

Software Hardware List

Chapter number	Software required (With version)	Free/Proprietary	If proprietary, can code testing be performed using a trial version	If proprietary, then cost of the software	Download links to the software	Hardware specifications	OS required
1-8	Scala 2.12.6	Free	NA	NA	http://www.scala-lang.org/download/all.html	Any	Ubuntu - Linux
1-8	Python 3.6	Free	NA	NA	https://www.python.org/downloads/	Any	Ubuntu - Linux
1-8	Java 8	Free	NA	NA	https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html	Any	Ubuntu - Linux
1-8	Apache Spark 2.3.1	Free	NA	NA	https://spark.apache.org/downloads.html	Any	Ubuntu - Linux

1. Java 8:

1. `sudo add-apt-repository ppa:webupd8team/java -y`
2. `sudo apt install java-common oracle-java8-installer oracle-java8-set- default`

2. Scala 2.12.6

1. Download .tar.gz file from <http://www.scala-lang.org/download/all.html>
2. `cd /opt`

3. `tar -xzvf scala-2.12.6.tgz`

4. `export SCALA_HOME=/opt/scala-2.12.6`
`export PATH=$PATH:$SCALA_HOME/bin`

3. Python 3.6

1. `sudo apt-get update`
2. `sudo apt-get install python3.6`

4. Spark 2.3.1

1. Download .tar.gz file from
<http://spark.apache.org/downloads.html>
2. `cd /opt`
3. Untar file using command: `tar -xzvf spark-2.3.1-bin-hadoop2.7.tgz`
4. `export SPARK_HOME=/opt/spark-2.3.1-bin-hadoop2.7`
`export PATH=$PATH:$SPARK_HOME/sbin`
`export PATH=$PATH:$SPARK_HOME/bin`