

Flume Installation Guide

- 1. Starting flume only requires a configuration file which has the entire configuration for source, sink and channels.
- 2. We will take a spooling directory as source, HDFS as sink and memory as channel. That means flume will pick up files from a specified directory and put up in HDFS.
- 3. Configuration file:Create a configuration file named flume-conf.properties and add following configuration in that file.

```
Rashmis-MacBook-Pro:flume rashmi$ cat flume-
conf.properties

# example.conf: A single-node Flume configuration

# Name the components on this agent
agent.sources = src-1
agent.sinks = hdfs-sink
agent.channels = memory-channel

#Source properties, its a spolling source which will
take data from directory /Users/rashmi/players/runs
agent.sources.src-1.type = spooldir
agent.sources.src-1.spoolDir = /Users/rashmi/players/
runs
```

```
agent.sources.src-1.fileHeader = true
# Use a channel which buffers events in memory
agent.channels.memory-channel.type = memory
agent.channels.memory-channel.capacity = 1000
agent.channels.memory-channel.transactionCapacity = 100
#Sink properties, hdfs source which will store data
here
agent.sinks.hdfs-sink.type = hdfs
agent.sinks.hdfs-sink.hdfs.path = /user/rashmi/players/
runs
agent.sinks.hdfs-sink.hdfs.fileType = DataStream
agent.sinks.hdfs-sink.hdfs.rollCount = 20
# Bind the source and sink to the channel
agent.sources.src-1.channels = memory-channel
agent.sinks.hdfs-sink.channel = memory-channel
```

4. Create a directory in local. Flume will pick up data from here.

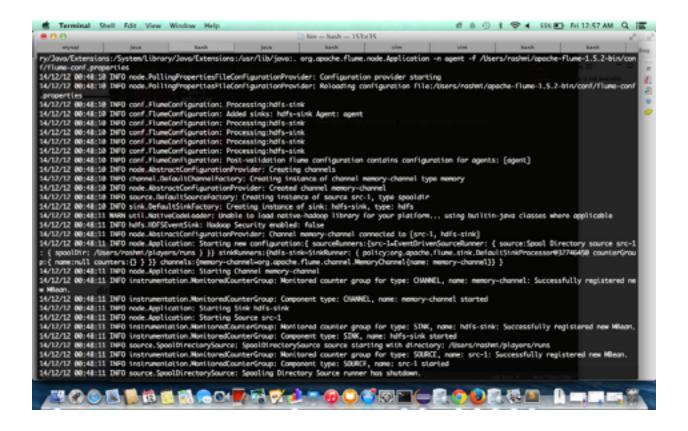
```
Rashmis-MacBook-Pro:data rashmi/Notes ir -p /Users/rashmi/players/runs
```

5. Create a directory in HDFS. Flume will put data here.

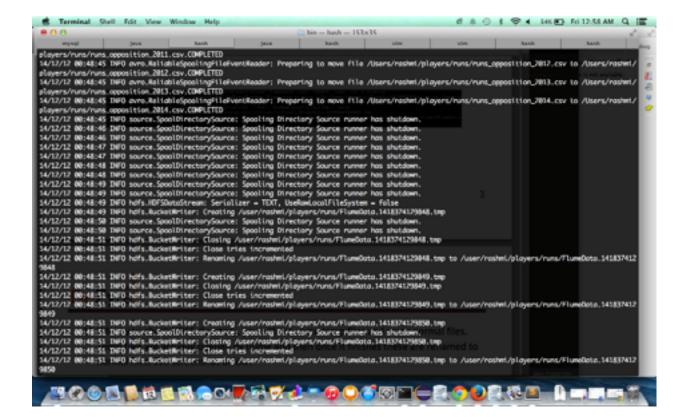
```
Rashmis-MacBook-Pro:runs rashmi$ hadoop fs -mkdir /user/rashmi/players/runs
```

6. Now to run flume just run following command. This will start flume after some logging as shown in screenshot below.

```
Roshmis-MacBook-Pro:bin rashmis ./flume-ng agent -n agent -c conf -f /Users/rashmi/apache-flume-1.5.2-bin/conf/flume-conf.properties
Info: Including Hadoop libraries found via (/usr/local/bin/hadoop) for HOPS access
Info: Excluding /usr/local/Cellar/hadoop/2.6.8/libexec/share/hadoop/common/lib/slf4j-api-1.7.5.jar from classpath
Info: Excluding /usr/local/Cellar/hadoop/2.6.8/libexec/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar from classpath
Info: Excluding HASS libraries found via (/usr/local/bin/hasse) for HBASI access
Info: Excluding /usr/local/Cellar/hadoop/2.8.8/libexec/bin/../lib/slf4j-api-1.6.4.jar from classpath
Info: Excluding /usr/local/Cellar/hadoop/2.6.8/libexec/bin/../lib/slf4j-api-1.7.5.jar from classpath
Info: Excluding /usr/local/Cellar/hadoop/2.6.8/libexec/share/hadoop/common/lib/slf4j-api-1.7.5.jar from classpath
Info: Excluding /usr/local/Cellar/hadoop/2.6.8/libexec/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar from classpath
```



- 7. Now flume is ready to start its work. Whenever there will be any new file in spooling directory, flume source will pick it up and start putting it in memory channel. Once memory channel is full it will write it to HDFS.
- 8. Now start putting files in spooling directory.
- 9. Whenever a new file is copied into spooling directory flume picks it up. See screenshot below.
- 10. When you check HDFS directory, you will see some temp files and some normal files. Temp files are actually opened by flume and then once it finishes these are renamed to normal files. See screenshot below:



```
Rashmis-MacRook-Pro:runs rashmi$ hadoop is -ls /user/rashmi/players/runs

14/12/12 00:48:54 WARN util.NutiveCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where op
Found 5 itams
-rw-r--r- 3 rashmi supergroup 741 2814-12-12 00:48 /user/rashmi/players/runs/FlumeData.1418374129848
-rw-r--r- 3 rashmi supergroup 755 2814-12-12 00:48 /user/rashmi/players/runs/FlumeData.1418374129890
-rw-r--r- 3 rashmi supergroup 754 2814-12-12 00:48 /user/rashmi/players/runs/FlumeData.1418374129850
-rw-r--r- 3 rashmi supergroup 754 2814-12-12 00:48 /user/rashmi/players/runs/FlumeData.1418374129851
-rw-r--r- 3 rashmi supergroup 489 2814-12-12 00:48 /user/rashmi/players/runs/FlumeData.1418374129852.tmp
```