HDFS的Shell操作

基本格式

- 1. hadoop fs 具体命令 (我主要用这个)
- 2. hdfs dfs 具体命令

常用命令大全

• 启动Hadoop集群

```
strat-dfs.sh
start-yarn.sh
```

• -help:输出这个命令参数

```
hadoop fs -help ls
```

```
[hadoop@master root]$ hadoop fs -help ls
-ls [-d] [-h] [-R] [<path> ...] :
    List the contents that match the specified file pattern. If path is not
    specified, the contents of /user/<currentUser> will be listed. Directory entries
    are of the form:
        permissions - userId groupId sizeOfDirectory(in bytes)
    modificationDate(yyyy-MM-dd HH:mm) directoryName

and file entries are of the form:
        permissions numberOfReplicas userId groupId sizeOfFile(in bytes)
    modificationDate(yyyy-MM-dd HH:mm) fileName

-d Directories are listed as plain files.
-h Formats the sizes of files in a human-readable fashion rather than a number
    of bytes.
-R Recursively list the contents of directories.
```

• -ls:显示目录信息

```
hadoop fs -ls /
hadoop fs -ls -R / 递归查看
```

```
[hadoop@master root]$ hadoop fs -ls
-rw-r--r-- 2 hadoop supergroup
                                            4990963 2020-09-15 19:42 /a.txt
drwxr-xr-x - hadoop supergroup
drwxr-xr-x - hadoop supergroup
                                                  0 2020-09-09 19:40 /home
                                                   0 2020-09-14 23:33 /home/hadoop
-rw-r--r-- 3 hadoop supergroup
                                                  6 2020-09-14 23:33 /home/hadoop/hahaha.txt
                                           0 2020-09-15 19:29 /home/hadoop/input
4538523 2020-09-09 19:49 /home/hadoop/input/data.txt
drwxr-xr-x - hadoop supergroup
-rw-r--r-- 3 hadoop supergroup
rw-r--r-- 3 root
                                                  6 2020-09-15 19:30 /home/hadoop/input/hahaha.txt
                           supergroup
                                                  0 2020-09-09 20:18 /input
0 2020-09-18 20:16 /mr-history
-rw-r--r-- 3 hadoop: supergroup
drwxrwx---
              - root
                           supergroup
drwxrwx---
              - root
                           supergroup
                                                  0 2020-09-18 20:16 /mr-history/done
                                                  0 2020-09-18 20:16 /mr-history/mapred
0 2020-09-18 20:16 /mr-history/mapred/tmp
0 2020-09-09 21:16 /output
drwxr-xr-x - root
                           supergroup
              - root
drwxrwxrwt
                           supergroup
drwxr-xr-x
             - root
                           supergroup
              - root
                                                   0 2020-09-09 21:17 /output/temp
drwxr-xr-x
                           supergroup
drwxr-xr-x
                                                   0 2020-09-17 19:45 /root
               - root
                           supergroup
```

• mkdir: 在HDFS上创建目录

hadoop fs -mkdir -p /input/word_data

• -moveFromLocal: 本地剪切粘贴到HDFS

touch new_data.txt 创建文件 hadoop fs -moveFromLocal ./new_data.txt /input/

• -appendoFile: 追加一个文件到已经存在的文件末尾

echo "helloword" >> helloword.txt hadoop fs -appendToFile ./helloword.txt /input/new_data.txt

• -cat: 显示文件内容

hadoop fs -cat /input/new_data.txt

• -chgrp、-chmod、-chown: Linux文件系统中的用法一样,修改文件所属权限

hadoop fs -chomd 777 /input hadoop fs -chown hadoop:hadoop /input

• -copyFromLocal: 本地文件系统中拷贝文件到HDFS路径去

hadoop fs -copyFromLocal ./helloword.txt /input

• -copyToLocal: 从HDFS拷贝到本地文件

hadoop fs -copyToLocal /input/helloeord.txt ./

• -cp: 从HDFS的一个路径拷贝到HDFS的另一个路径

hadoop fs -cp /input/helloword.txt /output/helloword.txt

• -mv: 在HDFS目录中移动文件

hadoop fs -mv /input/new_data.txt /output/new_data.txt

• -get: 等同于copyToLocal, 就是从HDFS下载文件到本地

hadoop fs -get /input/hellowword.txt ./

• getmerge:合并下载多个文件,比如HDFS的目录/input/下有多个文件:input.1,input.2...

hadoop fs -getmerge /input/* ./together.txt

• -put: 等同于copyFromLocal

hadoop fs -put ./together.txt /input

• -tail: 显示一个文件的末尾

hadoop fs -tail /input/helloword.txt

• -rm: 删除文件或文件夹

hadoop fs -rm /output/new_data.txt

• -rmdir: 删除空目录

hadoop fs -mkdir /test

• -du 统计文件夹的大小信息

hadoop fs -du -h /input/helloword.txt

• -setrep: 设置HDFS中文件的副本数量

hadoop fs -setrep 10 /input/helloword.txt