

HDFS 实验

# HDFS 命令

# Shell 命令

● HDFS的命令行格式: hadoop fs -cmd < args>

- cmd: 具体的指令内容

- <args>: 一系列可变的参数

命令
cat
chmod
chown
copyFromLocal
copyToLocal
ср
get
ls
mkdir
moveFromLocal
mv
put
rm
tail

# 文件目录查询

● HDFS 命令: Is

● 命令说明:查询HDFS分布式文件系统的文件和子目录

● 命令实例: hadoop fs -ls /

```
[fangcheng@Master ~]$ hadoop fs -ls /
Found 2 items
drwxrwxrwt - hdfs supergroup 0 2015-12-11 14:59 /tmp
drwxr-xr-x - hdfs supergroup 0 2015-12-08 14:24 /user
```

# 创建目录

● HDFS 命令: mkdir

● 命令说明:在HDFS分布式文件系统的指定位置创建目录

● 命令实例: hadoop fs –mkdir /user/fangcheng/test

```
[fangcheng@Master ~]$ hadoop fs -mkdir /user/fangcheng/test
[fangcheng@Master ~]$ hadoop fs -ls /user/fangcheng/
Found 2 items
drwx----- - fangcheng fangcheng 0 2015-12-11 15:06 /user/fangcheng/.Trash
drwxr-xr-x - fangcheng fangcheng 0 2015-12-11 15:07 /user/fangcheng/test
```

#### 上传文件到HDFS

- HDFS 命令: put
- 命令说明:将文件或目录从本地文件系统移动复制到HDFS上
- 命令实例: hadoop fs –put /home/fangcheng/word.txt /user/fangcheng/test

```
[fangcheng@Master ~]$ ls
word.txt
[fangcheng@Master ~]$ hadoop fs -put /home/fangcheng/word.txt /user/fangcheng/test
[fangcheng@Master ~]$ hadoop fs -ls /user/fangcheng/test
Found 1 items
-rw-r--r-- 3 fangcheng fangcheng 85 2015-12-11 15:11 /user/fangcheng/test/word.txt
```

#### 从HDFS复制文件到本地

- HDFS 命令: get
- 命令说明:从HDFS分布式文件系统复制文件到本地文件系统
- 命令实例: hadoop fs –get /user/fangcheng/test/word.txt /home/fangcheng/word1.txt

```
[fangcheng@Master ~]$ ls
word.txt
[fangcheng@Master ~]$ hadoop fs -get /user/fangcheng/test/word.txt /home/fangcheng/word1.txt
[fangcheng@Master ~]$ ls
word1.txt word.txt
[fangcheng@Master ~]$ ■
```

#### 复制HDFS上的文件

- HDFS 命令:cp
- 命令说明:从HDFS分布式文件系统上复制文件或目录到指定目录
- 命令实例: hadoop fs -cp /user/fangcheng/test/word.txt /user/fangcheng/

# 移动HDFS上的文件

- HDFS 命令: mv
- 命令说明:将HDFS分布式文件系统上的文件或目录从源路径移动到目的路径
- 命令实例: hadoop fs -mv /user/fangcheng/word.txt /user/fangcheng/test/word1.txt

```
[fangcheng@Master ~]$ hadoop fs -ls /user/fangcheng/test
Found 1 items
 -rw-r--r-- 3 fangcheng fangcheng 85 2015-12
[fangcheng@Master ~]$ hadoop fs -ls /user/fangcheng/
                                                                             85 2015-12-11 15:11 /user/fangcheng/test/word.txt
 Found 3 items
 drwx----- - fangcheng fangcheng
drwxr-xr-x - fangcheng fangcheng
                                                                               0 2015-12-11 15:06 /user/fangcheng/.Trash
0 2015-12-11 15:40 /user/fangcheng/test
 -rw-r--r-- 3 fangcheng fangcheng 85 2015-12-11
[fangcheng@Master ~]$ hadoop fs -ls /user/fangcheng/test
                                                                             85 2015-12-11 15:41 /user/fangcheng/word.txt
 Found 1 items
-rw-r--r-- 3 fangcheng fangcheng 85 2015-12-11 15:11 /user/fangcheng/test/word.txt
[fangcheng@master ~]$ hadoop fs -mv /user/fangcheng/word.txt /user/fangcheng/test/word1.txt
[fangcheng@master ~]$ hadoop fs -ls /user/fangcheng/test
Found 2 items
                                                                             85 2015-12-11 15:11 /user/fangcheng/test/word.txt
-rw-r--r-- 3 fangcheng fangcheng 85 2015-1:
-rw-r--r-- 3 fangcheng fangcheng 85 2015-1:
[fangcheng@Master ~]$ hadoop fs -ls /user/fangcheng/
                                                                             85 2015-12-11 15:11 /user/fangcheng/test/word.txt
85 2015-12-11 15:41 /user/fangcheng/test/word1.txt
Found 2 items
drwx----- - fangcheng fangcheng
drwxr-xr-x - fangcheng fangcheng
[fangcheng@Master ~1$]
                                                                               0 2015-12-11 15:06 /user/fangcheng/.Trash
0 2015-12-11 15:42 /user/fangcheng/test
```

# 删除HDFS上的文件

- HDFS 命令:rm
- 命令说明:删除HDFS分布式文件系统上的文件或空目录
- 命令实例: hadoop fs -rm /user/fangcheng/test/word1.txt

```
[fangcheng@Master ~]$ hadoop fs -ls /user/fangcheng/test/
Found 2 items
-rw-r--r-- 3 fangcheng fangcheng 85 2015-12-11 15:11 /user/fangcheng/test/word.txt
-rw-r--r-- 3 fangcheng fangcheng 85 2015-12-11 15:41 /user/fangcheng/test/word1.txt
[fangcheng@Master ~]$ hadoop fs -rm /user/fangcheng/test/word1.txt

15/12/11 15:45:27 INFO fs.TrashPolicyDefault: Namenode trash configuration: Deletion interval = 1440 minutes, Emptier interval = 0 minutes.

Moved: 'hdfs://Master:8020/user/fangcheng/test/word1.txt' to trash at: hdfs://Master:8020/user/fangcheng/.Trash/Current
[fangcheng@Master ~]$ hadoop fs -ls /user/fangcheng/test/
Found 1 items
-rw-r--r-- 3 fangcheng fangcheng 85 2015-12-11 15:11 /user/fangcheng/test/word.txt
```

# 显示HDFS上的文件内容

- HDFS 命令: cat
- 命令说明:显示HDFS分布式文件系统上的非压缩文件的内容
- 命令实例: hadoop fs -cat /user/fangcheng/test/word.txt

```
[fangcheng@Master ~]$ hadoop fs -cat /user/fangcheng/test/word.txt
hello world
word count
hello hello
how are you
thank you
hadoop
map reduce
big data
```

# 显示HDFS上的文件尾部内容

- HDFS 命令: tail
- 命令说明:显示HDFS分布式文件系统上文件的最后1kb数据内容
- 命令实例: hadoop fs -tail /user/fangcheng/test/word.txt

```
[fangcheng@Master ~]$ hadoop fs -tail /user/fangcheng/test/word.txt
hello world
word count
hello hello
now are you
thank you
nadoop
map reduce
big data
```