

# PRACTICAL

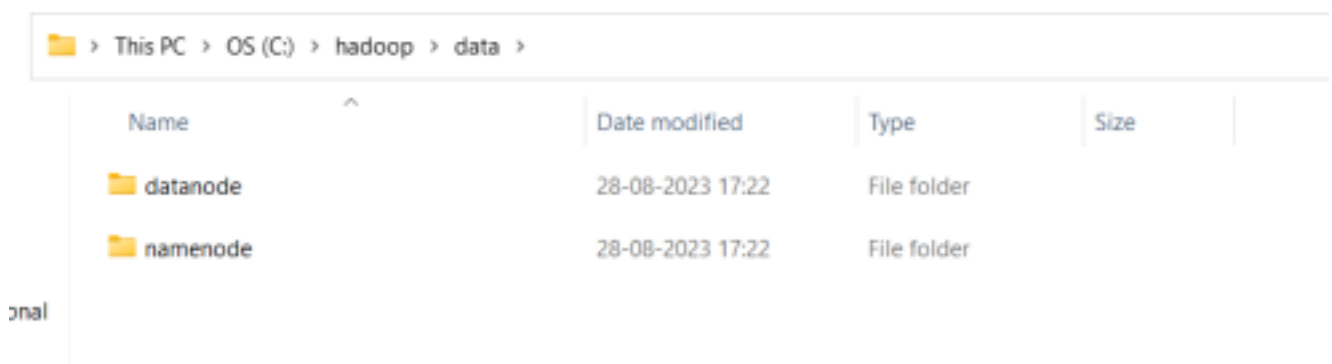
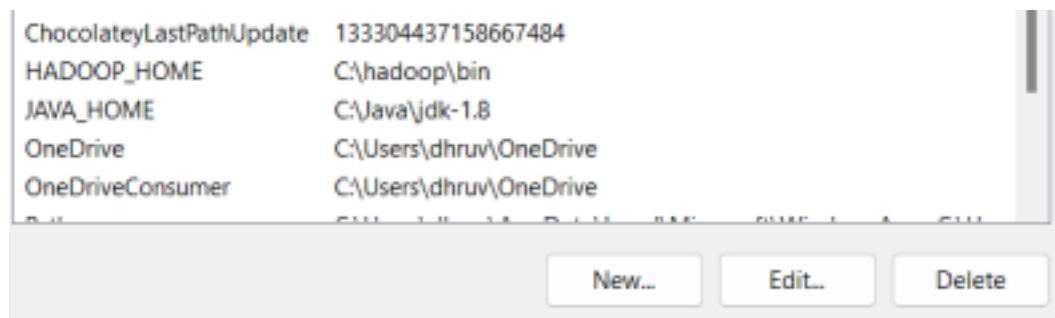
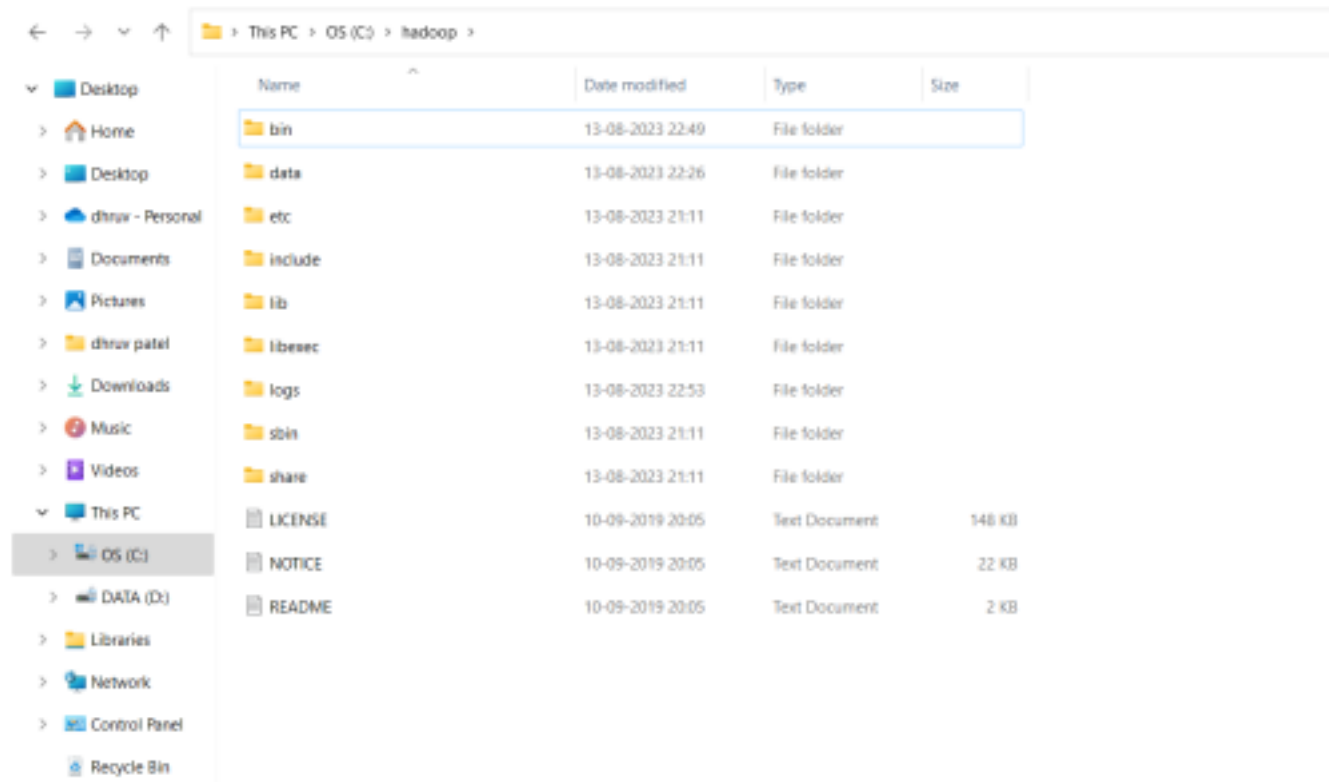
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AIM:- Installing and running commands on hadoop.

- [JRE 1.8](#) — Offline installer for JRE
- A Software for Un-Zipping like [7Zip](#) or [Win Rar](#)  
(I will be using a 64-bit windows for the process) • Install Hadoop-2.9.2
- Unzip and Install Hadoop
- Setting Up Environment Variables
- Editing Configuration Files
  - core-site.xml
  - \* hdfs-site.xml
  - \* mapred-site.xml
  - \* yarn-site.xml
  - \* hadoop-env.cmd
- Launching Hadoop



Installed hadoop successfully:-

```
PS C:\Hadoop\hadoop-3.2.1\sbin> jps
8656 NameNode
11720 Jps
13528 DataNode
18156 ResourceManager
```

Running commands:-

Starting Hadoop: -

```
PS C:\Users\chint> cd C:\Hadoop\hadoop-3.2.1\sbin
PS C:\Hadoop\hadoop-3.2.1\sbin> .\start-dfs.cmd
PS C:\Hadoop\hadoop-3.2.1\sbin> .\start-yarn.cmd
starting yarn daemons
```

Making Directory: -

```
PS C:\Hadoop\hadoop-3.2.1\sbin> hdfs dfs -mkdir -p /user/pg/dir1
```

Uploading File in the directory: -

```
PS C:\Hadoop\hadoop-3.2.1\sbin> hdfs dfs -put -f C:\Hadoop\hadoop-3.2.1\sbin\pg\file.txt /user/pg/datadir
2023-09-08 09:27:38,715 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
PS C:\Hadoop\hadoop-3.2.1\sbin> hdfs dfs -ls /user/pg/datadir
-rw-r--r--  1 chint supergroup      114 2023-09-08 09:27 /user/pg/datadir
```

Downloading data from directory in hadoop: -

```
PS C:\Hadoop\hadoop-3.2.1\sbin> hdfs dfs -get /user/pg/datadir ./pg/
2023-09-08 09:47:53,522 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
```

Displaying Data from Directory in hadoop: -

```
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\hadoop\sbin> start-dfs.cmd
PS C:\hadoop\sbin> stop-dfs.cmd
SUCCESS: Sent termination signal to the process with PID 3764.
SUCCESS: Sent termination signal to the process with PID 22336.
PS C:\hadoop\sbin> start-dfs.cmd
PS C:\hadoop\sbin> cd..
PS C:\hadoop> jps
20128 DataNode
20996 ResourceManager
19320 NameNode
23384 Jps
PS C:\hadoop> bin/hdfs dfs -ls /
PS C:\hadoop> hdfs dfs -mkdir /tryhadoop
PS C:\hadoop> hdfs dfs -ls /
Found 1 items
drwxr-xr-x  - dhruv supergroup      0 2023-08-28 17:50 /tryhadoop
PS C:\hadoop> |
```

```
PS C:\Hadoop\hadoop-3.2.1\sbin> hdfs dfs -cat /user/pg/datadir
2023-09-08 09:55:28,016 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteH
ostTrusted = false
Hey , hello
how are you ?
What are you doing ?
where are you going?
Dadabada bam bam bam hu ha hu ha hahhahaa
```