## **HADOOP ARCHIVES**

#### Overview

Hadoop archives are special format archives.

A Hadoop archive maps to a file system directory.

A Hadoop archive always has a \*.har extension.

A Hadoop archive directory contains metadata (in the form of index and masterindex) and data (part-\*) files.

The \_index file contains the name of the files that are part of the archive and the location within the part files.

#### **How to Create an Archive**

# Usage: hadoop archive -archiveName name -p <parent> <src>\* <dest>

## **Archives Examples**

## **Creating an Archive**

hadoop archive -archiveName **foo.har** -p /**user/hadoop** dir1 dir2 /**user/zoo** 

The above example is creating an archive using /user/hadoop as the relative archive directory. The directories /user/hadoop/dir1 and /user/hadoop/dir2 will be archived in the following file system directory -- /user/zoo/foo.har. Archiving does not delete the input files.

#### **Looking Up Files**

Looking up files in hadoop archives is as easy as doing an ls on the filesystem. After you have archived the directories /user/hadoop/dir1 and /user/hadoop/dir2 as in the example above, to see all the files in the archives you can just run:

hadoop dfs -lsr har:///user/zoo/foo.har/

#### **Hadoop Archives and MapReduce**

Using Hadoop Archives in MapReduce is as easy as specifying a different input filesystem than the default file system. If you have a hadoop archive stored in HDFS in /user/zoo/foo.har then for using this archive for MapReduce input, all you need to specify the input directory as har:///user/zoo/foo.har. Since Hadoop Archives is exposed as a file system MapReduce will be able to use all the logical input files in Hadoop Archives as input.