## 02 hadoop on windows

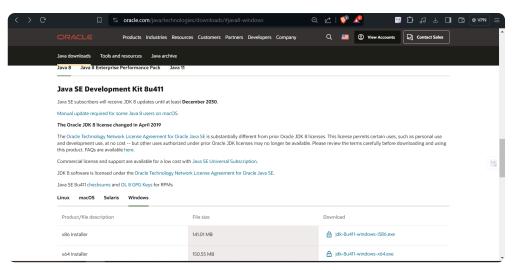
https://youtu.be/knAS0w-jiUk?si=84sAh8kjZ46tUnO4

- 1. Delete all Previous Java Versions
- 2. Create a folder in C drive "Java"

#### Install jdk 8

jdk-8u411-windows-x64.exe

### https://www.oracle.com/java/technologies/downloads/#java8-windows

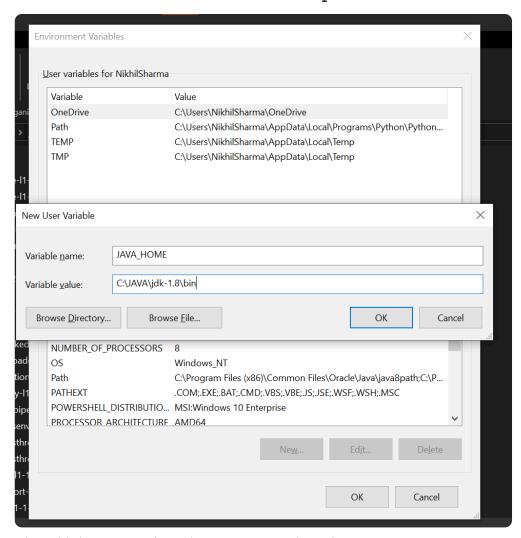


Run the installation, Prompt to change the folder while installing JDK, Choose the 'Java' folder in C: When installation is done

Change the folder the 2nd time when asked.



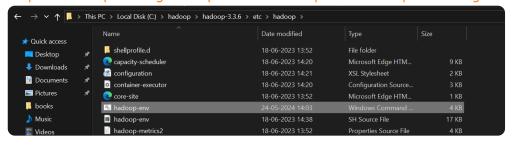
Go to C://Program Files and inside Java, cut the jdk1.8 folder put it inside the Java folder in C:



Also add the same path to the system variable path.

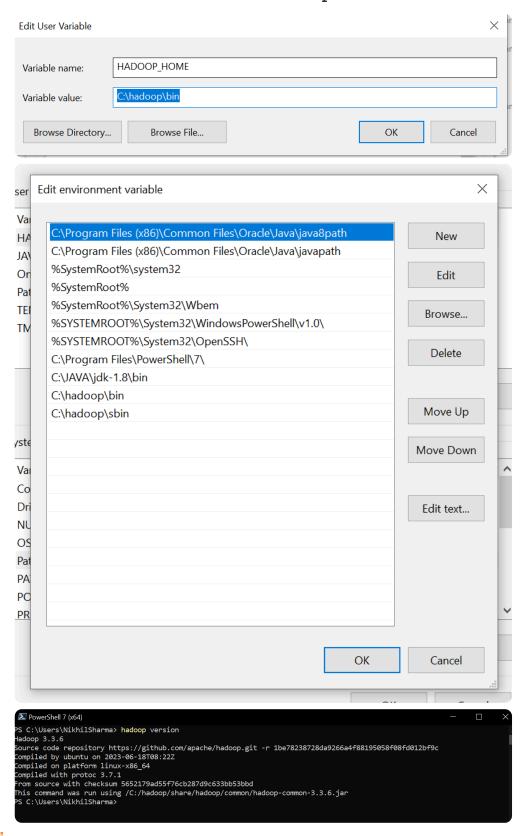
Download the binary file of the Apache Hadoop

https://dlcdn.apache.org/hadoop/common/hadoop-3.3.6/hadoop-3.3.6.tar.gz



#### Update the JAVA\_HOME value in the hadoop env file

```
File Edit Format View Help
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@rem WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
@rem See the License for the specific language governing permissions and
@rem limitations under the License
@rem Set Hadoop-specific environment variables here.
@rem The only required environment variable is JAVA HOME. All others are
@rem optional. When running a distributed configuration it is best to
@rem set JAVA_HOME in this file, so that it is correctly defined on
@rem remote nodes.
@rem The java implementation to use. Required.
set JAVA\_HOME=C:\JAVA\jdk-1.8
<
```



# Edit the Hadoop Configuration Files

 C:\hadoop\etc\hadoop edit the core-site file

```
<configuration>

< name>fs.defaultFS</name>
<value>hdfs://localhost:9000</value>
```

```
</configuration>
```

Create a folder "data" in C:\hadoop

This data folder should contain two more folders.

namenode datanode

#### 2. httpfs-site file

#### mapred-site

```
<configuration>
configuration>
<name>mapreduce.framework.name</name>
<value>yarn</value>
</property>
</configuration>
```

#### 4. yarn-site

Fix the hadoop bin.

Delete the bin folder and download from <a href="here">here</a> and then Run the Winutils present in the bin folder. One all file might be missing, download it. MSVCR120.dll

and paste inside

C:\Windows\System32

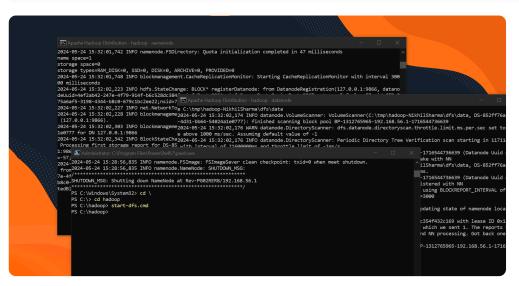
winutils inside the bin folder should not throw any error.

<u>Latest supported Visual C++ Redistributable downloads | Microsoft Learn</u>

#### run powershell as admin

hdfs namenode -format

cd \
cd hadoop
cd sbin
start-dfs.cmd



The jps command in Hadoop stands for "Java Process Status."

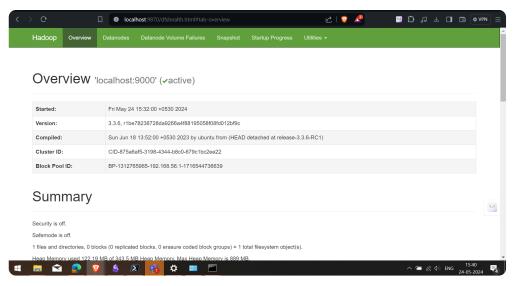
- check the status of Java processes running on a Hadoop cluster.
- lists the Java processes along with their process IDs (PIDs).

PS C:\hadoop> jps 10576 DataNode 5020 Jps 9740 NameNode

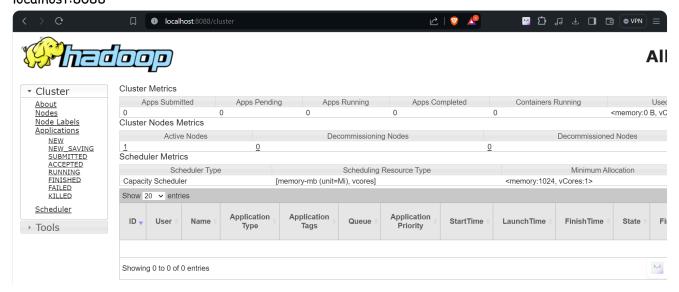
#### Run yarn

start-yarn.cmd

PS C:\hadoop> jps 10576 DataNode 6976 Jps 18200 NodeManager 16460 ResourceManager 9740 NameNode PS C:\hadoop> \_



# To see Resource Manager localhost:8088



stop-all.cmd to stop all