# DevOps Engineer Home Assigment – Problems and solutions

* Twitter API
  + The documentation for using Filtered-Streams isn’t good enough. It took me a lot of time to find how to make a query to get all hashtags in tweet.
  + The API is limited, I get “Rate limit exceeded” every time.
  + First time that I’m working with data streams, so when I tried working with it like a regular GET request it didn’t work (not even on Postman).
* Fetcher
  + I wrote it in Java, maybe Python could be a easier choice for these because working with Maven isn’t easy as Pip, but I working on another project too with java (Spring Boot project) so it was easier.
  + Had a time-out issue, so needed to increase those settings.
  + All the api access tokens saved in the git **only** because its for learning purposes. In any other case ill use github secrets or save it localy as a file that also ignored in the .gitignore file.
  + Decided to not write the functions that delete the defined api rules because it doesn’t look important for this purpose
* Docker
  + My laptop (M1 Mac) is a ARM64-based so some Docker-Images need to be pulled with specific tag.
  + Added restart-always to producer to start again after crashes.
  + Splited the dockerfile so the build is on a different image to minimize final image size
* Kafka
  + First time using kafka, so I read some tutorials. The confluent one for the configuration was good.
  + Used only one zookeerper, its not redundant but for this purpose its ok.