

Installation of Scala 2.12.2 and Spark 2.1.0 for hadoop 2.6.0

```
$java -version
```

If Java is already installed on your system, you get to see the following response –

```
java version "1.8.0_71"  
Java(TM) SE Runtime Environment (build 1.7.0_71-b13)  
Java HotSpot(TM) Client VM (build 25.0-b02, mixed mode)
```

In case you do not have Java installed on your system, then Install Java before proceeding to next step.

Scala Installation

```
su hduser
```

```
cd ~
```

```
sudo apt-get update
```

```
sudo apt-get install scala
```

Verifying Scala Installation

After installation, it is better to verify it. Use the following command for verifying Scala installation.

```
$scala -version
```

If Scala is already installed on your system, you get to see the following response –

```
Scala code runner version 2.11.6 -- Copyright 2002-2013, LAMP/EPFL
```

Download Spark

```
cd ~
```

```
wget
```

```
http://archive.apache.org/dist/spark/spark-2.1.0/spark-2.1.0-bin-hadoop2.6.tgz
```

```
$ tar -xvzf spark-2.1.0-bin-hadoop2.6.tgz
```

```
sudo mv spark-2.1.0-bin-hadoop2.6 spark
```

```
sudo mv spark /usr/local/
```

```
nano ~/.bashrc  
export PATH=$PATH:/usr/local/spark/bin  
source ~/.bashrc
```

Verifying the Spark Installation

Write the following command for opening Spark shell.

```
$spark-shell
```

If spark is installed successfully then you will find the following output.

```
Spark assembly has been built with Hive, including Datanucleus jars on classpath  
Using Spark's default log4j profile: org/apache/spark/log4j-defaults.properties  
15/06/04 15:25:22 INFO SecurityManager: Changing view acls to: hadoop  
15/06/04 15:25:22 INFO SecurityManager: Changing modify acls to: hadoop  
15/06/04 15:25:22 INFO SecurityManager: SecurityManager: authentication disabled;  
    ui acls disabled; users with view permissions: Set(hadoop); users with modify  
permissions: Set(hadoop)  
15/06/04 15:25:22 INFO HttpServer: Starting HTTP Server  
15/06/04 15:25:23 INFO Utils: Successfully started service 'HTTP class server' on port  
43292.
```

Welcome to

The Spark logo is a stylized representation of a lightning bolt, composed of several interconnected 'V' and 'X' shapes. It is followed by the text 'version 2.1.0'.

```
Using Scala version 2.10.4 (Java HotSpot(TM) 64-Bit Server VM, Java 1.7.0_71)  
Type in expressions to have them evaluated.  
Spark context available as sc  
scala>
```

```
web UI => localhost:4040
```