

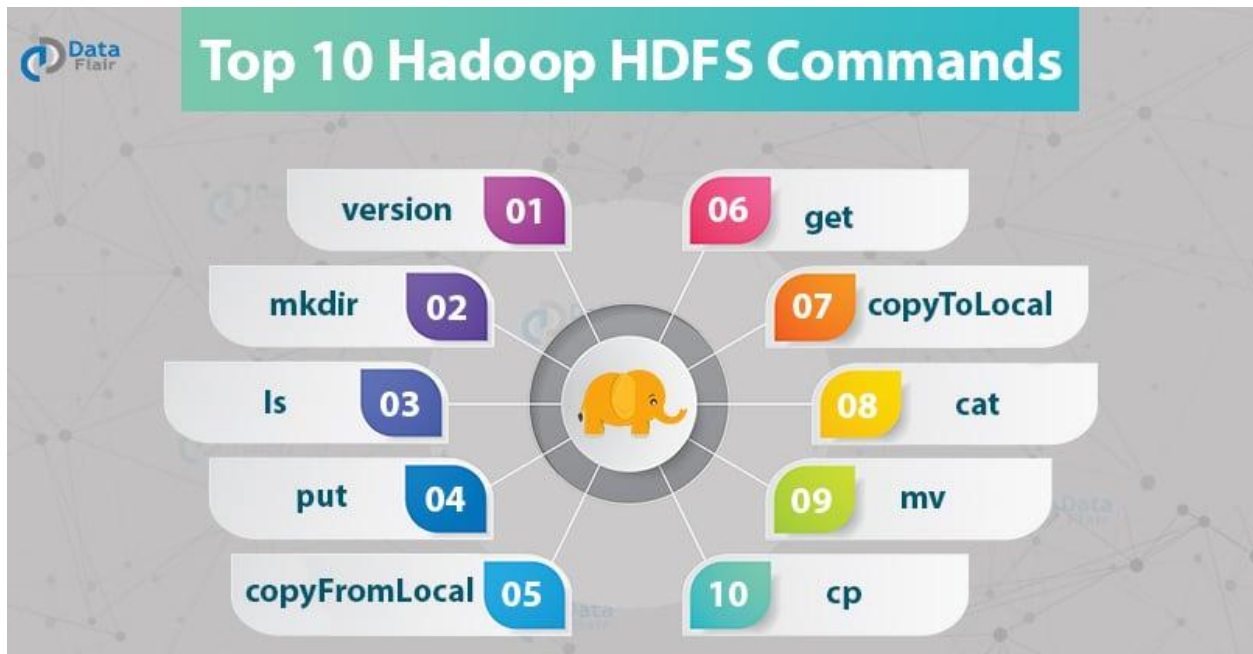
HADOOP HDFS COMMANDS

Exp 3

Namansh Singh Maurya
22MIA1034

Aim: The aim is to provide an overview of basic HDFS commands for managing and interacting with the Hadoop Distributed File System (HDFS)

Algorithm/Procedure:



These are the commands needed to be followed

Commands:

1. Starting Hadoop

```
ponny@ubuntu:~$ start-all.sh
Warning: $HADOOP_HOME is deprecated.

starting namenode, logging to /home/ponny/hadoop/libexec/../logs/hadoop-ponny-namenode-ubuntu.out
localhost: starting datanode, logging to /home/ponny/hadoop/libexec/../logs/hadoop-ponny-datanode-ubuntu.out
localhost: starting secondarynamenode, logging to /home/ponny/hadoop/libexec/../logs/hadoop-ponny-secondarynamenode-ubuntu.out
starting jobtracker, logging to /home/ponny/hadoop/libexec/../logs/hadoop-ponny-jobtracker-ubuntu.out
localhost: starting tasktracker, logging to /home/ponny/hadoop/libexec/../logs/hadoop-ponny-tasktracker-ubuntu.out
```

```
ponny@ubuntu:~$ jps
5657 NameNode
5822 DataNode
5989 SecondaryNameNode
6072 JobTracker
6234 TaskTracker
6428 Jps
ponny@ubuntu:~$
```

2. version

```
ponny@ubuntu:~$ hadoop version
Warning: $HADOOP_HOME is deprecated.

Hadoop 1.0.4
Subversion https://svn.apache.org/repos/asf/hadoop/common/branches/branch-1.0 -r 1393290
Compiled by hortonfo on Wed Oct 3 05:13:58 UTC 2012
From source with checksum fe2baea87c4c81a2c505767f3f9b71f4
```

3. mkdir and ls

```
ponny@ubuntu:~$ hadoop fs -mkdir /namansh
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$
ponny@ubuntu:~$ hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.

Found 4 items
drwxr-xr-x - ponny supergroup 0 2025-01-06 11:11 /app
drwxr-xr-x - ponny supergroup 0 2025-01-13 10:41 /namansh
drwxr-xr-x - ponny supergroup 0 2024-04-08 16:09 /tmp
drwxr-xr-x - ponny supergroup 0 2024-12-20 12:38 /user
ponny@ubuntu:~$
```

4. copyfromlocal and cat

```
ponny@ubuntu:~$ hadoop fs -copyFromLocal ~/if2.txt /namansh/copylocaltest
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$ hadoop fs -cat /namansh/copylocaltest
Warning: $HADOOP_HOME is deprecated.

1,salil,784
2,iueo,8979
3,egywe,7266
4,vjvhj,8782
5,hbbhbb,9878
6,hdgsdb,3982
ponny@ubuntu:~$
```

5. put

```
ponny@ubuntu:~$ hadoop fs -put ~/if.txt /namansh
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$
```

6. get

```
ponny@ubuntu:~$ hadoop fs -get /if.txt ~/mar
Warning: $HADOOP_HOME is deprecated.

get: null
```

7. copytolocal

```
ponny@ubuntu:~$ hadoop fs -copyToLocal /namansh/if.txt ~/22MIA1034
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$ ls 22MIA1034/
if.txt
```

8. cat solo

```
ponny@ubuntu:~$ hadoop fs -cat /namansh/if.txt
Warning: $HADOOP_HOME is deprecated.

1,arg
2,bsgs
3,vasv
4,hsaja
5,sajhja
6,ajgg
ponny@ubuntu:~$
```

9. mv

```
ponny@ubuntu:~$ hadoop fs -mv /copy /namansh
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$ hadoop fs -ls /
Warning: $HADOOP_HOME is deprecated.

Found 4 items
drwxr-xr-x  - ponny supergroup          0 2025-01-06 11:11 /app
drwxr-xr-x  - ponny supergroup          0 2025-01-13 11:12 /namansh
drwxr-xr-x  - ponny supergroup          0 2024-04-08 16:09 /tmp
drwxr-xr-x  - ponny supergroup          0 2024-12-20 12:38 /user
```

10. cp

```
ponny@ubuntu:~$ hadoop fs -cp /namansh/if.txt /app
Warning: $HADOOP_HOME is deprecated.

ponny@ubuntu:~$ hadoop fs -ls /app
Warning: $HADOOP_HOME is deprecated.

Found 2 items
drwxr-xr-x  - ponny supergroup          0 2025-01-06 11:11 /app/hadoop
-rw-r--r--  1 ponny supergroup          44 2025-01-13 11:14 /app/if.txt
ponny@ubuntu:~$
```

Result: All commands successfully ran and changed were made within hadoop