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Practical course

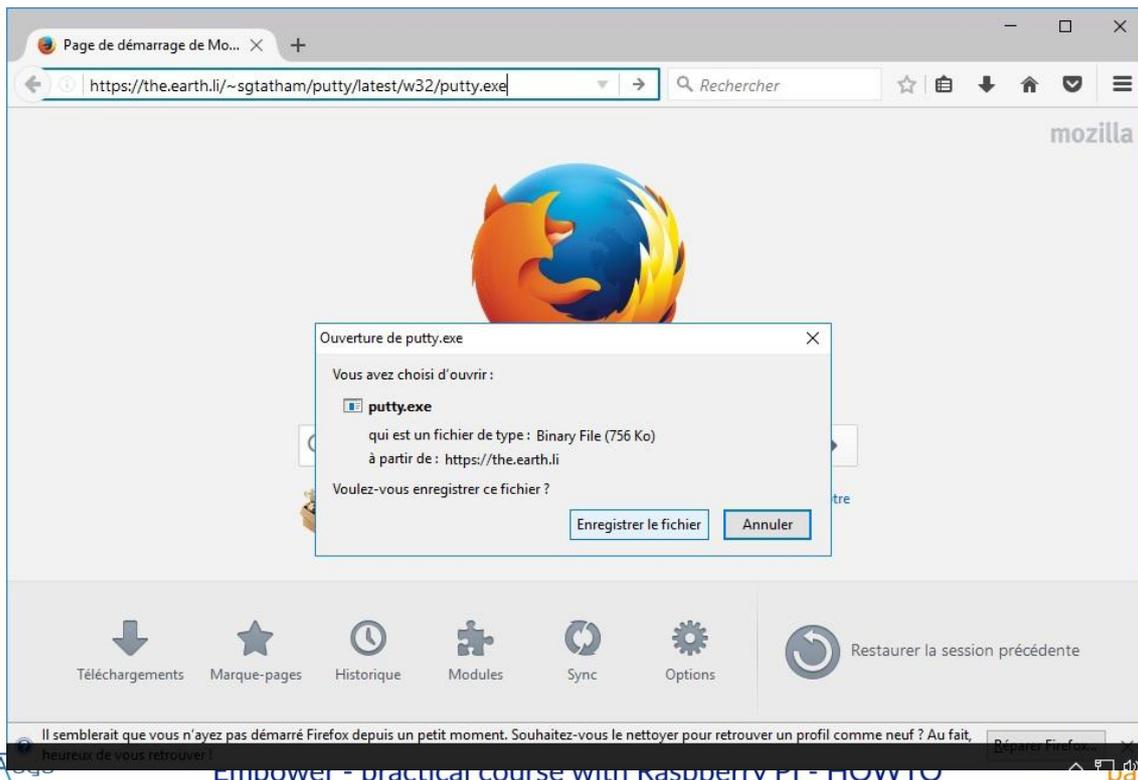
Integrate a new sensor with Raspberry PI and monitoring chain.

HOWTO

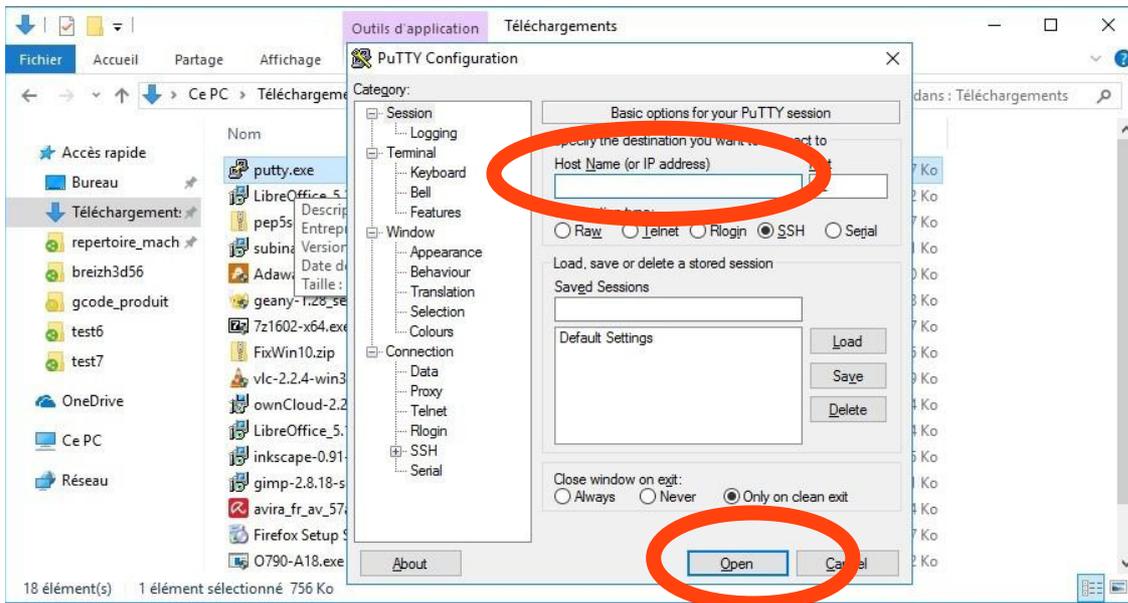
1. CONNECTING TO THE RASPBERRY WITH PUTTY

Download the Putty program and save it :

<https://the.earth.li/~sgtatham/putty/latest/w32/putty.exe>



Run the Putty program (by default, you will find **putty.exe** in the **downloads** directory of your computer). You will have :



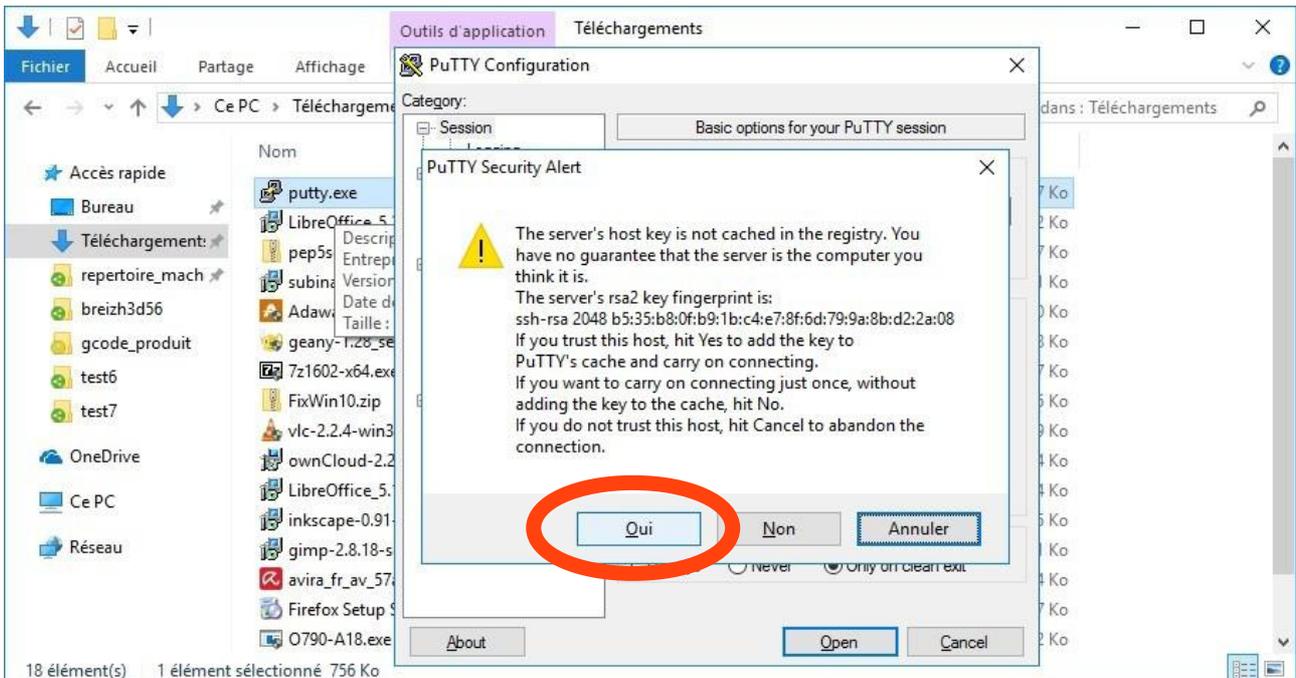
In the « **Host Name** » field, type the hostname or the IP address of your Raspberry PI.

Ex : empower1.liberasys.com

Ex : 10.56.56.1

Then clic on « **Open** » button.

If it is the first connection, your computer never talked to the Raspberry PI, thus Putty ask you if the host can be trusted. **Click on « Oui » or « Yes ».**



Now you are connected. You have to enter login and password, which are :

Login : pi

Password : empower2017

2. MISCELLANEOUS HOWTOS

2.1. Howto nano (edit a file)

```
nano <file path>
```

- use arrow keys in order to move the cursor
- write the file : Ctrl + O (file path is asked, just press Enter)
- quit nano : Ctrl + X
 - if you have unsaved changes, nano asks for saving your changes, press N (No) or O (Oui = Yes).
 - if you answered to do file saving, the file path is asked, just press Enter.
- cut a line : Ctrl + K
- paste a line : Ctrl + U

Example :

```
nano ./test.txt
```

2.2. Howto sudo (do commands as Super User)

You will connect to the Raspberry PI as "pi" user.

This user is a standard one, with no particular rights.

In order to change the system configuration, you will have to get Super User rights.

For that, sudo (aka Super User DO) will run commands for you as the Super User.

Example :

```
sudo nano /boot/config.txt
```

2.3. Howto earn charism points to your system administrator

Tell him that you :

- connected to a linux server with Putty SSH client,
 - did some commands as super user with the use of sudo,
 - edited system configuration.
- :-)