Installation de Hadoop (Stand-Alone mode)

Step 1 - Installing Ubuntu on Windows 10:

Follow these steps to install ubuntu image as an application in windows 10:

 $\underline{https://answers.microsoft.com/en-us/insider/forum/all/how-to-enable-the-windows-subsystem-for-linux/16e8f2e8-4a6a-4325-a89a-fd28c7841775?auth=1$

Step 2 - Installation of Java:

Open an Ubuntu Terminal and run the following commands:

```
$ sudo apt-get update
Install Java:
$ sudo apt-get install default-jdk
Check the Java version:
```

\$ java -version

Output:

```
| Example | Exa
```

Step 2 - Download and Install Hadoop:

Open an Ubuntu Terminal and run the following commands:

Download Hadoop:

```
$ sudo wget
https://archive.apache.org/dist/hadoop/common/hadoop-3.2.3/hadoop-3.2.3.
tar.gz --no-check-certificate
```

Extract Hadoop file:

```
$ sudo tar -xzvf hadoop-3.2.3.tar.gz
```

Move the installed file

```
$ sudo mv hadoop-3.2.3 /usr/local/hadoop
```

Step 3 - Configure Hadoop and Java Home:

Look for the java installation root file:

```
$ readlink -f /usr/bin/java | sed "s:bin/java::"
```

Output:

```
(base) zersou@DESKTOP-AMACGGO:/mnt/c/Users/User/hadoop-3.2.3/etc/hadoop$ readlink -f /usr/bin/java | sed "s:bin/java::"
/usr/lib/jvm/java-11-openjdk-amd64/
```

Open the file hadoop-env.sh:

\$ sudo nano /usr/local/hadoop/etc/hadoop/hadoop-env.sh

In the hadoop-env.sh file, change JAVA_HOME and HADOOP_CLASSPATH as follows:

export JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64/ export HADOOP_CLASSPATH=/usr/lib/jvm/java-11-openjdk-amd64/lib/jrt-fs.jar

```
# export JAVA_HOME=
export JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64/
# Location of Hadoop. By default, Hadoop will attempt to determine
# this location based upon its execution path.
# export HADOOP_HOME=
```

```
export HADOOP_CLASSPATH="/some/cool/path/on/your/machine"
export HADOOP_CLASSPATH=/usr/lib/jvm/java-11-openjdk-amd64/lib/jrt-fs.jar
should HADOOP_CLASSPATH be first in the official CLASSPATH?
export HADOOP_USER_CLASSPATH_FIRST="yes"
```

Step 4: update HOME/.bashrc

```
$ nano ~/.bashrc
$ source ~/.bashrc
```

Add the following lines to the end of the \$HOME/.bashrc file

```
export HADOOP_HOME=/usr/local/hadoop
export PATH=$PATH:$HADOOP_HOME/sbin:$HADOOP_HOME/bin
```

Step 5: Formatting the HDFS filesystem via the NameNode

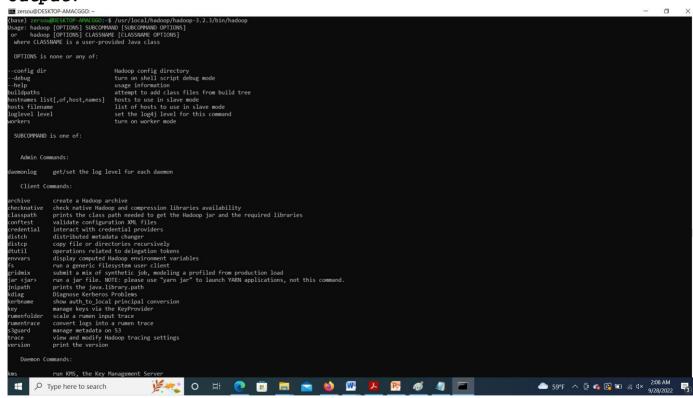
Run this command:

/usr/local/hadoop/bin/hadoop namenode -format

Step 6 - Test Hadoop

\$ /usr/local/hadoop/bin/hadoop

Output:



Or check hadoop by this command:

\$ hadoop version

■ bida@DESKTOP-AMACGGO: ~

bida@DESKTOP-AMACGGO:~\$ hadoop version

Hadoop 3.2.4

Source code repository Unknown -r 7e5d9983b388e372fe640f21f048f2f2ae6e9eba

Compiled by ubuntu on 2022-07-12T11:58Z

Compiled with protoc 2.5.0

From source with checksum ee031c16fe785bbb35252c749418712

This command was run using /usr/local/hdoop/share/hadoop/common/hadoop-common-3.2.4.jar