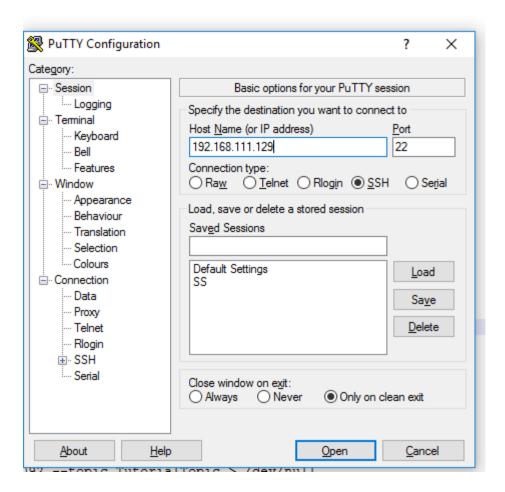
How to set up Streamsets with Kafka server to get live data from twitter.

- 1. Download the VM ware image file. Kafka and streamset is already installed on this image.
- 2. Open it with VM ware.
- 3. Open terminal window and check the IP address with "ifconfig" command.

```
22
                            Terminal - user@xubuntu: ~
File Edit View Terminal Tabs Help
user@xubuntu:~$ ifconfig
eth0
          Link encap:Ethernet HWaddr 00:0c:29:d5:60:83
          inet addr:192.168.111.129 Bcast:192.168.111.255 Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fed5:6083/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:2522 errors:0 dropped:0 overruns:0 frame:0
          TX packets:5803 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:485378 (485.3 KB) TX bytes:7415762 (7.4 MB)
          Interrupt:17 Base address:0x1080
lo
          Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:4743 errors:0 dropped:0 overruns:0 frame:0
          TX packets:4743 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:437059 (437.0 KB) TX bytes:437059 (437.0 KB)
user@xubuntu:~$
```

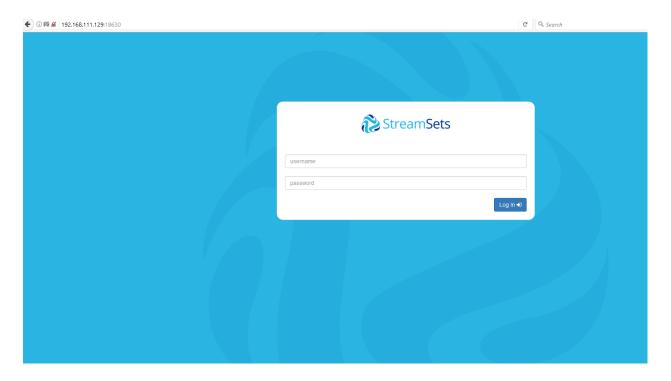
4. Open Putty and use above IP address to connect to terminal.



- 5. Use below details to connect with terminal.
  - a. Username 1: User
  - b. Password: password
- 6. Login with SU and super user password is "password", we need to login as super user as we have to run below command after login as super user.
  - a. \$ ulimit -n 9000
- 7. Start Streamset application by below code.
  - a. \$ streamsets-datacollector-2.1.0.2/bin/streamsets dc
- 8. You will get below screen; use the defined URL to open streamset in the browser (My case: http://192.168.111.129:18630/).

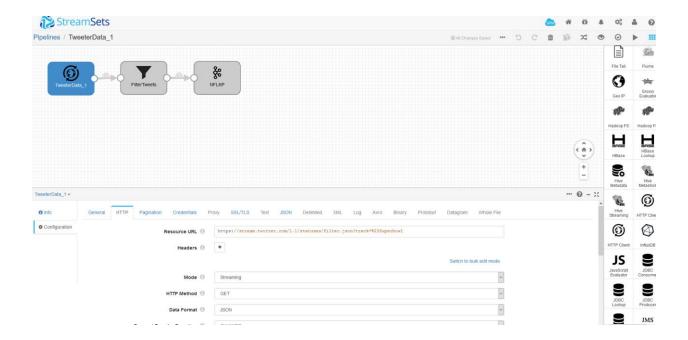
```
root@xubuntu: /home/user
                                                                          X
login as: user
user@192.168.111.129's password:
Access denied
user@192.168.111.129's password:
Welcome to Ubuntu 14.04 LTS (GNU/Linux 3.13.0-24-generic i686)
 * Documentation: https://help.ubuntu.com/
Last login: Mon Jun 26 16:17:59 2017 from 192.168.111.1
user@xubuntu:~$ su
Password:
root@xubuntu:/home/user# ulimit -n 9000
root@xubuntu:/home/user# streamsets-datacollector-2.1.0.2/bin/streamsets dc
Java HotSpot(TM) Server VM warning: ignoring option PermSize=256m; support was r
emoved in 8.0
Java HotSpot(TM) Server VM warning: ignoring option MaxPermSize=512m; support wa
s removed in 8.0
Running on URI : 'http://xubuntu:18630'
```

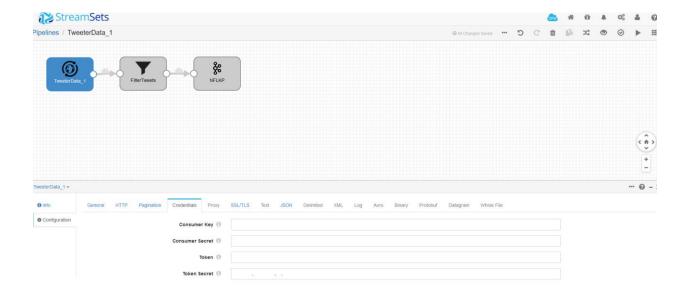
9. Login into stream set with user name ("admin") and password ("admin").

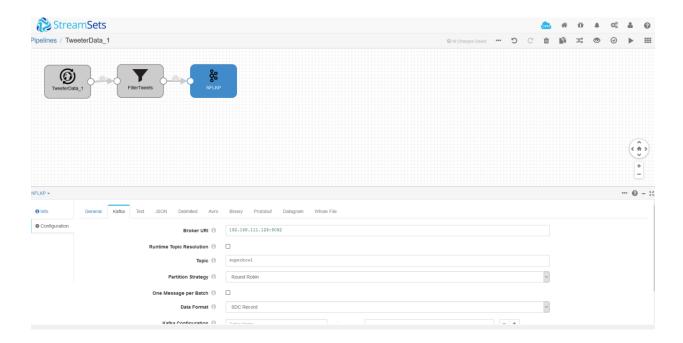


10. Login with KAFKA user in putty terminal and run KAFKA server, below are the commands to start it.

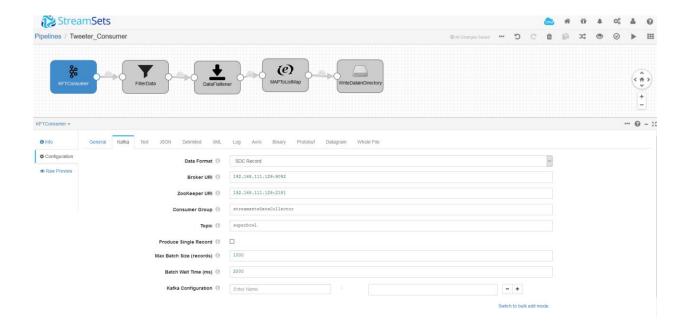
- a. Ś su kafka
- b. \$ cd ~/kafka
- c. **Start KAFKA server**: \$ nohup ~/kafka/bin/kafka-server-start.sh ~/kafka/config/server.properties > ~/kafka/kafka.log 2>&1 &
- d. **Stop KAFKA server**: \$ nohup ~/kafka/bin/kafka-server-stop.sh &
- 11. All set to use Streamset and Kafka.
- 12. Below are the steps to create Twitter producer pipe line.
  - a. Create a twitter app in twitter to get consumer key and token. Use this link <a href="https://apps.twitter.com/">https://apps.twitter.com/</a>.
  - b. Add HTTP client as source and configure it for twitter app.
  - c. Add twitter URL as resource URL, check below image.
  - d. Add twitter consumer key and token in credential tab.
  - e. User other setting according to you requirement.
  - f. Add field remover to clean the tweets.
  - g. Add Kafka producer to create a stream in Kafka server
  - h. Add Broker URI and select stage library to Kafka.

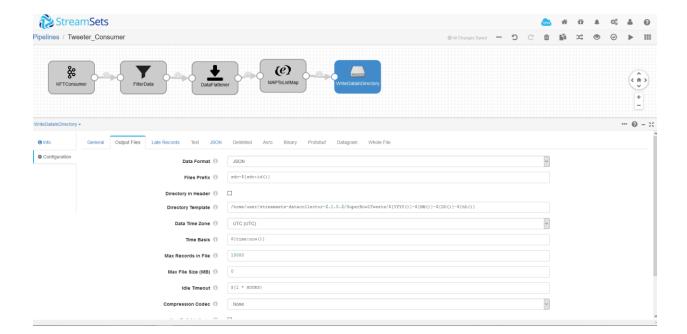




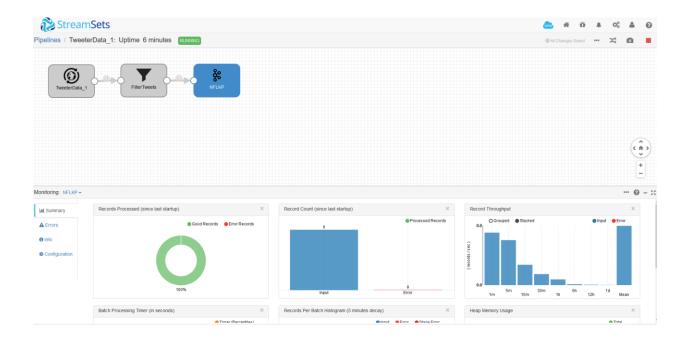


- 13. Below are the steps to create Twitter consumer pipe line
  - a. Add Kafka consumer and configure it according to your IP address
  - b. Add filed remover, field flattener and expression evaluator to clean the data again.
  - c. Add local file system as destination and configure it according to your needs.





14. Run both the pipeline to get the data.





<u>Note</u>: Everything for both pipeline already set up, you just need to use your tweeter token, consumer key, URL and IP address to start the pipelines