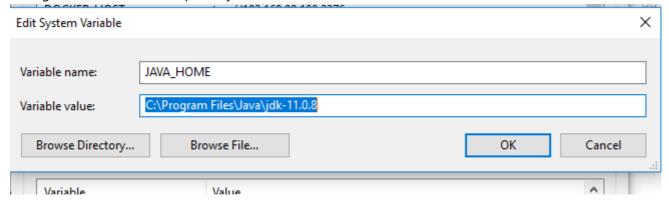
Instalasi dan Konfigurasi Java

Download Java 1.8 dari Oracle Website dan instalasikan ke folder lokal

https://www.oracle.com/java/technologies/javase/javase-jdk8-downloads.html

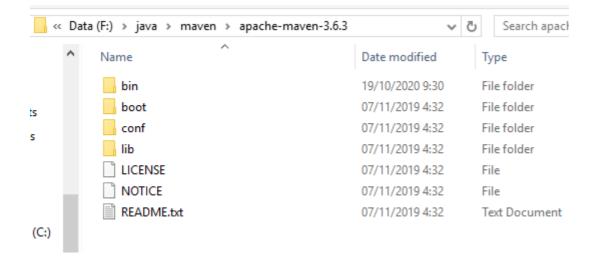
Konfigurasikan JAVA_HOME pada System Path

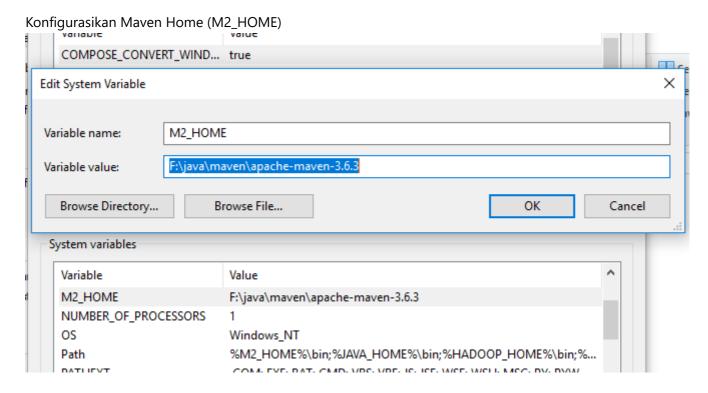


Instalasi dan Konfigurasi Apache Maven

Download Apache Maven dari Apache Website dan instalasikan ke folder Anda misalkan ke F:\java\maven\apache-maven-3.6.3

https://downloads.apache.org/maven/maven-3/3.6.3/binaries/apache-maven-3.6.3-bin.zip

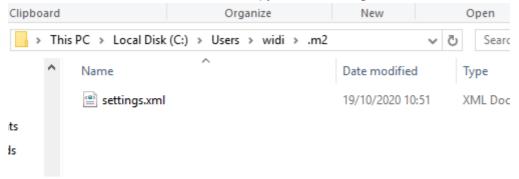




Edit file settings.xml pada baris 55 isikan kode berikut



Buat folder C:/User/{namaAnda}/.m2, copy kan file settings.xml ke folder tersebut

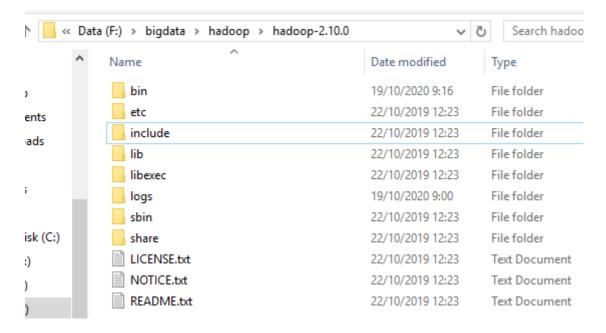


Instalasi dan Konfigurasi Hadoop

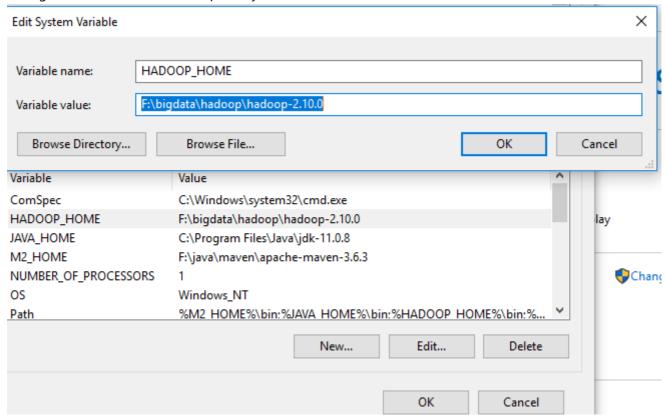
Download HADOOP dari Apache Website

https://downloads.apache.org/hadoop/core/hadoop-2.10.1/hadoop-2.10.1.tar.gz

Ekstrak ke folder Anda yang akan menjadi HADOOP_HOME misalkan ke F:\bigdata\hadoop\hadoop-2.10.0 sehingga terdapat struktur direktori seperti berikut



Konfigurasikan HADOOP_HOME pada System Environment



Konfigurasikan etc/hadoop/hdfs-site.xml

```
</property>
</configuration>
```

Edit etc/hadoop/core-site.xml:

edit hadoop-env.cmd

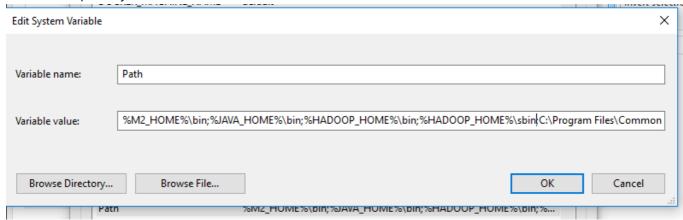
```
set JAVA_HOME="C:\\PROGRA~1\\Java\\jdk-11.0.8"
```

Edit mapred-site.xml

Edit yarn-site.xml

Konfigurasi Path

Konfigurasikan M2_HOME/bin, JAVA_HOME/bin, HADOOP_HOME/bin, dan HADOOP_HOME/sbin agar didaftarkan pada system Path



Restart Sistem

Format File System

Format HDFS pertama kali

hdfs namenode -format hdfs datanode -format

Start Hadoop

Start Hadoop PseudoCluster = Namenode + Datanode

start-dfs.cmd

Cek log Hadoop sehingga start HDFS selesai

Cek HDFS melalui browser.

http://localhost:50070/

Sehingga tampil seperti berikut.



Overview 'localhost:9000' (active)

Started:	Mon Oct 19 19:45:46 -0700 2020
Version:	2.10.0, re2f1f118e465e787d8567dfa6e2f3b72a0eb9194
Compiled:	Tue Oct 22 12:10:00 -0700 2019 by jhung from branch-2.10.0
Cluster ID:	CID-cf5bde14-4f31-49a4-b83c-745e57fab0d3
Block Pool ID:	BP-1986357193-192.168.99.1-1603124439208

Summary

Security is off.

Cek Cluster melalui browser

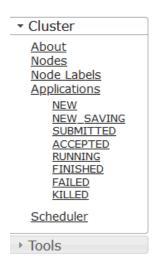
http://localhost:8088/cluster

Sehingga tampil seperti berikut.





Αll



Cluster Metrics Containers Ru Apps Submitted Apps Pending Apps Running Apps Completed 0 0 0 0 Cluster Nodes Metrics Active Nodes Decommissioning Nodes Decommissioned No 0 0 0 Scheduler Metrics Scheduler Type Scheduling Resource Type Capacity Scheduler [<name=memory-mb default-unit=Mi type=COUNTABLE>, <name=vcores defa Show 20 v entries ID User Name Application Queue Application StartTime LaunchTime FinishTime Sta Туре **\$ \$** Priority \$

Showing 0 to 0 of 0 entries

Stop Hadoop PseudoCluster

stop-dfs.cmd

Stop yarn

stop-yarn.cmd

Percobaan menggunakan operasi Hadoop

Coba buat file melalui command prompt

hdfs dfs -mkdir /user hdfs dfs -mkdir /user/widi

hdfs dfs -mkdir input
hdfs dfs -put etc/hadoop/*.xml input
hadoop jar share/hadoop/mapreduce/hadoop-mapreduce-examples-3.3.0.jar grep input
output 'dfs[a-z.]+'
hdfs dfs -cat output/*