property>

<property>
  <name>hbase.zookeeper.quorum</name>
  <value>hadoop-master,hadoop-slave16,hadoop-slave17,hadoop-slave18</value>
</property>

<property>
  <name>hbase.zookeeper.property.dataDir</name>
  <value>/usr/hbase_storage/zookeeper</value>
</property>
</configuration>
```

create hbase folder in hdfs - change url accordingly.

```
hadoop dfs -mkdir hdfs://hadoop-master:9000/hbase
```

```
/opt/hbase/conf/hbase-env.sh
```

```
export JAVA_HOME=/opt/jdk1.8.0_121
```

```
*Backup Master*
```

```
vi /opt/hbase/conf/backup-masters
```

```
hadoop-slave16
```

```
*RegionServers*
```

```
vi /opt/hbase/conf/regionserver
```

```
hadoop-slave16
```

```
hadoop-slave17
```

```
hadoop-slave18
```

All cluster-participating nodes need to have same all configuration files.

See at <http://hadoop-master:16010/master-status> [<http://hadoop-master:16010/master-status>]