

Accessing Apache HBase

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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:+PrintGCDateStamps  
-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:
  nomapreduce      Run multiple clients using threads (rather than use mapreduce)
  rows             Rows each client runs. Default: One million
  size             Total size in GiB. Mutually exclusive with --rows. Default: 1.0.
  sampleRate       Execute test on a sample of total rows. Only supported by randomRead.
  traceRate        Default: 1.0
  t: 0            Enable HTrace spans. Initiate tracing every N rows. Default: 0
  table            Alternate table name. Default: 'TestTable'
  multiGet         If >0, when doing RandomRead, perform multiple gets instead of single gets.
  compress         Default: 0
  flushCommits     Compression type to use (GZ, LZ0, ...). Default: 'NONE'
  lt: false        Used to determine if the test should flush the table. Default: true
  writeToWAL       Set writeToWAL on puts. Default: True
```

autoFlush	Set autoFlush on htable. Default: False
oneCon	all the threads share the same connection. Default: False
presplit	Create presplit table. Recommended for accurate perf analy
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.
filterAll	Helps to filter out all the rows on the server side there
by not returning	anything back to the client. Helps to check the server si
de performance.	Uses FilterAllFilter internally.
latency	Set to report operation latencies. Default: False
bloomFilter	Bloom filter type, one of [NONE, ROW, ROWCOL]
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.
period	Report every 'period' rows: Default: opts.perClientRunRo
ws / 10	
multiGet	Batch gets together into groups of N. Only supported by ran
domRead.	Default: disabled
addColumnns	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 v
alue. 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

```

randomRead      Run random read test
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)
scanRange100    Run random seek scan with both start and stop row (max 100
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
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

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.

```

$ bin/hbase ltt -h

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
l. 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

```

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

```
-checkCorruptHFiles    Check all Hfiles by opening them to make sure the
                        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!)

```
-fixVersionFile    Try to fix missing hbase.version file in hdfs.
-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!)
-fix                                Try to fix region assignments.  This is for backwards
compatibility
-fixAssignments    Try to fix region assignments.  Replaces the old -fix
-fixMeta           Try to fix meta problems.  This assumes HDFS region inf
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.
-removeParents      Try to offline and sideline lingering parents and keep
daughter regions.
-fixEmptyMetaCells  Try to fix hbase:meta entries not referencing any
region (empty REGIONINFO_QUALIFIER rows)
```

UNSUPPORTED Metadata Repair shortcuts

```
-repair                Shortcut for -fixAssignments -fixMeta -fixHdfsHoles -
fixHdfsOrphans -fixHdfsOverlaps -fixVersionFile -sidelineBigOverlaps -fixRef
erenceFiles -fixHFileLinks
-repairHoles           Shortcut for -fixAssignments -fixMeta -fixHdfsHoles
```

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_table_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_NAME))
                .build();
            admin.createTable(desc);
        }
    }

    public static void putRow(final Table table) throws IOException {
        table.put(new Put(ROW_ID).addColumn(CF_NAME, QUALIFIER, Bytes.toBytes("Hello, World!")));
    }

    public static void main(String[] args) throws IOException {
        Configuration config = HBaseConfiguration.create();

        try (Connection connection = ConnectionFactory.createConnection(config); 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. To 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:columnndescriptor', 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(linenum).zfill(6)
    mutations = [
        Hbase.Mutation(column=messagecolumncf, value=line.strip()),
        Hbase.Mutation(column=linenumcolumncf, value=encode(linenum)),
        Hbase.Mutation(column=usernamecolumncf, value=username)
    ]
    mutationsbatch.append(Hbase.BatchMutation(row=rowkey, mutations=mutations))
```

```
# 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.

The screenshot shows the Hue HBase app interface. On the left is a sidebar with a 'Tables' list containing: customers, hbase_table_1, hbase_table_2, key (int), value (string), hbase_table_3, sample_07, sample_08, transactions1g, and web_logs. The main area is titled 'Home - HBase / aaa'. It features a search bar with the query 'row_key, row_prefix + scan_len {col1, family:col2, fam3:, col...' and a 'Query' dropdown. Below the search bar are buttons for 'Filter Columns/Families', 'All', and 'Sort By ASC'. The table view shows three rows of data:

cf1: val	cf1: purchase
Krishna	12
Eva	1000
Anna	

At the bottom, it states 'Fetched 10 entries starting from null in 13.397seconds.' and includes buttons for 'Drop Rows', 'Bulk Upload', and '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.