Setting up for the demos:

You must use Ambari to enable the kafka broker:

1. After establishing ssh tunneling open a browser to localhost:8080
2. Log on to Ambari with username maria\_dev and password also maria\_dev
3. Select ‘Services’ on the top of the page, then select ‘Kafka’
4. On the Kafka page, click on ‘Service Actions’ on the top right of the page and then select ‘Start’
5. Each time you stop and restart the sandbox VM, follow the above to make sure the Kafka broker is still active (and if not reactivate it).

To use the kafka-python library do this (recall this from assignment #3):

* Log on to the maria\_dev account
* Enter “su root”
  + You will be asked for the root password; enter the password you supplied for assignment #3
* Now enter

scl enable python27 bash

pip install kafka-python

* Enter “exit” twice. This causes you to leave root mode.
* Enter

scl enable python27 bash

Now you can use the python kafka library.

Unzip the files in kafka.zip into some local directory.

scp the files from the local directory to the /home/maria\_dev directory on the maria\_dev account.

Unzip the files in kafka.zip using ‘unzip kafka.zip’ which will copy the demo files into the directory /home/maria\_dev/kafka.

Using the kafka console consumer and producer:

Set up two terminals connected to the Hadoop sandbox maria\_dev account.

Make sure you have entered ‘scl enable python27 bash’ in both.

In each maria\_dev terminal cd to the kafka directory.

In one terminal:

Create a kafka topic: ./kcreate2.sh demo1

Start the producer: ./kproducer2.sh demo1

Type a few words and press ‘enter’

In the other terminal:

Start the consumer: ./kconsumer2.sh demo1

Watch the first few words print out

In the first (producer) terminal

Type another few words and press ‘enter’

In the other (consumer) terminal

Watch the second few words print out

Note, each time you stop and start the producer and/or consumer create another topic as the little programs are a bit simplistic

Using the python kafka library:

In one terminal window:

Create a kafka topic: ./kcreate2.sh kptest1

First execute: python ./kpt\_base.py

This will put the following item onto the topic: raw\_bytes234

Then execute python ./kpt\_base2.py

This will display the result of consuming this string from the topic