

# Data Curation

## Uploading your data to CSCS using Jupyter notebook

- Install python 3.7:

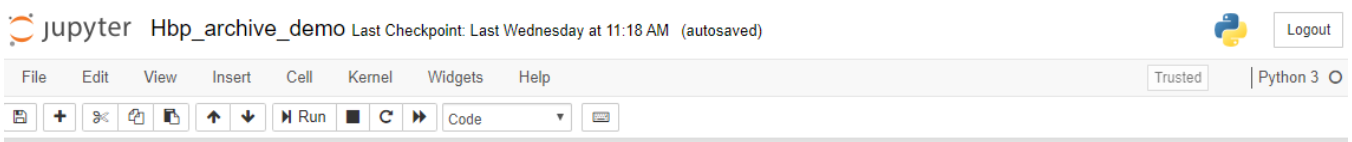
<https://www.anaconda.com/distribution/#download-section> (select your appropriate operating system). Install for “Just me” to avoid regulatory issues with your institutional computer. Click next/continue until you see the installing bar (I.e. Approve all recommendations)

- Starting a notebook:

Download HBP\_archive.ipynb to a folder. Find the anaconda prompt on your Windows/Mac system. (Windows users: Click your Windows button. Type ‘anaconda prompt’ (also called ‘anaconda powershell prompt’) to open your command window.) In the prompt type `pip install hbp_archive`. When this operation is done, navigate to the folder where you stored your downloaded notebook. To do this type `cd path`, e.g. `cd C:\apps` and press enter. Now the path should be changed if it exists. Then type `jupyter notebook` and the notebook should open.

(If it still doesn't open, try copy-pasting the path you receive in your prompt window onto a browser path)

- Running a notebook:



- **“Running” a notebook effectively means clicking the first “cell” and pressing shift+enter.** If an asterix (\*) appears on the side of the cell it means the operation is in progress, if a number (1) appears it means it is done with its operation. In the cells of the notebook there is **green** text (with # in the beginning of the line) telling you what to do and what information to put in.
- **Do not alter any text asides from where the arrows point.** If you alter or delete text by accident, download a new version of the Hbp\_archive\_demo.ipynb notebook.
- **If you have started an operation and wish to cancel it:** Go to the headers of the page and select the “Kernel” dropdown menu. Select “Restart & Clear output”. This resets the whole notebook, and start again.
- **Enter your CSCS password when asked.** The notebook will stop if you do not enter your password, in this case you would need to restart to run cells again.

# Data Curation

## ○ STEP-BY-STEP GUIDE FOR NON PYTHON USERS:

Only change the piece of text that has an arrow on its side, if you remove other pieces of text the script will not work.

### 1) Run the top cell (shift+enter).

```
In [ ]: from hbp_archive import Container, PublicContainer, Project, Archive
import os
from pathlib import Path, PurePosixPath

### Please see https://hbp-archive.readthedocs.io/en/latest/ for additional details
```

### 2) Then specify the **subproject** you are working on and **username** before you run this cell (shift+enter) and enter your password in the slot that appears.

```
In [2]: subproject = 'bp00sp05' #<-- Put in your subprojectnumber
username = 'bp000222' #<-- Put in your username

print('Please enter your password:')
SP_a = Project(subproject, username)

Please enter your password:
Password: .....
```

### 3) Next, specify the **name of your container** and **path** (apply double slashes) before you run the cell.

```
:
user_container = 'test_IA' #<-- Specify the name of your container
container = SP_a.get_container(user_container)

## If you do not know the name of your container:
##SP_a.containers

path = 'C:\\apps\\testfolder2\\' #<-- Specify the folder you wish to upload (For windows-users apply double slashes).
#E.g. 'C:\\apps\\testfolder2\\'

# r=root, d=directories, f = files
for r, d, f in os.walk(path):
    files = []
    if r == path:
        for file in f:
            files.append(os.path.join(r, file))
        container.upload(files, overwrite = True)
    else:
        p2 = Path(r)
        subdirname = p2.relative_to(path)
        subdirmultiple = subdirname.parts
        adjustpath = str(PurePosixPath(*subdirmultiple))
        adjustpath += '/'
        for file in f:
            files.append(os.path.join(r, file))
        container.upload(files, remote_directory=adjustpath, overwrite=True)
```

# Data Curation

- 4) If you made a mistake and want to reload your files you can delete all files in the container by running this last cell and redo step 3.

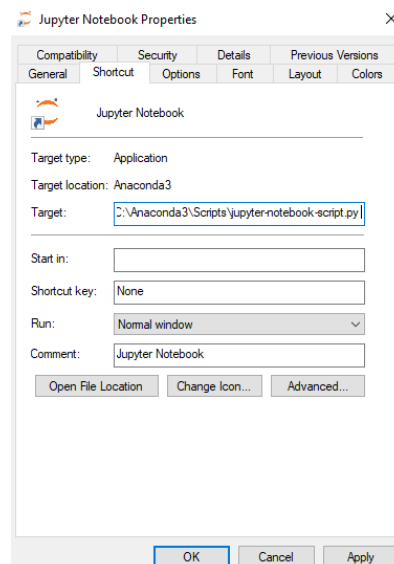
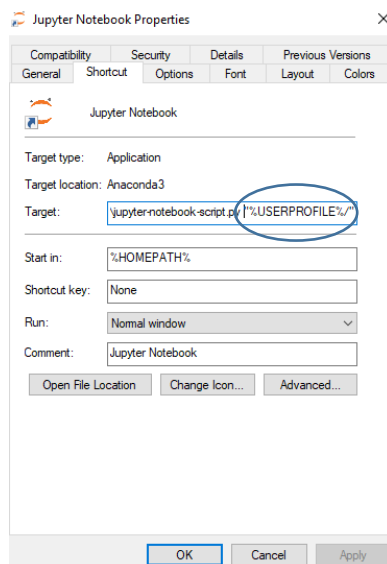
```
In [6]: ### To delete all files perform:

all_files = container.list()
for file in all_files:
    filename = str(file)
    container.delete(filename.strip('\'))
    print('Deleting {}'.format(file))
```

- **Jupyter notebook shortcut option for Windows users:** (This makes it possible to start the jupyter notebook in an easy manner (double-clicking the icon), without having to write in command prompt).

**Note:** Install python on your c:\ drive for the shortcut steps to work.

- 1) Press your windows button and search for Jupyter notebook
- 2) Right-click on your notebook and select Open file location
- 3) When in the file location folder, copy the jupyter notebook app to your desktop. Now you have a copy you can modify.
- 4) Right-click the desktop jupyter notebook and select “Properties”: Delete the contents of “Start in” (of the shortcut tab) and the text after jupyter-notebook-script.py in the “Target” field (see figures). Replace this last piece of text (often “%USERPROFILE%” with the path of the notebook you downloaded (Hbp\_archive\_demo.ipynb)



If you need help, please contact curation support at any time.

[curation-support@humanbrainproject.eu](mailto:curation-support@humanbrainproject.eu)