Classpath::

Hdfs classpath

bin/hdfs classpath

/usr/local/hadoop-2.7.2/etc/hadoop:/usr/local/hadoop-2.7.2/share/hadoop/common/lib/\*:/usr/local/hadoop-2.7.2/share/hadoop/common/\*:/usr/local/hadoop-2.7.2/share/hadoop/hdfs:/usr/local/hadoop-2.7.2/share/hadoop/hdfs/lib/\*:/usr/local/hadoop-2.7.2/share/hadoop/hdfs/\*:/usr/local/hadoop-2.7.2/share/hadoop/yarn/lib/\*:/usr/local/hadoop-2.7.2/share/hadoop/yarn/\*:/usr/local/hadoop-2.7.2/share/hadoop/mapreduce/lib/\*:/usr/local/hadoop-2.7.2/share/hadoop/mapreduce/\*:/contrib/capacity-scheduler/\*.jar

Hdfs dfs

File system command

bin/hdfs dfs -appendToFile NOTICE.txt /books/NOTICE.txt

appenToFile

bin/hdfs dfs -appendToFile NOTICE.txt /books/NOTICE.txt

CAT command

bin/hdfs dfs -cat /books/NOTICE.txt

checksum

bin/hdfs dfs -checksum /books/NOTICE.txt

chgrp

bin/hdfs dfs -chgrp -R hadoop /books

chmod

bin/hdfs dfs -chmod -R 766 /nooks

chown:

bin/hdfs dfs -chown -R Hadoop /books

copyFromLocal

bin/hdfs dfs -copyFromLocal LICENSE.txt /books

copyToLocal

bin/hdfs dfs -copyToLocal books/LICENSE.txt /usr/local/hadoop/

**count**

Usage: hadoop fs -count [-q] [-h] [-v] <paths>

Count the number of directories, files and bytes under the paths that match the specified file pattern. The output columns with -count are: DIR\_COUNT, FILE\_COUNT, CONTENT\_SIZE, PATHNAME

The output columns with -count -q are: QUOTA, REMAINING\_QUATA, SPACE\_QUOTA, REMAINING\_SPACE\_QUOTA, DIR\_COUNT, FILE\_COUNT, CONTENT\_SIZE, PATHNAME

The -h option shows sizes in human readable format.

The -v option displays a header line.

bin/hdfs dfs -count -q -h -v /books

[hadoop@c1 hadoop]$ bin/hdfs dfs -count -q -h /books

none inf none inf 13 6 18.4 K /books

## cp

Usage: hadoop fs -cp [-f] [-p | -p[topax]] URI [URI ...] <dest>

Copy files from source to destination. This command allows multiple sources as well in which case the destination must be a directory.

‘raw.\*’ namespace extended attributes are preserved if (1) the source and destination filesystems support them (HDFS only), and (2) all source and destination pathnames are in the /.reserved/raw hierarchy. Determination of whether raw.\* namespace xattrs are preserved is independent of the -p (preserve) flag.

Options:

* The -f option will overwrite the destination if it already exists.
* The -p option will preserve file attributes [topx] (timestamps, ownership, permission, ACL, XAttr). If -p is specified with no *arg*, then preserves timestamps, ownership, permission. If -pa is specified, then preserves permission also because ACL is a super-set of permission. Determination of whether raw namespace extended attributes are preserved is independent of the -p flag.

Example:

* hadoop fs -cp /user/hadoop/file1 /user/hadoop/file2
* hadoop fs -cp /user/hadoop/file1 /user/hadoop/file2 /user/hadoop/dir

HDFS SANPSHOT

bin/hdfs dfsadmin -allowSnapshot /books

[hadoop@c1 hadoop]$ bin/hdfs dfsadmin -allowSnapshot /books

Allowing snaphot on /books succeeded

[hadoop@c1 hadoop]$ bin/hdfs dfs -ls /books/.snapshot/books

Found 14 items

-rw-r--r-- 2 hadoop hadoop 15429 2019-06-01 11:17 /books/.snapshot/books/LICENSE.txt

-rw-r--r-- 2 hadoop hadoop 212 2019-05-31 16:06 /books/.snapshot/books/NOTICE.txt

drwxr-xr-x - hadoop hadoop 0 2019-05-14 17:51 /books/.snapshot/books/us1

drwxr-xr-x - hadoop hadoop 0 2019-05-14 17:55 /books/.snapshot/books/us2

drwxr-xr-x - hadoop hadoop 0 2019-05-13 19:01 /books/.snapshot/books/user

drwxr-xr-x - hadoop hadoop 0 2019-05-13 19:09 /books/.snapshot/books/users

drwxr-xr-x - hadoop hadoop 0 2019-05-13 19:26 /books/.snapshot/books/userss

drwxr-xr-x - hadoop hadoop 0 2019-05-14 12:09 /books/.snapshot/books/usrs

drwxr-xr-x - hadoop hadoop 0 2019-05-14 12:39 /books/.snapshot/books/usrss

drwxr-xr-x - hadoop hadoop 0 2019-05-14 14:29 /books/.snapshot/books/uss

drwxr-xr-x - hadoop hadoop 0 2019-05-14 15:40 /books/.snapshot/books/uss1

drwxr-xr-x - hadoop hadoop 0 2019-05-14 16:15 /books/.snapshot/books/uss2

drwxr-xr-x - hadoop hadoop 0 2019-05-14 17:20 /books/.snapshot/books/uss3

drwxr-xr-x - hadoop hadoop 0 2019-05-14 12:48 /books/.snapshot/books/ussr

[hadoop@c1 hadoop]$ bin/hdfs dfs -createSnapshot /books books

createSnapshot: Failed to add snapshot: there is already a snapshot with the same name "books".

[hadoop@c1 hadoop]$ bin/hdfs dfs -createSnapshot /books books1

Created snapshot /books/.snapshot/books1

bin/hadoop fs -copyFromLocal README.txt /books

[hadoop@c1 hadoop]$ bin/hdfs snapshotDiff /books books books1

Difference between snapshot books and snapshot books1 under directory /books:

M .

+ ./README.txt

[hadoop@c1 hadoop]$

[hadoop@c1 hadoop]$ bin/hdfs lsSnapshottableDir

drwxr-xr-x 0 hadoop hadoop 0 2019-06-01 16:21 2 65536 /books

[hadoop@c1 hadoop]$ bin/hdfs dfs -df -h /

Filesystem Size Used Available Use%

hdfs://procurementCluster 55.6 G 286.1 M 38.9 G 1%

[hadoop@c1 hadoop]$ bin/hdfs dfs -du -h /

19.8 K /books

14.0 K /customers

4.9 K /products

139.0 M /tmp

18.5 K /user

[hadoop@c1 hadoop]$ bin/hdfs dfs -du -d /books

-du: Illegal option -d

Usage: hadoop fs [generic options] -du [-s] [-h] <path> ...

[hadoop@c1 hadoop]$ bin/hdfs dfs -du -s /books

20233 /books

[hadoop@c1 hadoop]$ bin/hdfs dfs -dus /books

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

20233 /books

[hadoop@c1 hadoop]$ bin/hadoop fs -expunge

19/06/01 17:46:09 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 0 minutes, Emptier interval = 0 minutes.

[hadoop@c1 hadoop]$