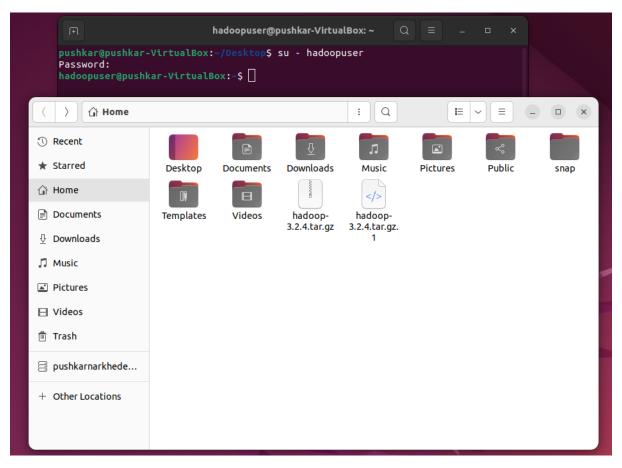
ASSIGNMNT 02

File Management using Hadoop

1. Files stored in Local storage



<u>Cluster type</u> – Single Node Cluster → means all files are saved into the single Hadoop cluster storage. To work with Hadoop file management commands we have to store some files from local storage to Hadoop cluster and perform operation

Login into Hadoop

```
hadoopuser@pushkar-VirtualBox:~/Desktop$ su - hadoopuser
Password:
hadoopuser@pushkar-VirtualBox:~$
```

Is command (Linux Local Storage Command)

```
pushkar@pushkar-VirtualBox:~/Desktop$ su - hadoopuser
Password:
hadoopuser@pushkar-VirtualBox:~$ ls
hadoop hadoop-3.2.4.tar.gz hadoopdata snap
hadoopuser@pushkar-VirtualBox:~$ |
```

-ls List Directory

This command is used to list all the directory and files present in the cluster

It also specifies the permission given to each directory and file

- mkdir (Make Directory)

This command is used to make a new directory into the selected cluster

- chmod

It is used to assign the read, write, and execute permission for any directory and files

```
hadoopuser@pushkar-VirtualBox: ~
                                                                   Q
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -ls /
Found 1 items
                                                   0 2022-10-04 18:45 /Pushkar
drwxr-xr-x
             - hadoopuser supergroup
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -mkdir /NewDirectory
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -ls /
Found 2 items
drwxr-xr-x
                                                   0 2022-10-04 19:01 /NewDirectory
0 2022-10-04 18:45 /Pushkar
              - hadoopuser supergroup
             - hadoopuser supergroup
drwxr-xr-x
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -chmod /
                                                      swapfile
bin/
             home/ lost+found/ root/
boot/
             lib/
                          media/
                                        run/
                                                      sys/
             lib32/
cdrom/
                          mnt/
                                        sbin/
                                                      tmp/
            lib64/
dev/
                         opt/
                                        snap/
                                                      usr/
                                        srv/
etc/ libx32/ proc/ srv/ var/
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -chmod 777 /NewDirectory
etc/
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -ls /
Found 2 items
drwxrwxrwx - hadoopuser supergroup
drwxr-xr-x - hadoopuser supergroup
                                                   0 2022-10-04 19:01 /NewDirectory
0 2022-10-04 18:45 /Pushkar
drwxr-xr-x
hadoopuser@pushkar-VirtualBox:~$
```

-touch

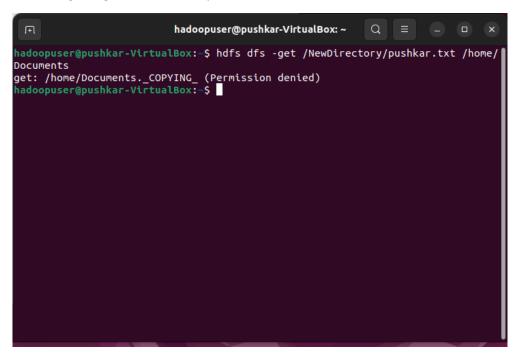
This command is used to create a new directory and file into the Hadoop cluster It basically create a empty file and directory.

cat command for new created file

```
hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:~\hadoopuser@pushkar-VirtualBox:
```

As the file is empty the content aren't shown

Get command for getting file from Hadoop cluster



Creating a txt file using touch command and copying it into another directory

```
hadoopuser@pushkar-VirtualBox: ~
                                                           Q
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -cat /trial.txt
     '/trial.txt': No such file or directory
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -touch /trial.txt
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -ls /
Found 4 items
drwxrwxrwx
             - hadoopuser supergroup
                                              0 2022-10-04 19:24 /NewDir2
             - hadoopuser supergroup
                                              0 2022-10-04 19:23 /NewDirectory
drwxrwxrwx
drwxr-xr-x
            - hadoopuser supergroup
                                              0 2022-10-04 18:45 /Pushkar
                                             0 2022-10-04 19:28 /trial.txt
- FW- F-- F--
           1 hadoopuser supergroup
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -cp /trial.txt /NewDir2/
hadoopuser@pushkar-VirtualBox:~$ hdfs dfs -ls /NewDir2
Found 1 items
- FW- F- - F- -
            1 hadoopuser supergroup
                                              0 2022-10-04 19:29 /NewDir2/trial
.txt
hadoopuser@pushkar-VirtualBox:~$
```

127.0.0.1:9870

