实验题目:

实验 2: HDFS 配置与操作

实验环境:

阿里云服务器 Linux centos7 操作系统; Mac 端 SSH 连接阿里云服务器;

实验技术原理:

【实验准备】hadoop 伪分布式配置与测试

Hadoop 伪分布式配置是在没有多台计算机节点的情况下,对 hadoop 的分布 式存储和计算进行模拟安装和配置。通过在一台计算机节点上解压 hadoop 安 装压缩包后,然后进行 hadoop 相关文件进行配置,让 hadoop 的核心进程都 运行在同一台机器上并实现对数据存储和计算的测试支持。此时的配置环境 并没有达到真实的分布式存储和分布式计算。

【3-1】HDFS 命令操作1

安装好 hadoop 环境之后,可以执行 hdfs shell 命令进行对 hdfs 的空间进行 操作。我们通过命令行和 HDFS 打交道,进一步增加对 HDFS 的认识, HDFS 命 令行接口是一种最直接,也比较简单的一种方式。

调用文件系统(FS)Shell 命令应使用 bin/hadoop fs 的形式。也可以使用其 他形式:

hadoop dfs {args}

hdfs dfs {args}

所有的 FS shell 命令使用 URI 路径作为参数。URI 格式是

scheme://authority/path。HDFS的 scheme 是 hdfs, 对本地文件系统, scheme 是 file。其中 scheme 和 authority 参数都是可选的, 如果未加指定, 就会使用配置中指定的默认 scheme。

【3-2】HDFS 命令操作 2

安装好 hadoop 环境之后,可以执行 hdfs shell 命令进行对 hdfs 的空间进行 操作。我们通过命令行和 HDFS 打交道,进一步增加对 HDFS 的认识, HDFS 命 令行接口是一种最直接,也比较简单的一种方式。

调用文件系统(FS)Shell 命令应使用 bin/hadoop fs 的形式。也可以使用其他形式:

hadoop dfs $\{args\}$

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【3-3】HDFS 验证存储块信息

DataNode 是文件系统的工作节点,他们根据客户端或者是 namenode 的调度存储和检索数据,并且定期向 namenode 发送他们所存储的块(block)的列表。

文件块(block):最基本的存储单位。对于文件内容而言,一个文件的 长度大小是 size,那么从文件的 0 偏移开始,按照固定的大小,顺序对文件 进行划分并编号,划分好的每一个块称一个 Block。HDFS 默认 Block 大小是 128MB,以一个 256MB 文件,共有 256/128=2 个 Block.

可以在配置里指定 dfs. block. size 属性的大小,不同于普通文件系统的是, HDFS 中,如果一个文件小于一个数据块的大小,并不占用整个数据块存储空间,Replication。多复本。默认是三个。hdfs-site. xml的 dfs. replication 属性。但本次实验中 dfs. replication=1

【额外实验】Hadoop Streaming 接口

Hadoop Streaming 接口是用 Java 实现一个包装用户程序的 MapReduce 程序, 该程序负责调用 MapReduce Java 接口获取 key/value 对输入,创建一个新的 进程启动包装的用户程序,将数据通过管道传递给包装的用户程序处理,然 后调用 MapReduce Java 接口将用户程序的输出切分成 key/value 对输出。 Streaming 优点:

1) 开发效率高,便于移植只要按照标准输入输出格式进行编程,就可以满足 hadoop要求。因此单机程序稍加改动就可以在集群上进行使用。同样便于测 试只要按照 cat input | mapper | sort | reducer > output 进行单机测试 即可。如果单机测试通过,大多数情况是可以在集群上成功运行的,只要控 制好内存就好了。

2) 提高程序效率。有些程序对内存要求较高,如果用 java 控制内存毕竟不如 C/C++。

Streaming 不足:

1) Hadoop Streaming 默认只能处理文本数据,无法直接对二进制数据进行处理

2) Streaming 中的 mapper 和 reducer 默认只能向标准输出写数据,不能方便 地处理多路输出。



置文件 hdfs-site.xml



2.5 在\$HADOOP_HOME/etc/hadoop 目录下查看是否有配置文件 mapred-site.xml。目录下 默 认 情 况 下 没 有 该 文 件 , 可 通 过 执 行 如 下 命 令 : mv mapred-site.xml.template mapred-site.xml 修改 一个文件的命名,然后执行编辑文件命令: vi mapred-site.xml 并修改该文 件内容

2.6 在\$HADOOP_HOME/etc/hadoop 目录下执行 vi yarn-site.xml 并修改配 置文件内容如下



| <pre>(base) [root@ferry 11280 NodeManager 13619 NameNode 17847 Jps 15563 SecondaryNam 10972 ResourceMana 20351 DataNode</pre> | nadoop]# jps eNode ger |
|--|--|
| 2.10 测试 hdfs 和 yarn 地 址栏中 输 入 : http IP 为自己虚拟机上面的 Hadoop Overview Datan | (推 荐 火 狐浏 览 器), 首 先 在 浏览 器 :// 47.113.102.106:50070 (HDFS 管理界面)(本 IP,端口不变)。 如图所示 odes Snapshot Startup Progress Utilities - |
| Overview 'ferry. | szu:9000' (active) |
| Started: | Sat Apr 25 12:30:11 CST 2020 |
| Version: | 2.4.1, r1604318 |
| Compiled: | 2014-06-21T05:43Z by jenkins from branch-2.4.1 |
| Cluster ID: | CID_89483fbf_6eb6_4fa7_83d5_7643f5670372 |
| Plack Paol ID: | |
| Summary 在浏览器的地址栏中输入 (本 IP 为自 己虚拟机_ | : http:// 47.113.102.106:8088 (MR 管理界面) 上面的 IP,端口不变)。如图所示 |
| | All Applications |
| About Nodes Applications NEW_SAVING SUBMITTED ACCEPTED RUNNING FINISHED FAILED Scheduler Apps Apps Submitted Pending 0 0 Show zo ÷ entries Showing 0 to 0 of 0 entries | Apps Apps Apps Containers Memory Memory Memory Active Decommissioned Lost U Running Completed Running Used Total Reserved Nodes Nodes Nodes Nodes 0 0 0 0 B 8 GB 0 B 1 Q Q Q Sear Application Type © Queue © StartTime o FinishTime © State o FinalStatus © Progress Progress No data available in table |
| 这里值得说明的是,由于 端口安全组,如图所示: | 使用的是阿里云服务器,所以要在后台管理处添加 |



(base) [root@ferry hadoop]# hdfs dfs -help Usage: hadoop fs [generic options] [-appendToFile <localsrc> ... <dst>] [-cat [-ignoreCrc] <src> ...] [-checksum <src> ...] [-chgrp [-R] GROUP PATH...] [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...] [-chown [-R] [OWNER][:[GROUP]] PATH...] [-copyFromLocal [-f] [-p] <localsrc> ... <dst>] [-copyToLocal [-p] [-ignoreCrc] [-crc] <src> ... <localdst>] [-count [-q] <path> ...] [-cp [-f] [-p] <src> ... <dst>] [-createSnapshot <snapshotDir> [<snapshotName>]] [-deleteSnapshot <snapshotDir> <snapshotName>] [-df [-h] [<path> ...]] [-du [-s] [-h] <path> ...] [-expunge] [-get [-p] [-ignoreCrc] [-crc] <src> ... <localdst>]

1.4 在 simple 下执行 touch words.txt 新建 words.txt 文本,并对文本进行编译(通过 vim words.txt 命令对文本进行编译,之后按 esc 与 wq 对文本进行保存)。



上传本地 (/ simple/words. txt) 到 hdfs 文件命令。执行命令: hdfs dfs -put ~/simple/words txt/。

(base) [root@ferry hadoop-2.4.1]# cd ~/simple (base) [root@ferry simple]# hdfs dfs -put ~/simple/words.txt /

1.5 查看 hdfs 指定目录下的文件内容命令。执行命令: hdfs dfs -cat /words.txt。如图所示

(base) [root@ferry simple] # hdfs dfs -cat /words.txt Java HotSpot(TM) 64-Bit Server VM warning: You have loaded lik 0 which might have disabled stack guard. The VM will try to fi It's highly recommended that you fix the library with 'execsto 20/04/25 18:49:52 WARN util.NativeCodeLoader: Unable to load r a classes where applicable Hello,I am test! (base) [root@ferry simple]#

1.6 把 hdfs 根目录下的 words.txt 文件下载到本地/simple 目录下。执行 命令: hdfs dfs -get /words.txt /simple/word.txt。如图所示



1.2 启动 hdfs 之后, 通过 jps 查看 hdfs 服务是否启动, 执行命令: jps 。 如图所示

| (base) [root@ferry hadoop-2.4.1]# jps | |
|---------------------------------------|--|
| 17440 NameNode | |
| 17842 DataNode | |
| 20534 Jps | |
| 19704 ResourceManager | |
| 18361 SecondaryNameNode | |
| 19981 NodeManager | |

1.3 在任意目录下执行如下命令(配置 hadoop 环境变量): hdfs dfs-help, 查看到所有 hdfs shell 命令解释。如图所示

(base) [root@ferry hadoop]# hdfs dfs -help Usage: hadoop fs [generic options] [-appendToFile <localsrc> ... <dst>] [-cat [-ignoreCrc] <src> ...] [-checksum <src> ...] [-chgrp [-R] GROUP PATH...] [-chmod [-R] <MODE[,MODE]... | OCTALMODE> PATH...] [-chown [-R] [OWNER][:[GROUP]] PATH...] [-copyFromLocal [-f] [-p] <localsrc> ... <dst>] [-copyToLocal [-p] [-ignoreCrc] [-crc] <src> ... <localdst>] [-count [-q] <path> ...] [-cp [-f] [-p] <src> ... <dst>] [-createSnapshot <snapshotDir> [<snapshotName>]] [-deleteSnapshot <snapshotDir> <snapshotName>] [-df [-h] [<path> ...]] [-du [-s] [-h] <path> ...] [-expunge] [-get [-p] [-ignoreCrc] [-crc] <src> ... <localdst>] 1.4 appendToFile 的使用: 假如 hdfs 上已经存在一个文件 words.txt, 具 有一些信息, 假如不存在 words.txt,先在本地通过 touch

/simple/words.txt 在 simple 下创建 words.txt 文件,并通过 vim 命令 进行编译。

(base) [root@ferry simple]# ls core-site.xml hadoop-2.4.1 Hadoop-2.4.1 HelloWorld.class hw Hw Hw.c jdk soft words.txt word.txt 然后通过 hdfs dfs -put /simple/words.txt /上传到 hdfs 根目录 (base) [root@ferry simple]# hdfs dfs -put ~/simple/words.txt /

上传完毕后通过 hdfs dfs - cat /words.txt 进行查看

(base) [root@ferry simple]# hdfs dfs -cat /words.txt Java HotSpot(TM) 64-Bit Server VM warning: You have loaded libr 0 which might have disabled stack guard. The VM will try to fix It's highly recommended that you fix the library with 'execstac 20/04/25 19:02:22 WARN util.NativeCodeLoader: Unable to load na a classes where applicable Hello,I am test! 在本地 simple 文件夹中建立 words. txt, 把指定的本地文件中 (/simple/words.txt)的内容追加到到 hdfs 系 统的 words.txt 文件。执行命 令: `hdfs dfs -appendToFile /simple/words.txt /words.txt `。从下面 的命令可以看出,hdfs中的文件 words.txt 中的内容多一部分。如图所示 (base) [root@ferry simple]# hdfs dfs -appendToFile ~/simple/words.txt /words.txt Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple/hadoop-2.4.1 0 which might have disabled stack guard. The VM will try to fix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it w 20/04/25 19:04:08 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your a classes where applicable (base) [root@ferry simple]# hdfs dfs -cat /words.txt Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple/hadoop-2.4.1 0 which might have disabled stack guard. The VM will try to fix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it w 20/04/25 19:04:26 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your a classes where applicable Hello,I am test! Hello,I am test! 1.5 rmr 循环删除 hdfs 系统中的目录。 执行命令前,通过 hdfs dfs -1s / 命令可以看到 hdfs 根目录如下图所示: (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM w ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>' with '-z noexecstack'. 20/04/25 19:05:48 WARN util.NativeCodeLoader: Unable to load native-hadoop libr platform... using builtin-java classes where applicable Found 2 items -rw-r--r-- 1 root supergroup 34 2020-04-25 19:04 /words.txt -rw-r--r-- 1 root supergroup 17 2020-04-25 18:49 /wordscp.txt 执行命令: hdfs dfs -rmr /words.txt

| (base) [root@ferry simple]# hdfs dfs -rmr /words.txt |
|---|
| rmr: DEPRECATED: Please use 'rm -r' instead. |
| Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library |
| 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack gu |
| ix the stack guard now. |
| It's highly recommended that you fix the library with 'execstack - |
| with '-z noexecstack'. |
| 20/04/25 19:06:17 WARN util.NativeCodeLoader: Unable to load nativ |
| platform using builtin-java classes where applicable |
| 20/04/25 19:06:18 INFO fs.TrashPolicyDefault: Namenode trash confi |
| al = 0 minutes, Emptier interval = 0 minutes. |
| Deleted /words.txt |
| 执行命令后,通过 hdfs dfs -1s / 命令可以看到 hdfs 根目录下的 |
| words.txt 义件被删除了。 |
| (base) [root@terry simple] # nats ats -ls / |
| 1/lib/native/libhadoon so 1 0 0 which might have disabled stack award. Th |
| ix the stack award now. |
| It's highly recommended that you fix the library with 'execstack -c <libf< th=""></libf<> |
| with '-z noexecstack'. |
| 20/04/25 19:06:36 WARN util.NativeCodeLoader: Unable to load native-hadoo |
| platform using builtin-java classes where applicable |
| Found 1 items |
| -rw-rr 1 root supergroup 17 2020-04-25 18:49 /wordscp.txt |
| (base) [root@ferry simple]# |
| 1.6 touchz 的使用: 在 hdfs 系统指定的目录下创建一个文件。执行命令: |
| nais ais -toucnz /newword.txt。如图所示: |
| |
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(base) [root@ferry simple] hdfs dfs -touchz /newword.txt Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/ 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. Th ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libf with '-z noexecstack'. 20/04/25 19:08:22 WARN util.NativeCodeLoader: Unable to load native-hadoo platform... using builtin-java classes where applicable (base) [root@ferry simple] # hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/ 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. Th ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libf with '-z noexecstack'. 20/04/25 19:08:30 WARN util.NativeCodeLoader: Unable to load native-hadoo platform... using builtin-java classes where applicable Found 2 items -rw-r--r- 1 root supergroup 0 2020-04-25 19:08 /newword.txt 17 2020-04-25 18:49 /wordscp.txt -rw-r--r-- 1 root supergroup (base) [root@ferry simple]# 1.7 rmdir 的使用:在 hdfs 系统的指定位置创建一个目录,执行命令: hdfs dfs -mkdir -p /aa/bb.

(base) [root@ferry simple] hdfs dfs -mkdir -p /aa/bb Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/ 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. Th ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libf with '-z noexecstack'. 20/04/25 19:10:00 WARN util.NativeCodeLoader: Unable to load native-hadoo platform... using builtin-java classes where applicable (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/ 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. Th ix the stack quard now. It's highly recommended that you fix the library with 'execstack -c <libf with '-z noexecstack'. 20/04/25 19:10:09 WARN util.NativeCodeLoader: Unable to load native-hadoo platform... using builtin-java classes where applicable Found 3 items 0 2020-04-25 19:10 /aa drwxr-xr-x - root supergroup 0 2020-04-25 19:08 /newword.txt -rw-r--r-- 1 root supergroup -rw-r--r-- 1 root supergroup 17 2020-04-25 18:49 /wordscp.txt (base) [root@ferry simple]# 1.8 moveFromLocal 的使用:把指定的本地的文件移到 hdfs 系统指定的位 置,执行命令: hdfs dfs -moveFromLocal /simple/words.txt /aa 。 (base) [root@ferry simple]# hdfs dfs -moveFromLocal ~/simple/words.txt /aa 执行命令后,通过 hdfs dfs -1s / 命令可以看到 hdfs 根目录下的 words.txt 文件移动到/aa 目录下了。 (base) [root@ferry simple]# hdfs dfs -ls /aa/ Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple/had 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM will ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>', or with '-z noexecstack'. 20/04/25 19:12:05 WARN util.NativeCodeLoader: Unable to load native-hadoop library platform... using builtin-java classes where applicable Found 2 items

 drwxr-xr-x
 - root supergroup
 0 2020-04-25 19:10 /aa/bb

 -rw-r--r- 1 root supergroup
 17 2020-04-25 19:11 /aa/words.txt

 (base) [root@ferry simple]# 1.9 chgrp 的使用: 执行命令前,通过 hdfs dfs -ls / 命令可以看到 hdfs 根目录下文件的用户 所属组为 supergroup, 如下图所示:



| Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /roo 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <1 with '-z noexecstack'. 20/04/25 19:22:48 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 items drwxr-xr-x root root 0 2020-04-25 19:11 /aa -rw-r-r root root 0 2020-04-25 19:08 /newword.txt -rw-r-r root root 17 2020-04-25 18:49 /wordscp.txt 执行命令; hdfs dfs -chmod -R 777 /. 执行命令后, 通过 hdfs dfs -ls / 命令可以看到 hdfs 根目录下文件的权限发生改变。 (base) [root@ferry simple]4 hdfs dfs -chmod -R 777 / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /roo 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:22:57 WARN util.NativeCodeLoader: Unable to load native-haa platform using builtin-java classes where applicable (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /roo 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:22:57 WARN util.NativeCodeLoader: Unable to load native-haa platform using builtin-java classes where applicable (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /roo 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-haa platform using builtin-java classes where applicable Found 3 item drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 17 2020-04-25 19:0</li </li </li | (base) [root | @ferry simple] h | dfs dfs -ls / | | | |
|---|---|--|--|--|--|--|
| 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c with '-z noexecstack'. 20/04/25 19:22:48 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 items drwxr-xr-x root root 0 2020-04-25 19:11 /aa -rw-r-r root root 0 2020-04-25 19:08 /newword.txt -rw-r-r root root 17 2020-04-25 18:49 /wordscp.txt bfade hdfs dfs -chmod -R 777 /. 执行命令后, 通过 hdfs dfs -ls / acyout(TM) 64-Bit Server VM warning: You have loaded library /root 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c with '-z noexecstack'. 20/04/25 19:22:57 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where appl | Java HotSpot | Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /ro | | | | |
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| <pre>with '-z noexecstack'. 20/04/25 19:22:57 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</li </pre> | It's highly recommended that you fix the library with 'execstack -c <li< td=""></li<> | | | | | |
| 20/04/25 19:22:57 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /roo 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</li | with '-z noexecstack'. | | | | | |
| <pre>platform using builtin-java classes where applicable (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /roo 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</li </pre> | 20/04/25 19:22:57 WARN util.NativeCodeLoader: Unable to load native-had | | | | | |
| <pre>(base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c ii with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</pre> | platform using builtin-java classes where applicable | | | | | |
| Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /roc 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</li | (base) [root@ferry simple]# hdfs dfs -ls / | | | | | |
| <pre>1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</li </pre> | Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /roo | | | | | |
| <pre>ix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</li </pre> | 1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. | | | | | |
| It's highly recommended that you fix the library with 'execstack -c <li with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</li | ix the stack | guard now. | | | | |
| <pre>with '-z noexecstack'. 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt</pre> | It's highly r | ecommended that y | ou fix the library with 'execstack -c <li< td=""></li<> | | | |
| 20/04/25 19:23:04 WARN util.NativeCodeLoader: Unable to load native-had platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt | with '-z noe> | ecstack'. | - | | | |
| platform using builtin-java classes where applicable Found 3 item: drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt | 20/04/25 19:2 | 23:04 WARN util.Na | tiveCodeLoader: Unable to load native-had | | | |
| Found 3 item: 0 2020-04-25 19:11 /aa drwxrwxrwx - root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt | platform | using builtin-jav | a classes where applicable | | | |
| drwxrwxrwx - root root 0 2020-04-25 19:11 /aa -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt | Found 3 item | | | | | |
| -rwxrwxrwx 1 root root 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt | drwxrwxrwx | - root root | 0 2020-04-25 19:11 /aa | | | |
| -rwxrwxrwx 1 root root 17 2020-04-25 18:49 /wordscp.txt | -rwxrwxrwx | 1 root root | 0 2020-04-25 19:08 /newword.txt | | | |
| | -rwxrwxrwx | 1 root root | 17 2020-04-25 18:49 /wordscp.txt | | | |

1.11 chown 的使用:改变文件的所有者,用户必须是超级用户。 执行命令前,通过 hdfs dfs -1s / 命令可以看到 hdfs 根目录下文件的用户 所属组为 root,如下图所示:

| (base) [root@fe | rry simple]/ hdf: | s dfs -ls / | |
|---|---------------------------------|---|--|
| Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/ | | | |
| 1/lib/native/li | bhadoop.so.1.0.0 | which might have disabled stack guard. Th | |
| ix the stack gu | ard now. | | |
| It's highly rec | ommended that you | u fix the library with 'execstack -c <libf< th=""></libf<> | |
| with '-z noexec | stack'. | | |
| 20/04/25 19:23: | 04 WARN util.Nat | iveCodeLoader: Unable to load native-hadoo | |
| platform us | ing builtin-java | classes where applicable | |
| Found 3 items | | | |
| drwxrwxrwx - | root root | 0 2020-04-25 19:11 /aa | |
| -rwxrwxrwx 1 | root root | 0 2020-04-25 19:08 /newword.txt | |
| -rwxrwxrwx 1 | root root | 17 2020-04-25 18:49 /wordscp.txt | |
| 执行命令: hdfs dfs -ls / 命令ī | dfs-chown-Rro 可以看到hdfs 根 | ot:supergroup /。执行命令后,通过 hdfs .目录下文件的用户所属组为 supergroup 。 | |
| (base) [root@fe | rry simple]; hdfs | s dfs -chown -R root:supergroup / | |
| Java HotSpot(TM) |) 64-Bit Server \ | /M warning: You have loaded library /root/ | |
| 1/lib/native/lib | bhadoop.so.1.0.0 | which might have disabled stack guard. Th | |
| ix the stack gue | ard now. | | |
| It's highly reco | ommended that you | u fix the library with 'execstack -c <libf< th=""></libf<> | |
| with '-z noexect | stack'. | | |
| 20/04/25 19:25: | 10 WARN util.Nati | iveCodeLoader: Unable to load native-hadoo | |
| platform us | ing builtin-java | classes where applicable | |
| (base) [root@fe | rry simple] <mark>#</mark> hdfs | s dfs -ls / | |
| Java HotSpot(TM) |) 64-Bit Server \ | /M warning: You have loaded library /root/ | |
| 1/lib/native/lib | bhadoop.so.1.0.0 | which might have disabled stack guard. Th | |
| ix the stack gue | ard now. | | |
| It's highly reco | ommended that you | u fix the library with 'execstack -c <libf< th=""></libf<> | |
| with '-z noexec | stack'. | | |
| 20/04/25 19:25: | 15 WARN util.Nati | iveCodeLoader: Unable to load native-hadoo | |
| platform us | ing builtin-java | classes where applicable | |
| Found 3 items | | | |
| drwxrwxrwx - I | root supergroup | 0 2020-04-25 19:11 /aa | |
| -rwxrwxrwx 1 | root supergroup | 0 2020-04-25 19:08 /newword.txt | |
| -rwxrwxrwx 1 | root supergroup | 17 2020-04-25 18:49 /wordscp.txt | |
| (base) [root@fei | rry simple]# | | |
| | | | |
| 【3-3】 验证 Dat | aNode 存储的块 | 信息 | |
| 一、启动 Hadoop 服务 | | | |
| 1.1 查看服务状态。 在终端命令框中,执行命令"ips"来查看 hadoon 服 | | | |
| 务执行的状态。(查看 hadoop 服务是否已经启动,如未启动,启动服务)。 | | | |
| 如图所示已经启z | 动 | | |



)/simple/jdk/jdk-8u241-linux-x64.tar.gz / " 并执行命令"hadoop fs-ls /"查看,说明上传成功。如图所示 (base) [root@ferry jdk]# hadop fs -put ~/simple/jdk/jdk-8u241-linux-x64.tar.gz / -bash: hadop: 未找到命令 (base) [root@ferry jdk]# hadoop fs -put ~/simple/jdk/jdk-8u241-linux-x64.tar.gz / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple/hadoop-2.4 .1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM will try to fix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it with '-z noexecstack'. 20/04/25 20:42:29 WARN util.NativeCodeLoader: Unable to load native-hadoop library for you r platform... using builtin-java classes where applicable (base) [root@ferry jdk]# hadoop fs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple/hadoop-2.4 .1/lib/native/libhadoop.so.1.0.0 which might have disabled stack guard. The VM will try to fix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it with '-z noexecstack'. 20/04/25 20:42:55 WARN util.NativeCodeLoader: Unable to load native-hadoop library for you r platform... using builtin-java classes where applicable Found 4 items drwxrwxrwx - root supergroup 0 2020-04-25 19:11 /aa -rw-r--r-- 1 root supergroup 194545143 2020-04-25 20:42 /jdk-8u241-linux-x64.tar.gz -rwxrwxrwx 1 root supergroup 0 2020-04-25 19:08 /newword.txt -rwxrwxrwx 1 root supergroup 17 2020-04-25 18:49 /wordscp.txt (base) [root@ferry jdk]# 四、 查看 hadoop dataNode 信息 4.1 进入存放 dataNode 的 Block 目录, 执行命令 cd ~/simple/hadoop-2.4.1/hdfs/data/current/BP*/current/finalized "并 执行命令"ls -lrt"列出 Block 列表信息。如图所示 (base) [root@ferry jdk]# cd ~/simple/hadoop-2.4.1/hdfs/data/current/BP*/current/finalized (base) [root@ferry finalized]# pwd /root/simple/hadoop-2.4.1/hdfs<mark>/data/</mark>current/BP-847847414-172.18.242.<u>188-1587811563708/curr</u> ent/finalized (base) [root@ferry finalized]# ls -lrt 总用量 191496 11 4月 25 18:49 blk_1073741825_1001.meta -rw-r--r-- 1 root root 17 4月 25 18:49 blk_1073741825 -rw-r--r-- 1 root root 11 4月 25 19:11 blk_1073741827_1004.meta -rw-r--r-- 1 root root 17 4月 25 19:11 blk_1073741827 -rw-r--r-- 1 root root 1048583 4月 25 20:42 blk_1073741828_1005.meta -rw-r--r-- 1 root root -rw-r--r-- 1 root root 134217728 4月 25 20:42 blk_1073741828 471315 4月 25 20:42 blk_1073741829_1006.meta -rw-r--r-- 1 root root -rw-r--r-- 1 root root 60327415 4月 25 20:42 blk_1073741829 (base) [root@ferry finalized]# 五、实验结果验证 5.1 最大 Block 大小 =134217728bye/1024/1024=128M, 总文件大 小: 134217728+60327415=194545143 与源文件大小比较,可以得出结论: hadoop dfs 根据默认值将文件拆分成最大为 128M (默 认) 大小 block 数 据块。如图所示

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| <pre>(base) [root@ferry simple]# hdfs dfs -cat /test_result_1/part-00000</pre> |
|---|
| Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/si |
| which might have disabled stack guard. The VM will try to fix the stack \ensuremath{gu} |
| [t's highly recommended that you fix the library with 'execstack -c <libfi< th=""></libfi<> |
| 20/04/28 16:50:58 WARN util.NativeCodeLoader: Unable to load native-hadoop |
| classes where applicable |
| 1,2,1 1,1 |
| 1,2,2 1,1 |
| 1,2,3 1,1 |
| 1,3,1 1,1 |
| 1,3,1 1,1 |
| 1,3,2 1,1 |
| 1,3,2 1,1 |
| 1,3,3 1,1 |
| 1,3,3 1,1 |
| (base) [root@ferry simple]# |

实验结论与分析:

1. 粘贴最终结果图,并对结果做分析说明

【实验准备】hadoop 伪分布式配置与测试

至此,单机上伪分布式 Hadoop 环境配好了,一台机器上配置 Hadoop 集群: NameNode、DataNode、SecondaryNameNode, YARN 集群: ResourceManager、 NodeManager。Hadoop 集群负责分布式存储和预算, YARN 集群负责任务资源 管理和调度。

| (base) [root@ferry hadoop]# | jps |
|-----------------------------|-----|
| 11280 NodeManager | |
| 13619 NameNode | |
| 17847 Jps | |
| 15563 SecondaryNameNode | |
| 10972 ResourceManager | |
| 20351 DataNode | |

可以在外部浏览器登录 hadoop,由于是阿里云服务器,没有图形界面,因此 无法从服务器本机测试,需要外部浏览器测试。首先要确定防火墙关闭,然 后 hadoop 开始采用端口为:50070。因此在外部浏览器地址栏输入: http://47.113.102.106:50070,这里 47.113.102.106 是服务器的 ip 地址, 50070 为 hadoop 所用端口。通过这个 web 界面浏览整个集群的状态。

| Hadoo | p Overview | Datanodes | Snapshot | Startup Progress | Utilities - |
|--|--|---|--|--|---|
| Ove | erview | 'ferry.szu: | 9000' (ac | tive) | |
| Started | : | Sat | Apr 25 12:30:1 | 1 CST 2020 | |
| Version | 1: | 2.4.1 | , r1604318 | | |
| Compil | ed: | 2014 | -06-21T05:4 | 3Z by jenkins from br | ranch-2.4.1 |
| Cluster | ID: | CID- | 89483fbf-6e | b6-4fa7-83d5-7643 | f5670372 |
| Block F | Pool ID: | BP-1 | BP-127175167-172.18.242.188-1586624673125 | | |
| Sur | nmary | | | | |
| 【3-1】HDF 通过这两个 1、-help[c 2、-ls(r) | S 命令操 案 例可以 md] 显示 显示当前 | 作1 && 、 学会 HD :命令的帮 :目录下的 | 【3-2】 FS 的常 ^所 助信息 り所有文 | HDFS 命令打 了用命令,了 、 hdfs dfs 、件 -R 层层 | <mark>操作 2</mark> 下面进行了总结: s -help ls 层循出文件夹: hdfs dfs -ls |
| /log/map hdfs dfs -lsr /log/ (递归的) | | | | | |
| 3、-du(s) | 显示目录 | 中所有文 | 件大小 | ,或者当只打 | 指定一个文件时,显示此文件 |

的大小: hdfs dfs -du /user/hadoop/dir1 /user/hadoop/file1 hdfs://host:port/user/hadoop/dir1

4、-count[-q] 显示当前目录下的所有文件大小

5、-mv 移动多个文件目录到目标目录: hdfs dfs -mv /user/hadoop/file1 /user/hadoop/file2

6、-cp 复制多个文件到目标目录: hdfs dfs -cp /user/hadoop/file1 /user/hadoop/file2 (将文件从源路径复制到目标路径。这个命令允许有多 个源路径,此时目标路径必须是一个目录。)

7、-rm(r) 删除文件(夹): hdfs dfs -rmr /log/map1 (递归删除)

8、-put 本地文件复制到 hdfs: hdfs dfs -put test.txt /log/map/

9、-copyFromLocal 本地文件复制到 hdfs: hdfs dfs -copyFromLOcal /usr/data/text.txt /log/map1/ (将本地的 text.txt 复制到 hdfs 的 /log/map1/下)

10、-moveFromLocal 本地文件移动到 hdfs: hdfs dfs -moveFromLocal /usr/data/text.txt /log/map1/ (将本地的 text.txt 移动到 hdfs 的 /log/map1/下)

11、-get[-ignoreCrc] 复制文件到本地,可以忽略 crc 校验: hdfs dfs -get /log/map1/* . (复制到本地当前目录下) hdfs dfs -get /log/map1/* /usr/data (将 hdfs 下的/log/map1/下的所有文件全部复制到本地的 /usr/data/下)

12、-getmerge[addn1] 将源目录中的所有文件排序合并到一个文件中,接受 一个源目录和一个目标文件作为输入,并且将源目录中所有的文件连接成本 地目标文件。addn1 是可选的,用于指定在每个文件结尾添加一个换行符。: hdfs dfs -getmerge /log/map1/* /usr/data (将 hdfs 上的/log/map1/下的 所有文件合并下载到本地的/usr/data下)

13、-cat 在终端显示文件内容: hdfs dfs -cat /log/map1/part-00000 | head (读取 hdfs 上的/log/map1下的 part-00000 文件 head 参数,代表 前十行。)

/hdfs dfs -tail /log/map1/part-00000(查看文件的最后一千行)

14、-text 在终端显示文件内容,将源文件输出为文本格式。允许的格式是 zip 和 TextRecordInputStream

15、-copyToLocal[-ignoreCrc] 复制文件到本地

16、-moveToLocal 移动文件到本地

17、-mkdir 创建文件夹 后跟-p 可以创建不存在的父路径: hdfs dfs -mkdir -p /dir1/dir11/dir111

18、-touchz 创建一个空文件

19、-grep 从 hdfs 上过滤包含某个字符的行内容: hdfs dfs -cat /log/testlog/* | grep 过滤字段

| (base) [root@ferry simple]# hdfs dfs -ls / Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple/ 0 which might have disabled stack guard. The VM will try to fix the stack guard It's highly recommended that you fix the library with 'execstack -c <libfile>', 20/04/25 18:53:23 WARN util.NativeCodeLoader: Unable to load native-hadoop libro a classes where applicable</libfile> |
|--|
| Found 1 items |
| -rw-rr 1 root supergroup 17 2020-04-25 18:49 /wordscp.txt |
| <pre>(base) [root@ferry simple]# hdfs dfs -appendToFile ~/simple/words.txt /words.txt Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple/hadoop-2.4 0 which might have disabled stack guard. The VM will try to fix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it 20/04/25 19:04:08 WARN util.NativeCodeLoader: Unable to load native-hadoop library for you a classes where applicable (base) [root@ferry simple]# hdfs dfs -cat /words.txt Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/simple/hadoop-2.4 0 which might have disabled stack guard. The VM will try to fix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it 20/04/25 19:04:26 WARN util.NativeCodeLoader: Unable to load native-hadoop library for you a classes where applicable stack guard. The VM will try to fix the stack guard now. It's highly recommended that you fix the library with 'execstack -c <libfile>', or link it 20/04/25 19:04:26 WARN util.NativeCodeLoader: Unable to load native-hadoop library for you a classes where applicable Hello,I am test! Hello,I am test!</libfile></libfile></libfile></pre> |

【3-3】HDFS 验证存储块信息

HDFS 中的文件在物理上是分块存储(block),块的大小可以通过配置参数(dfs.blocksize)来规定,默认大小在 hadoop2.x 版本中是 128M,老版本中是 64M.

HDFS 的块比磁盘的块大(磁盘的块一般为 512 字节),其目的是为了最小化寻 址开销。如果块设置得足够大,从磁盘传输数据的时间会明显大于定位这个 块开始位置所需的时间。因而,传输一个由多个块组成的文件的时间取决于 磁盘传输速率。如果寻址时间约为 10ms,而传输速率为 100MB/s,为了使寻 址时间仅占传输时间的 1%,我们要将块大小设置约为 100MB。但是很多情况 下 HDFS 使用 128MB 的块设置。块的大小: 10ms*100*100M/s = 100M,然而真 正实际开发中要把 block 设置的远大于 128MB,比如存储文件是 1TB 时,一 般把 Block 大小设置成 512MB.但是也不能任意设置的太大,比如 200GB 一个, 因为在 MapReduce 的 map 任务中通常一次只处理一个块中数据(切片大小默 认等于 block 大小),如果设置太大,因为任务数太少(少于集群中的节点 数量),那么作业的运行速度就会慢很多,此外比如故障等原因也会拖慢速 度。

虽然 HDFS 以 block 块存储, 对于大文件会被切分成很多以块大小的分块进行存储, 但是如果文件小于 HDFS 的块大小, 那么该文件的存储不会占用整个块的空间。比如一个 10MB 的文件, 存储虽然在一个 128MB 的块上, 但是该文件实际只用了 10MB 的空间, 而不是 128MB 的空间。

| (base) [root@ferry jdk]4 cd ~/simple/hadoop-2.4.1/hdfs/data/current/BP*/current/finalized | | | | |
|---|-------------|--|--|--|
| (base) [root@ferry finalized]# pwd | | | | |
| /root/simple/hadoop-2.4 | 1.1/hdfs/da | ata/current/BP-847847414-172.18.242.188-1587811563708/curr | | |
| ent/finalized | | | | |
| (base) [root@ferry find | lized]# ls | s -lrt | | |
| 总用量 191496 | | | | |
| -rw-rr 1 root root | 11 | 4月 25 18:49 blk_1073741825_1001.meta | | |
| -rw-rr 1 root root | 17 | 4月 25 18:49 blk_1073741825 | | |
| -rw-rr 1 root root | 11 | 4月 25 19:11 blk_1073741827_1004.meta | | |
| -rw-rr 1 root root | 17 | 4月 25 19:11 blk_1073741827 | | |
| -rw-rr 1 root root | 1048583 | 4月 25 20:42 blk_1073741828_1005.meta | | |
| -rw-rr 1 root root | 134217728 | 4月 25 20:42 blk_1073741828 | | |
| -rw-rr 1 root root | 471315 | 4月 25 20:42 blk_1073741829_1006.meta | | |
| -rw-rr 1 root root | 60327415 | 4月 25 20:42 blk_1073741829 | | |
| (base) [root@ferry finalized]# | | | | |
| | | | | |
| (base) [root@ferry finalized] | | | | |
| 总用量 190004 | | | | |
| 189992 -rw-rr 1 r | oot root | : 194545143 4月 3 13:15 jdk-8u241-linux-x64.tar.gz | | |
| 4 drwxr-xr-x 7 1 | 0143 10143 | H3 4096 12月 11 18:39 jdk1.8.0_241 | | |
| 4 -rw-rr 1 r | oot root | : 120 4月 13 21:03 HelloWorld.java | | |
| 4 -rw-rr 1 r | oot root | t 411 4月 13 20:53 HelloWorld.class | | |
| (base) [root@ferry fi | nalized]# | # | | |
| | | | | |

【额外实验】Hadoop Streaming 接口

Hadoop Streaming 接口是用 Java 实现一个包装用户程序的 MapReduce 程序, 该程序负责调用 MapReduce Java 接口获取 key/value 对输入,创建一个新的 进程启动包装的用户程序,将数据通过管道传递给包装的用户程序处理,然 后调用 MapReduce Java 接口将用户程序的输出切分成 key/value 对输出。 Streaming 优点:

1) 开发效率高,便于移植只要按照标准输入输出格式进行编程,就可以满足 hadoop要求。因此单机程序稍加改动就可以在集群上进行使用。 同样便于 测试只要按照 cat input | mapper | sort | reducer > output 进行单机 测试即可。 如果单机测试通过,大多数情况是可以在集群上成功运行的,只 要控制好内存就好了。

2) 提高程序效率。有些程序对内存要求较高,如果用 java 控制内存毕竟不如 C/C++。

Streaming 不足:

1) Hadoop Streaming 默认只能处理文本数据,无法直接对二进制数据进行 处理

2) Streaming 中的 mapper 和 reducer 默认只能向标准输出写数据,不能方 便地处理多路输出。

| (base) [root@ferry simple]# hdfs dfs -cat /test_result_1/part-00000 | | | |
|---|--|--|--|
| Java HotSpot(TM) 64-Bit Server VM warning: You have loaded library /root/si | | | |
| which might have disabled stack guard. The VM will try to fix the stack gu | | | |
| It's highly recommended that you fix the library with 'execstack -c <libfi< td=""></libfi<> | | | |
| 20/04/28 16:50:58 WARN util.NativeCodeLoader: Unable to load native-hadoop | | | |
| classes where applicable | | | |
| 1,2,1 1,1 | | | |
| 1,2,2 1,1 | | | |
| 1,2,3 1,1 | | | |
| 1,3,1 1,1 | | | |
| 1,3,1 1,1 | | | |
| 1,3,2 1,1 | | | |
| 1,3,2 1,1 | | | |
| 1,3,3 1,1 | | | |
| 1,3,3 1,1 | | | |
| (base) [root@ferry simple]# | | | |

2. 谈谈自己对这个实验的体会感受

由于本次实验剩余选做部分都需要用到图形化界面,而使用阿里云服务器配置图形化界面特别麻烦,通过查找资料并花了很多时间后终于成功进入图形化界面。主要是在 Mac 上使用下图两个软件,并且在阿里云服务器上进行 x2goserver 配置解决的。



| 选择的操作,质 | F以最终没有进行本地操作并且截图,只是把实验手册所有理 |
|---------------------|--|
| 解了一遍。 | |
| | · • • · · · · · · · · · · · · · · · · · |
| 6 | .4 执行结果宣有.如图 14 所示 [root@host01 -]# hadoop fs -cat /javaApi/mk/dir/hdfsAppend.txt ^ |
| | 111111 222222 |
| | J333333 [root@hostOl -]∉ hadoop fs -cat /javaApi/mk/dir/hdfsAppend.txt |
| | 111111 222222 333333 |
| | 1111111 222222 2条记录,追加成功。 |
| | 333333 [root@host01 -]# |
| | |
| | * |
| _ | 图 14 |
| | 北京西普阳光教育科技股份有限公司 487 |
| 「 「 「 い 」 通 は 木 次 の | Père 我对 bdf。有了初步的理解。但也很遗憾阿田子服冬哭 |
| /// 以過过年代3 / | 影響,我们 Murs 有了初少的理解,但也很感觉两至乙腺分髓 影響和方面。且是碍于闲罢在家的笔记太由脑配置过低。贞左 |
| 不足以支出双系 | 25% 杀胡可以见日回到受校。到时将使田宏全的台式机进行 |
| 更详细的学习. | 除了实验太身的内容。在遇到问题时杳找资料。独立思考才 |
| 学习到了更多很 | 思有趣很实用的知识! |
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| 指导教师批阅意 | 意见: |
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