## **Hbase to Flume Data Sink**

-start hbase services

```
s<mark>aurabh@saurabh-VirtualBox:~</mark>$ start-hbase.sh
starting master, logging to /usr/local/hbase/bin/../logs/hbase-saurabh-master-saurabh-VirtualBox.out
OpenJDK 64-Bit Server VM warning: ignoring option PermSize=128m; support was removed in 8.0
OpenJDK 64-Bit Server VM warning: ignoring option MaxPermSize=128m; support was removed in 8.0
```

-check the service

```
saurabh@saurabh-VirtualBox:~$ jps
22150 Application
23370 Jps
5693 HMaster
```

-create hbase.conf file
# Name the components on this agent
Agent1.sources = netcat-source
Agent1.channels = memory-channel
Agent1.sinks = logger-sink

# Describe/configure Source Agent1.sources.netcat-source.type = netcat Agent1.sources.netcat-source.bind = localhost Agent1.sources.netcat-source.port = 44444

# Describe the sink

Agent1.sinks.logger-sink.type = logger Agent1.sinks.logger-sink.type=hbase Agent1.sinks.logger-sink.table=test Agent1.sinks.logger-sink.columnFamily=CF1

Agent1.sinks.logger-sink.type=org.apache.flume.sink.hbase.AsyncHBaseSink #Agent1.sinks.logger-sink.serializer=org.apache.flume.sink.hbase.SimpleHbaseEventSerializer

# Use a channel which buffers events in memory
Agent1.channels.memory-channel.type = memory
Agent1.channels.memory-channel.capacity = 1000
Agent1.channels.memory-channel.transactionCapacity = 100

# Bind the source and sink to the channel
Agent1.sources.netcat-source.channels = memory-channel
Agent1.sinks.logger-sink.channel = memory-channel

-open hbase shell

```
saurabh@saurabh-VirtualBox:~$ hbase shell
SLF41: Class path contains multiple SLF41 bindings.
SLF41: Class path contains multiple SLF41 bindings.
SLF41: Found binding in [jar:file:/usr/local/hbase/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF41: Found binding in [jar:file:/usr/local/hadoop/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF41: See http://www.slf4j.org/codes.html#multiple bindings for an explanation.
SLF41: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
HBase Shell; enter 'help<RETURN>' for list of supported commands.
Type "exit<RETURN>" to leave the HBase Shell
Version 1.3.3, ra75a458e0c8f3c60db57f30ec4b06a606c9027b4, Fri Dec 14 16:02:53 PST 2018
```

-create table in hbase

### table and column-family name should be same as .conf file

```
hbase(main):028:0> create 'test','CF1'
0 row(s) in 1.2680 seconds
=> Hbase::Table - test
```

## -list the table

```
hbase(main):001:0> list
TABLE
airflow
emp
pagalpanti
tab1
test
user
6 row(s) in 0.8780 seconds
```

-open another terminal using this cmd. ctrl+alt+t write the flume cmd

```
saurabh@saurabh-VlrtualBox:-$ flume-ng agent --conf ./conf/ -f /home/saurabh/hbase.conf -Dflume.root.logger=DEBUG,console -n Agent1
Info: Including Has/local/hadoop/share/hadoop/common/lbjs/f4j-apt-17.5.jar from classpath
Info: Excluding /usr/local/hadoop/share/hadoop/common/lbjs/f4j-apt-17.5.jar from classpath
Info: Excluding Has/S libraries found (in a constant of the constant
```

flume-ng agent --conf ./conf/ -f /home/saurabh/hbase.conf -Dflume.root.logger=DEBUG,console -n Agent1

open another terminal using this cmd ctrl+alt+t and type

```
saurabh@saurabh-VirtualBox:~$ nc localhost 44444
azmat
OK
```

```
-switch the terminal where the hbase terminal open and enter hbase(main):032:0> scan 'test'
                                                       ### ROW default4f40bba8-2ea5-40af-96f8-6a294fb0beb8 default5f40b6d-3b20-4956-8ff6-cc60247e582e incRow 3 row(s) in 0.0430 seconds
```

insert the data

we can insert continously data

```
saurabh@saurabh-VirtualBox:~$ nc localhost 44444
azmat
OK
he
OK
```

Done!