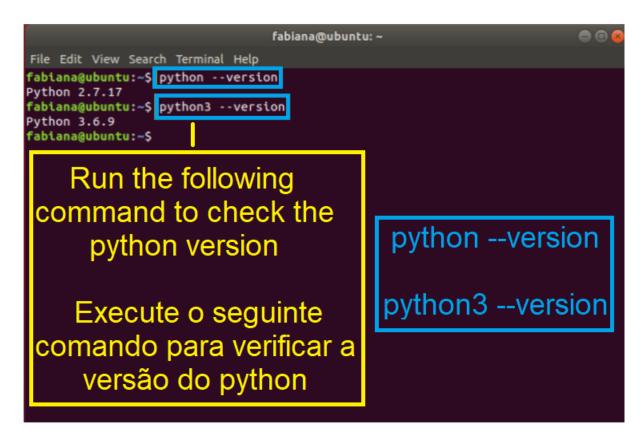


STEP 1 - Checking the installed PYTHON Version:

Before running the installer, the researcher must ensure that python is properly installed and configured.

```
python --version
python3 --version
```

The first command informs the version of python2 and the second command informs the version of python3, as shown in the image:



As seen in the image above, this computer has both python installed, so you can move on to STEP 3 directly.

If any of the versions of python 2 or python3 is not found, STEP 2 must be followed.

STEP 2 - Installing the PYTHON:

To install python 2, run the following command:

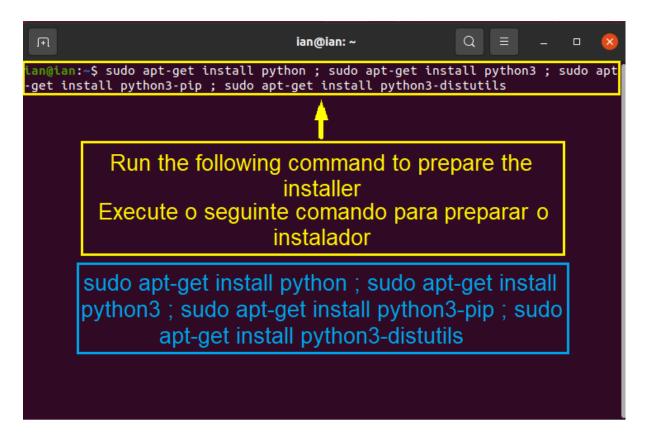


sudo apt-get install python

To install python 3, run the following command:

```
sudo apt-get install python3
sudo apt-get install python3-pip
sudo apt-get install python3-distutils
```

You can run all commands at once, as shown in the image, so that both systems are installed at once.

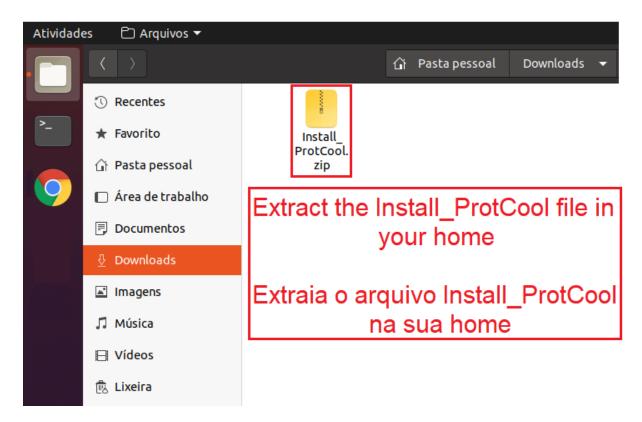


When we run the commands, we are installing both python 2, python 3 and the pip3 and distutils add-ons on the computer.



PASSO 3 - Instalação do ProtCool

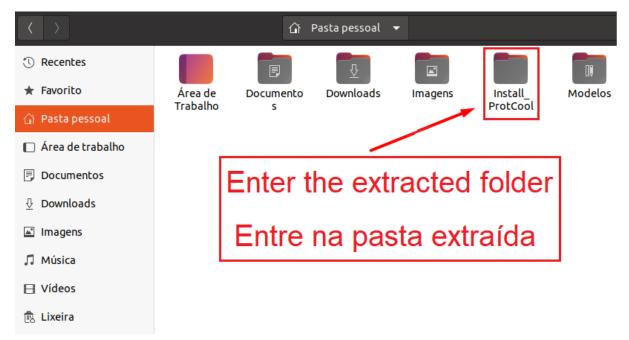
The researcher must go to the place where he downloaded Install_ProtCool.zip and extract it in the folder on at home, if it is extracted in another folder, the installer will not run properly.



Inside the searcher's home folder, there will be the installer with all the files needed for installation. The researcher must enter at folder to proceed with the installation.



Install ProtCool Tutorial



Inside the installer folder there are 3 files: ProtCool, Install_ProtCool.py and ReadMe folder:

- ProtCool folder with ProtCool system files;
- Install_ProtCool.py installer that will make all settings for the researcher to work;
- ReadMe Contains instructions on the installer itself, a tutorial on how to use the interface, and guidance to verify the PathUser.



```
ReadMe.txt
#### To run the installer it is necessary to have python and python3 installed on the machine - Para executar o instalador é necessário ter o python e python3 instalados na máquina ####
#### Extract the <a href="Install ProtCool.zip">Install ProtCool.zip</a> na sua home ####
#### Inside the extracted folder, run the following command – Dentro da pasta extraída, execute o seguinte comando ####
#### After following the installation, the system is ready for use – Após seguir a instalação, o sistema está pronto para o uso ####
#### Check the videos and tutorials for using ProtCool - Verifique os vídeos e tutoriais para utilização do ProtCool ####
#### Tutorial for using the interface - Tutorial para usar a interface ####
Open the terminal inside the folder — Abra o terminal dentro da pasta "home + "/ProtCool/ProtCool_Interface"
Run the following command - Rode o comando a seguir python3 run.py runserver
In the browser enter the following link — No navegador entre com o seguinte link http://127.0.0.1:5000/
After that the interface is ready for use - Após isso a interface está pronta para o uso
#### List of installed systems/libraries - Lista de sistemas/bibliotecas instalados ####
PIP3, VMD, Requests, pypdb, Autodock, Vina, Smina, Selenium, Modeller, <u>Geckodriver</u>, Amber, MGLTools
#### PathUser.txt check - Verificar PathUser ####
Please check the PathUser file in the <u>ProtCool</u> / path and <u>ProtCool / ProtCool Docking</u> directories. This file must contain 4 lines, being:
Favor Verificar o arquivo <u>PathUser</u> que esta nos diretórios <u>ProtCool/path e ProtCool/ProtCool Docking</u>. Esse Arquivo deve contar 4 linhas, sendo:
File example:
//nome/user/mber18
/nome/user/MGLTools-1.5.6/MGLToolsPckgs/AutoDockTools
/nome/user/MGLTools-1.5.6/bin
END
If it is not in this format, please modify the paths to the correct directory of your machine Caso não esteja nesse formato, favor modificar os caminhos para o diretório correto da sua máquina
```

The following is a brief description of what each part of the ReadMe file is:

Instructions for the installer - Describes what must be installed previously, moreover, shows step by step how to run the installer.

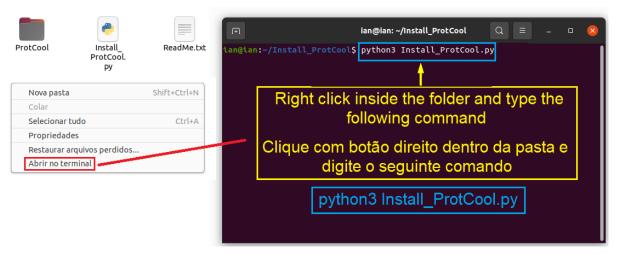
Tutorial on how to access the interface - Step by step instructions on how to access the interface.

Direction to check the PathUser - If the researcher already has Amber or MGLTools installed, there may be problems with the tools. This part of the ReadMe describes the step by step of what should be done.

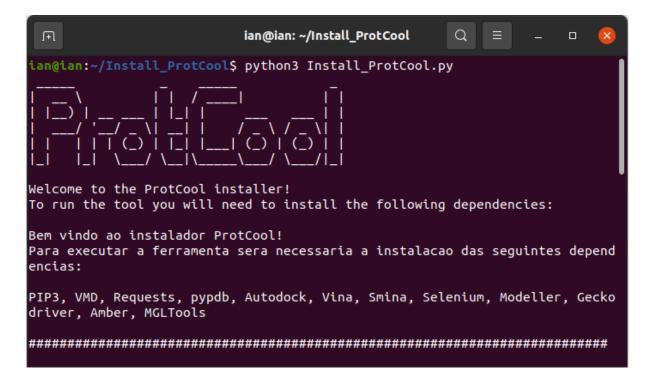
The researcher must open the terminal inside the folder and execute the following command:

```
python3 Install ProtCool.py
```





When executing the above command, the system will be executed, as shown in the screen below:

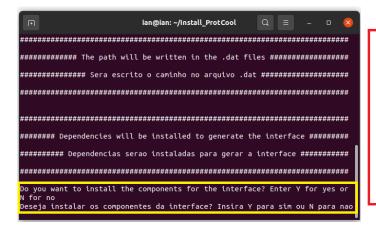


The installer will configure and install everything that will be necessary for the researcher to be able to work, but it will be the researcher who will allow each installation, answering "Y" or "N" for each system. This ensures that the researcher only installs what is needed on his equipment.



Programs to be configured and installed:

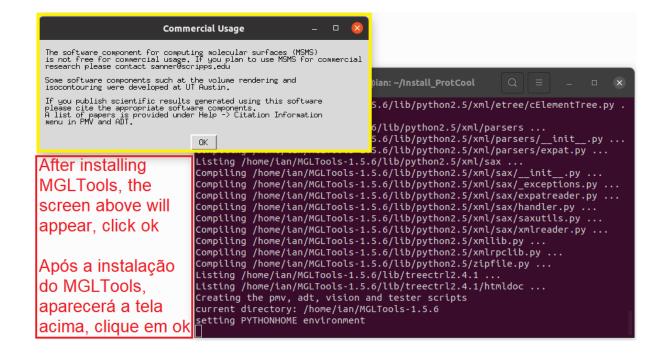
PIP3, VMD, Requests, pypdb, Autodock, Vina, Smina, Selenium, Modeller, Geckodriver, Amber, MGLTools



The researcher will choose to choose which files to install

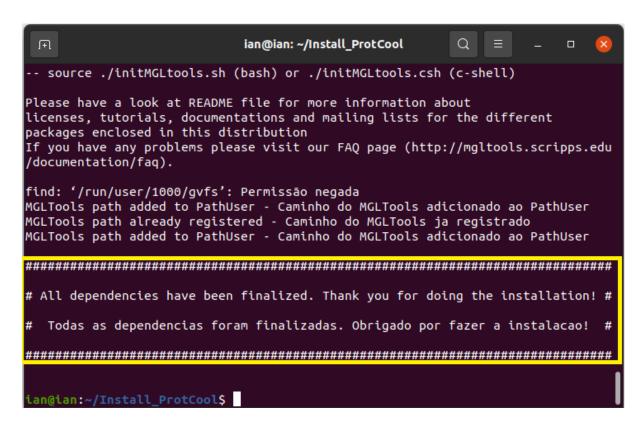
O pesquisador optará por escolher quais arquivos deseja instalar

After MGLTools is installed, a warning about commercial use will appear, click "ok" to finish the installation.





After installation, a message will appear confirming that everything went well, and that the system is ready for use.

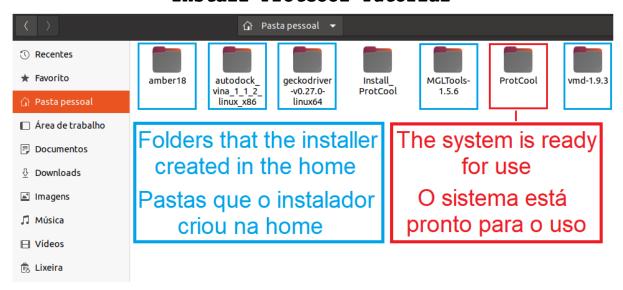


After installation, at home folder will be the ProtCool folder where the researcher will work. In addition, there will be folders created by the installer that will be needed to run the tools.

Folders that were created at home:

```
amber18, autodock_vina_1_1_2_linux_x86,
geckodriver-v0.27.0-linux64, MGLTools-1.5.6, ProtCool, vmd-1.9.3
```





The researcher can delete the computer so the system installation folder, as the ZIP folder that was lowered by the researcher.

If the researcher wishes, there is a step-by-step video that reproduces this material.

For the execution of the systems, the researcher can check both the videos and the tutorials of each of the systems.