# FLUME WORKOUTS

**Installation steps:**

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1. Extract the tarball,

cd /home/hduser/install/

tar xvzf apache-flume-1.6.0-bin.tar.gz

1. Rename and move the flume folder,

sudo mv apache-flume-1.6.0-bin /usr/local/flume

1. Copy the jar file to lib path

cp /home/hduser/install/flume-sources-1.0-SNAPSHOT.jar /usr/local/flume/lib/

1. Create flume-env.sh from the template and update with the java and flume class paths. cd /usr/local/flume/conf/

sudo mv flume-env.sh.template flume-env.sh

echo 'export JAVA\_HOME=/usr/lib/jvm/java-1.7.9-openjdk-1.7.0.85.X86\_64' >>

/usr/local/flume/conf/flume-env.sh

echo 'export FLUME\_CLASSPATH=/usr/local/flume/lib/flume-sources-1.0-SNAPSHOT.jar'>>

/usr/local/flume/conf/flume-env.sh

1. Copy the following conf files, to conf folder and then start the flume agent passing the conf file. cd ~/install

cp tail\_exec.conf netcat\_flume.conf hdfs.conf twitter.conf /usr/local/flume/conf/

# Workouts:

**Run the below command to start the agent for Flume hdfs, nc and twitter store.**

1. Capture the realtime incremental logs generated by devices in the corresponding device servers. flume-ng agent -n a1 -c conf -f $FLUME\_HOME/conf/tail\_exec.conf

mkdir /home/hduser/device1

echo 'test data 1' >> ~/device1/log.txt echo 'test data 2' >> ~/device1/log.txt echo 'test data 3' >> ~/device1/log.txt echo 'test data 4' >> ~/device1/log.txt

1. Capture the console log and save in hdfs instantaneously.

Start the agent a1 in terminal – 1 and initiate the netcat port 44444 flume-ng agent -n a1 -c conf -f $FLUME\_HOME/conf/hdfs.conf

Run the below command in terminal - 2 to input events. curl telnet://localhost:44444

1. Listen a terminal for console logs Terminal -1

flume-ng agent -n a1 -c conf -f $FLUME\_HOME/conf/netcat\_flume.conf Run the below command in terminal - 2 to input events.

curl telnet://localhost:44444

1. To run the twitter conf file, to store the twitter tweets in hdfs for later analysis.

Set the twitter application logging into apps.twitter.com

flume-ng agent -n TwitterAgent -c conf -f $FLUME\_HOME/conf/twitter.conf