

Apache Flume Installation



The objective of this tutorial is to describe step by step process to install Flume (Version 1.9.0) on Hadoop 3.1.2 version and the OS we are using is Ubuntu 18.04.4 LTS (Bionic Beaver), once the installation is completed you can play with Flume.

Platform

- **Operating System (OS).** You can use Ubuntu 18.04.4 LTS version or later version, also you can use other flavors of Linux systems like Redhat, CentOS, etc.
- **Hadoop.** We have already installed Hadoop 3.1.2 version on which we will run Flume (Please refer to the "[Hadoop Installation Single Node](#)" tutorial and install Hadoop first before proceeding for Flume installation.)
- **Flume.** We have used the Apache Flume-1.9.0 version for installation.

Download Software

- **Flume.**
<https://downloads.apache.org/flume/1.9.0/apache-flume-1.9.0-bin.tar.gz>

Steps to Install Apache Flume version(1.9.0) on Ubuntu 18.04.4 LTS

Please follow the below steps to install Flume.

Step 3. Please download Flume 1.9.0 from the below link.

On Linux: `$wget https://downloads.apache.org/flume/1.9.0/apache-flume-1.9.0-bin.tar.gz`

On Windows: `https://downloads.apache.org/flume/1.9.0/apache-flume-1.9.0-bin.tar.gz`

```
cloudduggu@ubuntu: ~  
cloudduggu@ubuntu:~$ wget https://downloads.apache.org/flume/1.9.0/apache-flume-1.9.0-bin.tar.gz  
--2020-07-25 22:13:59-- https://downloads.apache.org/flume/1.9.0/apache-flume-1.9.0-bin.tar.gz  
Resolving downloads.apache.org (downloads.apache.org)... 88.99.95.219, 2a01:4f8:10a:201a::2  
Connecting to downloads.apache.org (downloads.apache.org)|88.99.95.219|:443... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 67938106 (65M) [application/x-gzip]  
Saving to: 'apache-flume-1.9.0-bin.tar.gz'  
  
apache-flume-1.9.0-bin.tar.gz 100%[=====>] 64.79M 420KB/s in 2m 32s  
  
2020-07-25 22:16:32 (438 KB/s) - 'apache-flume-1.9.0-bin.tar.gz' saved [67938106/67938106]  
  
cloudduggu@ubuntu:~$
```

Step 4. Now we will extract the tar file by using the below command and rename the folder to flume to make it meaningful.

`$tar -xzf apache-flume-1.9.0-bin.tar.gz`

`$mv apache-flume-1.9.0-bin flume`

```
cloudduggu@ubuntu: ~  
cloudduggu@ubuntu:~$ tar -xzf apache-flume-1.9.0-bin.tar.gz  
cloudduggu@ubuntu:~$
```

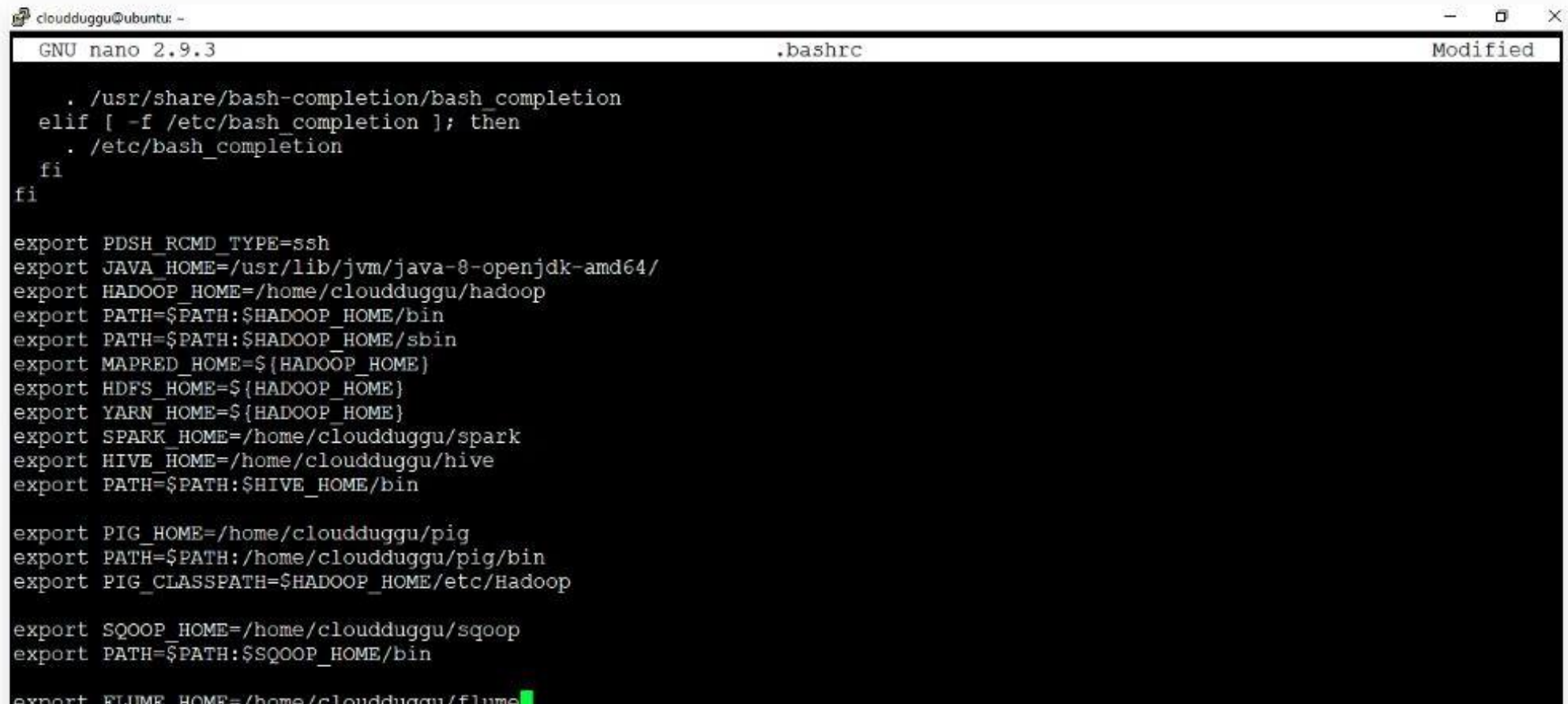
Step 5. Now edit the `.bashrc` file to update the environment variable of Apache Flume so that it can be accessed from any directory.

```
$nano .bashrc
```

Add below lines.

```
$export FLUME_HOME=/home/cloudduggu/flume
```

```
$export PATH=$PATH:$FLUME_HOME/bin
```



```
cloudduggu@ubuntu: ~
GNU nano 2.9.3 .bashrc Modified

. /usr/share/bash-completion/bash_completion
elif [ -f /etc/bash_completion ]; then
. /etc/bash_completion
fi
fi

export PDSH_RCMD_TYPE=ssh
export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64/
export HADOOP_HOME=/home/cloudduggu/hadoop
export PATH=$PATH:$HADOOP_HOME/bin
export PATH=$PATH:$HADOOP_HOME/sbin
export MAPRED_HOME=${HADOOP_HOME}
export HDFS_HOME=${HADOOP_HOME}
export YARN_HOME=${HADOOP_HOME}
export SPARK_HOME=/home/cloudduggu/spark
export HIVE_HOME=/home/cloudduggu/hive
export PATH=$PATH:$HIVE_HOME/bin

export PIG_HOME=/home/cloudduggu/pig
export PATH=$PATH:/home/cloudduggu/pig/bin
export PIG_CLASSPATH=$HADOOP_HOME/etc/Hadoop

export SQOOP_HOME=/home/cloudduggu/sqoop
export PATH=$PATH:$SQOOP_HOME/bin

export FLUME_HOME=/home/cloudduggu/flume
```

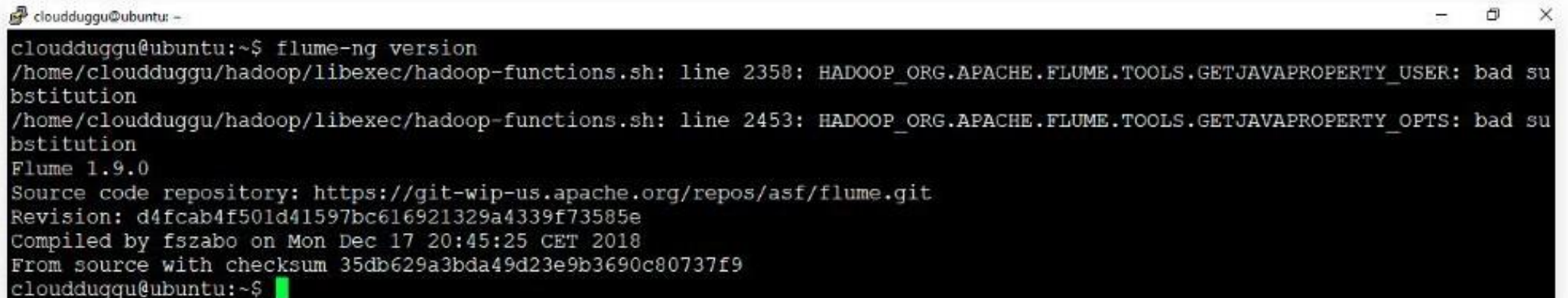
Save the changes by pressing CTRL + O and exit from the nano editor by pressing CTRL + X.

Step 6. Run source command to update changes in the same terminal.

```
$source .bashrc
```

Step 7. Flume has been installed successfully. Now we can verify Flume installation using the below command.

```
$flume-ng version
```



```
clouduggu@ubuntu: ~  
clouduggu@ubuntu:~$ flume-ng version  
/home/clouduggu/hadoop/libexec/hadoop-functions.sh: line 2358: HADOOP_ORG.APACHE.FLUME.TOOLS.GETJAVAPROPERTY_USER: bad substitution  
/home/clouduggu/hadoop/libexec/hadoop-functions.sh: line 2453: HADOOP_ORG.APACHE.FLUME.TOOLS.GETJAVAPROPERTY_OPTS: bad substitution  
Flume 1.9.0  
Source code repository: https://git-wip-us.apache.org/repos/asf/flume.git  
Revision: d4fcab4f501d41597bc616921329a4339f73585e  
Compiled by fszabo on Mon Dec 17 20:45:25 CET 2018  
From source with checksum 35db629a3bda49d23e9b3690c80737f9  
clouduggu@ubuntu:~$
```

Apache Flume installation is completed on Ubuntu 18.04.4 LTS (Bionic Beaver).