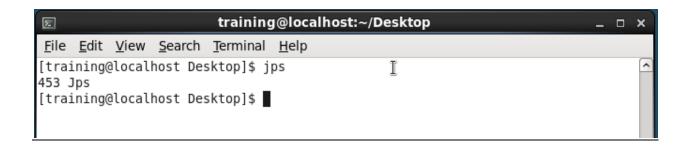
## NAME=ADITYA ANAL

## PROFILE=DATA ENGINNER

## **Hadoop commands tutorials**

<u>Hdps:</u> HDFS is the primary or major component of the Hadoop ecosystem which is responsible for storing large data sets of structured or unstructured data across various nodes and thereby maintaining the metadata in the form of log files.

**1.Jps command:** To check the Hadoop services are up and running use.



**2.Is:** This command is used to list all the files.

```
File Edit View Search Terminal Help

[training@localhost aditya]$ hadoop fs -ls

Found 3 items
drwxr-xr-x - training supergroup 0 2023-01-23 12:52 anjali
drwxr-xr-x - training supergroup 0 2023-01-23 08:36 dest
drwxr-xr-x - training supergroup 0 2023-01-23 08:40 source
[training@localhost aditya]$
```

3.mkdir: To create a directory.

```
training@localhost:~/Desktop/aditya
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                                                                            _ 🗆 X
<u>File Edit View Search Terminal Help</u>
[training@localhost aditya]$ had@op fs mkdir newfile.txt
mkdir: Unknown command
Did you mean -mkdir? This command begins with a dash.
[training@localhost aditya]$ hadoop fs -mkdir newfile.txt
[training@localhost aditya]$ hadoop fs -ls
Found 4 items
drwxr-xr-x - training supergroup 0 2023-01-23 12:52 anjali
drwxr-xr-x - training supergroup
                                           0 2023-01-23 08:36 dest
drwxr-xr-x - training supergroup
drwxr-xr-x - training supergroup
                                           0 2023-02-03 17:06 newfile.txt
                                           0 2023-01-23 08:40 source
[training@localhost aditya]$
```

4.touchz: It creates an empty file.

**<u>5.rmr:</u>** This command deletes a file from HDFS *recursively*.

<u>6.copyFromLocal (or) put:</u> To copy files/folders from local file system to hdfs store.

```
File Edit View Search Terminal Help

[training@localhost aditya]$ ls
a.txt

[training@localhost aditya]$ hadoop fs -copyFromLocal a.txt /

[training@localhost aditya]$ hadoop fs -ls /

Found 6 items
-rw-r--r- 1 training supergroup 25 2023-02-03 17:27 /a.txt

drwxr-xr-x - training supergroup 0 2023-01-23 11:45 /dost

drwxr-xr-x - hbase supergroup 0 2023-02-03 11:50 /hbase

drwxrwxrwt - hdfs supergroup 0 2023-01-23 07:35 /tmp

drwxrwxrwx - hdfs supergroup 0 2023-01-23 07:35 /user

drwxr-xr-x - hdfs supergroup 0 2023-01-23 07:35 /var

[training@localhost aditya]$ ■
```

**7.copyToLocal (or) get:** To copy files/folders from hdfs store to local file system.

```
[training@localhost aditya]$ pwd
/home/training/Desktop/aditya
[training@localhost aditya]$ hadoop fs -copyToLocal newfile.txt /home/training/
Desktop/aditya
[training@localhost aditya]$ ls
a.txt newfile.txt
[training@localhost aditya]$ 

==
```

8.moveFromLocal: This command will move file from local to hdfs.

```
Edit View Search Terminal Help

[training@localhost aditya]$ ls
a.txt new.txt

[training@localhost aditya]$ hadoop fs -moveFromLocal new.txt

[training@localhost aditya]$ hadoop fs -ls

Found 3 items
-rw-r--r-- 1 training supergroup
-rw-r--r--- 1 training supergroup
-rw-r--r--- 1 training supergroup
-rw-r--r--- 1 training supergroup
-rw-r--r--- 1 training supergroup
```

<u>9.du</u>: It will give the size of each file in directory.

**10.dus:** This command will give the total size of directory/file.

```
E training@localhost:~/Desktop/aditya _ □ ×

File Edit View Search Terminal Help

[training@localhost aditya]$ hadoop fs -dus new.txt

dus: DEPRECATED: Please use 'du -s' instead.

0 new.txt

[training@localhost aditya]$ ■
```

**11.cp:** This command is used to copy files within hdfs.

```
training@localhost:~/Desktop/aditya
 <u>File Edit View Search Terminal Help</u>
[training@localhost aditya]$ hadoop fs -ls
Found 3 items
-rw-r--r-- 1 training supergroup
                                                                   25 2023-02-03 17:25 a.txt
-rw-r--r-- 1 training supergroup
                                                                   0 2023-02-03 17:50 new.txt
drwxr-xr-x - training supergroup
                                                                   0 2023-02-03 17:47 newfile.txt
[training@localhost aditya]$ hadoop fs -cp a.txt /
[training@localhost aditya]$ hadoop fs -ls /
Found 6 items
                                                              25 2023-02-03 18:01 /a.txt
-rw-r--r-- 1 training supergroup

      drwxr-xr-x
      - training supergroup
      0 2023-01-23 11:45 /dost

      drwxr-xr-x
      - hbase supergroup
      0 2023-02-03 11:50 /hbase

      drwxrwxrwt
      - hdfs supergroup
      0 2023-01-23 07:35 /tmp

      drwxrwxrwx
      - hdfs supergroup
      0 2023-01-23 07:35 /user

      drwxr-xr-x
      - hdfs supergroup
      0 2023-01-23 07:35 /var

[training@localhost aditya]$
```

**12.mv**: This command is used to move files within hdfs.

```
training@localhost:~/Desktop/aditya
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                                                                                          _ 🗆 X
 File Edit View Search Terminal Help
[training@localhost aditya]$ hadoop fs -ls
Found 3 items
-rw-r--r-- 1 training supergroup
                                                  25 2023-02-03 17:25 a.txt
-rw-r--r-- 1 training supergroup
drwxr-xr-x - training supergroup
                                                     0 2023-02-03 17:50 new.txt
                                                   0 2023-02-03 17:47 newfile.txt
[training@localhost aditya]$ hadoop fs -mv new.txt /
[training@localhost aditya]$ hadoop fs -ls /
Found 6 items
drwxr-xr-x - training supergroup
                                                0 2023-01-23 11:45 /dost

0 2023-02-03 11:50 /hbase

0 2023-02-03 17:50 /new.txt

0 2023-01-23 07:35 /tmp

0 2023-01-23 07:35 /user
                                                     0 2023-01-23 11:45 /dost
                             supergroup
drwxr-xr-x - hbase
-rw-r--r-- 1 training supergroup
drwxrwxrwt - hdfs supergroup
drwxrwxrwx - hdfs supergroup
drwxr-xr-x - hdfs supergroup
                                                   0 2023-01-23 07:35 /var
[training@localhost aditya]$ hadoop fs -ls
Found 2 items
-rw-r--r-- 1 training supergroup
                                                  25 2023-02-03 17:25 a.txt
drwxr-xr-x - training supergroup
                                                  0 2023-02-03 17:47 newfile.txt
[training@localhost aditya]$
```

**13.stat:** It will give the last modified time of directory or path.

**14.hadoop fs:** Give the list of all commands.

```
training@localhost:~/Desktop/aditya
File Edit View Search Terminal Help
[training@localhost aditya]$ hadoop fs
Usage: hadoop fs [generic options]
        [-cat [-ignoreCrc] <src> ...]
        [-chgrp [-R] GROUP PATH...]
        [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...]
        [-chown [-R] [OWNER][:[GROUP]] PATH...]
        [-copyFromLocal <localsrc> ... <dst>]
        [-copyToLocal [-ignoreCrc] [-crc] <src> ... <localdst>]
        [-count [-q] <path> ...]
        [-cp <src> ... <dst>]
        [-df [-h] [<path> ...]]
        [-du [-s] [-h] <path> ...]
        [-expunge]
        [-get [-ignoreCrc] [-crc] <src> ... <localdst>]
        [-getmerge [-nl] <src> <localdst>]
        [-help [cmd ...]]
        [-ls [-d] [-h] [-R] [<path> ...]]
        [-mkdir [-p] <path> ...]
        [-moveFromLocal <localsrc> ... <dst>]
        [-moveToLocal <src> <localdst>]
        [-mv <src> ... <dst>]
        [-put <localsrc> ... <dst>]
        [-rm [-f] [-r|-R] [-skipTrash] <src> ...]
        [-rmdir [--ignore-fail-on-non-empty] <dir> ...]
```

15.cat: To print file contents.

```
[training@localhost aditya]$ hadoop fs -cat source/new.txt
my name is aditya anal
i am coming form siwan
my barnch computer science
```

16.getmerge: to merge the two file in new file.

[training@localhost adityaWork]\$ hadoop fs -getmerge source dest mergedfile.txt
[training@localhost adityaWork]\$ cat mergedfile.txt
my name is aditya anal
i am coming form siwan
my barnch computer science
This is other test file for testing the getmerge command in haddop
we are learning HAdoop
my name is aditya anal