Wisdom Sprouts

We foster knowledge here
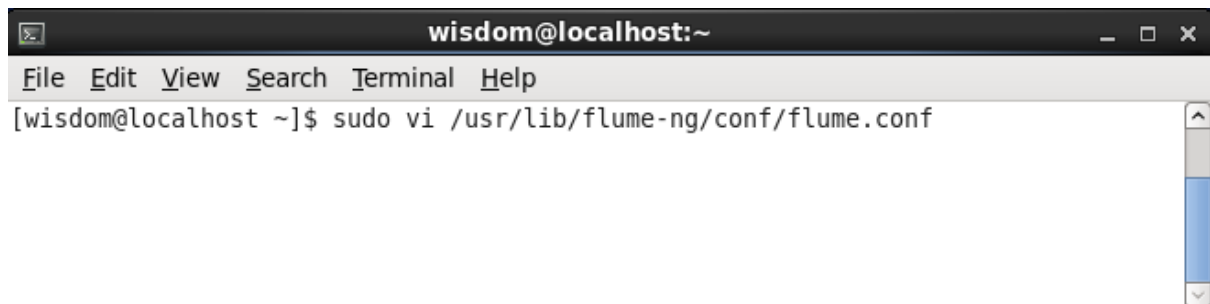
BIG DATA HADOOP

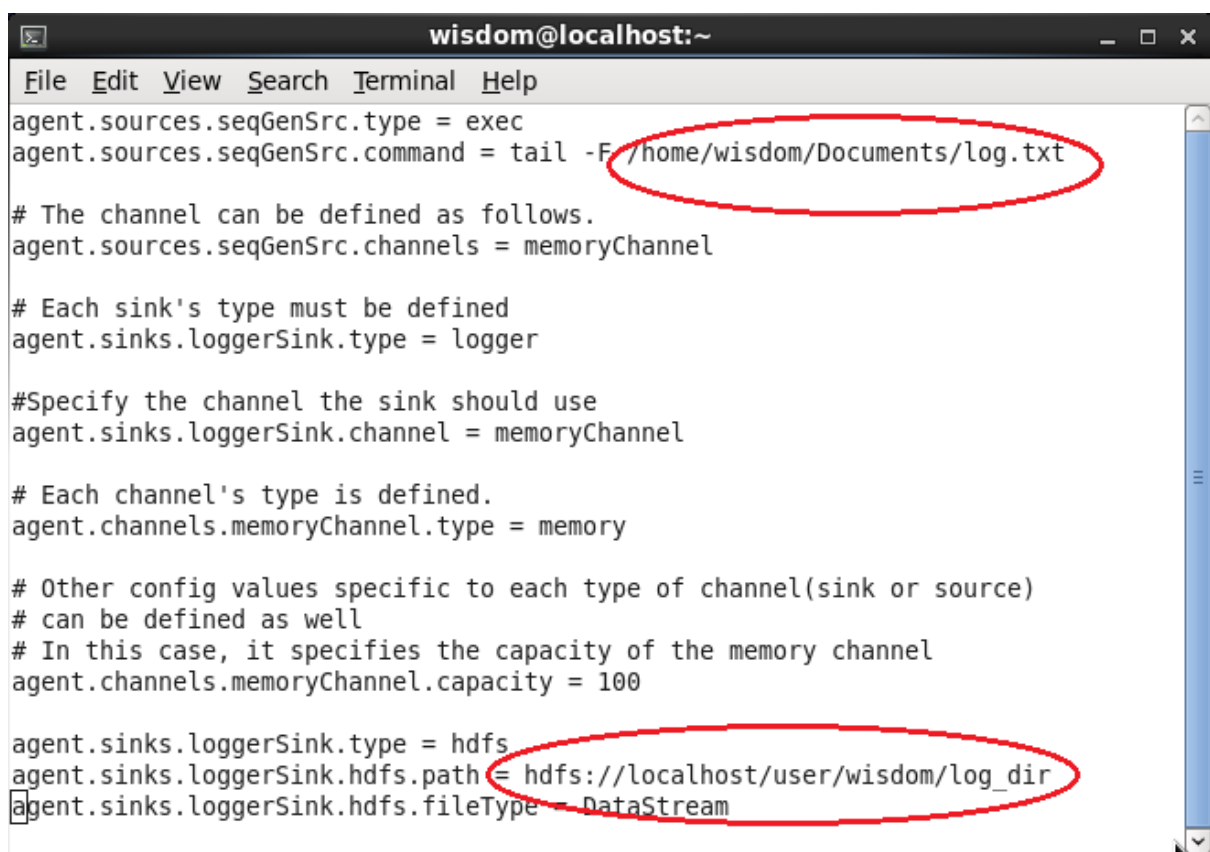## Lab Manual
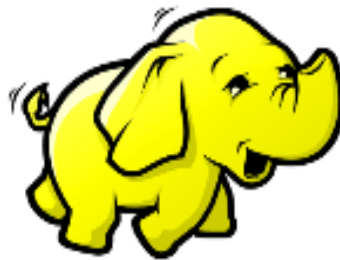
Configuring a Flume Agent

```
 ▣                         wisdom@localhost:~                    _ ☐ ✕

 File  Edit  View  Search  Terminal  Help

 [wisdom@localhost ~]$ sudo vi /usr/lib/flume-ng/conf/flume.conf
```

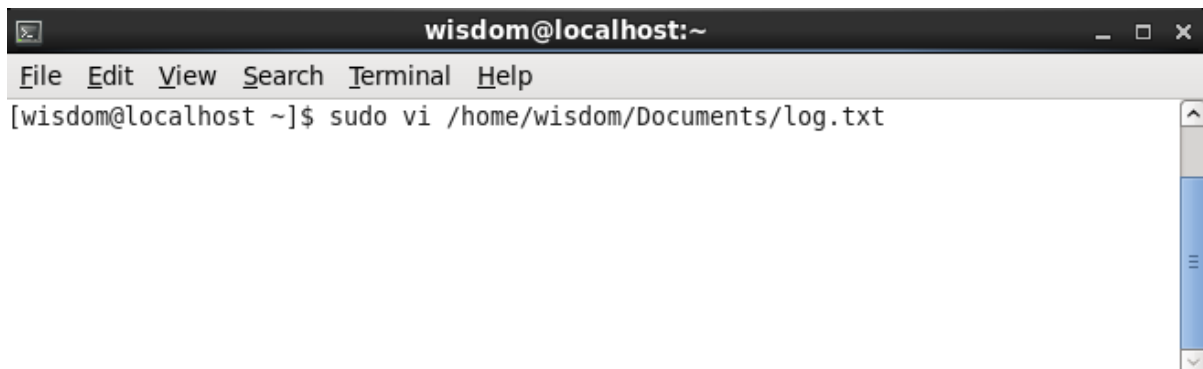`The file looks like this`

```
 ▣                         wisdom@localhost:~                    _ ☐ ✕

 File  Edit  View  Search  Terminal  Help

 agent.sources.seqGenSrc.type = exec
 agent.sources.seqGenSrc.command = tail -F /home/wisdom/Documents/log.txt

 # The channel can be defined as follows.
 agent.sources.seqGenSrc.channels = memoryChannel

 # Each sink's type must be defined
 agent.sinks.loggerSink.type = logger

 #Specify the channel the sink should use
 agent.sinks.loggerSink.channel = memoryChannel

 # Each channel's type is defined.
 agent.channels.memoryChannel.type = memory

 # Other config values specific to each type of channel(sink or source)
 # can be defined as well
 # In this case, it specifies the capacity of the memory channel
 agent.channels.memoryChannel.capacity = 100

 agent.sinks.loggerSink.type = hdfs
 agent.sinks.loggerSink.hdfs.path = hdfs://localhost/user/wisdom/log_dir
 agent.sinks.loggerSink.hdfs.fileType = DataStream
```
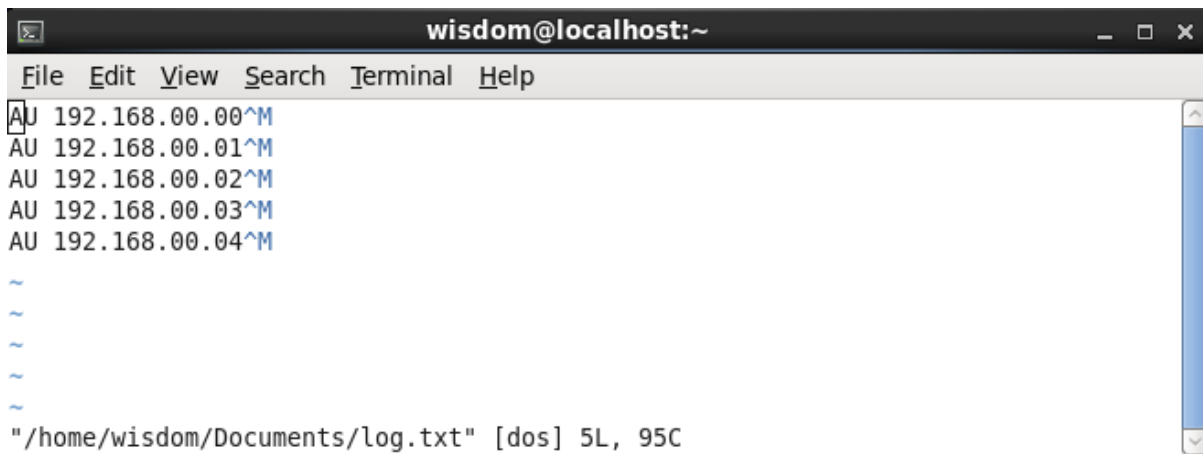
**After Verifying the Source and Destination Press "Esc"
and type ":q" to quit**

```
                              wisdom@localhost:~                    _  □  ×

 File  Edit  View  Search  Terminal  Help

[wisdom@localhost ~]$ sudo vi /home/wisdom/Documents/log.txt
```

The file looks like this

```
                              wisdom@localhost:~                    _  □  ×

 File  Edit  View  Search  Terminal  Help

AU 192.168.00.00^M
AU 192.168.00.01^M
AU 192.168.00.02^M
AU 192.168.00.03^M
AU 192.168.00.04^M

~
~
~
~
~
"/home/wisdom/Documents/log.txt" [dos] 5L, 95C
```

Step 3: Start the Flume Agent

[wisodm@localhost ~]$ flume-ng agent --conf-file /usr/lib/flume-
ng/conf/flume.conf --name agent -Dflume.root.logger=INFO,console

```
┌──────────────────────────────────────────────────────────────┐
│                      Expected Output                         │
└──────────────────────────────────────────────────────────────┘
```

A lot of stuff will pop on the terminal. Out of which you should be able to observe something similar to the screen shots

Step 4: Check the status of the Flume destination directory from a new terminal

```
wisdom@localhost:~                                    _ □ ✕
File  Edit  View  Search  Terminal  Help
[wisdom@localhost ~]$ hadoop fs -ls log_dir
Found 4 items
-rw-r--r--   1 wisdom supergroup         90 2015-10-02 11:57 log_dir/FlumeData.1
443801464990
-rw-r--r--   1 wisdom supergroup         51 2015-10-02 11:58 log_dir/FlumeData.1
443801464991
[wisdom@localhost ~]$
```

Step 5: Follow the screen shots to add more content to the Flume source file
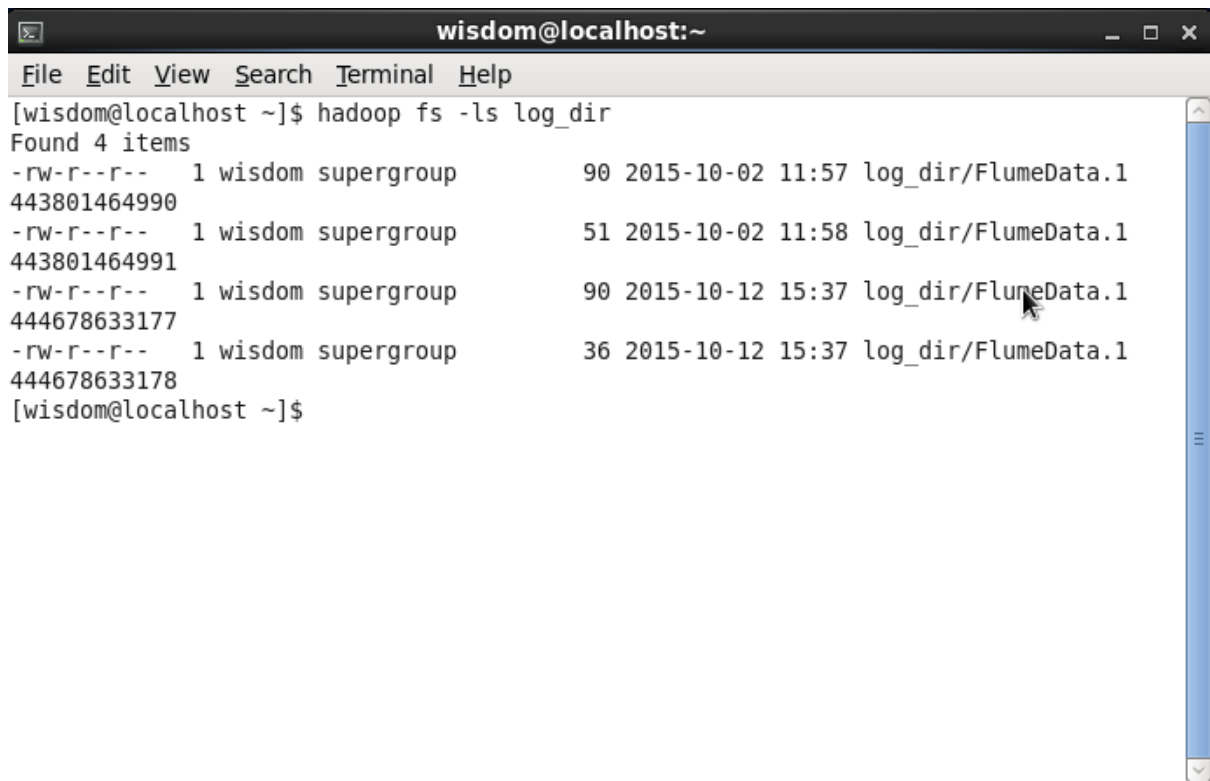
```
wisdom@localhost:~                                 _ □ ✕
File  Edit  View  Search  Terminal  Help
[wisdom@localhost ~]$ sudo vi /home/wisdom/Documents/log.txt
```

```
wisdom@localhost:~                                 _ □ ✕
File  Edit  View  Search  Terminal  Help
AU 192.168.00.00^M
AU 192.168.00.01^M          Press "i" to start the insert mode
AU 192.168.00.02^M          and add some content to the end of
AU 192.168.00.03^M          the file
AU 192.168.00.04^M
new content here
any thing you wish          After doing the changes, Press "Esc"
~                           and type ":wq" to save the changes and
~                           quit
~
-- INSERT --
```

Step 5: Observe the changes in the Flume destination directory

```
wisdom@localhost:~                                        _ □ ✕

File  Edit  View  Search  Terminal  Help

[wisdom@localhost ~]$ hadoop fs -ls log_dir
Found 4 items
-rw-r--r--   1 wisdom supergroup          90 2015-10-02 11:57 log_dir/FlumeData.1
443801464990
-rw-r--r--   1 wisdom supergroup          51 2015-10-02 11:58 log_dir/FlumeData.1
443801464991
-rw-r--r--   1 wisdom supergroup          90 2015-10-12 15:37 log_dir/FlumeData.1
444678633177
-rw-r--r--   1 wisdom supergroup          36 2015-10-12 15:37 log_dir/FlumeData.1
444678633178
[wisdom@localhost ~]$
```
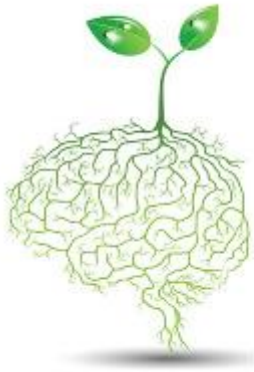
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