

# jupyter\_docker\_install

## Install Docker + Jupyter Lab

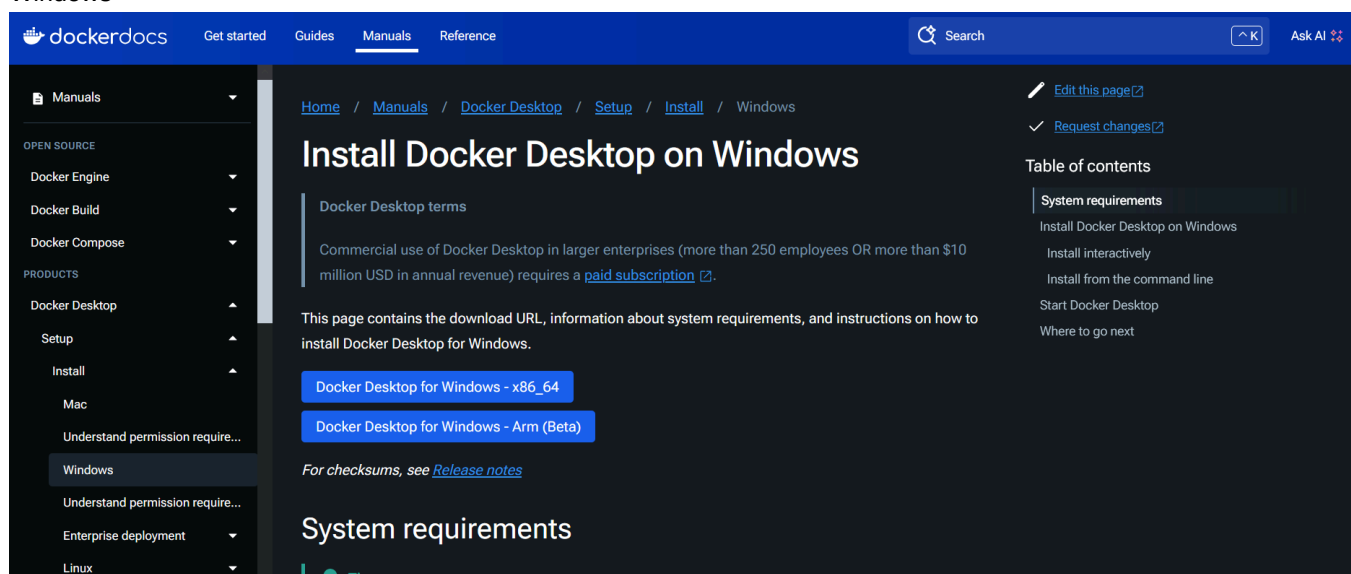
### Updates:

- new image `borsattifr/ml_notebook` and not `jupyter/datascience-notebook`.
- you don't need to clone the repository if you use the new image.
- ⚠️ Note that if you modify the notebooks that we use during the lectures, you will lose the changes when you close docker. Please download the notebooks and upload them again if you want to save the changes. (right click on the notebook in the jupyter-lab file explorer and download it)

Search on the web for: "install docker desktop" + "windows" or "mac os" depending on the computer you have.

- For Mac:
  - Link: <https://docs.docker.com/desktop/setup/install/mac-install/>
  - If you have an Apple Silicon CPU, download the version with Apple Silicon in the link, otherwise download the Intel version (blue button).
- For Windows:
  - Link: <https://docs.docker.com/desktop/setup/install/windows-install/>
  - If you have an Intel/AMD CPU, download x86\_64, otherwise, if you have ARM, download ARM (blue button).

### Windows



The screenshot shows the Docker Docs website for the 'Install Docker Desktop on Windows' page. The page has a dark blue header with the Docker logo and navigation links: 'Get started', 'Guides', 'Manuals', and 'Reference'. A search bar is on the right. The main content area is dark grey and features a breadcrumb trail: 'Home / Manuals / Docker Desktop / Setup / Install / Windows'. The title 'Install Docker Desktop on Windows' is prominently displayed. Below the title, there is a section for 'Docker Desktop terms' and a paragraph about commercial use. Two blue buttons are visible: 'Docker Desktop for Windows - x86\_64' and 'Docker Desktop for Windows - Arm (Beta)'. A 'System requirements' section is also present. On the right side, there is a 'Table of contents' with links to 'System requirements', 'Install Docker Desktop on Windows', 'Install interactively', 'Install from the command line', 'Start Docker Desktop', and 'Where to go next'. A sidebar on the left contains a 'Manuals' menu with categories like 'OPEN SOURCE' and 'PRODUCTS'.

Mac OS:

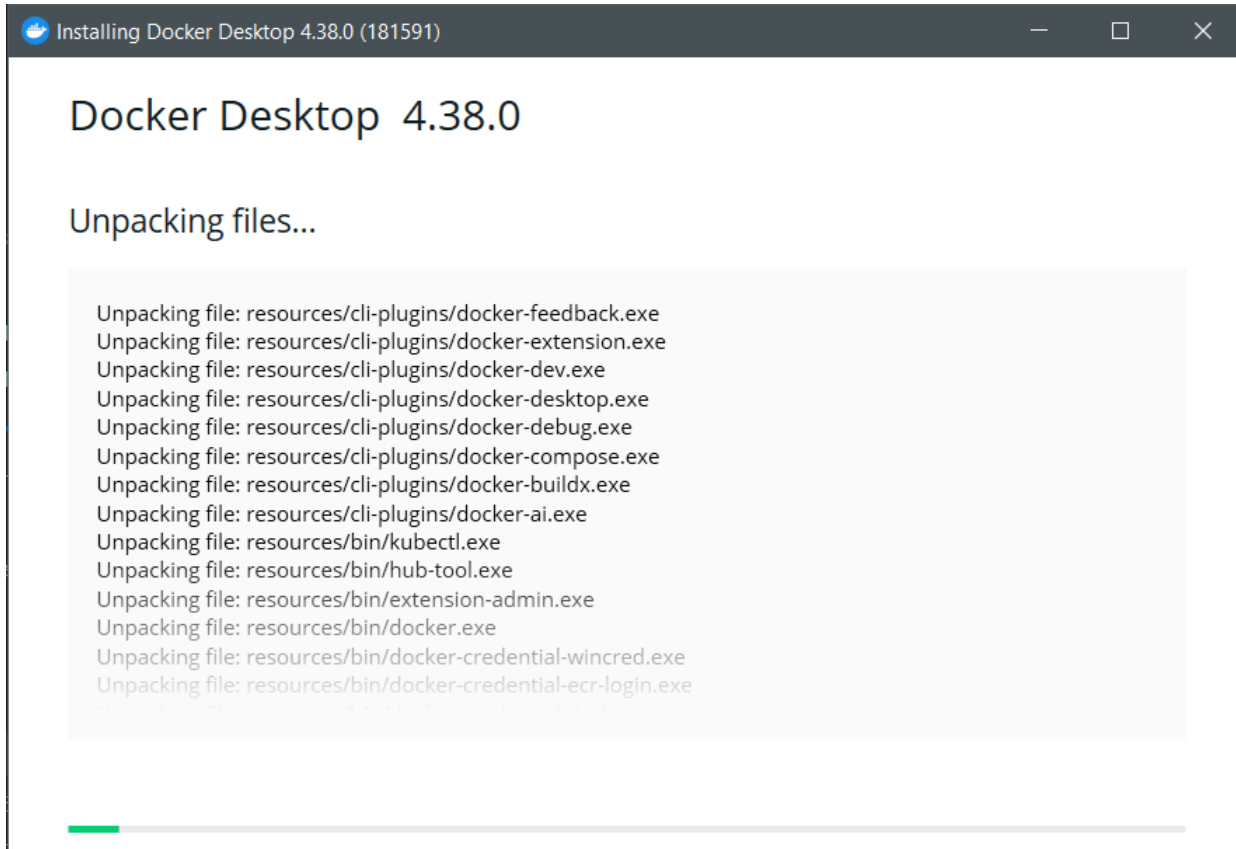
The screenshot shows the Docker Docs website with a dark theme. The top navigation bar includes 'dockerdocs', 'Get started', 'Guides', 'Manuals', and 'Reference'. A search bar is in the top right. The left sidebar has a 'Manuals' menu with sub-items for 'OPEN SOURCE' (Docker Engine, Docker Build, Docker Compose) and 'PRODUCTS' (Docker Desktop, Setup, Install, Mac, Understand permission require..., Windows, Understand permission require..., Enterprise deployment, Linux, Run Docker Desktop for Window...). The main content area is titled 'Install Docker Desktop on Mac' and includes a breadcrumb trail: 'Home / Manuals / Docker Desktop / Setup / Install / Mac'. Below the title is a 'Docker Desktop terms' section with a paragraph about commercial use. A paragraph below that states: 'This page contains download URLs, information about system requirements, and instructions on how to install Docker Desktop for Mac.' There are two blue buttons: 'Docker Desktop for Mac with Apple silicon' and 'Docker Desktop for Mac with Intel chip'. A warning section follows with a yellow triangle icon and the text: 'Warning: If you're experiencing malware detection issues, follow the steps documented in [docker/for-mac#7527](#).' The 'Mac' item in the sidebar is highlighted.

Run the installer (I'm doing it on Windows, for example)

The screenshot shows a Windows installer window titled 'Installing Docker Desktop 4.38.0 (181591)'. The window has a title bar with standard Windows window controls. The main content area is titled 'Configuration' and contains two checked checkboxes: 'Use WSL 2 instead of Hyper-V (recommended)' and 'Add shortcut to desktop'. At the bottom right of the window is an 'OK' button.

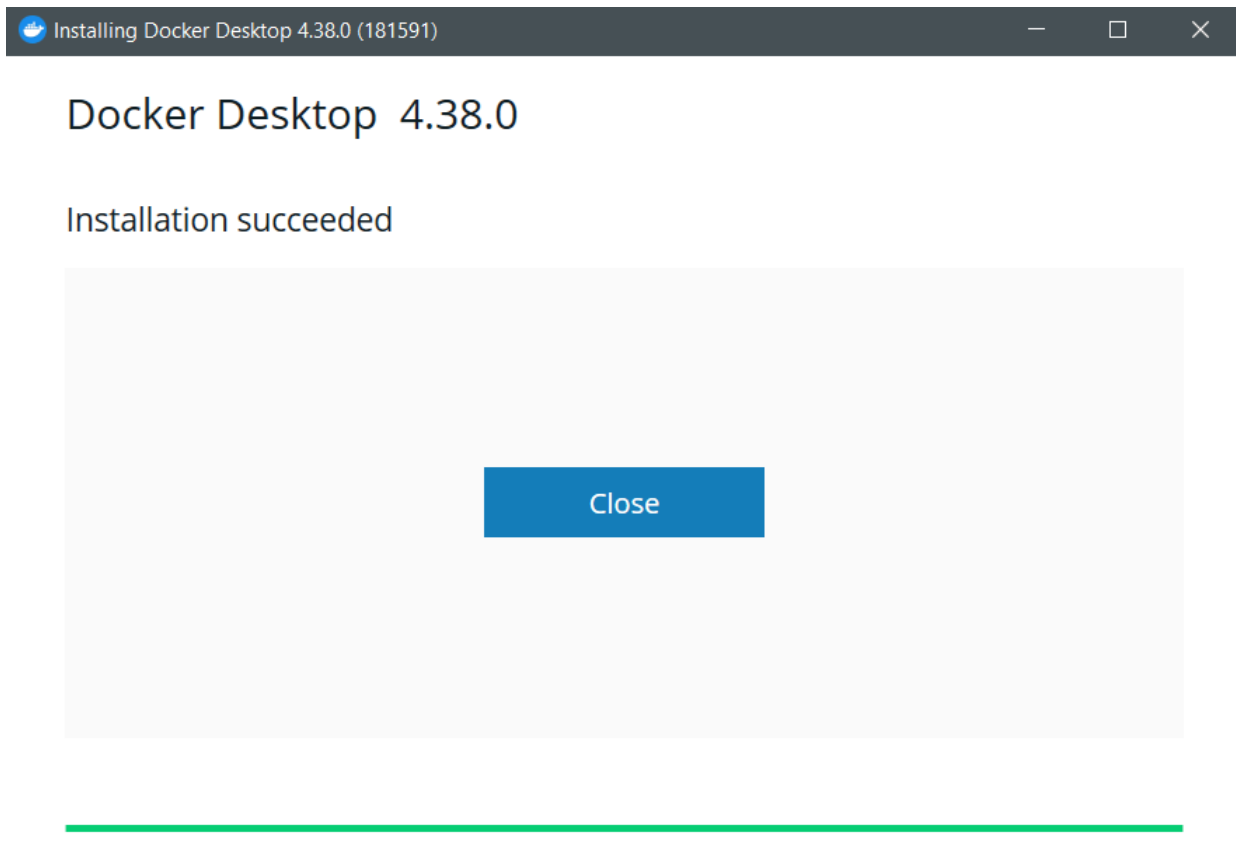
→ Click on "Ok"

You should see something like this:

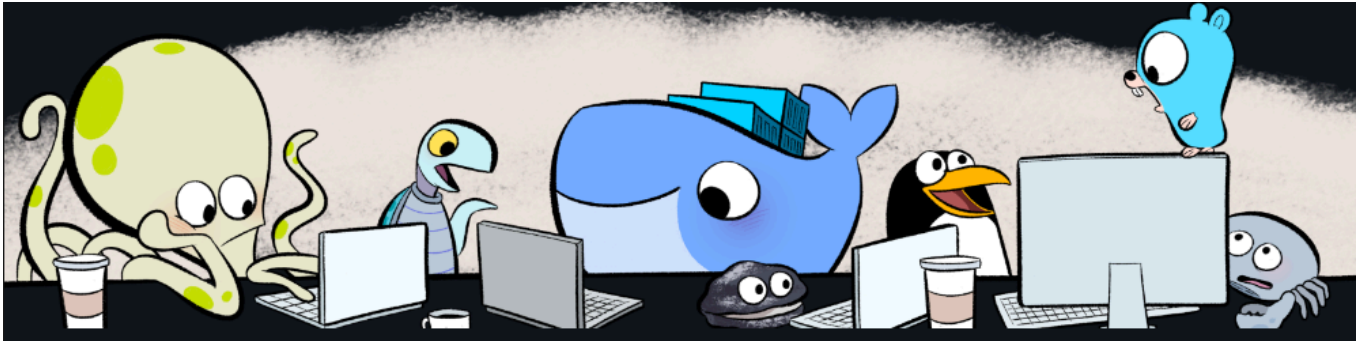


On my PC, it took a couple of minutes, it also depends on your internet connection speed.

We can close the installer.



Accept the terms.



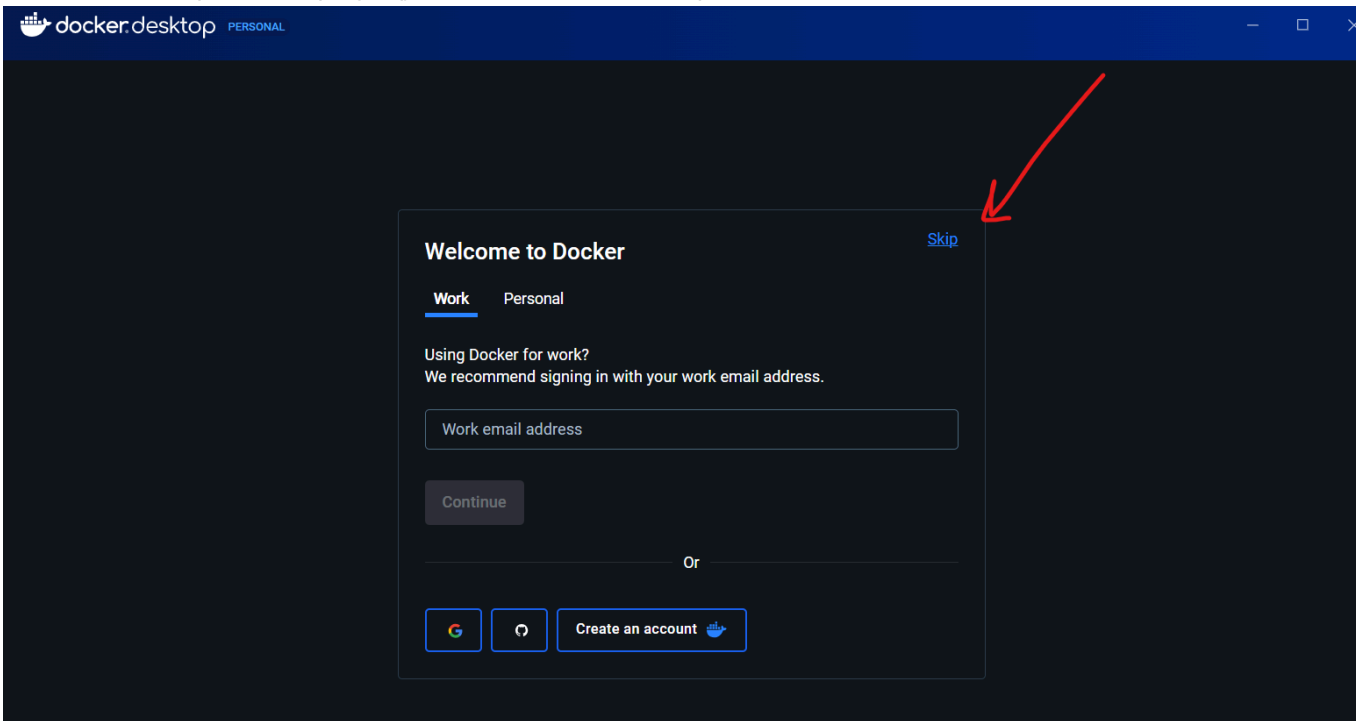
## Docker Subscription Service Agreement

By selecting **accept**, you agree to the [Subscription Service Agreement](#), the [Docker Data Processing Agreement](#), and the [Data Privacy Policy](#).

Commercial use of Docker Desktop at a company of more than 250 employees OR more than \$10 million in annual revenue requires a paid subscription (Pro, Team, or Business). [See subscription details](#)

[View Full Terms](#) [Accept](#) [Close](#)

You can click "skip" at the top right (you don't need an account).



docker.desktop PERSONAL

### Welcome to Docker

[Skip](#)




**Work** Personal

Using Docker for work?  
We recommend signing in with your work email address.

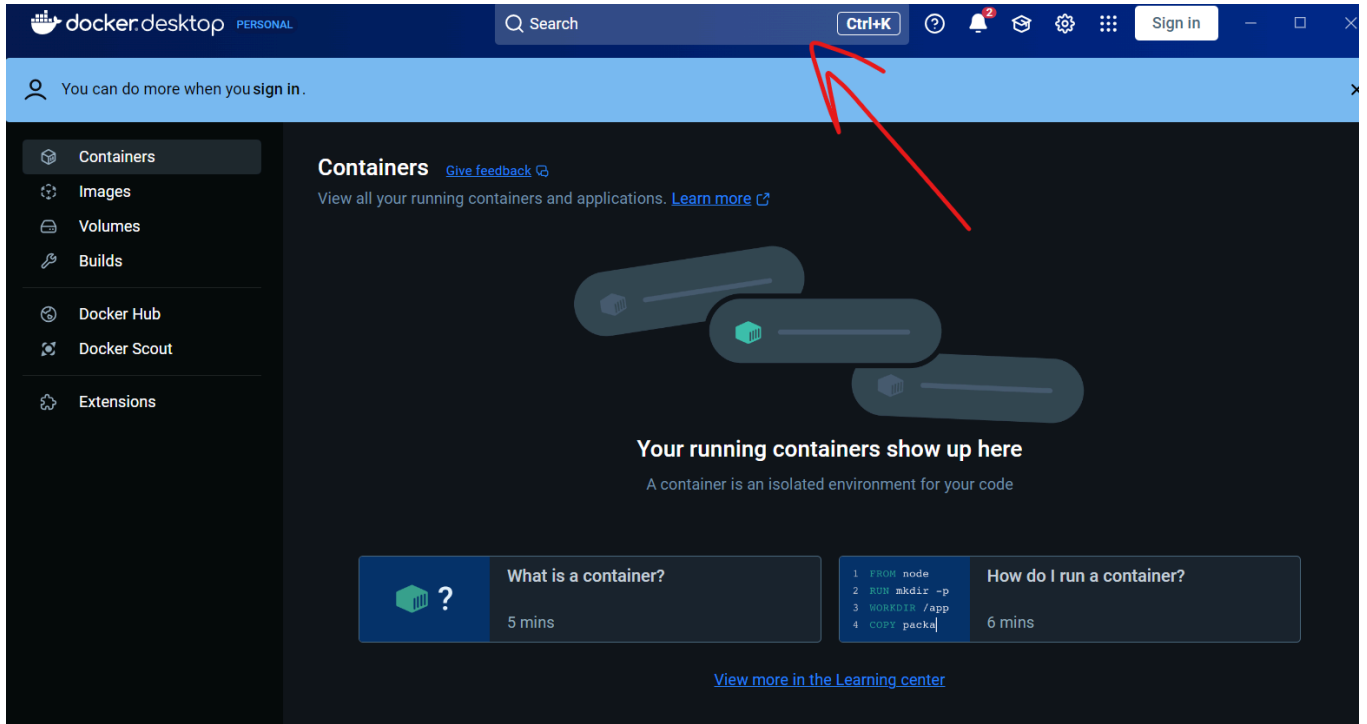
Work email address

Continue

Or

  [Create an account](#) 

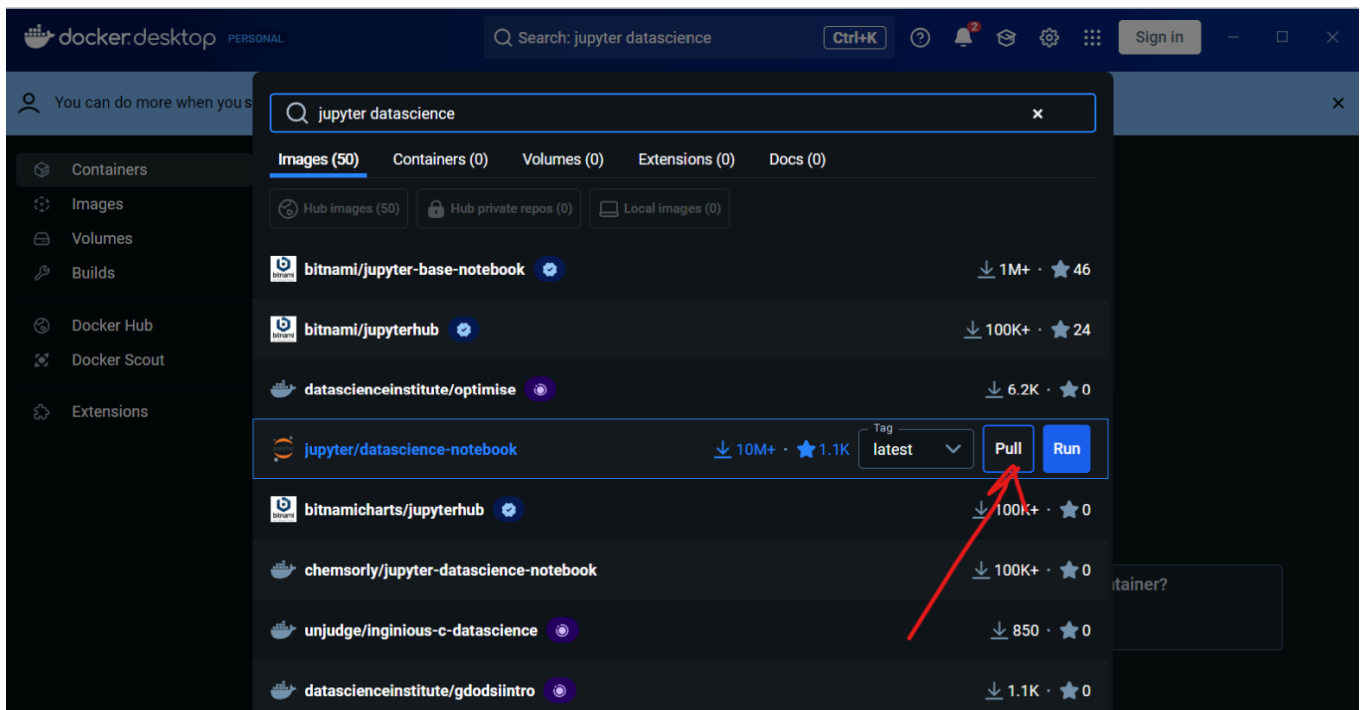
Click on the search bar and search for "borsattifr/ml\_notebook".



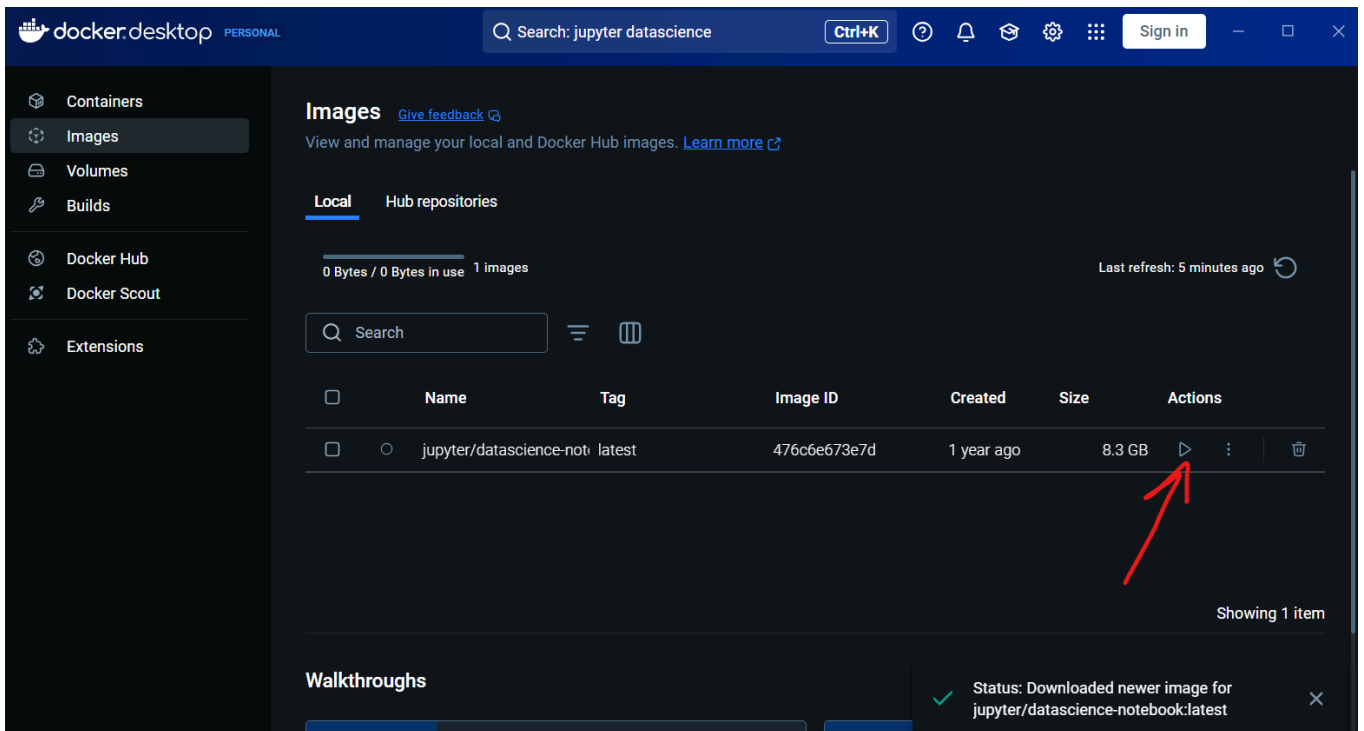
Click "pull" on the correct image, the one with the Jupyter icon called "borsattifr/ml\_notebook".

⚠️ Note that the latest image is `borsattifr/ml_notebook` and not `juptyer/datascience-notebook` as shown in the image below.

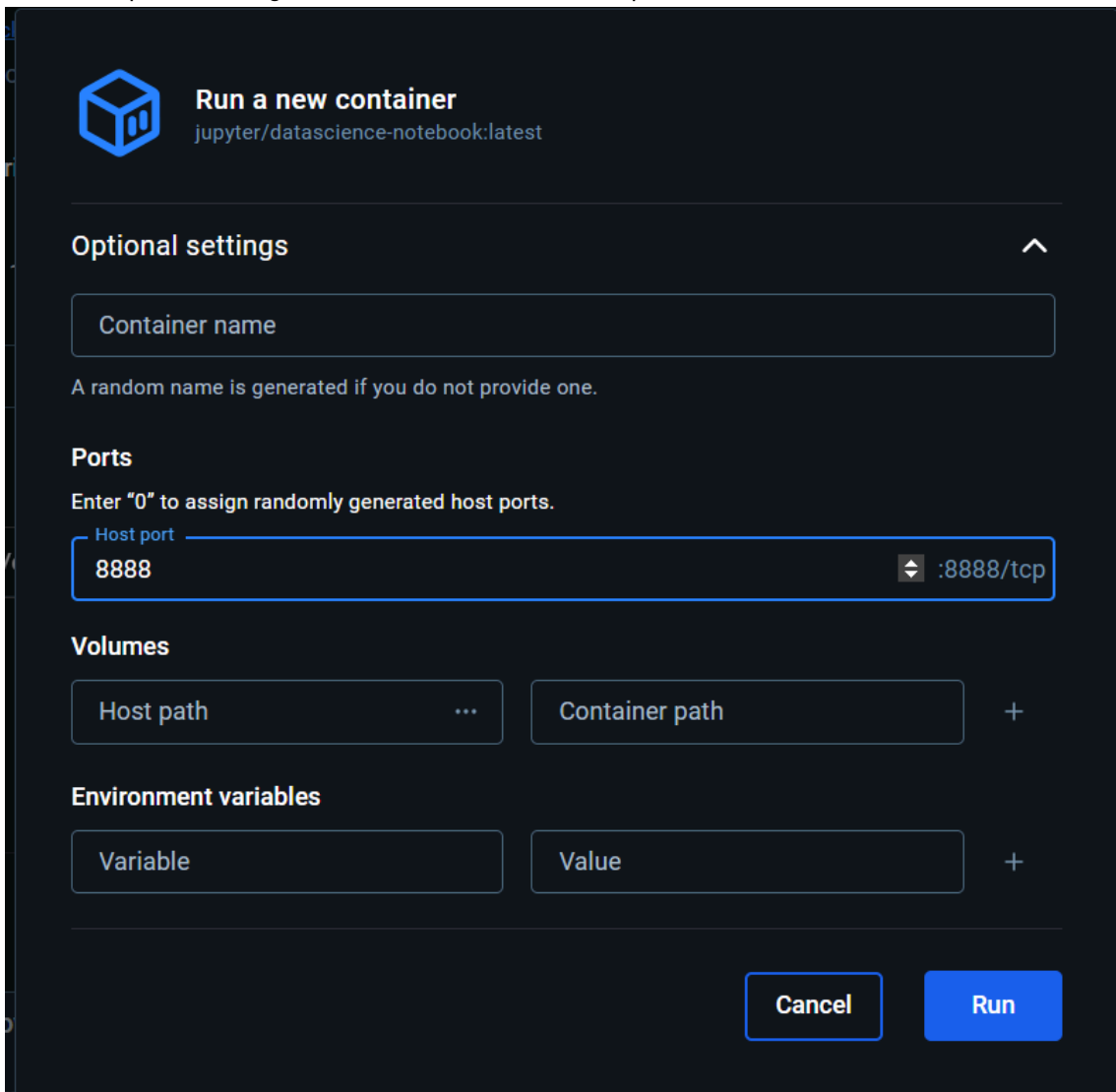
⚠️ You should select the `borsattifr/ml_notebook` image.



After a few minutes (again, depending on your internet connection speed), you should see the image among the available ones, so click on Run (▶ icon).

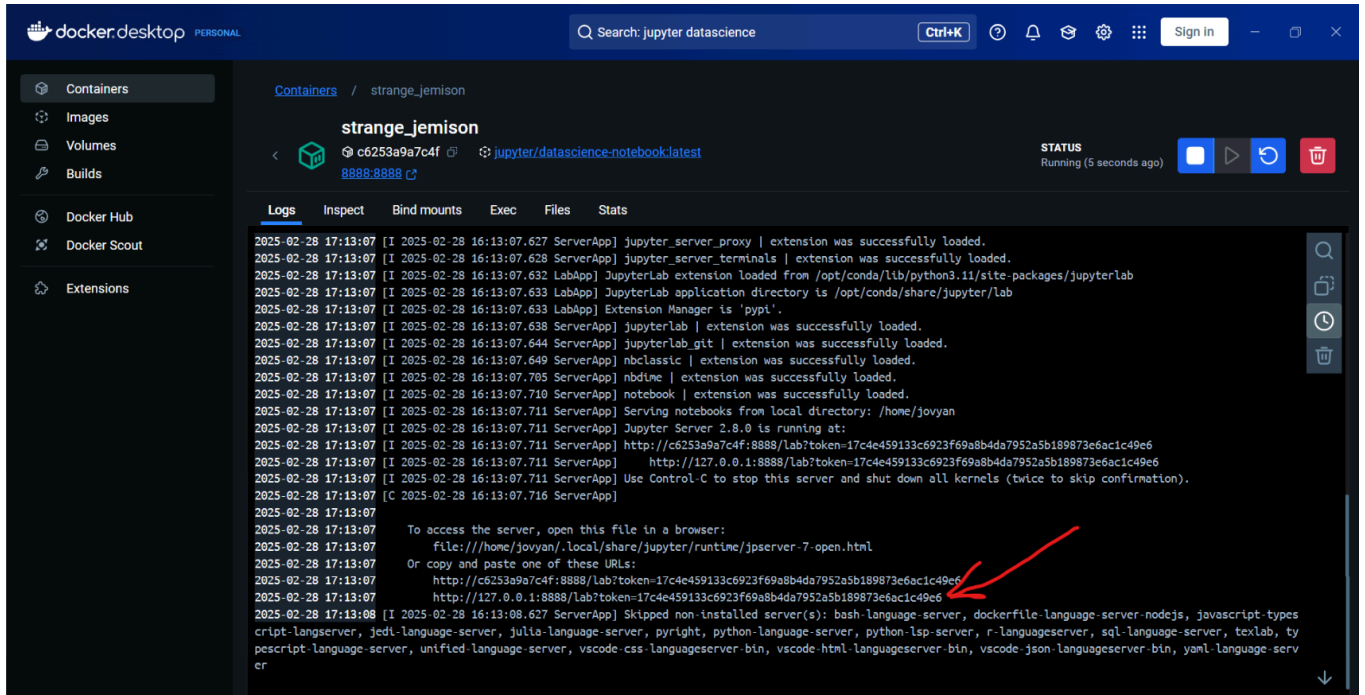


Click on "Optional settings" and write "8888" in the "Host port" field.

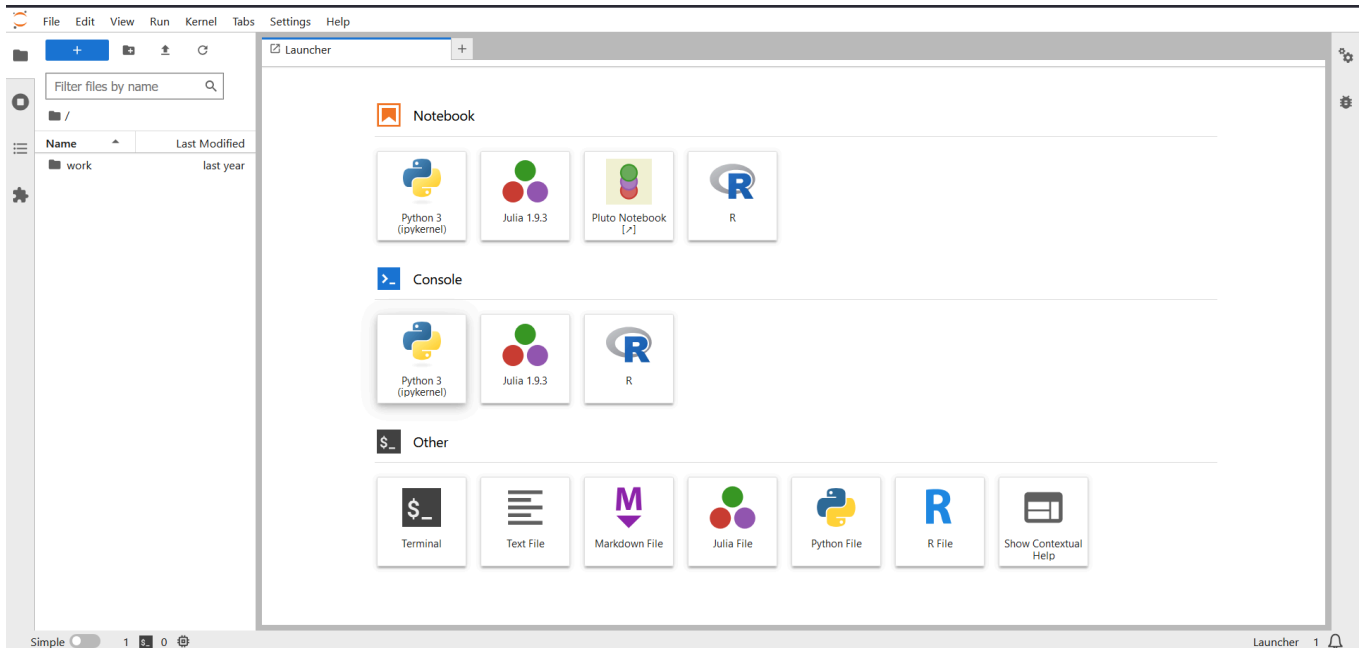


Then click on the "Run" button.

You will see output similar to this, click on the last link.



Jupyter Lab will open, just like we saw in class.



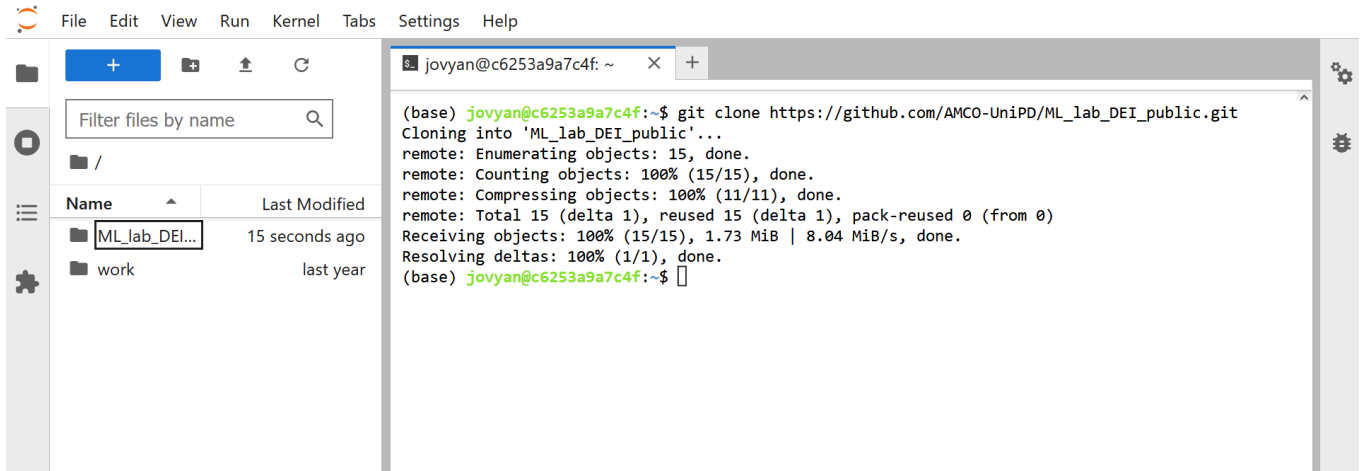
⚠ If you downloaded the latest image, `borsattifr/ml_notebook`, you will not need to clone the repository, as it is done automatically.

If you use another image, you can clone the repository by doing the following:

Click on the terminal icon, and you can git clone our repository with the command:

```
git clone https://github.com/AMCO-UniPD/ML_lab_DEI_public.git
```

And press enter, you will see an output similar to this one:



And in the file pane, you will see the folder "ML\_lab\_DEI\_public" (press the refresh button if you don't see it)

Double-click to open the folder, inside you will see the course notebooks, which you can always open by double-clicking.

