

Monday, 28 February 2022

Lab 2

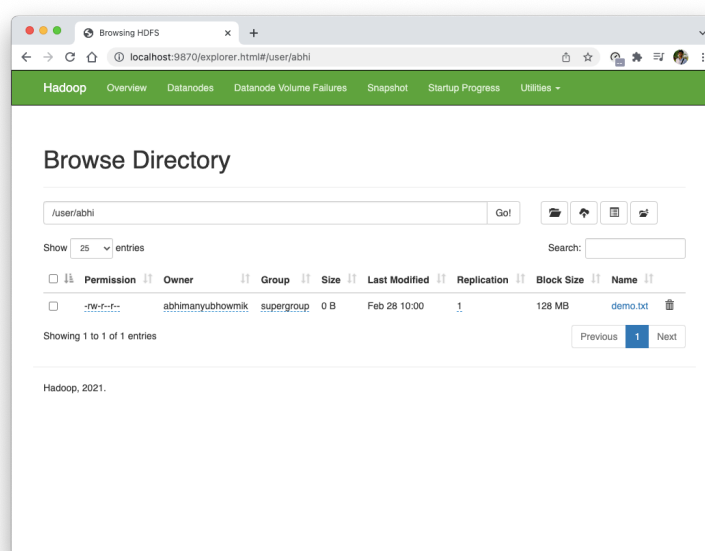
1. Make Directory: mkdir

```
ABHIMANYUs-MacBook-Air:sbin abhimanyubhowmik$ hadoop fs -mkdir /user
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 20:20:18,814 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
ABHIMANYUs-MacBook-Air:sbin abhimanyubhowmik$ hadoop fs -mkdir /user/abhi
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
```

2. Make File: touch

```
ABHIMANYUs-MacBook-Air:sbin abhimanyubhowmik$ hadoop fs -touch /user/abhi/demo.t
xt
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 20:21:48,142 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
ABHIMANYUs-MacBook-Air:sbin abhimanyubhowmik$
```

Command



Output

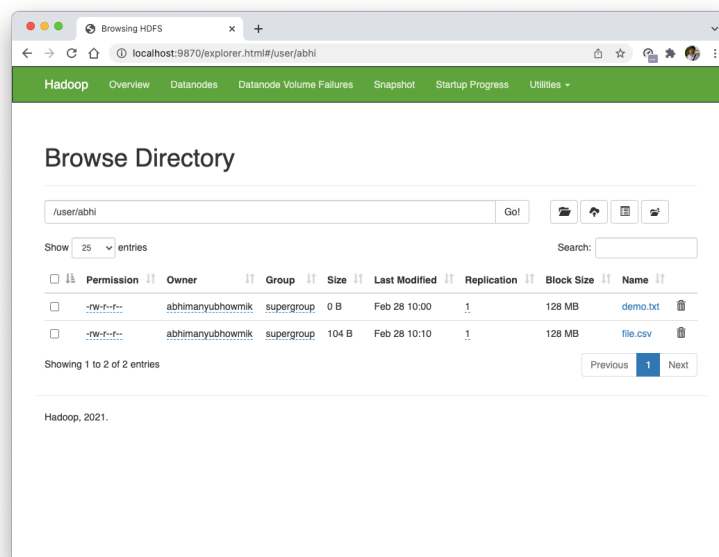
3. Put file from Local system: put

```
Desktop — vim file.csv — 80x24
Name, Enroll, Batch, University
abhimanyu bhowmik, A910119819008, B.Tech(AI), Amity University Kolkata
```

```
ABHIMANYUS-MacBook-Air:~ abhimanyubhowmik$ cd Desktop
ABHIMANYUS-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -put file.csv /user/abhi
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 20:28:42,317 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
ABHIMANYUS-MacBook-Air:Desktop abhimanyubhowmik$
```

File Creation

HDFS Command



Output

4. Showing the output of a file: cat

```
ABHIMANYUS-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -cat /user/abhi/file.
csv
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 10:25:07,288 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
Name, Enroll, Batch, University
abhimanyu bhowmik, A910119819008, B.Tech(AI), Amity University Kolkata
ABHIMANYUS-MacBook-Air:Desktop abhimanyubhowmik$
```

Command and output

5. Concatenate: appendToFile

```
Desktop -- -bash -- 80x24
be unarchived on the compute machines

The general command line syntax is:
command [genericOptions] [commandOptions]

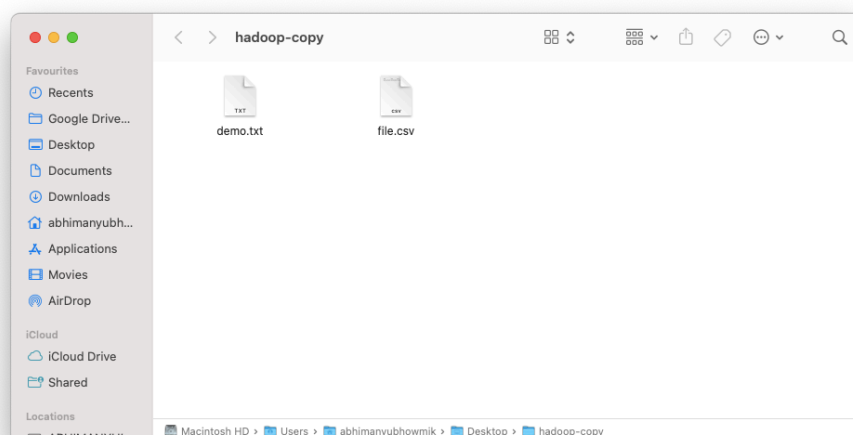
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ touch new-file.txt
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ vim new-file.txt
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -appendToFile new-file.txt user/abhi/demo.txt
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export : `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid identifier
2022-02-28 11:00:59,041 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -cat user/abhi/demo.txt
xt
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export : `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid identifier
2022-02-28 11:01:57,255 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Abhimanyu Bhowmik
Amity University Kolkata
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$
```

Command and Output

6. Fetch all files/directories: get

```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -get /user/abhi /Users/abhimanyubhowmik/Desktop/hadoop-copy
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export : `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid identifier
2022-02-28 10:23:53,320 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$
```

Command



Output

7. Display the last part of a file (1KB): tail

```
ABHIMANYUs-MacBook-Air:~ abhimanyubhowmik$ hadoop fs -tail user/abhi/demo.txt
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 11:42:55,426 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
Abhimanyu Bhowmik
Amity University Kolkata
ABHIMANYUs-MacBook-Air:~ abhimanyubhowmik$
```

Command and Output

8. Ownership of the file: chown

```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -chown rw-rw-rw- /user/
r/abhi/demo.txt
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:21:53,850 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -ls /user/abhi/demo.t
xt
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:22:19,304 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
-rw-r--r--  1 rw-rw-rw-  supergroup          0 2022-02-28 20:21 /user/abhi/demo.
txt
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$
```

Command and Output

9. Count number of files and directories: count

```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -count /user
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:42:49,854 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
      3          2          104 /user
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$
```

Command and Output

10. Statistical information on path: stat

```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -stat /user
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:46:55,694 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
2022-02-28 15:57:54
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$
```

Command and Output

11. Checksum information (value that represents the number of bits in a transmission message): checksum

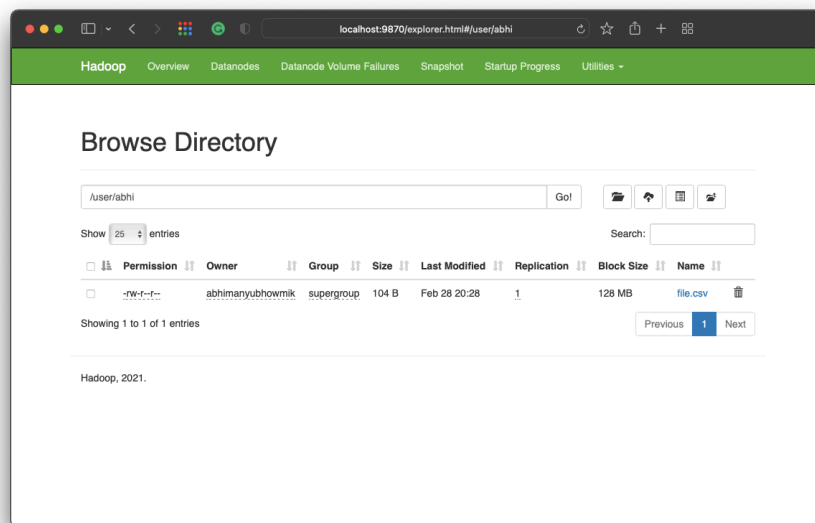
```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -checksum /user/abhi/
file.csv
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:48:38,149 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
/user/abhi/file.csv      MD5-of-0MD5-of-512CRC32C      00000200000000000000000000000000
f655b4a3b0f4e362920df0c0f3350ae3
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$
```

Command and Output

12. Remove file: rm

```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -rm /user/abhi/demo.t
xt
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:51:20,213 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
Deleted /user/abhi/demo.txt
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$
```

Command



Output

13. Empty Trash: expunge

```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -expunge
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:54:37,530 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$
```

Command

14. Disk Usage: du

```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -du /user
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:56:19,248 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
104 104 /user/abhi
```

Command and Output

15. Display the free space: df

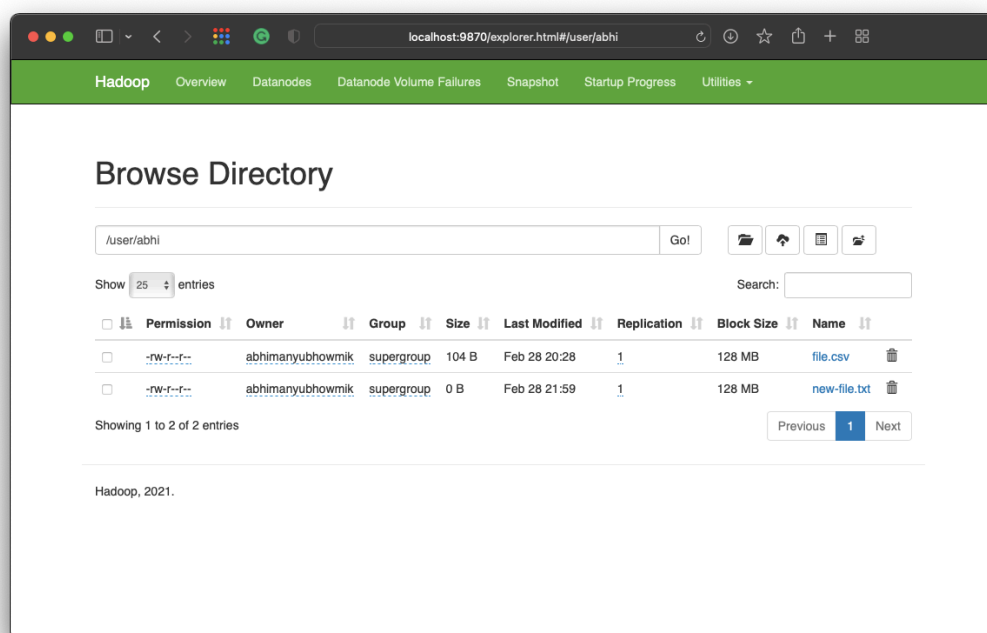
```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -df
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:57:33,687 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
Filesystem              Size      Used    Available  Use%
hdfs://localhost:9000  121123069952  16384  17219846144    0%
```

Command and Output

16. Creat file with current time as the timestamp of that path: touchz

```
ABHIMANYUs-MacBook-Air:Desktop abhimanyubhowmik$ hadoop fs -touchz /user/abhi/ne|
w-file.txt
/usr/local/Cellar/hadoop/3.3.1/libexec/etc/hadoop/hadoop-env.sh: line 54: export
: `/Library/Java/JavaVirtualMachines/jdk-11.0.5.jdk/Contents/Home': not a valid
identifier
2022-02-28 21:59:58,393 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable
```

Command



Output