

Install KafkaEsque on Apple M Systems (16-Feb-2025)

To understand Kafka operations there is a visual tool called KafkaEsque that can display the various topics and messages stored by Kafka. For the x86 VirtualBox versions of the LHM, KafkaEsque is installed in the LHM and can be started from within the VM (the display of KafkaEsque on your desktop is managed by MobaXterm on Windows PC and XQuartz on x86 Macintosh systems).

On UTM-based Apple M (Arm-based) systems, KafkaEsque is not available (yet). There is an easy workaround that will allow KafkaEsque to connect to the LHM. The work around requires two things:

1. An updated version of the LHM (V2.0-M8.2) that has been modified to allow an external version of KafkaEsque to connect to Kafka running on the LHM
2. Installation of KafkaEsque on your Mac desktop or notebook. (Note this is only needed on Apple M-based systems, not x86 VirtualBox systems)

Step 1:

If you are not running the latest version of the LHM, update to version **V2.0-M8.2**. The version is listed every time you login (i.e. `=== Linux Hadoop Minimal V2.0-M8.2 (Feb-14-2025) ===`). Update instructions are available on-line from the Course-Site/Moodle or directly from this URL:

<https://www.clustermonkey.net/download/Eadline/Lehigh/Week-01/Linux-Hadoop-Minimal-V2.0-M8.2-UPDATE.txt>

Step 2:

Installing KafkaEsque uses the standard method on Macintosh computers. The steps are outlined below and include the configuration needed to talk to the LHM.

Step 2.1:

Download the *KafkaEsque-2.9.5.dmg* image from <https://kafka.esque.at/downloads/>



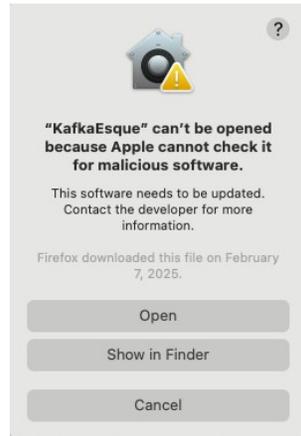
Once downloaded, click on the *KafkaEsque-2.9.5.dmg* file and slide KafkaEsque to Applications



Step 2.2:

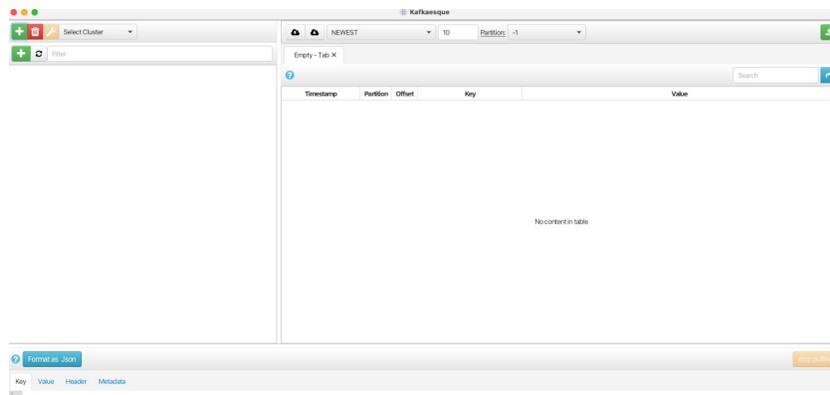
Go to Applications in Finder and right click KafkaEsque (do not double click on the KafkaEsque icon it will not be allowed to run). The following warning will be issued because Apple has not sanctioned this applicaion.

Click: **Open**

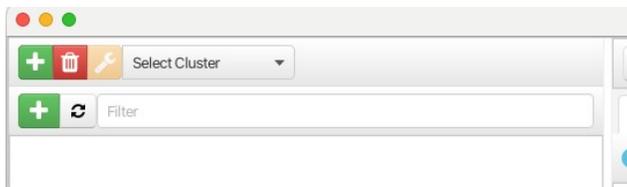


Step 2.3:

The empty KafkaEsque GUI will open:



Next, click on the Green + next to trash icon:



An "Add new Kafka Cluster" window will open. Only the top two entries are important.



Add the following as shown in the image above.

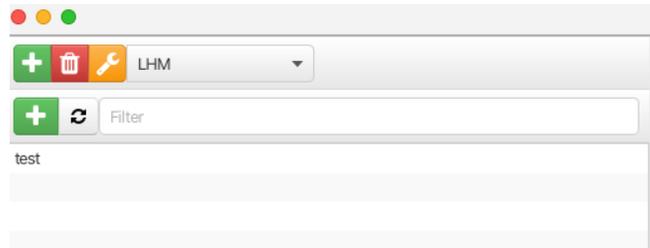
Identifier: **LHM**
Bootstrap-Servers: **localhost:9092**

Click the "Add" button at the bottom of the window.

Step 2.4

The LHM should be listed next to the wrench icon. (if not use the pull down to select it)

Directly under the cluster section pull-down is the topic menu. If Kafka is running on the LHM (V2.0-M8.2) then the list of topics should be displayed in the window. In this case the **test** topic is shown.



Once KafkaEsque can display the Kafka topics on the LHM, the connection is complete and you can use KafkaEsque as described in class or in the videos.

Removing KafkaEsque

KafkaEsque can be removed from your system by right clicking the icon in Applications folder and selecting "**Move to Trash**"