NITISH KUMAR M 1BM19CS107 B4 BDA LAB

```
Induser@bmsce-Precision-11700:-$ start -all.sh

Command 'start' not found, did you mean:

command 'start' from snap stars (2.7jrc2)

command 'start' from snap stars (2.7jrc2)

command 'start' from deb coreutits (8.30-3ubuntu2)

command 'start' from deb kinit (1.4.1-0ubuntu2)

command 'start' from deb kinit (1.4.1-0ubuntu2)

command 'start' from deb kinit (3.10-1bulld1)

command 'start' from deb sart (3.10-1bulld1)

command 'start' from deb sartpm-core (1.4-2)

command 'start' from deb sartpm-core (1.4-2)

See 'snap info <snapname>' for additional versions.

hduser@bmsce-Precision-11700:-$ start-all.sh

This script is Deprecated. Instead use start-dfs.sh and start-yarn.sh

Starting namenodes on [localhost]

bduser@localhost's password:

localhost: starting namenode, logging to /usr/local/hadoop/logs/hadoop-hduser-namenode-bmsce-Precision-11700.out

bduser@localhost's password:

localhost: starting secondary namenode, logging to /usr/local/hadoop/logs/hadoop-hduser-secondarynamenode-bmsce-Precision-11700.out

starting secondary namenodes, logging to /usr/local/hadoop/logs/hadoop-hduser-secondarynamenode-bmsce-Precision-11700.out

starting resourcemanager, logging to /usr/local/hadoop/logs/yarn-hduser-resourcemanager-bmsce-Precision-11700.out

hduser@localhost's password:

localhost: starting nodemanager, logging to /usr/local/hadoop/logs/yarn-hduser-nodemanager-bmsce-Precision-11700.out

hduser@localhost's password:

localhost: star
```

Hadoop Basic Commands

1. mkdir

Hadoop HDFS mkdir Command Usage

mkdir

Hadoop HDFS mkdir Command Example

hdfs dfs -mkdir /abc

Hadoop HDFS mkdir Command Description

This HDFS command takes path URI's as an argument and creates directories.

```
        hduser@bmsce-Precision-T1700:~$ hdfs dfs -mkdir /nitish

        hduser@bmsce-Precision-T1700:~$ hdfs dfs -ls /

        Found 7 items
        0 2022-06-01 10:15 /1BM19CS167

        drwxr-xr-x - hduser supergroup
        0 2022-06-01 10:03 /1bm19cS167

        drwxr-xr-x - hduser supergroup
        0 2022-05-31 09:58 /abcde

        drwxr-xr-x - hduser supergroup
        0 2022-05-31 10:04 /abcdef

        drwxr-xr-x - hduser supergroup
        0 2022-06-01 14:31 /nitish

        drwxrwxr-x - hduser supergroup
        0 2019-08-01 16:19 /tmp
```

2. Is

Hadoop HDFS Is Command Usage

Hadoop HDFS Is Command Example

hadoop fs -ls /

Hadoop HDFS Is Commnad Description

This Hadoop HDFS is command displays a list of the contents of a directory specified by path provided by the user, showing the names, permissions, owner, size and modification date for each entry.

```
      hduser@bmsce-Precision-T1700:~$ hdfs dfs -ls /

      Found 7 items
      0 2022-06-01 10:15 /1BM19CS167

      drwxr-xr-x - hduser supergroup
      0 2022-06-01 10:03 /1bm19cs167

      drwxr-xr-x - hduser supergroup
      0 2022-05-31 09:58 /abcde

      drwxr-xr-x - hduser supergroup
      0 2022-05-31 10:04 /abcdef

      drwxr-xr-x - hduser supergroup
      0 2022-06-01 14:35 /nitish

      drwxrwxr-x - hduser supergroup
      0 2019-08-01 16:19 /tmp

      drwxr-xr-x - hduser supergroup
      0 2019-08-01 16:03 /user
```

3. put

Hadoop HDFS put Command Usage

put

Hadoop HDFS put Command Example

hdfs dfs -put /home/hduser/Desktop/Welcome.txt /abc/WC.txt

Hadoop

HDFS put Command Description

This hadoop basic command copies the file or directory from the local file system to the destination within the DFS.

Display the contents of the file WC.txt

hdfs dfs -cat /abc/WC.txt

```
hduser@bmsce-Precision-T1700:~$ hdfs dfs -put /home/hduser/Desktop/newb4.txt /nitish/niti.txt
hduser@bmsce-Precision-T1700:~$ hdfs dfs -cat /nitish/niti.txt
hello im nitish
```

4. copyFromLocal

Hadoop HDFS copyFromLocal Command Usage

copyFromLocal

Hadoop HDFS copyFromLocal Command Example

hdfs dfs -put /home/hduser/Desktop/Welcome.txt /abc/WC.txt

Hadoop HDFS copyFromLocal Command Description

This hadoop shell command is similar to put command, but the source is restricted to a local file reference

Display the contents of the file WC2.txt

hdfs dfs -cat /abc/WC2.txt

```
hduser@bmsce-Precision-T1700:~$ hdfs dfs -copyFromLocal /home/hduser/Desktop/newb4.txt /nitish/prem.txt
hduser@bmsce-Precision-T1700:~$ hdfs dfs -cat /nitish/prem.txt
hello im nitish
```

5. get
Hadoop HDFS get Command Usage
get [-crc]
i.Hadoop HDFS get Command Example
hdfs dfs -get /abc/WC.txt /home/hduser/Downloads/WWC.txt

hduser@bmsce-Precision-T1700:~\$ hdfs dfs -get /nitish/niti.txt /home/hduser/Desktop/harsha.txt

This HDFS is command copies the file or directory in HDFS identified by the source to the local file system path identified by local destination.

ii.Hadoop HDFS get Command Example hdfs dfs -getmerge /abc/WC.txt /abc/WC2.txt /home/hduser/Desktop/Merge.txt

```
hduser@bmsce-Precision-T1700:~$ hdfs dfs -getmerge /nitish/niti.txt /nitish/niki.txt /home/hduser/Desktop/Merge.txt
```

This HDFS basic command retrieves all files that match to the source path entered by the user in HDFS, and creates a copy of them to one single, merged file in the local file system identified by local destination.

iii. Hadoop HDFS get Command Example hadoop fs -getfacl /abc/

```
hduser@bmsce-Precision-T1700:~$ hadoop fs -getfacl /nitish/
# file: /nitish
# owner: hduser
# group: supergroup
user::rwx
group::r-x
other::r-x
```

This Apache Hadoop command shows the Access Control Lists (ACLs) of files and directories.

6. copyToLocal
Hadoop HDFS copyToLocal Command Usage
copyToLocal
Hadoop HDFS copyToLocal Command Example
hdfs dfs -copyToLocal /abc/WC.txt /home/hduser/Desktop

Similar to get command, only the difference is that in this the destination is restricted to a local file reference.

```
hduser@bmsce-Precision-T1700:~$ hdfs dfs -copyToLocal /nitish/prem.txt /home/hduser/Desktop/rama.txt
hduser@bmsce-Precision-T1700:~$ hdfs dfs -cat /nitish/prem.txt
hello im nitish
```

7. cat

Hadoop HDFS cat Command Usage cat
Hadoop HDFS cat Command Example

hadoop HDFS cat Command Example hdfs dfs -cat /abc/WC.txt

```
hduser@bmsce-Precision-T1700:~$ hdfs dfs -copyToLocal /nitish/prem.txt /home/hduser/Desktop/rama.txt
hduser@bmsce-Precision-T1700:~$ hdfs dfs -cat /nitish/prem.txt
hello im nitish
```

This Hadoop fs shell command displays the contents of the filename on console or stdout.

8. mv Hadoop HDFS mv Command Usage mv Hadoop HDFS mv Command Example

hadoop fs -mv /abc /FFF
hadoop fs -ls /FFF

This basic HDFS command moves the file or directory indicated by the source to destination, within HDFS.

```
hduser@bmsce-Precision-T1700:~$ hdfs dfs -mv /nitish /laxman
hduser@bmsce-Precision-T1700:~$ hdfs dfs -ls /laxman

Found 4 items
drwxr-xr-x - hduser supergroup 0 2022-06-01 14:46 /laxman/hi.txt
-rw-r--r-- 1 hduser supergroup 16 2022-06-01 15:08 /laxman/niki.txt
-rw-r--r-- 1 hduser supergroup 16 2022-06-01 14:52 /laxman/niti.txt
-rw-r--r-- 1 hduser supergroup 16 2022-06-01 14:55 /laxman/prem.txt
```

9. cp

Hadoop HDFS cp Command Usage

ср

Hadoop HDFS cp Command Example

hadoop fs -cp /CSE/ /LLL

hadoop fs -ls /LLL

The cp command copies a file from one directory to another directory within the HDFS.

```
hduser@bmsce-Precision-T1700:~$ hdfs dfs -cp /laxman /seetha
hduser@bmsce-Precision-T1700:~$ hdfs dfs -ls /seetha

Found 4 items
drwxr-xr-x - hduser supergroup 0 2022-06-01 15:14 /seetha/hi.txt
-rw-r--r-- 1 hduser supergroup 16 2022-06-01 15:14 /seetha/niki.txt
-rw-r--r-- 1 hduser supergroup 16 2022-06-01 15:14 /seetha/niti.txt
-rw-r--r-- 1 hduser supergroup 16 2022-06-01 15:14 /seetha/prem.txt
```