

Pre-Requisite:

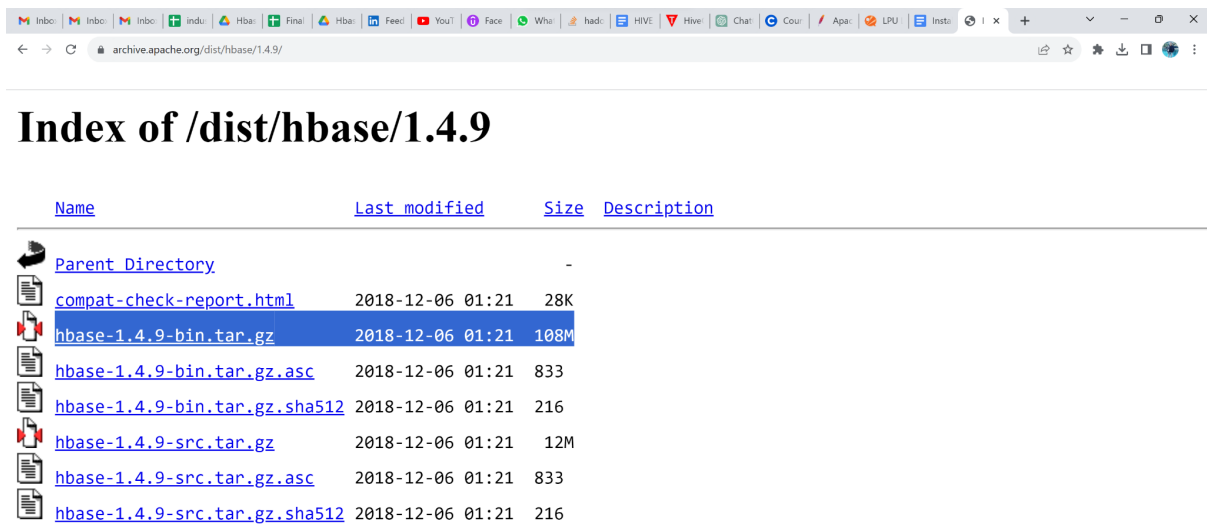
We are going to make a standalone setup of HBase in our machine which requires

Java JDK 1.8 - Download from this link [JAVA JDK](#). Install and set JAVA_HOME in environment variable.

HBase - Apache HBase can be downloaded from this [link](#)

For 1.4.9 version: — [compatible with windows 11](#)

<https://archive.apache.org/dist/hbase/1.4.9/>



Name	Last modified	Size	Description
Parent Directory	-	-	-
compat-check-report.html	2018-12-06 01:21	28K	
hbase-1.4.9-bin.tar.gz	2018-12-06 01:21	108M	
hbase-1.4.9-bin.tar.gz.asc	2018-12-06 01:21	833	
hbase-1.4.9-bin.tar.gz.sha512	2018-12-06 01:21	216	
hbase-1.4.9-src.tar.gz	2018-12-06 01:21	12M	
hbase-1.4.9-src.tar.gz.asc	2018-12-06 01:21	833	
hbase-1.4.9-src.tar.gz.sha512	2018-12-06 01:21	216	



For 2.4.9 version

<https://archive.apache.org/dist/hbase/2.4.9/>

For 2.5.5 version

<https://www.apache.org/dyn/closer.lua/hbase/2.5.5/hbase-2.5.5-bin.tar.gz>

HBase Installation Steps:

Step 1:

Unzip the downloaded Hbase and place it in some common path, say `C:\hbase\hbase-1.4.9`

Step 2:

Create a folders as shown below inside root folder for HBase data and zookeeper

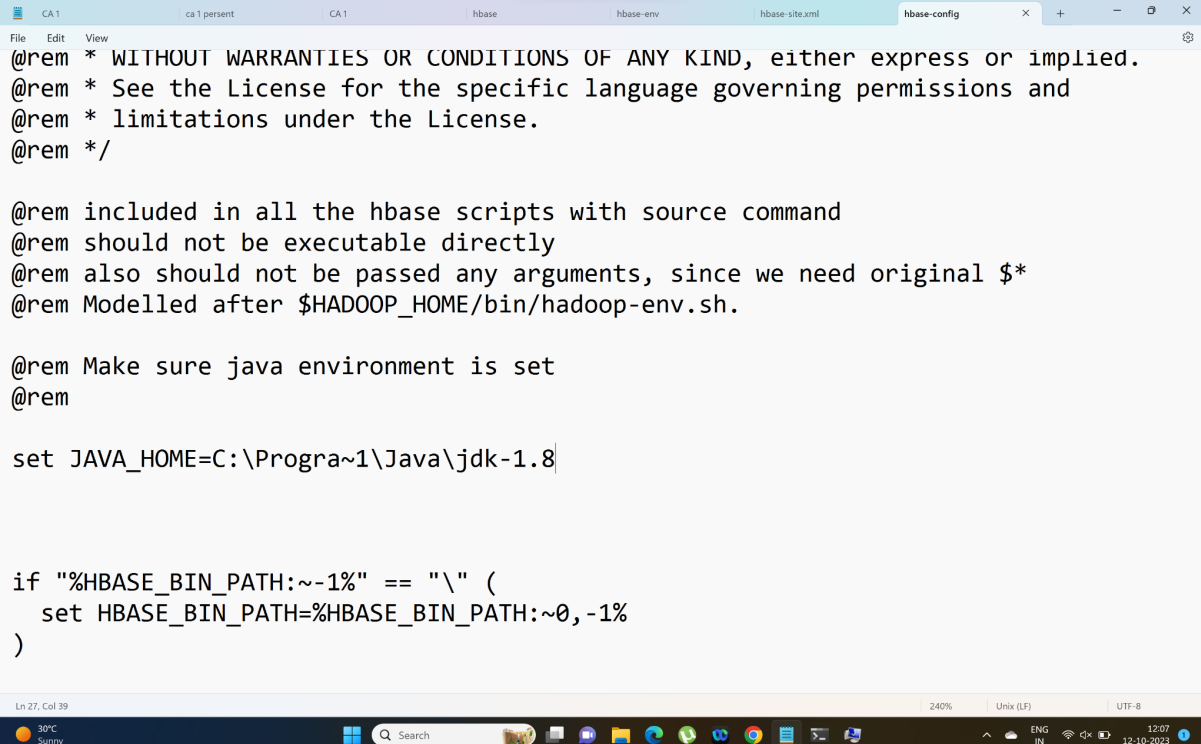
-> `C:\hbase\hbase-1.4.9\hbase`

-> `C:\hbase\hbase-1.4.9\zookeeper`

In bin folder

Set java home in hbase-config file

set `JAVA_HOME=C:\Progra~1\Java\jdk-1.8`



```
@rem * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
@rem * See the License for the specific language governing permissions and
@rem * limitations under the License.
@rem */

@rem included in all the hbase scripts with source command
@rem should not be executable directly
@rem also should not be passed any arguments, since we need original $*
@rem Modelled after $HADOOP_HOME/bin/hadoop-env.sh.

@rem Make sure java environment is set
@rem

set JAVA_HOME=C:\Progra~1\Java\jdk-1.8

if "%HBASE_BIN_PATH:~-1%" == "\" (
    set HBASE_BIN_PATH=%HBASE_BIN_PATH:~0,-1%
)
```

Step 3:

Open `C:\hbase\hbase-1.4.9\bin\hbase.cmd` in notepad++. Search for below given lines and remove `%HEAP_SETTINGS%` from that line.

```
set java_arguments=%HEAP_SETTINGS% %HBASE_OPTS% -classpath "%CLASSPATH%"
%CLASS% %hbase-command-arguments%
```

Step 4:

Open C:/Document/hbase-1.4.9/conf/hbase-env.cmd n notepad++. Add the below lines to the file after the comment session

```
set JAVA_HOME=%JAVA_HOME%
set HBASE_CLASSPATH=%HBASE_HOME%\lib\client-facing-thirdparty\*
set HBASE_HEAPSIZE=8000
set HBASE_OPTS="-XX:+UseConcMarkSweepGC" "-Djava.net.preferIPv4Stack=true"
set SERVER_GC_OPTS="-verbose:gc" "-XX:+PrintGCDetails" "-XX:+PrintGCDateStamps"
%HBASE_GC_OPTS%
set HBASE_USE_GC_LOGFILE=true

set HBASE_JMX_BASE="-Dcom.sun.management.jmxremote.ssl=false"
"-Dcom.sun.management.jmxremote.authenticate=false"

set HBASE_MASTER_OPTS=%HBASE_JMX_BASE%
"-Dcom.sun.management.jmxremote.port=10101"
set HBASE_REGIONSERVER_OPTS=%HBASE_JMX_BASE%
"-Dcom.sun.management.jmxremote.port=10102"
set HBASE_THRIFT_OPTS=%HBASE_JMX_BASE%
"-Dcom.sun.management.jmxremote.port=10103"
set HBASE_ZOOKEEPER_OPTS=%HBASE_JMX_BASE%
"-Dcom.sun.management.jmxremote.port=10104"
set HBASE_REGIONSERVERS=%HBASE_HOME%\conf\regionserver
set HBASE_LOG_DIR=%HBASE_HOME%\logs
set HBASE_IDENT_STRING=%USERNAME%
set HBASE_MANAGES_ZK=true
```

Step 5:

Open C:\hbase\hbase-1.4.9\conf\hbase-site.xml notepad++. Add the below lines inside <configuration> tag.

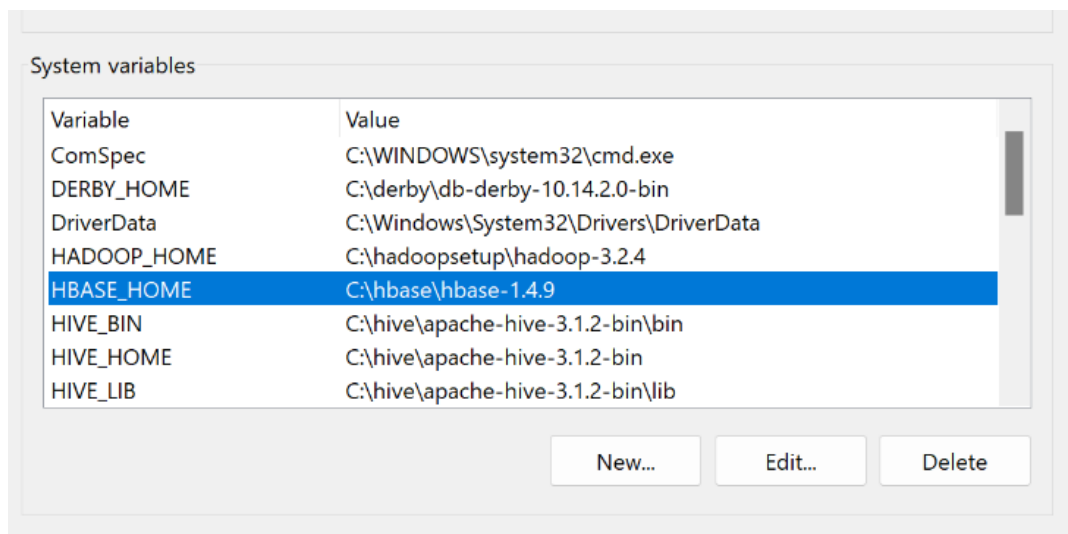
```
<property>
  <name>hbase.rootdir</name>
  <value>file:///C:\hbase\hbase-1.4.9\hbase</value>
</property>
<property>
  <name>hbase.zookeeper.property.dataDir</name>
  <value>C:\hbase\hbase-1.4.9\zookeeper</value>
</property>
<property>
```

```
<name> hbase.zookeeper.quorum</name>  
<value>localhost</value>  
</property>
```

Step 6:

Setup the Environment variable for **HBASE_HOME** and add bin to the path variable as shown in the below image.

HBASE_HOME C:\hbase\hbase-1.4.9



Add hbase bin path into PATH

Edit environment variable

C:\Program Files (x86)\Common Files\Oracle\Java\javapath
C:\oracle\app\oracle\product\10.2.0\server\bin
%SystemRoot%\system32
%SystemRoot%
%SystemRoot%\System32\Wbem
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\
%SYSTEMROOT%\System32\OpenSSH\
%HADOOP_HOME%\bin
%JAVA_HOME%\bin
C:\Program Files\Docker\Docker\resources\bin
%DERBY_HOME%\bin
%HIVE_HOME%\bin
%HIVE_HOME%\lib
C:\hbase\hbase-1.4.9\bin
C:\hbase\hbase-1.4.9\lib

We are done with the Setup for HBase on Windows 11 and to verify the setup follow the video and also try creating a table inside **hbase shell**. Hope you made a complete standalone setup of HBase in windows machine successfully.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.

C:\hbase\hbase-1.4.9\bin>start-hbase.cmd

C:\hbase\hbase-1.4.9\bin>hbase version
HBase 1.4.9
Source code repository git://apurtell-ltm4.internal.salesforce.com/Users/apurtell/src/hbase revision=d625b212e46d01cb17db9ac2e9e927fdb201afaf1
Compiled by apurtell on Wed Dec 5 11:54:10 PST 2018
From source with checksum a7716fc1849b07ea6dd830a08291e754

C:\hbase\hbase-1.4.9\bin>jps
1652 Jps
18164 HMaster

C:\hbase\hbase-1.4.9\bin>hbase shell
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/C:/hbase/hbase-1.4.9/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/C:/hadoopsetup/hadoop-3.2.4/share/hadoop/common/lib/slf4j-reload4j-1.7.35.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]
HBase Shell
Use "help" to get list of supported commands.
Use "exit" to quit this interactive shell.
Version 1.4.9, rd625b212e46d01cb17db9ac2e9e927fdb201afaf1, Wed Dec 5 11:54:10 PST 2018

hbase(main):001:0> status
1 active master, 0 backup masters, 1 servers, 0 dead, 2.0000 average load

hbase(main):002:0> create 'emp','p'
0 row(s) in 1.6580 seconds

=> Hbase::Table - emp
hbase(main):003:0> list
TABLE
emp
1 row(s) in 0.0330 seconds

=> ["emp"]
hbase(main):004:0> |
```

— Start the hive
start-hbase.cmd

—Check commands

hbase version

hbase shell

create 'demo1'

list