







DLI Accelerated Data Science Teaching Kit

Lecture 12.3 - How to Use HBase



The Accelerated Data Science Teaching Kit is licensed by NVIDIA, Georgia Institute of Technology, and Prairie View A&M University under the Creative Commons Attribution-NonCommercial 4.0 International License.





How to use HBase

Interactive shell

Can run on your computer, without using HDFS

Programmatically

e.g., via Java, Python, etc.







Example, using interactive shell

```
$ cd /usr/local/hbase-0.91.0-SNAPSHOT
                                             Start HBase
$ bin/start-hbase.sh <-</pre>
starting master, logging to \
/usr/local/hbase-0.91.0-SNAPSHOT/bin/../logs/hbase-<username>-master-localhost.out
$ bin/hbase shell <</pre>
HBase Shell; enter 'help<RETURN>' for list of supported commands.
Type "exit<RETURN>" to leave the HBase Shell
Version 0.91.0-SNAPSHOT, r1130916, Sat Jul 23 12:44:34 CEST 2011
hbase(main):001:0> status <
                                              Start Interactive Shell
1 servers, 0 dead, 2.0000 average load
                                       Check HBase is running
```





Example: Create table, add values

```
hbase(main):002:0> create 'testtable', 'colfam1'
0 row(s) in 0.2930 seconds
      hbase(main):003:0> list 'testtable'
TABLE
testtable
1 row(s) in 0.0520 seconds
hbase(main):004:0> put 'testtable', 'myrow-1', 'colfam1:q1', 'value-1'
0 row(s) in 0.1020 seconds
hbase(main):005:0> put 'testtable', 'myrow-2', 'colfam1:q2', 'value-2'
0 row(s) in 0.0410 seconds
hbase(main):006:0> put 'testtable', 'myrow-2', 'colfam1:q3', 'value-3'
0 row(s) in 0.0380 seconds
```







Example: Scan (show all cell values)





2 row(s) in 0.1100 seconds

Example: Get (look up a row)

```
hbase(main):008:0> get 'testtable', 'myrow-1'
COLUMN CELL
colfam1:q1 timestamp=1297345476469, value=value-1
1 row(s) in 0.0480 seconds
```

Can also look up a particular cell value with a certain timestamp, etc.







Example: Delete a value



2 row(s) in 0.0620 seconds









DLI Accelerated Data Science Teaching Kit

Thank You