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INSTALL APACHE SPARK ON LINUX

By HadoopExam Learning Resources

Note: These instructions should be used with the HadoopExam: Professional Trainings. Where it is executed and you can do hands on with trainer.

Module: Install Apache Spark

- Install Apache Spark
- Start spark-shell
- Start pyspark

Step-1 : Install the required basic software on Linux.

```
sudo apt-get install python-software-properties
sudo apt-add-repository ppa:webupd8team/java
sudo apt-get update

-Install Java8

sudo apt-get install oracle-java8-installer

#Check java version
java -version
```

Step-2 Vi editor settings

```
sudo apt-get install vim

vim ~/.vimrc
set nocompatible
```

Step-3: Install Scala

As we can see: #Spark runs on Java 8+, Python 2.7+/3.4+ and R 3.1+. For the Scala API, Spark 2.3.0 uses Scala 2.11. You will need to use a compatible Scala version (2.11.x).

Scala version → 2.11

```
mkdir scala
cd scala/
wget https://downloads.lightbend.com/scala/2.11.12/scala-2.11.12.tgz

sudo tar xvf scala-2.11.12.tgz

#Update bashrc file
vi ~/.bashrc

export SCALA_HOME=/home/hadoopexam/scala/scala-2.11.12

export PATH=$PATH:$SCALA_HOME/bin

source ~/.bashrc

scala -version
```

Step 4 : Install Python for pyspark (2.7.6 is already there)

```
python
```

Step 5 : Install Apache Spark

Install Spark single Node

```
mkdir spark2
cd spark2
```

(Below link may change, keep checking here for exact URL:

<https://spark.apache.org/downloads.html>

```
wget http://www-eu.apache.org/dist/spark/spark-2.3.1/spark-2.3.1-bin-hadoop2.7.tgz
```

```
tar xvf spark-2.3.1-bin-hadoop2.7.tgz
```

```
mv spark-2.3.1-bin-hadoop2.7 spark23
```

```
vi ~/.bashrc
```

```
export SPARK_HOME=/home/hadoopexam/spark2/spark23
```

```
export PATH=$PATH:$SPARK_HOME/bin
```

Step 6: Start Spark

```
source ~/.bashrc
```

```
/home/hadoopexam/spark2/spark23/sbin/start-master.sh
```

Check the Spark UI

<http://localhost:8080>

<http://192.168.1.10:8080/>

Step 7 : Start worker node

```
/home/hadoopexam/spark2/spark23/sbin/start-slave.sh spark://ubuntu:7077
```

```
ps -aef | grep -i "Spark"
```

```
jps
```

Step 8 : Run Spark Example

```
cd /home/hadoopexam/spark2/spark23
```

```
./bin/run-example SparkPi 10
```

Step 9 : Start the spark-shell and pyspark shell.

```
spark-shell
```

```
pyspark
```

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