

Docker Desktop for Windows

22.07.2022

Overview

Be able to run the Journal of Digital History Jupyter Stack image, which is a set of ready-to-run [Docker images](#) containing specific versions of Jupyter notebook along with the extensions needed to write and publish articles for the [Journal of digital history](#).

Objectifs

1. Install Docker Desktop
2. Start the container Journal of Digital Jupyter Stack

Step

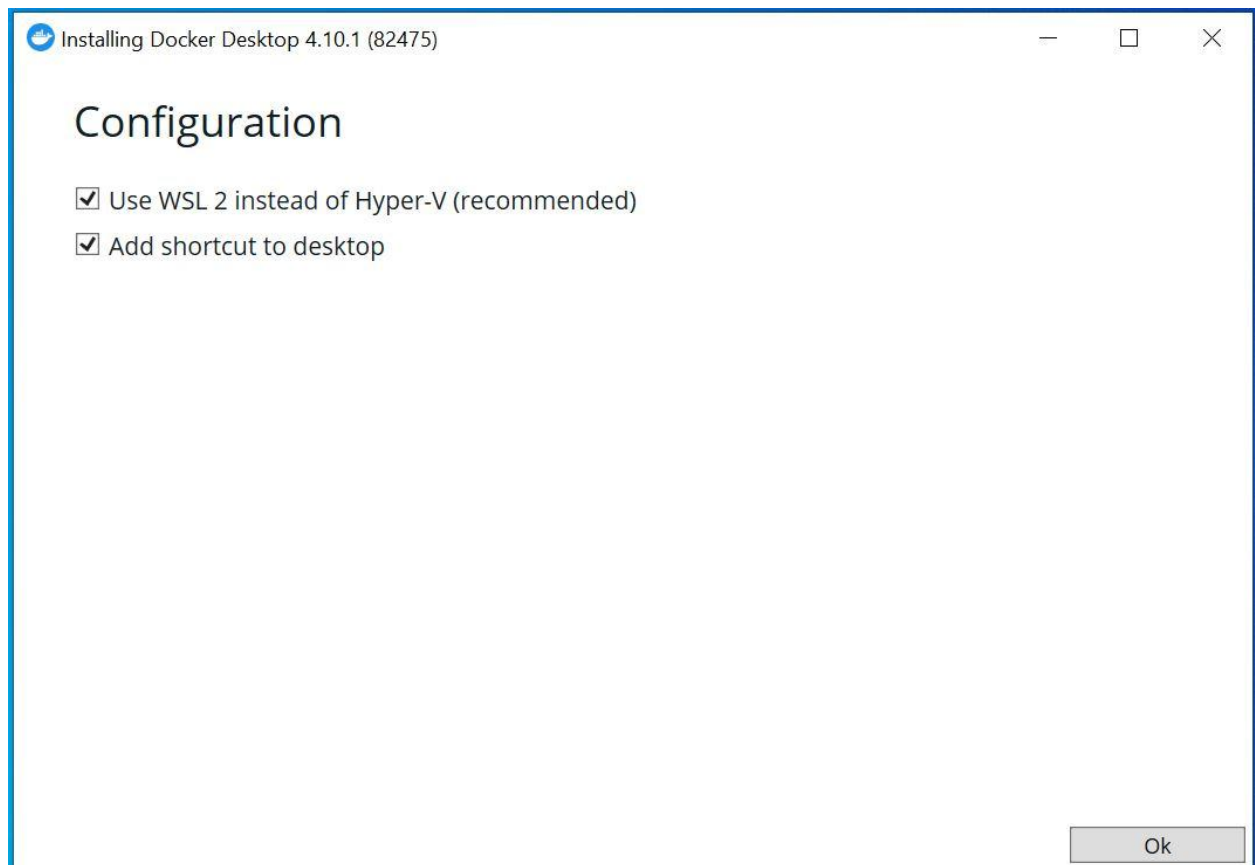
I. Check your system requirements

Your Windows machine must meet the following requirements to successfully install Docker Desktop, check [here](#).

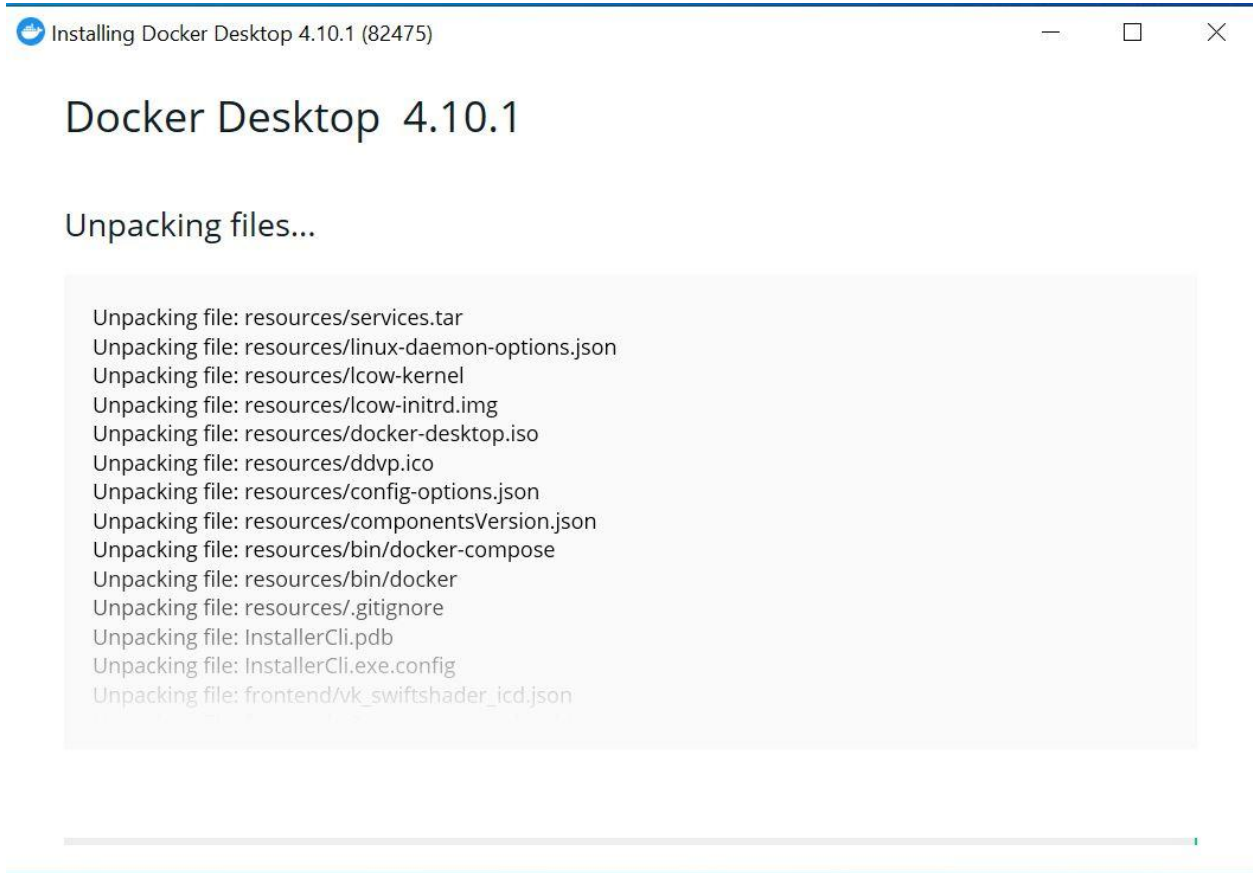
II. Download the exe file

<https://desktop.docker.com/win/main/amd64/Docker%20Desktop%20Installer.exe>

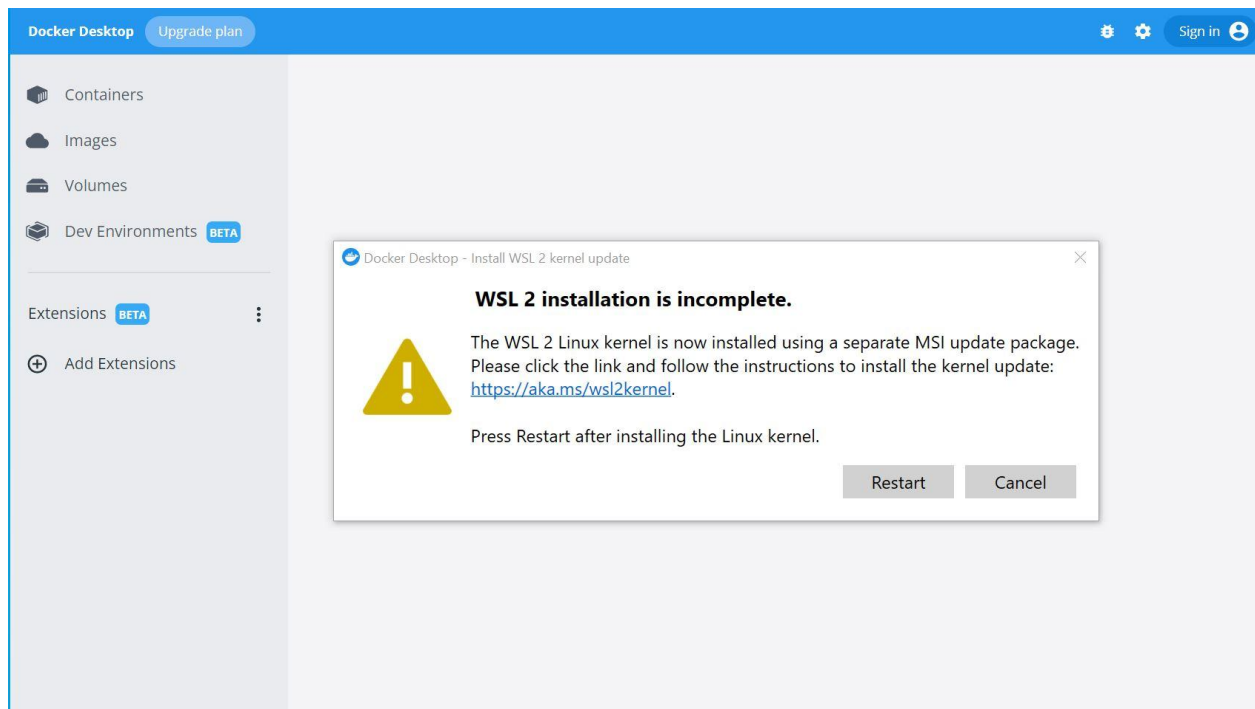
III. Launch the exe



Press on the Ok button



IV. Update the Linux kernel package



Click on the link : <https://aka.ms/wsl2kernel>

V. By default the package for x64 machines is provided

Step 4 - Download the Linux kernel update package

- Download the latest package:
 - [WSL2 Linux kernel update package for x64 machines](#)

Note

If you're using an ARM64 machine, please download the [ARM64 package](#) instead. If you're not sure what kind of machine you have, open Command Prompt or PowerShell and enter: `systeminfo | find "System Type"`. **Caveat:** On non-English Windows versions, you might have to modify the search text, translating the "System Type" string. You may also need to escape the quotations for the find command. For example, in German `systeminfo | find '"Systemtyp"'`.

- Run the update package downloaded in the previous step. (Double-click to run - you will be prompted for elevated permissions, select 'yes' to approve)

VI. Check your system

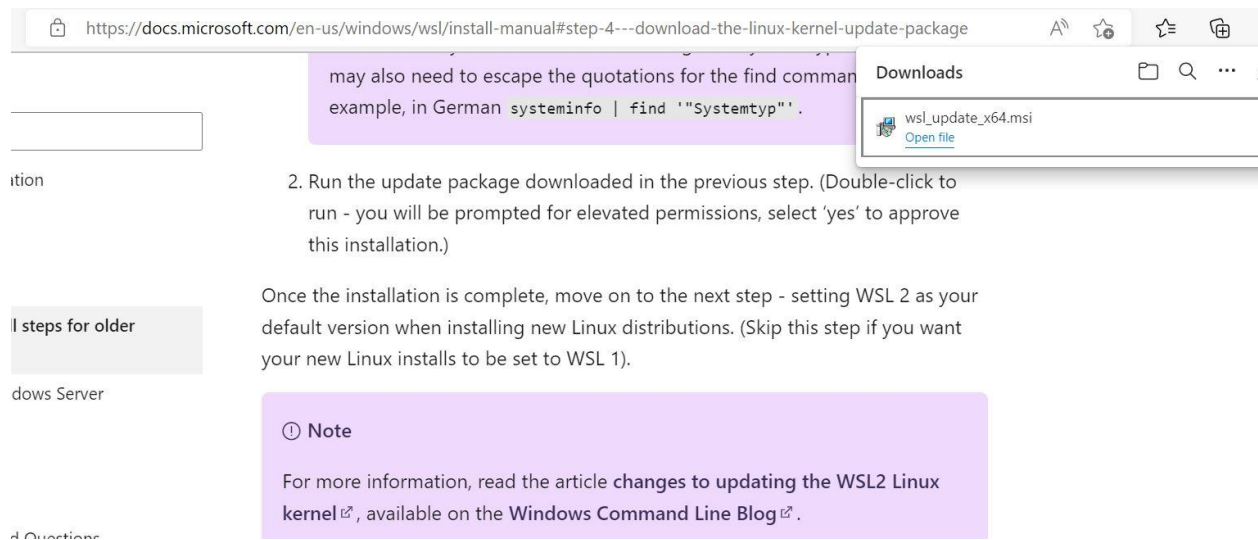
Command Prompt

```
Microsoft Windows [Version 10.0.19044.1586]
(c) Microsoft Corporation. All rights reserved.

C:\Users\elisabeth.guerard>systeminfo | find "System Type"
System Type:                x64-based PC

C:\Users\elisabeth.guerard>
```

VII. Download the appropriate version



https://docs.microsoft.com/en-us/windows/wsl/install-manual#step-4---download-the-linux-kernel-update-package

may also need to escape the quotations for the find command. For example, in German `systeminfo | find "Systemtyp"`.

Downloads

wsl_update_x64.msi
Open file

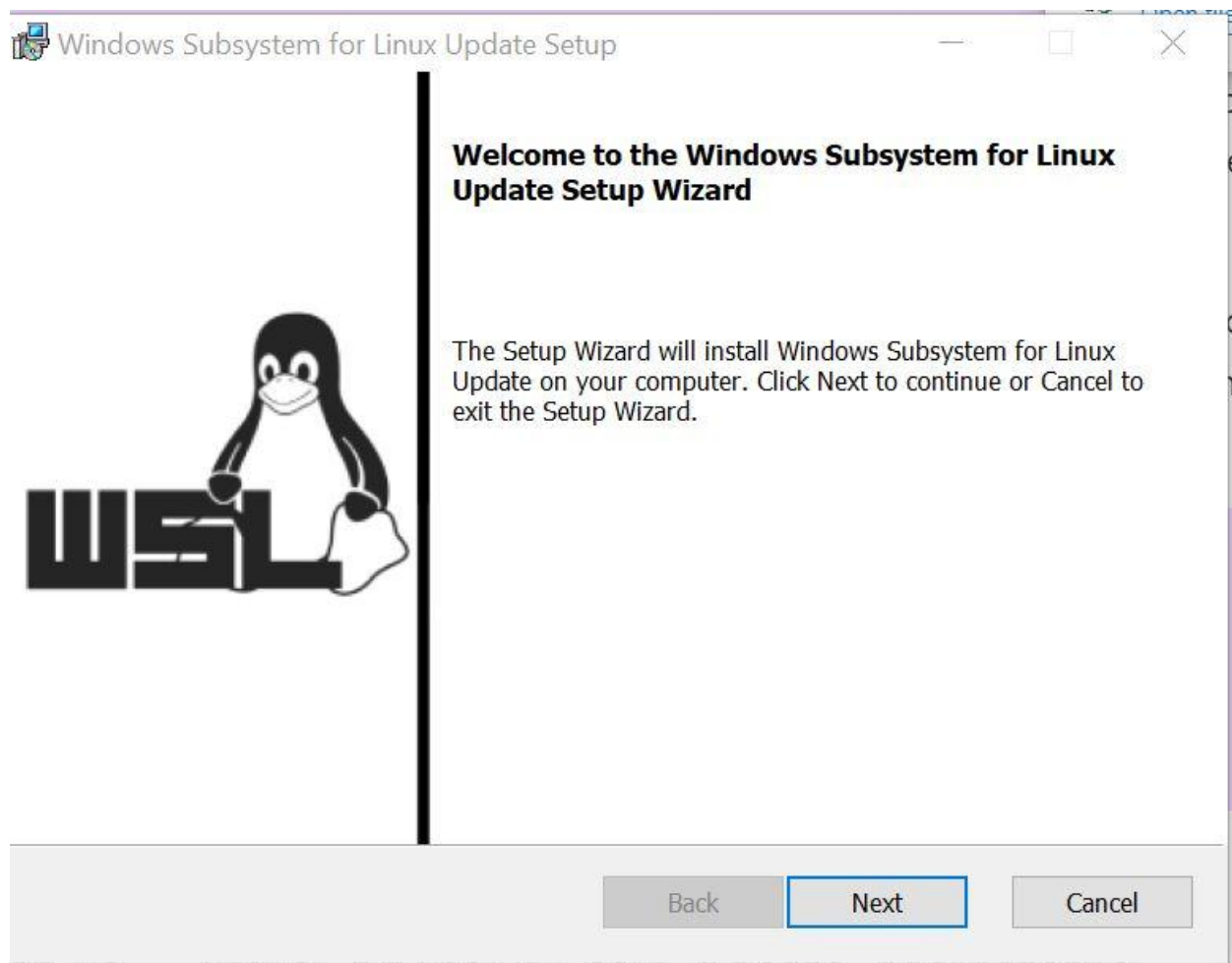
2. Run the update package downloaded in the previous step. (Double-click to run - you will be prompted for elevated permissions, select 'yes' to approve this installation.)

Once the installation is complete, move on to the next step - setting WSL 2 as your default version when installing new Linux distributions. (Skip this step if you want your new Linux installs to be set to WSL 1).

Note

For more information, read the article [changes to updating the WSL2 Linux kernel](#), available on the [Windows Command Line Blog](#).

VIII. Launch the exe



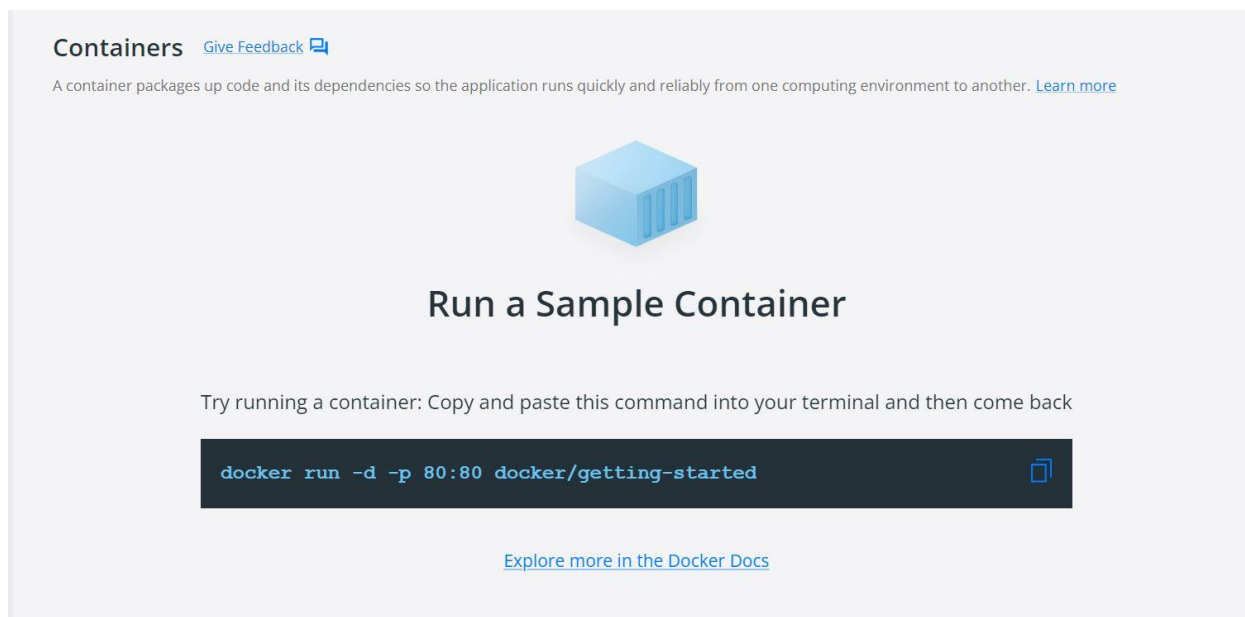
Press on the Next button

IX. Press restart after installing the Linux kernel

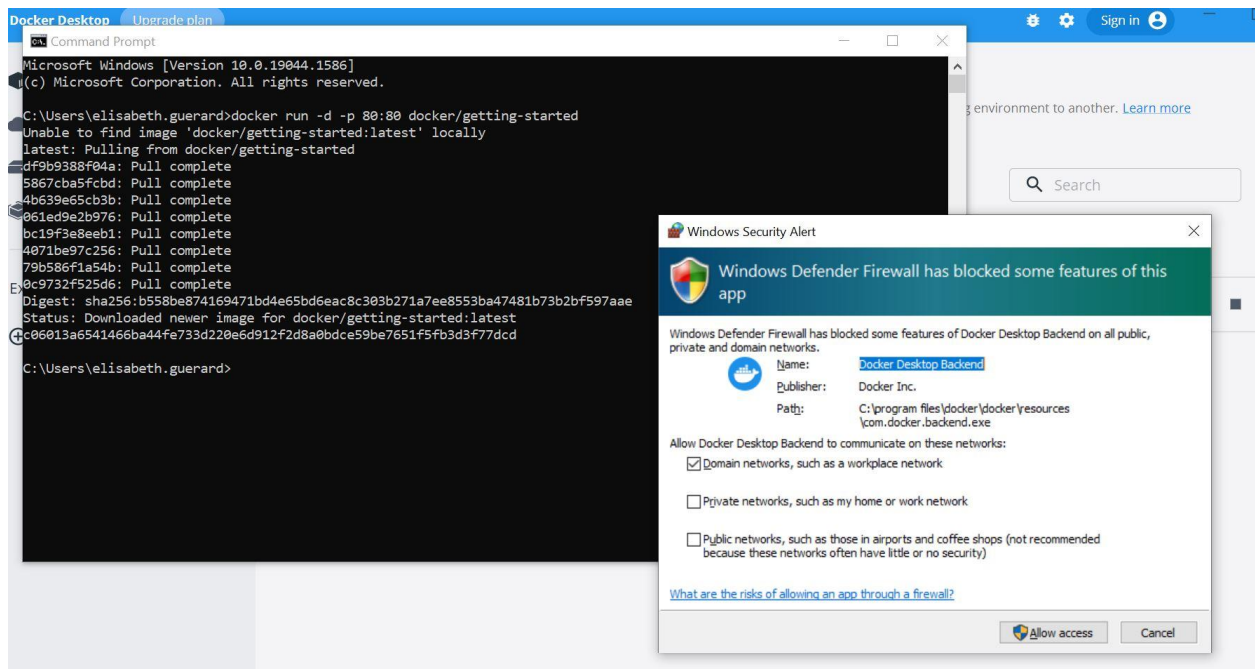


rsion

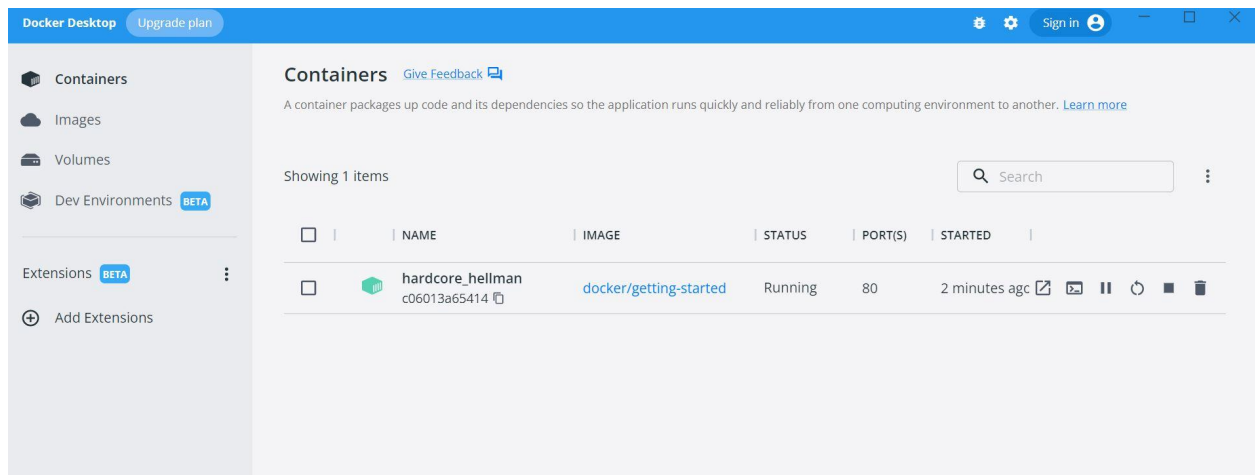
X. Run a sample container to test your configuration



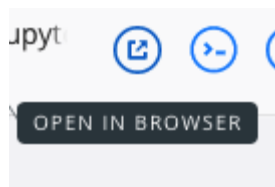
Open the terminal, execute the command above and accept the security alert



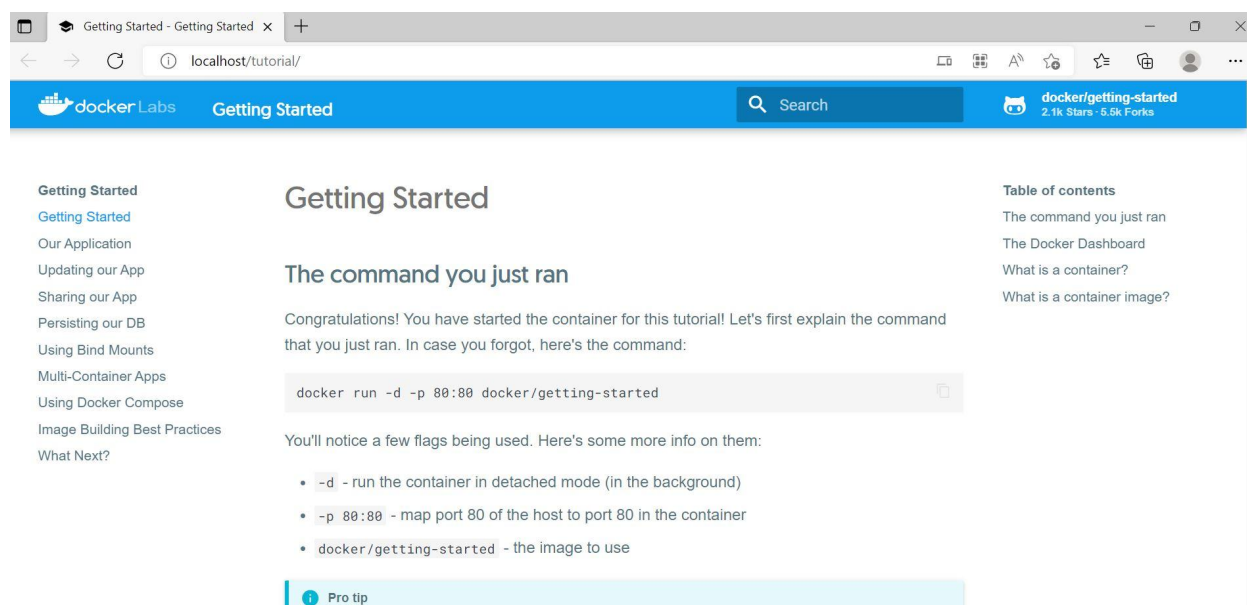
XI. Look at the status of the container in the Containers view of the Docker Desktop



Click on the icon:



The localhost/tutorial is open in the browser

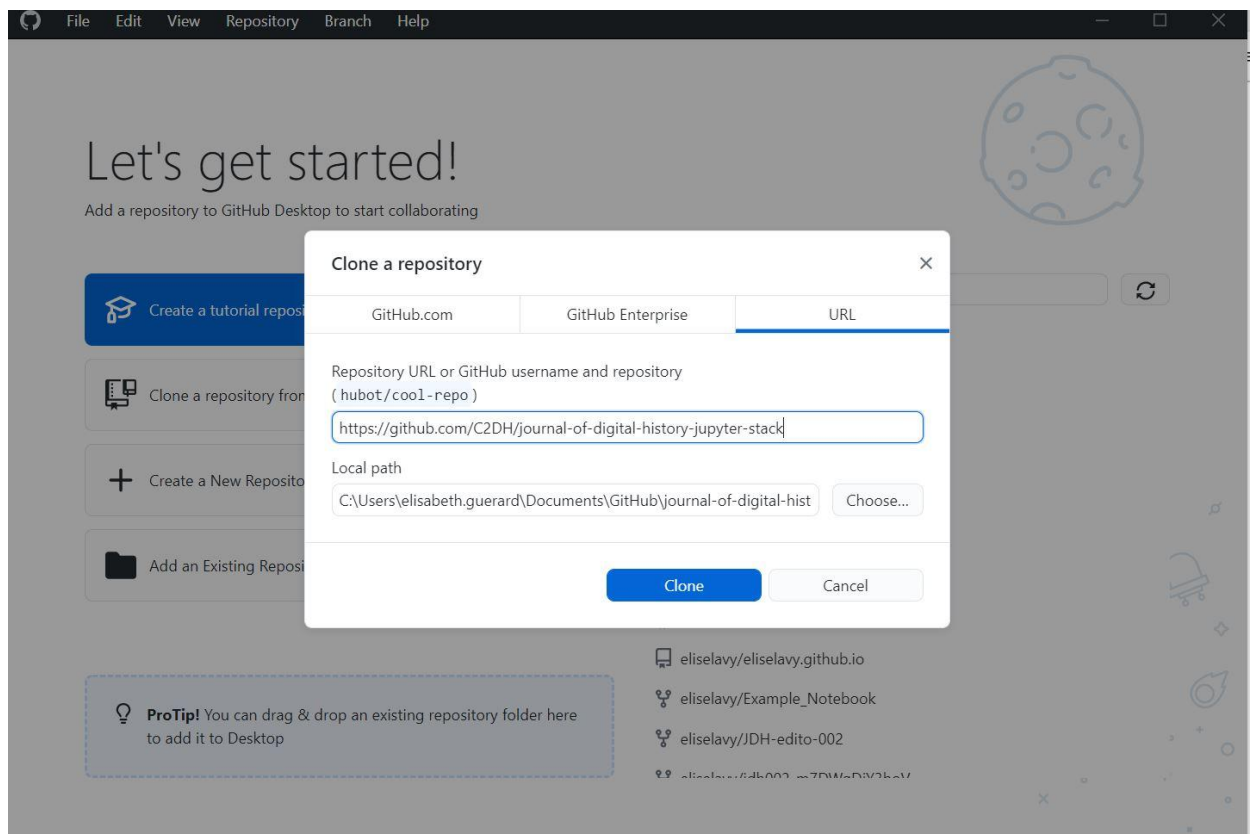


XII. Clone the repository containing the docker-compose

Download Github desktop if you don't have git installed.



Clone the repository <https://github.com/C2DH/journal-of-digital-history-jupyter-stack>



XIII. Run the command inside the appropriate directory

```

Command Prompt
Microsoft Windows [Version 10.0.19044.1586]
(c) Microsoft Corporation. All rights reserved.

C:\Users\elisabeth.guerard>cd Documents
C:\Users\elisabeth.guerard\Documents>cd Github
C:\Users\elisabeth.guerard\Documents\Github>dir
Volume in drive C is OSDisk
Volume Serial Number is A0DD-6520

Directory of C:\Users\elisabeth.guerard\Documents\Github

07/22/2022  01:57 PM    <DIR>          .
07/22/2022  01:57 PM    <DIR>          ..
07/22/2022  01:58 PM    <DIR>          journal-of-digital-history-jupyter-stack
               0 File(s)                0 bytes
               3 Dir(s)  355,050,586,112 bytes free

C:\Users\elisabeth.guerard\Documents\Github>cd journal-of-digital-history-jupyter-stack
C:\Users\elisabeth.guerard\Documents\Github\journal-of-digital-history-jupyter-stack>docker-compose up

```

```

Command Prompt - docker-compose up
07/22/2022  01:57 PM    <DIR>          .
07/22/2022  01:57 PM    <DIR>          ..
07/22/2022  01:58 PM    <DIR>          journal-of-digital-history-jupyter-stack
               0 File(s)                0 bytes
               3 Dir(s)  355,050,586,112 bytes free

C:\Users\elisabeth.guerard\Documents\Github>cd journal-of-digital-history-jupyter-stack
C:\Users\elisabeth.guerard\Documents\Github\journal-of-digital-history-jupyter-stack>docker-compose up
[+] Running 2/19
 - jupyter Pulling                                     37.1s
   - d836772a1c1f Pull complete                         33.2s
   - 66a9e63c657a Pull complete                         33.5s
   - d1989b6e74cf Extracting [=====] 10.88MB/...     34.0s
   - c28818711e1e Download complete                     34.0s
   - 5084fa7ebd74 Downloading [=====] 122.5MB...     34.0s
   - 7f162c881e4f Download complete                     34.0s
   - fa5c3534431d Download complete                     34.0s
   - 30596f5e8e78 Download complete                     34.0s
   - 4861fe1f6551 Download complete                     34.0s
   - bfc6c02e976 Download complete                     34.0s
   - 4f5e50dcf1c1 Downloading [=====] 12.34MB...     34.0s
   - e9ddc54d42d0 Downloading [=====] 6.423MB...     34.0s
   - 92c4aac53172 Waiting                               34.0s
   - 174eb02d1621 Pulling fs layer                      34.0s
   - b9670fa772b7 Waiting                               34.0s
   - 2cd548fe46fe Waiting                               34.0s
   - 2d5ae261107f Waiting                               34.0s
   - d82bf08a2bf7 Waiting                               34.0s

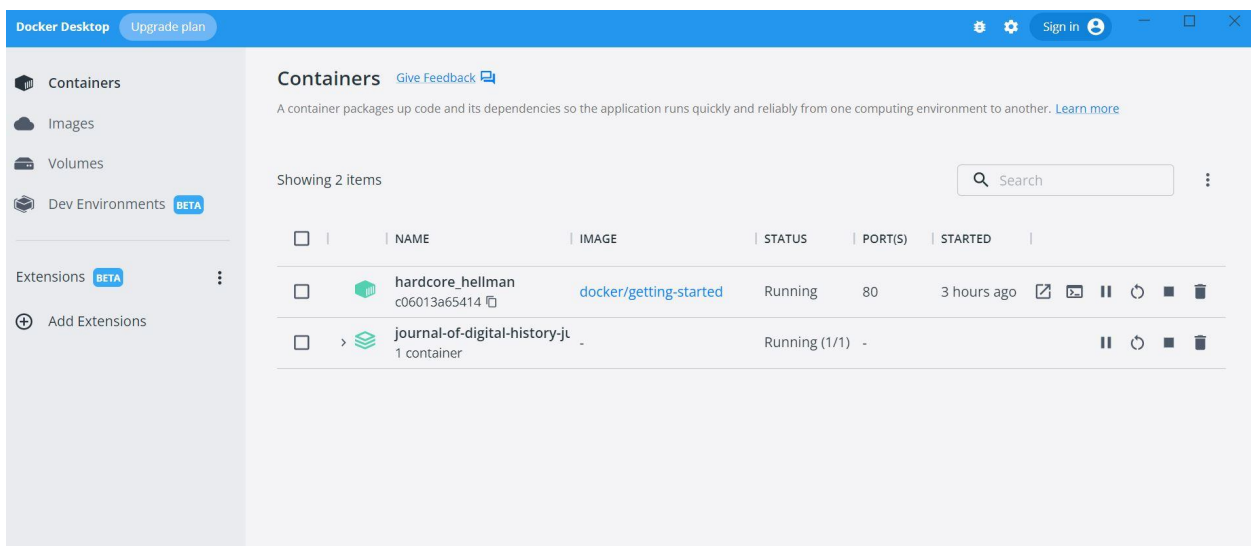
```

XIV. Open in browser


```

Command Prompt - docker-compose up
- d82bf08a2bf7 Pull complete
[+] Running 2/2
- Network journal-of-digital-history-jupyter-stack_default Created 0.8s
- Container journal-of-digital-history-jupyter-stack-jupyter-1 Created 8.3s
Attaching to journal-of-digital-history-jupyter-stack-jupyter-1
journal-of-digital-history-jupyter-stack-jupyter-1 | [I 12:01:36.013 NotebookApp] Writing notebook server cookie secret
journal-of-digital-history-jupyter-stack-jupyter-1 | to /root/.local/share/jupyter/runtime/notebook_cookie_secret
journal-of-digital-history-jupyter-stack-jupyter-1 | [W 12:01:36.213 NotebookApp] Could not find Zotero citation styles
journal-of-digital-history-jupyter-stack-jupyter-1 | directory.
journal-of-digital-history-jupyter-stack-jupyter-1 | [I 12:01:36.229 NotebookApp] [jupyter_nbextensions_configurator] e
journal-of-digital-history-jupyter-stack-jupyter-1 | nabled 0.4.1
journal-of-digital-history-jupyter-stack-jupyter-1 | [I 12:01:36.230 NotebookApp] Serving notebooks from local director
journal-of-digital-history-jupyter-stack-jupyter-1 | y: /work
journal-of-digital-history-jupyter-stack-jupyter-1 | [I 12:01:36.230 NotebookApp] Jupyter Notebook 6.2.0 is running at:
journal-of-digital-history-jupyter-stack-jupyter-1 | [I 12:01:36.230 NotebookApp] http://6310919a3908:8888/?token=2dbad
journal-of-digital-history-jupyter-stack-jupyter-1 | 1938532f0db85c12482f42e5eb59b633b8dcdbd34a49
journal-of-digital-history-jupyter-stack-jupyter-1 | [I 12:01:36.230 NotebookApp] or http://127.0.0.1:8888/?token=2dba
journal-of-digital-history-jupyter-stack-jupyter-1 | d1938532f0db85c12482f42e5eb59b633b8dcdbd34a49
journal-of-digital-history-jupyter-stack-jupyter-1 | [I 12:01:36.230 NotebookApp] Use Control-C to stop this server and
journal-of-digital-history-jupyter-stack-jupyter-1 | shut down all kernels (twice to skip confirmation).
journal-of-digital-history-jupyter-stack-jupyter-1 | [C 12:01:36.234 NotebookApp]
journal-of-digital-history-jupyter-stack-jupyter-1 |
journal-of-digital-history-jupyter-stack-jupyter-1 | To access the notebook, open this file in a browser:
journal-of-digital-history-jupyter-stack-jupyter-1 | file:///root/.local/share/jupyter/runtime/nbserver-1-open.
journal-of-digital-history-jupyter-stack-jupyter-1 | html
journal-of-digital-history-jupyter-stack-jupyter-1 |
journal-of-digital-history-jupyter-stack-jupyter-1 | Or copy and paste one of these URLs:
journal-of-digital-history-jupyter-stack-jupyter-1 | http://6310919a3908:8888/?token=2dbad1938532f0db85c12482f4
journal-of-digital-history-jupyter-stack-jupyter-1 | 2e5eb59b633b8dcdbd34a49
journal-of-digital-history-jupyter-stack-jupyter-1 | or http://127.0.0.1:8888/?token=2dbad1938532f0db85c12482f42e5
journal-of-digital-history-jupyter-stack-jupyter-1 | eb59b633b8dcdbd34a49

```



<




journal-of-digital-history-jupyter-stack

C:\Users\elisabeth.guerard\Documents\Github\journal-of-digital-history-jupyter-stack






CONTAINERS

journal-of-digital-history-jupyter-stack



ry-jupyter-1

RUNNING

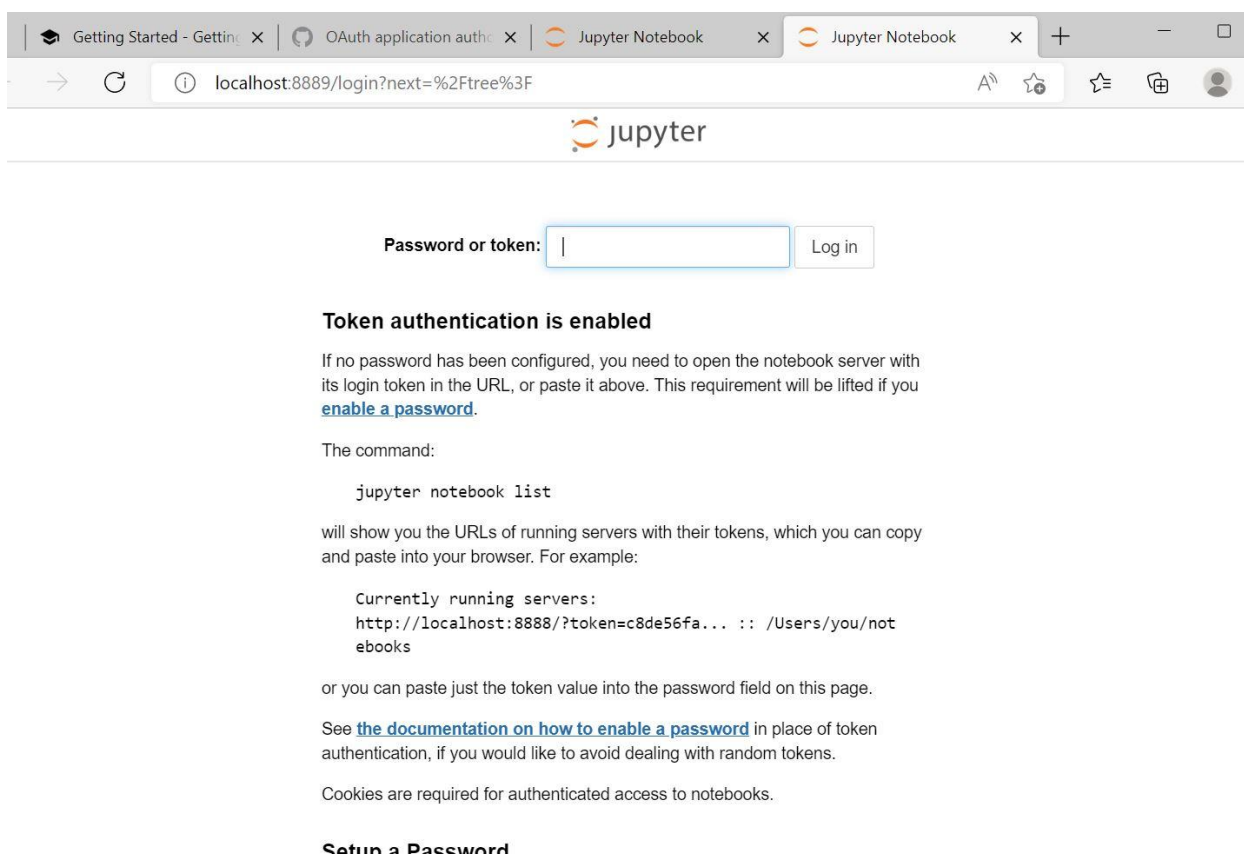






OPEN IN BROWSER

```

journal-of-digital-history-jupyter
server cookie secret to /root/
journal-of-digital-history-jupyter
otero citation styles directory
journal-of-digital-history-jupyter
sions_configurator] enabled 0.4
journal-of-digital-history-jupyter
s from local directory: /work
journal-of-digital-history-jupyter
6.2.0 is running at:
journal-of-digital-history-jupyter
465:8888/?token=b194599a2ca9a7d
journal-of-digital-history-jupyter
.0.1:8888/?token=b194599a2ca9a7
journal-of-digital-history-jupyter
stop this server and shut down
journal-of-digital-history-jupyter
journal-of-digital-history-jupyter
journal-of-digital-history-jupyter
a browser:
journal-of-digital-history-jupyter
time/nbserver-1-open.html
journal-of-digital-history-jupyter
journal-of-digital-history-jupyter
99a2ca9a7de2c5edf9450d45756f0d9

```

Getting Started - Getting... x OAuth application auth... x Jupyter Notebook x Jupyter Notebook x

localhost:8889/login?next=%2Ftree%3F

jupyter

Password or token: Log in

Token authentication is enabled

If no password has been configured, you need to open the notebook server with its login token in the URL, or paste it above. This requirement will be lifted if you [enable a password](#).

The command:

```
jupyter notebook list
```

will show you the URLs of running servers with their tokens, which you can copy and paste into your browser. For example:

```
Currently running servers:
http://localhost:8888/?token=c8de56fa... :: /Users/you/not
ebooks
```

or you can paste just the token value into the password field on this page.

See [the documentation on how to enable a password](#) in place of token authentication, if you would like to avoid dealing with random tokens.

Cookies are required for authenticated access to notebooks.

Set up a Password

We will find the token in the terminal

```
journal-of-digital-history-jupyter-stack-jupyter-1 | Or copy and paste one of these URLs:
journal-of-digital-history-jupyter-stack-jupyter-1 | http://6310919a3908:8888/?token=2dbad1938532f0db85c12482f4
2e5eb59b633b8dcdbd34a49
journal-of-digital-history-jupyter-stack-jupyter-1 | or http://127.0.0.1:8888/?token=2dbad1938532f0db85c12482f42e5
eb59b633b8dcdbd34a49
```