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BDI-EXPERIMENT-03
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\$0 pid + 60004210126
Dive (2, Batch+ 1
Experiment no.03
HDFS commands.
Aim: Execution of HDFS commands in Hoston works sandbox
Ihrory ?
2) mid + to display the current directory path.
2) hadoop: Fs - fs / : This command lists the contents of the good
directory in HDFS. It will show the files and directories present
at the root level of the HDFS file system.
3) hadorop for -1s -R/+. This command lists the contents of the
not directory recursinely i.e. it will also list the contents of
Subdirectories and their subdirectories in a tree-like format - It
provider a comprehensive view of the entire directory structure
starting from the root.
4) hadorp to -mk dix / aray: - This command creates a new dixecting
named anay in the xoot directory.
(5) hadorp fs-touchz/anay/sample.txt >
This command areals an entry file named "samples toot" in the
anay" directory.
badurp &s-cat/anay/names-txt + This command displays the
contents of a file named "names tx". It will print the contents
to the consol. If the file does not exist It will show
ethor mesouge
A) hadoup is du spanay : This command calculates the
totalsis of all files and directories is the "lanay" directory
and displays the results in byles - If the dixecting contain
Subdirectories, their sizes are not included in the total.

	Gate
	a) hadorop & - stat/anay & This command is use to restricted
,	a) hadoop to - set sep 5) away = This command sets the replication sector of all fills in the "anay" dixectory to 5.
	Hadoup is an open source transmok for distributed storage and processing of large datasets across clusters of computers. It utilizes a distributed file system (HDFS) for storage and Mapkeduce for processing, Hadoup's scalability, fault to levance of ability to handle big data make it popular for data - intensine applications.
	metadata Namenode Metadata (nam, supicas,-) ops /sow/data, 3, Client
	Read Dotanodis. Datanodis. Datanodis. Datanodis. Datanodis.
	Rack 1 (lient)
Lo J w	herefore, me have exemped HDFS command in Harton other sandbox

Code and Output:

Is command:

```
[root@sandbox ~]# hdfs dfs -ls /
Found 12 items
drwxrwxrwx - yarn
                     hadoop 0 2016-10-25 08:10 /app-logs
drwxr-xr-x - hdfs
                     hdfs
                                     0 2016-10-25 07:54 /apps
drwxr-xr-x - yarn hadoop
                                    0 2016-10-25 07:48 /ats
            - hdfs
                                     0 2016-10-25 08:01 /demo
                     hdfs
drwxr-xr-x
drwxr-xr-x - hdfs hdfs
                                    0 2016-10-25 07:48 /hdp
                                   0 2016-10-25 07:48 /mapred
0 2016-10-25 07:48 /mr-history
0 2016-10-25 07:47 /ranger
drwxr-xr-x - mapred hdfs
drwxrwxrwx - mapred hadoop
drwxr-xr-x - hdfs
                      hdfs
drwxrwxrwx - spark hadoop
drwxrwxrwx - spark hadoop
                                    0 2024-01-31 04:10 /spark-history
                                   0 2016-10-25 08:14 /spark-history
                                      0 2016-10-25 08:11 /tmp
drwxrwxrwx - hdfs
                      hdfs
drwxr-xr-x - hdfs
                      hdfs
                                     0 2016-10-25 08:11 /user
```

```
[root@sandbox ~]# hdfs dfs -ls -R /prayag
-rw-r--r- 1 root hdfs 0 2024-01-31 04:15 /prayag/myfile.txt
[root@sandbox ~]# ||
```

mkdir command:

```
root@sandbox ~]# hdfs dfs -mkdir /prayag1
root@sandbox ~]# hdfs dfs -ls /prayag1
root@sandbox ~]# hdfs dfs -ls /
ound 14 items
drwxrwxrwx - yarn
                     hadoop
                                    0 2016-10-25 08:10 /app-logs
drwxr-xr-x - hdfs
                     hdfs
                                    0 2016-10-25 07:54 /apps
drwxr-xr-x - yarn
                     hadoop
                                   0 2016-10-25 07:48 /ats
drwxr-xr-x - hdfs
                     hdfs
                                    0 2016-10-25 08:01 /demo
                                    0 2016-10-25 07:48 /hdp
drwxr-xr-x
          hdfs
                     hdfs
                                   0 2016-10-25 07:48 /mapred
drwxr-xr-x - mapred hdfs
drwxrwxrwx - mapred hadoop
                                   0 2016-10-25 07:48 /mr-history
drwxr-xr-x - root
                     hdfs
                                   0 2024-02-07 03:18 /prayag
                     hdfs
                                   0 2024-02-07 03:21 /prayag1
drwxr-xr-x - root
drwxr-xr-x - hdfs
                     hdfs
                                   0 2016-10-25 07:47 /ranger
                                  0 2024-02-07 03:22 /spark-history
0 2016-10-25 08:14 /spark2-history
drwxrwxrwx - spark
                     hadoop
                     hadoop
drwxrwxrwx - spark
drwxrwxrwx - hdfs
                     hdfs
                                   0 2016-10-25 08:11 /tmp
drwxr-xr-x - hdfs
                     hdfs
                                    0 2024-02-07 03:18 /user
[root@sandbox ~]#
```

touchz

command:

```
[root@sandbox ~]# hdfs dfs -touchz /prayag/myfile.txt
[root@sandbox ~]# hdfs dfs -ls /
```

cat

command:

```
[root@sandbox ~]# hdfs dfs -ls /prayag
Found 1 items
-rw-r--r- 3 raj_ops hdfs 13 2024-02-07 03:26 /prayag/prayag.txt
[root@sandbox ~]# hdfs dfs -cat/prayag.txt
-cat/prayag.txt: Unknown command
[root@sandbox ~]# hdfs dfs -cat /prayag.txt
Hello Prayag![root@sandbox ~]#
```

cp command:

mv

command:

rmr command:

```
[root@sandbox ~]# hdfs dfs -rm -r /prayag_copied
24/02/07 03:49:02 INFO fs.TrashPolicyDefault: Moved: 'hdfs://sandbox.hortonworks.com:8020/prayag_copied' to trash
orks.com:8020/user/root/.Trash/current/prayag_copied
[root@sandbox ~]# hdfs dfs -ls /prayag-copied
ls: `/prayag-copied': No such file or directory
[root@sandbox ~]#
```

du

command:

```
[root@sandbox ~]# hdfs dfs -du /prayag
13 /prayag/prayag.txt
[root@sandbox ~]#
```

dus

command:

```
[root@sandbox ~]# hdfs dfs -dus /prayag
dus: DEPRECATED: Please use 'du -s' instead.
13 /prayag
[root@sandbox ~]#
```

stat command:

```
[root@sandbox ~]# hdfs dfs -stat /prayag
2024-02-07 03:46:08
[root@sandbox ~]#
```

Setrep

command:

```
[root@sandbox ~]# hdfs dfs -setrep -R 4 /prayag
Replication 4 set: /prayag/prayag.txt
[root@sandbox ~]# hdfs dfs -ls /prayag
Found 1 items
-rw-r--r- 4 raj ops hdfs 13 2024-02-07 03:26 /prayag/prayag.txt
[root@sandbox ~]#
```