Cloudera Runtime 7.1.0

Accessing Apache HBase

Date published: 2020-02-29 Date modified:



https://docs.cloudera.com/

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HBase Shell overview

You can use the HBase Shell from the command line interface to communicate with HBase.

In CDP, you need to SSH into an HBase node before you can use the HBase Shell. For example, to SSH into an HBase node with the IP address 10.10.10.10, you must use the command:

```
ssh <username>@10.10.10.10
```



Note: You must use your IPA password for authentication.

After you have started HBase, you can access the database in an interactive way by using the HBase Shell, which is a command interpreter for HBase which is written in Ruby. Always run HBase administrative commands such as the HBase Shell, hbck, or bulk-load commands as the HBase user (typically hbase).

```
hbase shell
```

You can use the following commands to get started with the HBase shell:

- To get help and to see all available commands, use the help command.
- To get help on a specific command, use help "command". For example:

hbase> help "create"

• To remove an attribute from a table or column family or reset it to its default value, set its value to nil. For example, use the following command to remove the KEEP_DELETED_CELLS attribute from the f1 column of the users table:

hbase> alter 'users', { NAME => 'f1', KEEP_DELETED_CELLS => nil }

• To exit the HBase Shell, type quit.

Virtual machine options for HBase Shell

You can set variables for the virtual machine running HBase Shell, by using the HBASE_SHELL_OPTS environment variable. This example sets several options in the virtual machine.

This example sets several options in the virtual machine.

```
$ HBASE_SHELL_OPTS="-verbose:gc -XX:+PrintGCApplicationStoppedTime -XX:+Prin
tGCDateStamps
        -XX:+PrintGCDetails -Xloggc:$HBASE_HOME/logs/gc-hbase.log" ./bin/hbase
shell
```

Script with HBase Shell

You can use HBase shell in your scripts. You can also write Ruby scripts for use with HBase Shell. Example Ruby scripts are included in the hbase-examples/src/main/ruby/ directory.

The non-interactive mode allows you to use HBase Shell in scripts, and allow the script to access the exit status of the HBase Shell commands. To invoke non-interactive mode, use the -n or --non-interactive switch. This small example script shows how to use HBase Shell in a Bash script.

```
#!/bin/bash
echo 'list' | hbase shell -n
status=$?
if [$status -ne 0]; then
   echo "The command may have failed."
fi
```

Successful HBase Shell commands return an exit status of 0. However, an exit status other than 0 does not necessarily indicate a failure, but should be interpreted as unknown. For example, a command may succeed, but while waiting for the response, the client may lose connectivity. In that case, the client has no way to know the outcome of the command. In the case of a non-zero exit status, your script should check to be sure the command actually failed before taking further action.

You can use the get_splits command, which returns the split points for a given table:

```
hbase> get_splits 't2'
Total number of splits = 5
=> ["", "10", "20", "30", "40"]
```

Use HBase command-line utilities

Besides the HBase Shell, HBase includes several other command-line utilities, which are available in the hbase/bin/ directory of each HBase host. This topic provides basic usage instructions for the most commonly used utilities.

PerformanceEvaluation

The PerformanceEvaluation utility allows you to run several preconfigured tests on your cluster and reports its performance. To run the PerformanceEvaluation tool, use the bin/hbase pecommand.

```
$ hbase pe
Usage: java org.apache.hadoop.hbase.PerformanceEvaluation \
  <OPTIONS> [-D<property=value>]* <command> <nclients>
Options:
                 Run multiple clients using threads (rather than use mapred
nomapred
uce)
 rows
                 Rows each client runs. Default: One million
                 Total size in GiB. Mutually exclusive with --rows. Default:
 size
 1.0.
 sampleRate
                 Execute test on a sample of total rows. Only supported by r
andomRead.
                 Default: 1.0
traceRate
                 Enable HTrace spans. Initiate tracing every N rows. Defaul
t: 0
                 Alternate table name. Default: 'TestTable'
 table
multiGet
                 If >0, when doing RandomRead, perform multiple gets instead
 of single
                 gets.
                 Default: 0
 compress
                 Compression type to use (GZ, LZO, ...). Default: 'NONE'
 flushCommits
                 Used to determine if the test should flush the table. Defau
lt: false
 writeToWAL
                 Set writeToWAL on puts. Default: True
```

Set autoFlush on htable. Default: False autoFlush all the threads share the same connection. Default: False oneCon Create presplit table. Recommended for accurate perf analy presplit sis (see guide). Default: disabled inmemory Tries to keep the HFiles of the CF inmemory as far as possi ble. Not guaranteed that reads are always served from memory. Defa ult: false usetags Writes tags along with KVs. Use with HFile V3. Default: false numoftags Specify the no of tags that would be needed. This works o nly if usetags is true. Helps to filter out all the rows on the server side there filterAll by not returning anything back to the client. Helps to check the server si de performance. Uses FilterAllFilter internally. Set to report operation latencies. Default: False latency Bloom filter type, one of [NONE, ROW, ROWCOL] bloomFilter valueSize Pass value size to use: Default: 1024 valueRandom Set if we should vary value size between 0 and 'valueSiz e'; set on read for stats on size: Default: Not set. valueZipf Set if we should vary value size between 0 and 'valueSize' in zipf form: Default: Not set. Report every 'period' rows: Default: opts.perClientRunRo period ws / 10 multiGet Batch gets together into groups of N. Only supported by ran domRead. Default: disabled addColumns Adds columns to scans/gets explicitly. Default: true replicas Enable region replica testing. Defaults: 1. splitPolicy Specify a custom RegionSplitPolicy for the table. randomSleep Do a random sleep before each get between 0 and entered value. Defaults: 0 columns Columns to write per row. Default: 1 caching Scan caching to use. Default: 30 Note: -D properties will be applied to the conf used. For example: -Dmapreduce.output.fileoutputformat.compress=true -Dmapreduce.task.timeout=60000 Command: append Append on each row; clients overlap on keyspace so some c oncurrent operations checkAndDelete CheckAndDelete on each row; clients overlap on keyspace so some concurrent operations checkAndMutate CheckAndMutate on each row; clients overlap on keyspace so some concurrent operations checkAndPut CheckAndPut on each row; clients overlap on keyspace so s ome concurrent operations filterScan Run scan test using a filter to find a specific row based on it's value (make sure to use --rows=20) increment Increment on each row; clients overlap on keyspace so some concurrent operations

Run random read test randomRead randomSeekScan Run random seek and scan 100 test randomWrite Run random write test scan Run scan test (read every row) scanRange10 Run random seek scan with both start and stop row (max 10 rows) Run random seek scan with both start and stop row (max 100 scanRange100 rows) scanRange1000 Run random seek scan with both start and stop row (max 1000 rows) scanRange10000 Run random seek scan with both start and stop row (max 1 0000 rows) sequentialRead Run sequential read test sequentialWrite Run sequential write test Args: nclients Integer. Required. Total number of clients (and HRegionS ervers) running: 1 <= value <= 500</pre> Examples: To run a single client doing the default 1M sequentialWrites: \$ bin/hbase org.apache.hadoop.hbase.PerformanceEvaluation sequentialWrite 1 To run 10 clients doing increments over ten rows: \$ bin/hbase org.apache.hadoop.hbase.PerformanceEvaluation --rows=10 --noma pred increment 10

LoadTestTool

\$ bin/hbase ltt -h

The LoadTestTool utility load-tests your cluster by performing writes, updates, or reads on it. To run the LoadTest Tool, use the bin/hbase ltt command. To print general usage information, use the -h option.

```
Options:
 -batchupdate
                                 Whether to use batch as opposed to separate
updates for every column
                                  in a row
 -bloom <arg>
                                 Bloom filter type, one of [NONE, ROW, ROWC
OL ]
 -compression <arg>
                                 Compression type, one of [LZO, GZ, NONE, SN
APPY, LZ4]
 -data_block_encoding <arg>
                                 Encoding algorithm (e.g. prefix compress
ion) to use for data blocks
                                  in the test column family, one of
                                  [NONE, PREFIX, DIFF, FAST_DIFF, PREFIX_T
REE].
 -deferredlogflush
                                 Enable deferred log flush.
 -encryption <arg>
                                 Enables transparent encryption on the test
table, one of [AES]
 -families <arg>
                                 The name of the column families to use se
parated by comma
 -generator <arg>
                                 The class which generates load for the too
1. Any args for this class
                                 can be passed as colon separated after c
lass name
 -h,--help
                                 Show usage
 -in_memory
                                 Tries to keep the HFiles of the CF inmemory
as far as possible.
                     Not
                                 guaranteed that reads are always served fro
m inmemory
 -init_only
                                 Initialize the test table only, don't do
any loading
```

The 'key window' to maintain between reads -key_window <arg> and writes for concurrent write/read workload. The default is 0. -max_read_errors <arg> The maximum number of read errors to tol erate before terminating all reader threads. The default is 10. -mob_threshold <arg> Desired cell size to exceed in bytes that will use the MOB write path -multiget_batchsize <arg> Whether to use multi-gets as opposed to sep arate gets for every column in a row Whether to use multi-puts as opposed to s -multiput eparate puts for every column in a row The number of keys to read/write -num_keys <arg> -num_regions_per_server <arg> Desired number of regions per region serv er. Defaults to 5. A positive integer number. When a number n -num_tables <arg> is specified, load test tool will load n table parallely. -tn parameter value becomes table name prefix. Each table name is in format <tn>_1...<tn> _n <verify_percent>[:<#threads=20>] -read <arg> The class for executing the read requests -reader <arg> -region_replica_id <arg> Region replica id to do the reads from -region_replication <arg> Desired number of replicas per region -regions_per_server <arg> A positive integer number. When a number n is specified, load test tool will create the test table with n regions p er server -skip_init Skip the initialization; assume test table already exists -start_key <arg> The first key to read/write (a 0-based ind ex). The default value is 0. -tn <arg> The name of the table to read or write -update <arg> <update_percent>[:<#threads=20>][:<#whether</pre> to ignore nonce collisions=0>] The class for executing the update requests -updater <arg> -write <arg> <avg cols per key>:<avg data size>[:<#thr eads=20>]The class for executing the write requests -writer <arg> -zk <arg> ZK quorum as comma-separated host names w ithout port numbers -zk_root <arg> name of parent znode in zookeeper

wal

The wal utility prints information about the contents of a specified WAL file. To get a list of all WAL files, use the HDFS command hadoop fs -ls -R /hbase/WALs. To run the wal utility, use the bin/hbase wal command. Run it without options to get usage information.

```
hbase wal
usage: WAL <filename...> [-h] [-j] [-p] [-r <arg>] [-s <arg>] [-w <arg>]
-h,--help Output help message
-j,--json Output JSON
-p,--printvals Print values
-r,--region <arg> Region to filter by. Pass encoded region name; e.g.
'9192caead6a5a20acb4454ffbc79fa14'
-s,--sequence <arg> Sequence to filter by. Pass sequence number.
-w,--row <arg> Row to filter by. Pass row name.
```

hfile

The hfile utility prints diagnostic information about a specified hfile, such as block headers or statistics. To get a list of all hfiles, use the HDFS command hadoop fs -ls -R /hbase/data. To run the hfile utility, use the bin/hbase hf ilecommand. Run it without options to get usage information.

```
$ hbase hfile
usage: HFile [-a] [-b] [-e] [-f <arg> | -r <arg>] [-h] [-i] [-k] [-m] [-p]
      [-s] [-v] [-w <arg>]
-a,--checkfamily
                     Enable family check
-b,--printblocks
                         Print block index meta data
 -e,--printkey
                         Print keys
 -f,--file <arg>
                         File to scan. Pass full-path; e.g.
                         hdfs://a:9000/hbase/hbase:meta/12/34
 -h,--printblockheaders
                         Print block headers for each block.
                         Print all cells whose mob files are missing
 -i,--checkMobIntegrity
 -k,--checkrow
                          Enable row order check; looks for out-of-order
                          keys
-m,--printmeta
                          Print meta data of file
 -p,--printkv
                          Print key/value pairs
 -r,--region <arg>
                          Region to scan. Pass region name; e.g.
                          'hbase:meta,,1'
                          Print statistics
 -s,--stats
 -v,--verbose
                          Verbose output; emits file and meta data
                          delimiters
 -w,--seekToRow <arg>
                          Seek to this row and print all the kvs for this
                          row only
```

hbck

The hbck utility checks and optionally repairs errors in HFiles.

Warning: Running hbck with any of the -fix or -repair commands is dangerous and can lead to data loss. Contact Cloudera support before running it.

To run hbck, use the bin/hbase hbck command. Run it with the -h option to get more usage information.

```
NOTE: As of HBase version 2.0, the hbck tool is significantly changed.
In general, all Read-Only options are supported and can be be used
safely. Most -fix/ -repair options are NOT supported. Please see usage
below for details on which options are not supported.
Usage: fsck [opts] {only tables}
 where [opts] are:
   -help Display help options (this)
   -details Display full report of all regions.
   -timelag <timeInSeconds> Process only regions that have not experienced
 any metadata updates in the last <timeInSeconds> seconds.
   -sleepBeforeRerun <timeInSeconds> Sleep this many seconds before checking
 if the fix worked if run with -fix
   -summary Print only summary of the tables and status.
   -metaonly Only check the state of the hbase:meta table.
   -sidelineDir <hdfs://> HDFS path to backup existing meta.
   -boundaries Verify that regions boundaries are the same between META and
 store files.
   -exclusive Abort if another hbck is exclusive or fixing.
 Datafile Repair options: (expert features, use with caution!)
```

```
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```

Check all Hfiles by opening them to make sure the -checkCorruptHFiles y are valid -sidelineCorruptHFiles Quarantine corrupted HFiles. implies -checkCorru ptHFiles Replication options -fixReplication Deletes replication queues for removed peers Metadata Repair options supported as of version 2.0: (expert features, use with caution!) Try to fix missing hbase.version file in hdfs. -fixVersionFile -fixReferenceFiles Try to offline lingering reference store files -fixHFileLinks Try to offline lingering HFileLinks -noHdfsChecking Don't load/check region info from HDFS. Assumes hbas e:meta region info is good. Won't check/fix any HDFS issue, e.g. hole, orpha n, or overlap -ignorePreCheckPermission ignore filesystem permission pre-check NOTE: Following options are NOT supported as of HBase version 2.0+. UNSUPPORTED Metadata Repair options: (expert features, use with caution!) Try to fix region assignments. This is for backwards -fix compatiblity Try to fix region assignments. Replaces the old -fix -fixAssignments Try to fix meta problems. This assumes HDFS region inf -fixMeta o is good. -fixHdfsHoles Try to fix region holes in hdfs. -fixHdfsOrphans Try to fix region dirs with no .regioninfo file in hdfs -fixTableOrphans Try to fix table dirs with no .tableinfo file in hdfs (online mode only) -fixHdfsOverlaps Try to fix region overlaps in hdfs. -maxMerge <n> When fixing region overlaps, allow at most <n> regions to merge. (n=5 by default) -sidelineBigOverlaps When fixing region overlaps, allow to sideline big overlaps -maxOverlapsToSideline <n> When fixing region overlaps, allow at most < n> regions to sideline per group. (n=2 by default) -fixSplitParents Try to force offline split parents to be online. Try to offline and sideline lingering parents and keep -removeParents daughter regions. -fixEmptyMetaCells Try to fix hbase:meta entries not referencing any region (empty REGIONINFO QUALIFIER rows) UNSUPPORTED Metadata Repair shortcuts Shortcut for -fixAssignments -fixMeta -fixHdfsHoles --repair fixHdfsOrphans -fixHdfsOverlaps -fixVersionFile -sidelineBigOverlaps -fixRef erenceFiles-fixHFileLinks Shortcut for -fixAssignments -fixMeta -fixHdfsHoles -repairHoles

clean

After you have finished using a test or proof-of-concept cluster, the hbase clean utility can remove all HBase-related data from ZooKeeper and HDFS.



Warning: The hbase clean command destroys data. Do not run it on production clusters, or unless you are absolutely sure you want to destroy the data.

To run the hbase clean utility, use the bin/hbase clean command. Run it with no options for usage information.

```
$ bin/hbase clean
Usage: hbase clean (--cleanZk|--cleanHdfs|--cleanAll)
Options:
```

```
--cleanZk cleans hbase related data from zookeeper.--cleanHdfs cleans hbase related data from hdfs.--cleanAll cleans hbase related data from both zookeeper and hdfs.
```

Use the Java API

You can use the Apache HBase Java API to communicate with Apache HBase. The Java API is one of the most common ways to communicate with HBase.

The following sample uses Apache HBase APIs to create a table and put a row into that table. The table name, column family name, qualifier (or column) name, and a unique ID for the row are defined. Together, these define a specific cell. Next, the table is created and the text "Hello, World!" is inserted into this cell.

```
import java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.hbase.HBaseConfiguration;
import org.apache.hadoop.hbase.TableName;
import org.apache.hadoop.hbase.client.*;
import org.apache.hadoop.hbase.util.Bytes;
public class CreateAndPut {
   private static final TableName TABLE_NAME = TableName.valueOf("test_tabl
e_example");
   private static final byte[] CF_NAME = Bytes.toBytes("test_cf");
   private static final byte[] QUALIFIER = Bytes.toBytes("test_column");
   private static final byte[] ROW_ID = Bytes.toBytes("row01");
   public static void createTable(final Admin admin) throws IOException {
        if(!admin.tableExists(TABLE_NAME)) {
            TableDescriptor desc = TableDescriptorBuilder.newBuilder(TABLE_
NAME)
                    .setColumnFamily(ColumnFamilyDescriptorBuilder.of(CF_N
AME))
                    .build();
            admin.createTable(desc);
        }
    }
   public static void putRow(final Table table) throws IOException {
        table.put(new Put(ROW_ID).addColumn(CF_NAME, QUALIFIER, Bytes.toByte
s("Hello, World!")));
   public static void main(String[] args) throws IOException {
        Configuration config = HBaseConfiguration.create();
        try (Connection connection = ConnectionFactory.createConnection(co
nfig); Admin admin = connection.getAdmin()) {
            createTable(admin);
            try(Table table = connection.getTable(TABLE_NAME)) {
                putRow(table);
        }
    }
}
```

Use the Apache Thrift Proxy API

The Apache Thrift library provides cross-language client-server remote procedure calls (RPCs), using Thrift bindings.

A Thrift binding is client code generated by the Apache Thrift Compiler for a target language (such as Python) that allows communication between the Thrift server and clients using that client code. HBase includes an Apache Thrift Proxy API, which allows you to write HBase applications in Python, C, C++, or another language that Thrift supports. The Thrift Proxy API is slower than the Java API and may have fewer features. T use the Thrift Proxy API, you need to configure and run the HBase Thrift server on your cluster. You also need to install the Apache Thrift compiler on your development system.

After the Thrift server is configured and running, generate Thrift bindings for the language of your choice, using an IDL file. A HBase IDL file named HBase.thrift is included as part of HBase. After generating the bindings, copy the Thrift libraries for your language into the same directory as the generated bindings. In the following Python example, these libraries provide the thrift.transport and thrift.protocol libraries. These commands show how you might generate the Thrift bindings for Python and copy the libraries on a Linux system.

```
mkdir HBaseThrift
cd HBaseThrift/
thrift -gen py /path/to/Hbase.thrift
mv gen-py/* .
rm -rf gen-py/
mkdir thrift
cp -rp ~/Downloads/thrift-0.9.0/lib/py/src/* ./thrift/
```

The following example shows a simple Python application using the Thrift Proxy API.

```
from thrift.transport import TSocket
from thrift.protocol import TBinaryProtocol
from thrift.transport import TTransport
from hbase import Hbase
# Connect to HBase Thrift server
transport = TTransport.TBufferedTransport(TSocket.TSocket(host, port))
protocol = TBinaryProtocol.TBinaryProtocolAccelerated(transport)
# Create and open the client connection
client = Hbase.Client(protocol)
transport.open()
# Modify a single row
mutations = [Hbase.Mutation(
  column='columnfamily:columndescriptor', value='columnvalue')]
client.mutateRow('tablename', 'rowkey', mutations)
# Modify a batch of rows
# Create a list of mutations per work of Shakespeare
mutationsbatch = []
for line in myDataFile:
    rowkey = username + "-" + filename + "-" + str(linenumber).zfill(6)
    mutations = [
            Hbase.Mutation(column=messagecolumncf, value=line.strip()),
            Hbase.Mutation(column=linenumbercolumncf, value=encode(linenu
mber)),
            Hbase.Mutation(column=usernamecolumncf, value=username)
        ]
```

mutationsbatch.append(Hbase.BatchMutation(row=rowkey,mutations=mut ations))

```
# Run the mutations for all the lines in myDataFile
client.mutateRows(tablename, mutationsbatch)
```

```
transport.close()
```

The Thrift Proxy API does not support writing to HBase clusters that are secured using Kerberos.

Related Information Using the HBase Thrift Interface, Part 1 Using the HBase Thrift Interface, Part 2

Use the Hue HBase app

Hue is a web-based interactive query editor that enables you to interact with data warehouses. You can use the HBase Browser application in Hue to create and browse HBase tables.

The HBase Hue app enables you to insert a new row or bulk upload CSV files, TSV files, and type data into your table. You can also insert columns into your row. If you need more control or data about your cell, you can use the full editor to edit a cell.

	Que		ch data and saved documer	nts		Jobs 📰	ງ 💄 admi	
24 🗟 🗨 🏭	9	Home - HBa	ise / aaa				Switch Cluster	
default Tables Filter	(8) + 2	row_key, row_prefix* +scan_len [col1, family:col2, fam3:, col_ Q III Filter Columns/Families II Sort By ASC						
B customers B hbase_table_1 B hbase_table_2		1 cf1: val	off: purchase	Filter Column Names/Family	Sort By AS	C 🔹 🖻 Drop C	Columns	
key (int) value (string) B hbase_table_3 B sample_07		Krishna					0	
sample_08 transactions1g		100 of1: name	et1: purchase					
m web_logs		Eva	1000					
		3						
		cf1: name						
		Fetched 10 entries	starting from null in 13.39	7 seconds.				
					Drop Rows	🕹 Bulk Upload	New Row	

If you are using the HBase Thrift interface, Hue fits in between the Thrift Server and the HBase client, and the Thrift Server assumes that all HBase operations come from the hue user and not the client. To ensure that users in Hue are only allowed to perform HBase operations assigned to their own credentials, and not those of the hue user, you must enable doAs Impersonation for the HBase Browser Application.