SSH EMR Cluster

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    _| (    /    Amazon Linux 2 AMI
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https://aws.amazon.com/amazon-linux-2/
44 package(s) needed for security, out of 69 available
Run "sudo yum update" to apply all updates.

EEEEEEEEEEEEEEEEEEEEE MMMMMMMM           MMMMMMMM RRRRRRRRRRRRRRRR
E::::::::::::::::::::E M:::::::M         M:::::::M R:::::::::::::::R
EE:::::EEEEEEEEEE:::E M::::::::M         M::::::::M R:::::RRRRRR:::::R
  E::::E       EEEEE M:::::::::M       M:::::::::M RR::::R      R::::R
  E::::E             M::::::M:::M     M:::M::::::M   R:::R      R::::R
  E:::::EEEEEEEEEE    M::::::M M:::M M:::M M::::::M   R:::RRRRRR:::::R
  E::::::::::::::E    M::::::M  M:::M:::M  M::::::M   R:::::::::::RR
  E:::::EEEEEEEEEE    M::::::M   M:::::M   M::::::M   R:::RRRRRR::::R
  E::::E             M::::::M    M:::M    M::::::M   R:::R      R::::R
  E::::E       EEEEE M::::::M     MMM     M::::::M   R:::R      R::::R
EE:::::EEEEEEEEE::::E M::::::M             M::::::M   R:::R      R::::R
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EEEEEEEEEEEEEEEEEEEEE MMMMMMMM           MMMMMMMM RRRRRRR      RRRRRR

[hadoop@ip-172-31-12-128 ~]$
```

Entering into HBase

Command Used: hbase shell

```
Use "help" to get list of supported commands.
Use "exit" to quit this interactive shell.
Version 1.4.13, rUnknown, Sat Sep 19 02:15:00 UTC 2020

hbase(main):001:0>
```

Ex1: Creating an Hbase Table

Command Used: create 'csp554Tbl','cf1','cf2'

```
hbase(main):001:0> create 'csp554Tbl','cf1','cf2'
0 row(s) in 1.7740 seconds
```

Execute the DESCRIBE command

Command Used: describe 'csp554Tbl'

```
hbase(main):002:0> describe 'csp554Tbl'
Table csp554Tbl is ENABLED
csp554Tbl
COLUMN FAMILIES DESCRIPTION
{NAME => 'cf1', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY => 'false', KEE
P_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COM
PRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '655
36', REPLICATION_SCOPE => '0'}
{NAME => 'cf2', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY => 'false', KEE
P_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COM
PRESSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '655
36', REPLICATION_SCOPE => '0'}
2 row(s) in 0.0680 seconds
```

Ex2: Putting Data into the table:

Command Used: put 'csp554Tbl','Row1','cf1:name','Sam'
put 'csp554Tbl','Row2','cf1:name','Ahmed'
put 'csp554Tbl','Row2','cf1:name','Ahmed'
put 'csp554Tbl','Row1','cf2:job','pilot'
put 'csp554Tbl','Row2','cf2:job','Doctor'
put 'csp554Tbl','Row1','cf2:level','LZ3'
put 'csp554Tbl','Row2','cf2:level','AR7'

```
hbase(main):003:0> put 'csp554Tbl','Row1','cf1:name','Sam'
0 row(s) in 0.1940 seconds

hbase(main):004:0> put 'csp554Tbl','Row1','cf1:name','Ahmed'
0 row(s) in 0.0130 seconds

hbase(main):005:0> put 'csp554Tbl','Row1','cf1:name','Sam'
0 row(s) in 0.0260 seconds

hbase(main):006:0> put 'csp554Tbl','Row2','cf1:name','Ahmed'
0 row(s) in 0.0280 seconds

hbase(main):007:0> put 'csp554Tbl','Row1','cf2:job','pilot'
0 row(s) in 0.0120 seconds

hbase(main):008:0> put 'csp554Tbl','Row2','cf2:job','Doctor'
0 row(s) in 0.0100 seconds

hbase(main):009:0> put 'csp554Tbl','Row1','cf2:level','LZ3'
0 row(s) in 0.0120 seconds

hbase(main):010:0> put 'csp554Tbl','Row2','cf2:level','AR7'
0 row(s) in 0.0240 seconds
```

Execute the SCAN command

Command Used: scan 'csp554Tbl'

```
hbase(main):011:0> scan 'csp554Tbl'
ROW                     COLUMN+CELL
 Row1                    column=cf1:name, timestamp=1605829637636, value=Sam
 Row1                    column=cf2:job, timestamp=1605829719376, value=pilot
 Row1                    column=cf2:level, timestamp=1605829791990, value=LZ3
 Row2                    column=cf1:name, timestamp=1605829656787, value=Ahmed
 Row2                    column=cf2:job, timestamp=1605829741798, value=Doctor
 Row2                    column=cf2:level, timestamp=1605829817044, value=AR7
2 row(s) in 0.0490 seconds
```

EX3:

Command Used: get 'csp554Tbl', 'Row1',{COLUMN=> 'cf2:level'}

```
hbase(main):012:0> get 'csp554Tbl', 'Row1',{COLUMN=> 'cf2:level'}
COLUMN                  CELL
 cf2:level              timestamp=1605829791990, value=LZ3
1 row(s) in 0.0300 seconds

hbase(main):013:0>
```

Ex4:
Command Used: get 'csp554Tbl', 'Row2',{COLUMN=> 'cf1:name'}

```
hbase(main):013:0> get 'csp554Tbl', 'Row2',{COLUMN=> 'cf1:name'}
COLUMN                  CELL
 cf1:name               timestamp=1605829656787, value=Ahmed
1 row(s) in 0.0150 seconds

hbase(main):014:0>
```

Ex5:

Command Used: scan 'csp554Tbl' ,{LIMIT=> 2}

```
hbase(main):014:0> scan 'csp554Tbl' ,{LIMIT=> 2}
ROW                     COLUMN+CELL
 Row1                    column=cf1:name, timestamp=1605829637636, value=Sam
 Row1                    column=cf2:job, timestamp=1605829719376, value=pilot
 Row1                    column=cf2:level, timestamp=1605829791990, value=LZ3
 Row2                    column=cf1:name, timestamp=1605829656787, value=Ahmed
 Row2                    column=cf2:job, timestamp=1605829741798, value=Doctor
 Row2                    column=cf2:level, timestamp=1605829817044, value=AR7
2 row(s) in 0.0600 seconds

hbase(main):015:0>
```