

Largely modified from http://www.ics.uci.edu/~shantas/Install_Spark_on_Windows10.pdf

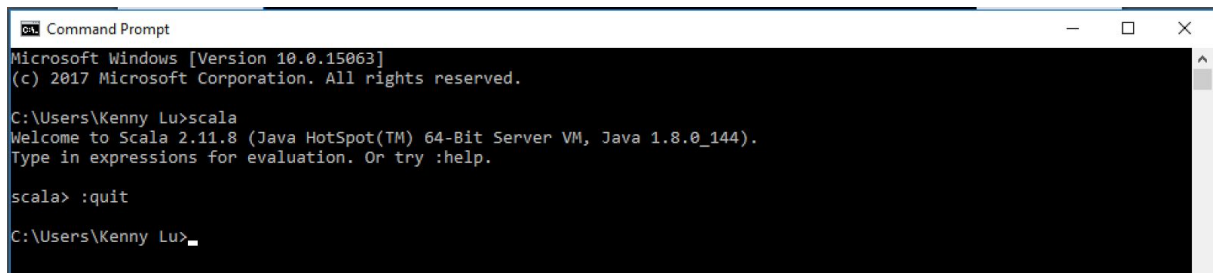
Installing Spark on Windows 10 without Hadoop

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1. Install Scala: Download Scala from the link:
<http://downloads.lightbend.com/scala/2.11.8/scala-2.11.8.msi>
 - a. Set environmental variables:
 - i. User variable:
 1. Variable: SCALA_HOME;
 2. Value: C:\Program Files (x86)\scala
 - ii. System variable:
 1. Variable: PATH
 2. **Add** Value: C:\Program Files (x86)\scala\bin
 - b. Check it on cmd, see below.



```
Command Prompt
Microsoft Windows [Version 10.0.15063]
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C:\Users\Kenny Lu>scala
Welcome to Scala 2.11.8 (Java HotSpot(TM) 64-Bit Server VM, Java 1.8.0_144).
Type in expressions for evaluation. Or try :help.

scala> :quit

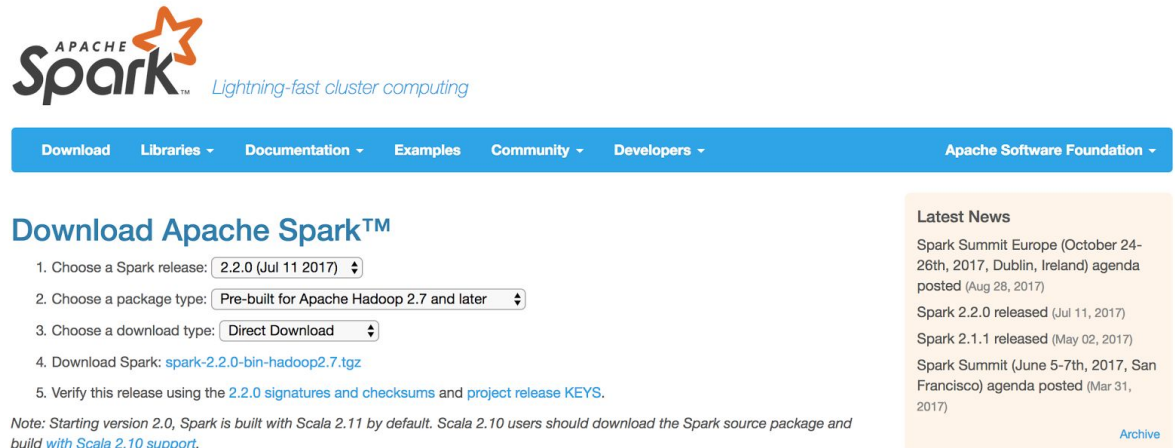
C:\Users\Kenny Lu>
```

- 2.
3. Install Java 8:
 - a. Download Java 8 from the link:
<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
 - b. Set environmental variables:
 - i. User variable:
 1. Variable: JAVA_HOME
 2. Value: C:\Program Files\Java\jdk1.8.0_144
 - ii. System variable:
 1. Variable: PATH
 2. Value: C:\Program Files\Java\jdk1.8.0_144\bin
 - c. Check on cmd, see below:

```
C:\Users\Kenny Lu>java -version
java version "1.8.0_144"
Java(TM) SE Runtime Environment (build 1.8.0_144-b01)
Java HotSpot(TM) 64-Bit Server VM (build 25.144-b01, mixed mode)

C:\Users\Kenny Lu>
```

4. Install Spark 2.2.0. Download it from the following link:
<http://spark.apache.org/downloads.html> and extract it into C drive, such as C:\spark.



Download Apache Spark™

- Choose a Spark release:
- Choose a package type:
- Choose a download type:
- Download Spark: [spark-2.2.0-bin-hadoop2.7.tgz](#)
- Verify this release using the [2.2.0 signatures and checksums](#) and [project release KEYS](#).

Note: Starting version 2.0, Spark is built with Scala 2.11 by default. Scala 2.10 users should download the Spark source package and build with Scala 2.10 support.

Latest News

- Spark Summit Europe (October 24-26th, 2017, Dublin, Ireland) agenda posted (Aug 28, 2017)
- Spark 2.2.0 released (Jul 11, 2017)
- Spark 2.1.1 released (May 02, 2017)
- Spark Summit (June 5-7th, 2017, San Francisco) agenda posted (Mar 31, 2017)

[Archive](#)

- a. Set environmental variables:
 - i. User variable:
 - Variable: SPARK_HOME
 - Value: C:\spark\spark-2.2.0-bin-hadoop2.7
 - Variable: HADOOP_HOME
 - Value: C:\spark\spark-2.2.0-bin-hadoop2.7 (note this is to fake the system with hadoop installed)
 - ii. System variable:
 - Variable: PATH
 - Add** Value: C:\spark\spark-2.2.0-bin-hadoop2.7\bin
- b. Download Windows Utilities:
 - i. Download it from the link:
<https://github.com/steveloughran/winutils/blob/master/hadoop-2.6.0/bin/winutils.exe>
 - ii. And paste it in C:\spark\spark-2.2.0-bin-hadoop2.7\bin
 - iii. Run the following in cmd.exe
 - mkdir C:\tmp\hive
 - C:\spark\spark-2.2.0-bin-hadoop2.7\bin\winutils chmod 777 c:\tmp\hive
- c. Test spark

5. Install sbt via the msi file from

<http://www.scala-sbt.org/0.13/docs/Installing-sbt-on-Windows.html>

a. Test

```
Command Prompt - sbt
C:\Program Files (x86)\sbt\lib\local-preloaded\org.scalamacros\quasiquotes_2.10\2.0.1\ja
rs\
0 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\
0 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\jawn-parser_2.10\
0 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\jawn-parser_2.10\0.6.0\
3 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\jawn-parser_2.10\0.6.0\ivy
s\
3 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\jawn-parser_2.10\0.6.0\jar
s\
0 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\json4s-support_2.10\
0 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\json4s-support_2.10\0.6.0\
3 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\json4s-support_2.10\0.6.0\
ivys\
3 C:\Program Files (x86)\sbt\lib\local-preloaded\org.spire-math\json4s-support_2.10\0.6.0\
jars\

-----
      Total   Copied   Skipped   Mismatch   FAILED   Extras
Dirs  :      257         0       257         0         0
Files :      376         0       376         0         0
Bytes :    62.23 m         0    62.23 m         0         0
Times :   0:00:01   0:00:00                   0:00:00   0:00:01
Ended : Wednesday, September 20, 2017 9:55:49 PM

Java HotSpot(TM) 64-Bit Server VM warning: ignoring option MaxPermSize=256m; support was removed in 8.0
[info] Loading project definition from C:\Users\Kenny Lu\project
[info] Set current project to kenny-lu (in build file:/C:/Users/Kenny%20Lu/)
>
```