PyJupyter Linux Installation

This document describes how to install the PyJupyter system in a Linux PC. The installation has been tested on Debian but it should be similar in any other Linux version.

V1.0(23/5/2019) License information is at the end of the document

In order to have use the **PyJupyter system**, you need a **Python 3.x** environment that includes the required modules.

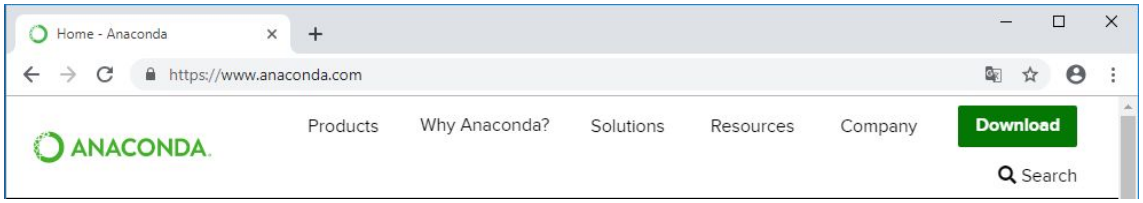
Installing Anaconda

Although you can manually install Python and add the needed packages afterwards, we will only cover in this tutorial the simpler approach of using the **Anaconda** Python platform. You can get information about it on:

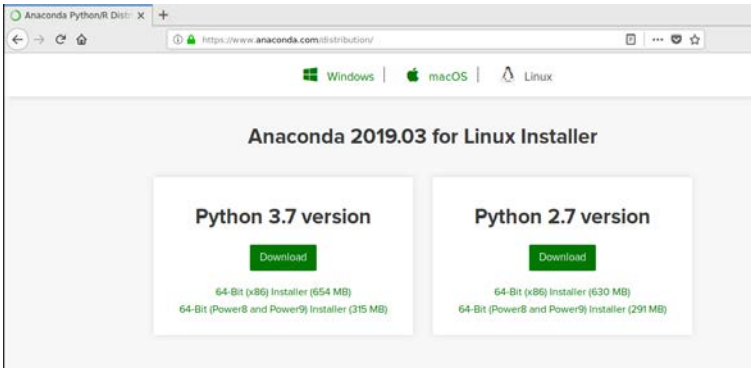
https://www.anaconda.com/

Installation can be performed system wide (requires root access) or on a user folder. We will follow this second case. In all examples in this document, username is ***tecnic*** and its user folder is `/home/tecnic`, also available as `~/tecnic`

First, we will go to the Anaconda web page:

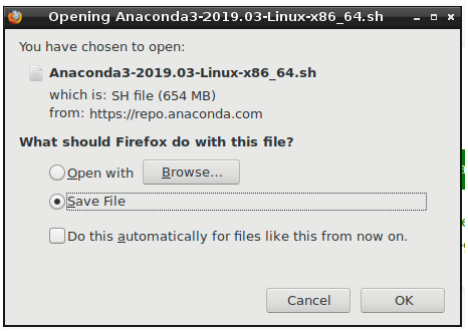


Then go to the download tab:

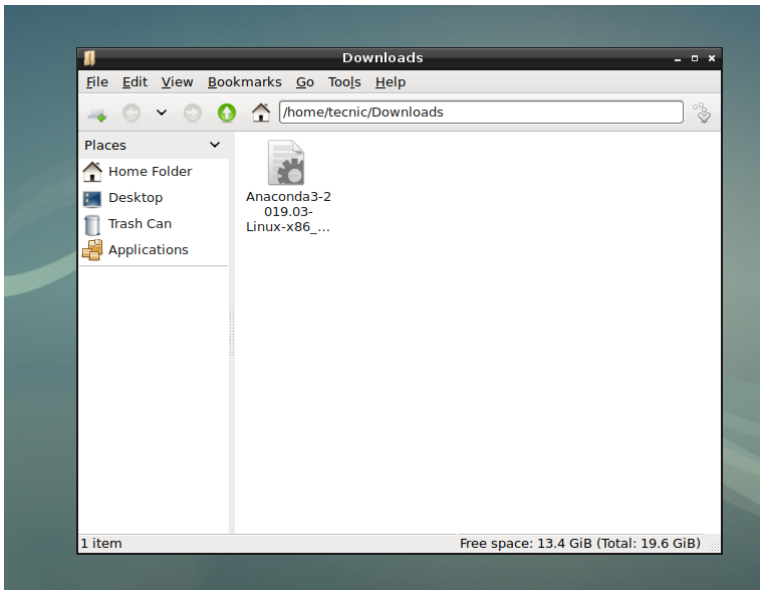


As this manual only covers Linux installations, select 64bit or 32bit version of the Python 3.x installer that match your CPU.

Anaconda Linux installers are usually associated to shell files (.sh).



Download the selected shell file to any place inside your user folder. Typically, it will be downloaded to `~/Downloads`.

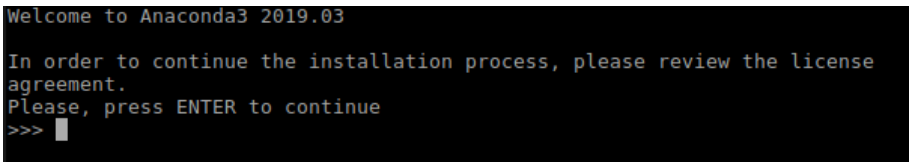


After downloading the installer, run it executing the shell file:

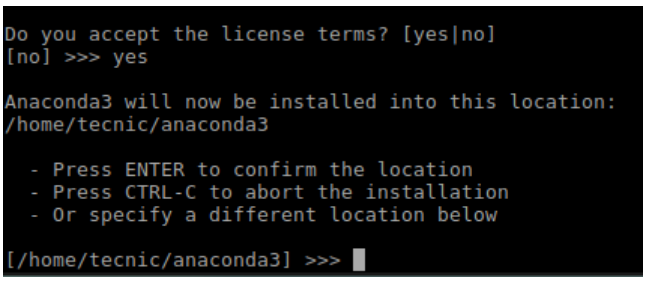
```
$ cd Downloads
$ cd bash Anaconda_Installer.sh
```

Note that the above ones are not the exact commands you should execute. The download folder can be different from the proposed "*Downloads*" and the shell file will be sure different from the proposed name.

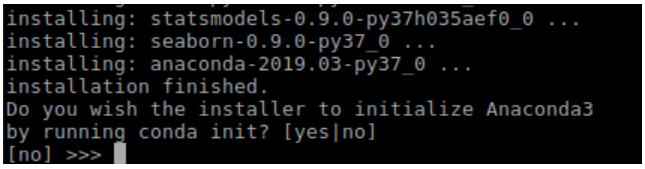
The installer will ask you to agree with the license agreement.



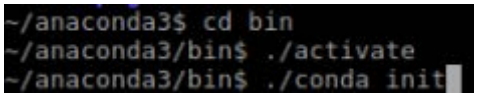
After accepting the license, you should confirm the install location, using `~/anaconda3` is fine for most purposes.



When the installer ends, it recommends you to initialize Anaconda3. This initialization sets the paths for Anaconda so that you can run Python3 applications from any folder.



It is recommended to respond "yes", but if you don't do that, you can perform this process later by going into the `anaconda3/bin` folder and executing the `activate` and the `conda init` commands.



Adding the PyJupyter files

Locate the PyJupyter installation zip file and uncompress its main **PyJupyter** folder on the root of your user folder. The PyJupyter folder will be then be accessible as `~/PyJupyter`

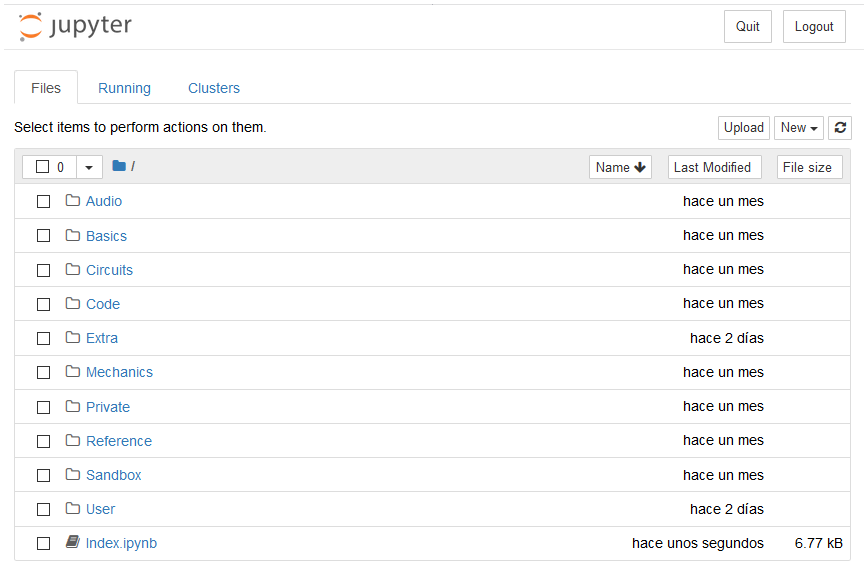
To start the **PyJupyter system**, just enter the ***PyJupyter*** folder and execute the ***Jupyter.sh*** shell file.

```
cd ~/PyJupyter
./Jupyter.sh
```

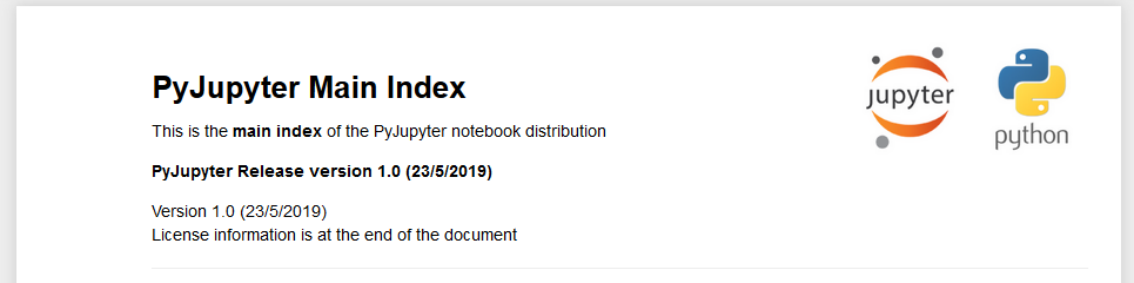
Note that Jupyter.sh needs to be executable to do that. If this is not the case, make it executable by executing the command:

```
chmod +x Jupyter.sh
```

Jupyter is a programming environment that uses web pages for the user interface. After a successful start, your default navigator should open and show a navigator for the files on the `~/SLab/Jupyter` folder.



You can now click on the **Index.pynb** file to open the main PyJupyter index file.



From this file you can access to all PyJupyter contents.