HDFS Shell



Agenda

- HDFS Shell
- Basic Shell Commands
- Moving Data
- Deleting Data
- File stats

HDFS Shell Commands

- Used to Interact with HDFS File System
 - \$hdfs dfs -<command> -<option> <URI>
- Example
 - \$hdfs dfs -ls /
- URI usage:
 - HDFS: \$hdfs dfs -ls hdfs://localhost/to/path/dir
 - Local: \$hdfs dfs -ls file:///to/path/file3
- Schema and namenode host is optional, default is used from the configuration In core-site.xml
 - fs.default.name property

HDFS Shell Commands

- cat stream source to stdout
 - entire file: \$hdfs dfs -cat /dir/file.txt
- Almost always a good idea to pipe to head or tail
- Get the fist 25 lines of file.txt
 - \$hdfs dfs -cat /dir/file.txt | head -n 25

HDFS Shell Commands

- cp copy files from source to destination
 - \$hdfs dfs -cp /dir/file1 /otherDir/file2
- Is for a file displays stats, for a directory displays immediate children
 - + \$hdfs dfs -ls /dir/
- mkdir create a directory
 - + \$hdfs dfs -mkdir /brandNewDir

HDFS Shell - Moving Data

- mv move from source to destination
 - \$hdfs dfs -mv /dir/file1 /dir2/file2
- put copy file from local filesystem to hdfs
 - \$hdfs dfs -put localfile /dir/file1
 - Can also use copyFromLocal
- get copy file to the local filesystem
 - \$hdfs dfs -get /dir/file localfile
 - Can also use copyToLocal

HDFS Shell - Deleting Data

- rm delete files
 - \$hdfs dfs -rm /dir/fileToDelete
- rm -r delete directories recursively
 - \$hdfs dfs -rm -r /dirWithStuff

HDFS Shell - Filesystem Stats

- du displays length for each file/dir (in bytes)
 - + \$hdfs dfs -du /someDir/
- Add -h option to display in human readable format instead of bytes
 - \$hdfs dfs -du -h /someDir

Resources

Hadoop: The Definitive Guide

- Tom White (Author)
- O'Reilly Media; 4th Edition.

