P4 - CDN & docker for encoding







- Today you're going to run virtual containers to understand better all the theory lessons.
 Work with your bestie hand-to-hand.
- If you create code snippets, you can use ANY programming language
- Deliver the report in aula global.

Let's go!



You can use the internet to search for resources and understand the use of the software



1.-) Download Docker for command line or for Desktop and install it.

The first you are going to create a container which contains the software FFmpeg and you are going to be able to run that container passing FFmpeg commands



2.-) Now that you have your container ready, download any video you like from the internet (if lack of ideas, try BBB). Cut it to 1 minute and try to package it like this:



a)

- MP4 container with HLS
- Video .h264 AVC, audio AAC

b)

- MKV container with MPEG-DASH
- Video VP9, audio AAC



3.-) Now that you know how to 'Docker', search for the Bento4 software. Put it inside a Docker, and try to apply a DRM for the Previous packaged file.

Some remarks:

- If you're able to create an encoding ladder, that would be great!
- Maybe you need to go to the mp4 file and package again before applying DRM (mp4encrypt)



4.-) Now that you understand video streaming, let's do something:

- Connect to your favourite VOD platform
- Use the developer tools from your browser
- Investigate about what technology you're using:
 - · HLS/DASH?
 - · Codec?
 - DRM?

Do a small report about it



5.-) Now that you're a master using Docker, try to follow-up this tutorial, take screenshots and make your comments:

https://github.com/leandromoreira/cdn-up-and-ru nning.git

Some remarks:



The way it works it's changing git versions (git checkout); this means when you move forward/back it will change files; if you get lost, try to repeat quick the git commands

Thanks