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INCEPTEZ TECHNOLOGIES FLUME WORKOUTS

Installation steps:

1) Ensure the following files are present in home/hduser/install path

```
cd /home/hduser/install/  
netcat_flume.conf  
hdfs.conf  
tail_exec.conf  
twitter.conf  
flume-sources-1.0-SNAPSHOT.jar  
apache-flume-1.4.0-bin.tar.gz
```

2) Extract the tarball,

```
cd /home/hduser/install/  
tar xvzf apache-flume-1.4.0-bin.tar.gz
```

3) Rename and move the flume folder,

```
sudo mv apache-flume-1.4.0-bin /usr/local/flume
```

4) Copy the jar file to lib path

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

5) 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
```

```
vi flume-env.sh
```

Add below env variables.

```
export JAVA_HOME=/usr/lib/jvm/java-1.7.9-openjdk-1.7.0.85.X86_64  
export FLUME_CLASSPATH="/usr/local/flume/lib/flume-sources-1.0-SNAPSHOT.jar"
```

6) Copy the following conf files, to conf folder and then start the flume agent passing the conf file.

```
cd ~/install
sudo cp tail_exec.conf netcat_flume.conf hdfs.conf twitter.conf /usr/local/flume/conf/
```

7) Add the below env variables in ~/.bashrc

```
vi ~/.bashrc
FLUME_HOME=/usr/local/flume
export FLUME_HOME
export PATH=$PATH:$FLUME_HOME/bin
```

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
```

2) Capture the console log and save in hdfs instantaneously.

start the agent a1 in one terminal

```
flume-ng agent -n a1 -c conf -f $FLUME_HOME/conf/hdfs.conf
```

Run the below command in other terminal to input events.

```
curl telnet://localhost:44444
```

3) Listen a terminal for console logs

```
flume-ng agent -n a1 -c conf -f $FLUME_HOME/conf/netcat_flume.conf
```

Run the below command in other terminal to input events.

```
curl telnet://localhost:44444
```

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

```
flume-ng agent -n TwitterAgent -c conf -f $FLUME_HOME/conf/twitter.conf
```