ImportTSV Data from HDFS into HBase:

Check all daemons:

```
[acadgild@localhost ~]$ jps
4976 ResourceManager
6017 Jps
5729 HQuorumPeer
5301 Main
4517 NameNode
5077 NodeManager
4470 HRegionServer
4775 SecondaryNameNode
4616 DataNode
4349 HMaster
6303 JobHistoryServer
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$
```

Create Table bulktable with 2 column families:

Create 'bulktable', 'cf1', 'cf2'

```
hbase(main):001:0> create 'bulktable','cf1','cf2'
0 row(s) in 3.1940 seconds

=> Hbase::Table - bulktable
hbase(main):002:0> scan 'bulkdata'
ROW                                    COLUMN+CELL
```

describe 'bulktable'

```
hbase(main):002:0> describe 'bulktable'
Table bulktable is ENABLED
bulktable
COLUMN FAMILIES DESCRIPTION
{NAME => 'cf1', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY => 'false', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER',
COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0'}
{NAME => 'cf2', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY => 'false', KEEP_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER',
COMPRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0'}
2 row(s) in 0.8360 seconds

hbase(main):003:0>
```
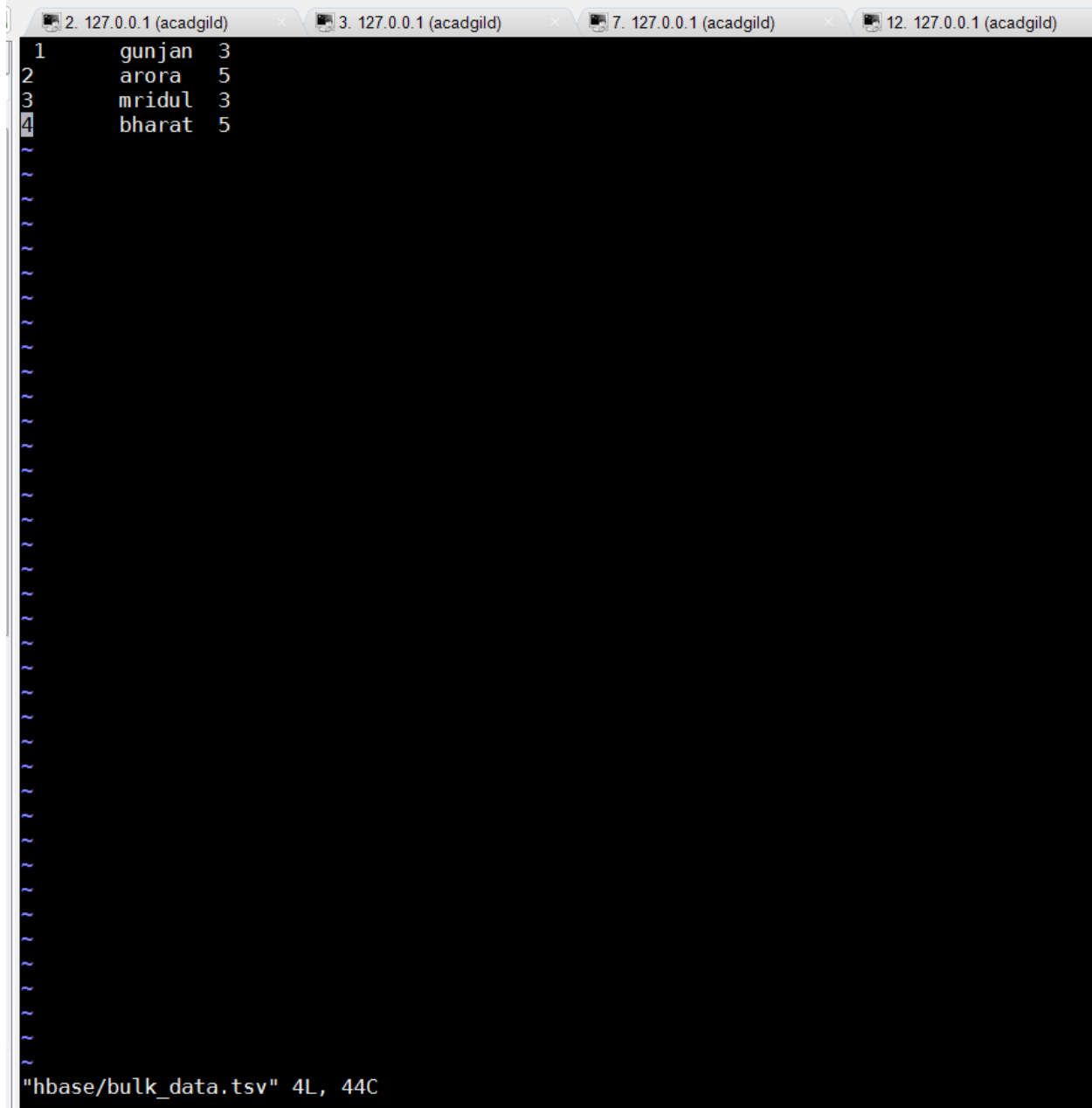
Create directory 'Hbase' on local if not created before: **mkdir –p hbase**

```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ cd hbase
[acadgild@localhost hbase]$
```

Create tsv file on local using command: **vi hbase/bulk_data.tsv**

```
[acadgild@localhost ~]$ vi hbase/bulk_data.tsv
```

Put text and close file using esc+:wq+Enter

```
 2. 127.0.0.1 (acadgild)      3. 127.0.0.1 (acadgild)      7. 127.0.0.1 (acadgild)      12. 127.0.0.1 (acadgild)
 1      gunjan  3
2       arora   5
3       mridul  3
4       bharat  5
~
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~
"hbase/bulk_data.tsv" 4L, 44C
```

Saving data

```
~
:wq
```

Cat of bulk_date file

```
[acadgild@localhost hbase]$ cat bulk_data.tsv
 1      gunjan  3
 2      arora   5
 3      mridul  3
 4      bharat  5
```

Move bulk_data to hdfs

```
[acadgild@localhost hbase]$ hadoop fs -put bulk_data.tsv /hbase/
```

Check on hdfs:

```
[acadgild@localhost hbase]$ hadoop fs -ls /hbase
18/05/06 01:15:29 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 10 items
drwxr-xr-x   - acadgild supergroup          0 2018-05-05 13:16 /hbase/.tmp
drwxr-xr-x   - acadgild supergroup          0 2018-05-06 00:24 /hbase/MasterProcWALs
drwxr-xr-x   - acadgild supergroup          0 2018-05-05 13:14 /hbase/WALs
drwxr-xr-x   - acadgild supergroup          0 2018-05-06 00:33 /hbase/archive
-rw-r--r--   1 acadgild supergroup         44 2018-05-06 01:14 /hbase/bulk_data.tsv
drwxr-xr-x   - acadgild supergroup          0 2018-05-03 06:08 /hbase/corrupt
drwxr-xr-x   - acadgild supergroup          0 2018-05-02 19:44 /hbase/data
-rw-r--r--   1 acadgild supergroup         42 2018-05-02 19:44 /hbase/hbase.id
-rw-r--r--   1 acadgild supergroup          7 2018-05-02 19:44 /hbase/hbase.version
drwxr-xr-x   - acadgild supergroup          0 2018-05-06 01:14 /hbase/oldWALs
```

Get the data on hdfs:

```
[acadgild@localhost hbase]$ hadoop fs -cat /hbase/bulk_data.tsv
18/05/06 01:15:56 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
 1      gunjan  3
 2      arora   5
 3      mridul  3
 4      bharat  5
```

Command to move data from hdfs to hbase table:

Command: hbase org.apache.hadoop.hbase.mapreduce.ImportTsv -Dimporttsv.columns=HBASE_ROW_KEY,cf1:name,cf2:exp bulktable /hbase/bulk_data.tsv

```
[acadgild@localhost hbase]$ hbase org.apache.hadoop.hbase.mapreduce.ImportTsv -Dimporttsv.columns=HBASE_ROW_KEY,cf1:name,cf2:exp bulktable /hbase/bulk_data.t
sv
```

Processing complete:

```
2018-05-06 01:18:23,456 INFO  [main] mapreduce.Job: Job job_1525307719353_0006 running in uber mode : false
2018-05-06 01:18:23,460 INFO  [main] mapreduce.Job:  map 0% reduce 0%
2018-05-06 01:18:36,596 INFO  [main] mapreduce.Job:  map 100% reduce 0%
2018-05-06 01:18:37,688 INFO  [main] mapreduce.Job: Job job_1525307719353_0006 completed successfully
2018-05-06 01:18:38,270 INFO  [main] mapreduce.Job: Counters: 31
        File System Counters
                FILE: Number of bytes read=0
```

Scan hbase table and show values: **scan 'bulktable'**

```
hbase(main):001:0> scan 'bulktable'
ROW                          COLUMN+CELL
 1                           column=cf1:name, timestamp=1525549677445, value=gunjan
 1                           column=cf2:exp, timestamp=1525549677445, value=3
 2                           column=cf1:name, timestamp=1525549677445, value=arora
 2                           column=cf2:exp, timestamp=1525549677445, value=5
 3                           column=cf1:name, timestamp=1525549677445, value=mridul
 3                           column=cf2:exp, timestamp=1525549677445, value=3
 4                           column=cf1:name, timestamp=1525549677445, value=bharat
 4                           column=cf2:exp, timestamp=1525549677445, value=5
4 row(s) in 2.1730 seconds
```