## **Java Installation**

Before Sqoop installation – version 1.4.5 on Linux, at very first we need to have [**Java**](https://data-flair.training/blogs/java-tutorial/)installed on our system.

In order to [**install Java**](https://data-flair.training/blogs/install-java-8-on-ubuntu/) on our system, we need to follow various steps given below.

**Step 1**

By visiting the following link, [**download Java**](http://www.oracle.com/technetwork/java/javase/downloads/index.html) (JDK <latest version> – X64.tar.gz).

Hence, jdk-7u71-linux-x64.tar.gz will be downloaded on our system.

**Step 2**

Basically, we find the downloaded Java file in the downloads folder. So, by using the following commands verify it and extract the jdk-7u71-linux-x64.gz file.

$ cd Downloads/

$ ls

jdk-7u71-linux-x64.gz

$ tar zxf jdk-7u71-linux-x64.gz

$ ls

jdk1.7.0\_71 jdk-7u71-linux-x64.gz

**Step 3**

Then, we have to move it to the location “/usr/local/”, to make Java available to all the users. So, open root, and type the following commands.

$ su

password:

# mv jdk1.7.0\_71 /usr/local/java

# exitStep IV:

**Step 4**

Afterward, add the following commands to ~/.bashrc file in order to set up PATH and JAVA\_HOME variables.

export JAVA\_HOME=/usr/local/java

export PATH=$PATH:$JAVA\_HOME/bin

Now apply all the changes to the current running system.

$ source ~/.bashrc

**Step 5**

Now to configure Java alternatives use the following commands

# alternatives –install /usr/bin/java java usr/local/java/bin/java 2

# alternatives –install /usr/bin/javac javac usr/local/java/bin/javac 2

# alternatives –install /usr/bin/jar jar usr/local/java/bin/jar 2

# alternatives –set java usr/local/java/bin/java

# alternatives –set javac usr/local/java/bin/javac

# alternatives –set jar usr/local/java/bin/jar

So, by using the following command, let’s verify Java installation.

$ java –version

However, we get to see the following response, if Java is already installed on your system

java version “1.7.0\_71”

Java(TM) SE Runtime Environment (build 1.7.0\_71-b13)

Java HotSpot(TM) Client VM (build 25.0-b02, mixed mode)

## **Hadoop Installation**

It is very important that before Sqoop installation, Hadoop is installed on our system.Follow these steps if Hadoop is not installed on your system:

**a. Download Hadoop**

By using the following commands, download and extract Hadoop 2.4.1 from Apache Software Foundation.

$ su

password:

# cd /usr/local

# wget http://apache.claz.org/hadoop/common/hadoop-2.4.1/

hadoop-2.4.1.tar.gz

# tar xzf hadoop-2.4.1.tar.gz

# mv hadoop-2.4.1/\* to hadoop/

# exit

So, let’s verify the Hadoop installation by using following commands

$ hadoop version

We will get the following response if [**Hadoop**](https://data-flair.training/blogs/install-hadoop-1-x-on-multi-node-cluster/) is already installed on your system

Hadoop 2.4.1

—

Subversion https://svn.apache.org/repos/asf/hadoop/common -r 1529768

Compiled by hortonmu on 2013-10-07T06:28Z

Compiled with protoc 2.5.0

From source with checksum 79e53ce7994d1628b240f09af91e1af4

Hence, in this way, we can download Hadoop.

## **Sqoop Download – Sqoop Installation**

Basically, we can download the latest version of Sqoop from here**: [Download sqoop](http://archive.apache.org/dist/sqoop/1.4.5/)**

For this Sqoop Installation tutorial, we are using version 1.4.5, that is,

sqoop-1.4.5.bin\_\_hadoop-2.0.4-alpha.tar.gz.

### **Step 1- Sqoop Installation**

However, to extract the Sqoop tarball and move it to “/usr/lib/sqoop” directory we use the following command.

$tar -xvf sqoop-1.4.4.bin\_\_hadoop-2.0.4-alpha.tar.gz

$ su

password:

# mv sqoop-1.4.4.bin\_\_hadoop-2.0.4-alpha /usr/lib/sqoop

#exit

### **Step 2- Configuring bashrc**

Also, by appending the following lines to ~/.bashrc file we have to set up the **[Sqoop environment](https://data-flair.training/blogs/sqoop-architecture-and-working/)**

#Sqoop

export SQOOP\_HOME=/usr/lib/sqoop export PATH=$PATH:$SQOOP\_HOME/bin

Now, to execute ~/.bashrc file we use the following command.

$ source ~/.bashrc

### **Step 3: Configuring Sqoop**

While, we need to edit the sqoop-env.sh file, that is placed in the $SQOOP\_HOME/conf directory, in order to configure [**Sqoop**](https://data-flair.training/blogs/features-of-sqoop/) with [**Hadoop**](https://data-flair.training/blogs/hadoop-features-and-design-principles/). Now, using the following command redirect to Sqoop config directory and copy the template file

$ cd $SQOOP\_HOME/conf

$ mv sqoop-env-template.sh sqoop-env.sh

Also, open sqoop-env.sh and edit the following lines

export HADOOP\_COMMON\_HOME=/usr/local/hadoop

export HADOOP\_MAPRED\_HOME=/usr/local/hadoop

### **Step 4: Download and Configure MySQL-connector-java**

From the following link, we can [**download**](https://downloads.mysql.com/archives/c-j/) MySQL-connector-java-5.1.30.tar.gz file.

In adddition, to extract MySQL-connector-java tarball and move MySQL-connector-java-5.1.30-bin.jar to /usr/lib/sqoop/lib directory we use the following command.

$ tar -zxf mysql-connector-java-5.1.30.tar.gz

$ su

password:

# cd mysql-connector-java-5.1.30

# mv mysql-connector-java-5.1.30-bin.jar /usr/lib/sqoop/lib

### **Step 5: Verifying Sqoop**

At last, to verify the Sqoop version we use the following command.

$ cd $SQOOP\_HOME/bin

$ sqoop-version

Expected output

14/12/17 14:52:32 INFO sqoop.Sqoop: Running Sqoop version: 1.4.5

Sqoop 1.4.5 git commit id 5b34accaca7de251fc91161733f906af2eddbe83

Compiled by abe on Fri Aug 1 11:19:26 PDT 2014

Hence, in this way Sqoop installation is complete.

## **5. Conclusion**

Hence, in this Sqoop installation tutorial, we study how Sqoop download & install sqoop by verifying Java Installation. At last, how to Download Hadoop and Verifying Hadoop Installation. Furthermore, if you feel any query, feel free to ask in the comment section.