



Fondation
Mérieux

Lab | Book

LabBook v3.6

Installation manual

V1

January 2026

Fondation **Mérieux**

Lutte contre les maladies infectieuses depuis 1967

www.fondation-merieux.org



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1. Introduction

LabBook is a software package designed to help you manage the medical biology data you need to guarantee high-quality laboratory results.

Fondation Mérieux cannot be held liable for any direct or indirect loss, whether foreseeable or unforeseeable, arising from the non-operation or malfunction of the LabBook software.

Please note that LabBook is not intended for blood bank management, and that LabBook users must comply with local legislation on medical laboratory IT before using it.

You have downloaded the LabBook ISO from www.lab-book.org

Please note that the installation process will delete the entire contents of your computer (data, programs and operating system)! Please make a backup of your computer before continuing with this manual.

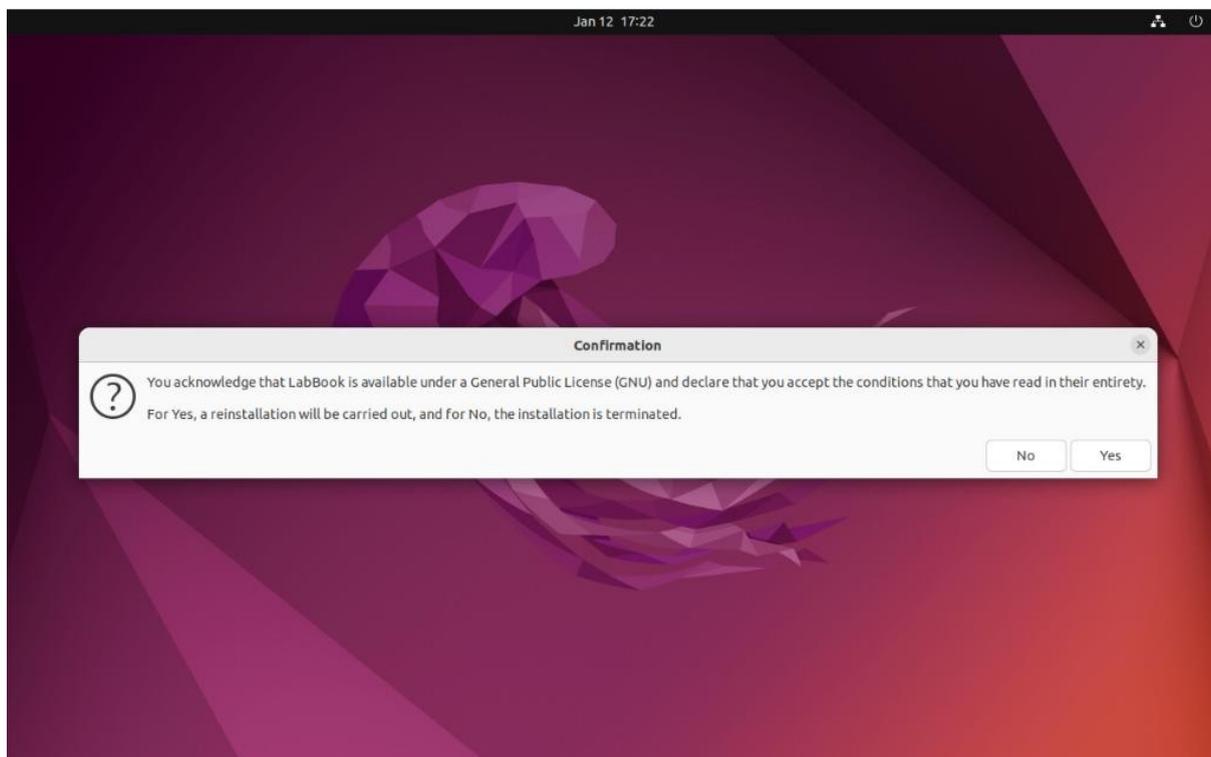
And if you're already a LabBook 2.5 or 2.9 user, be sure to make a backup on a storage device (USB key or external hard drive); you'll find the procedure for migrating from LabBook 2.5 to 3.X or LabBook 2.9 to 3.X in the "Backup and Restore" manual.

If you wish to use a USB installation key, we recommend Rufus or Unetbootin.

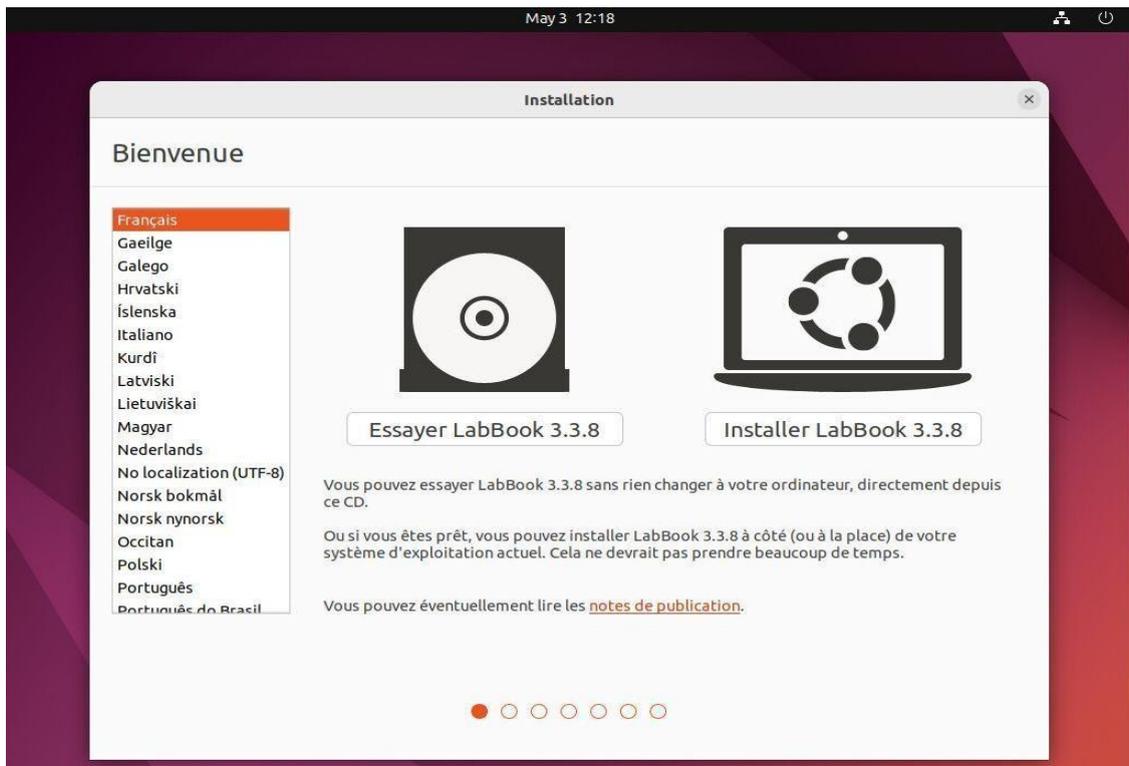
2. Installation procedure



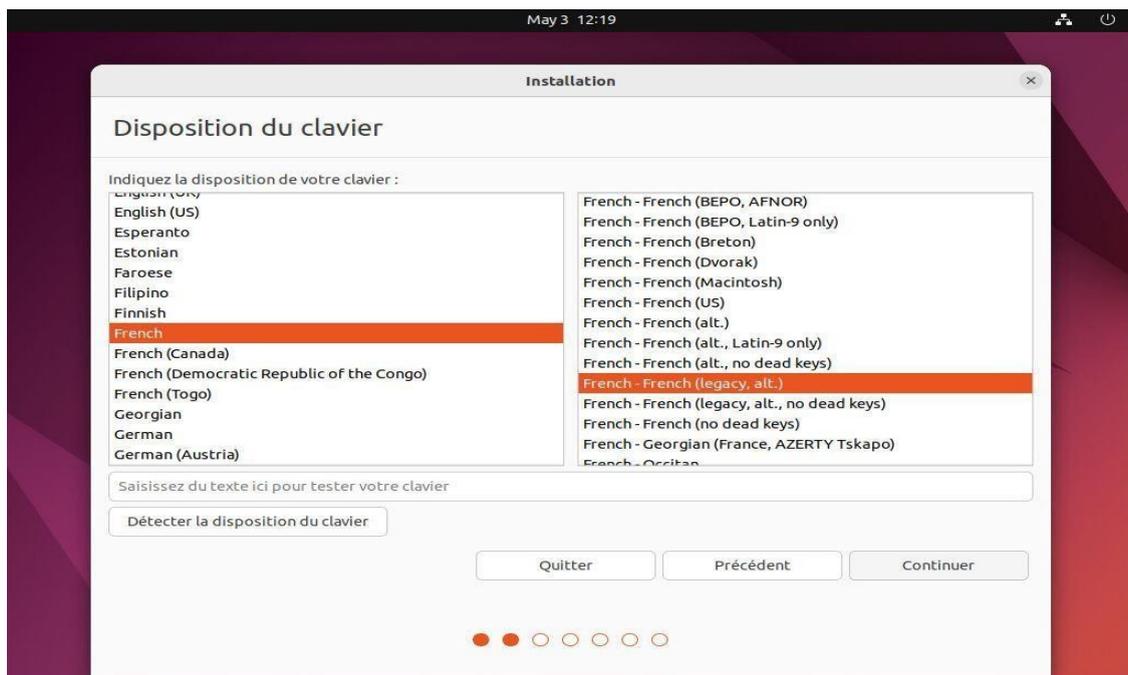
On this page, you must accept the terms and conditions of the LabBook (GNU) license to continue with the installation. Click on "Yes" to start installation, "No" to stop the process.



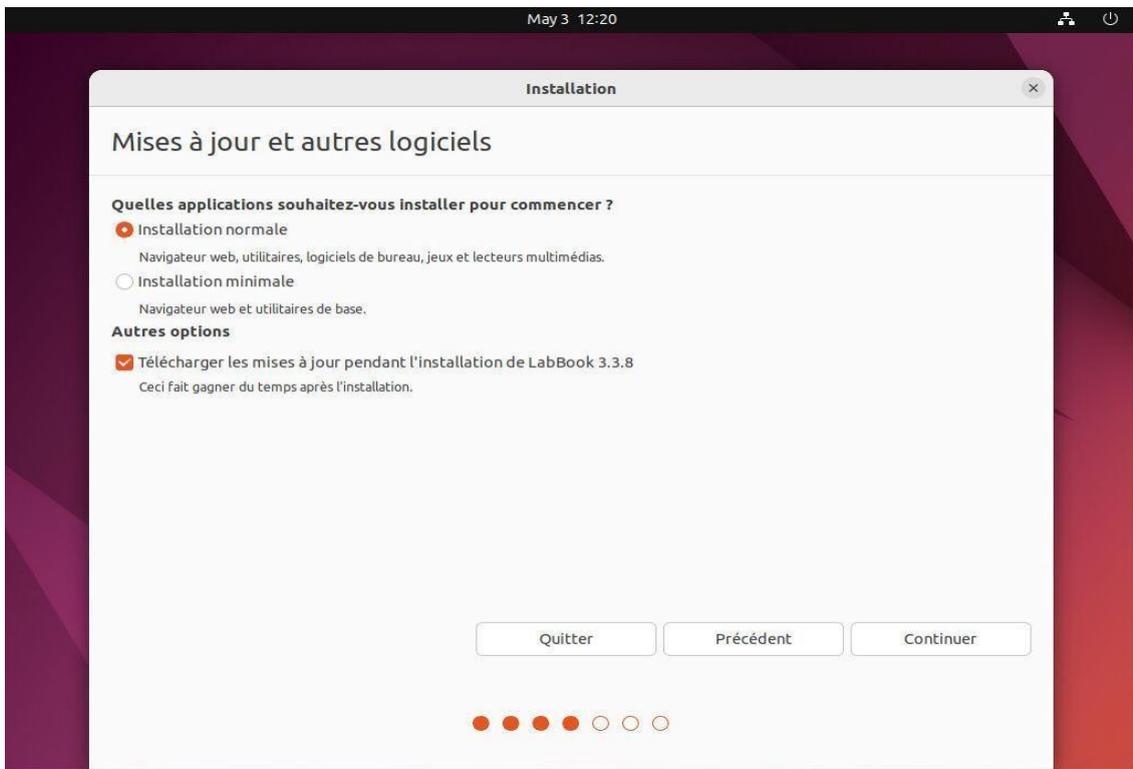
Select "Try and Install LabBook" or wait a few seconds. The other menus are intended for experts who, for example, want to repair a faulty LabBook.



Select "Install LabBook 3.X".



Choose your keyboard, then "Continue".

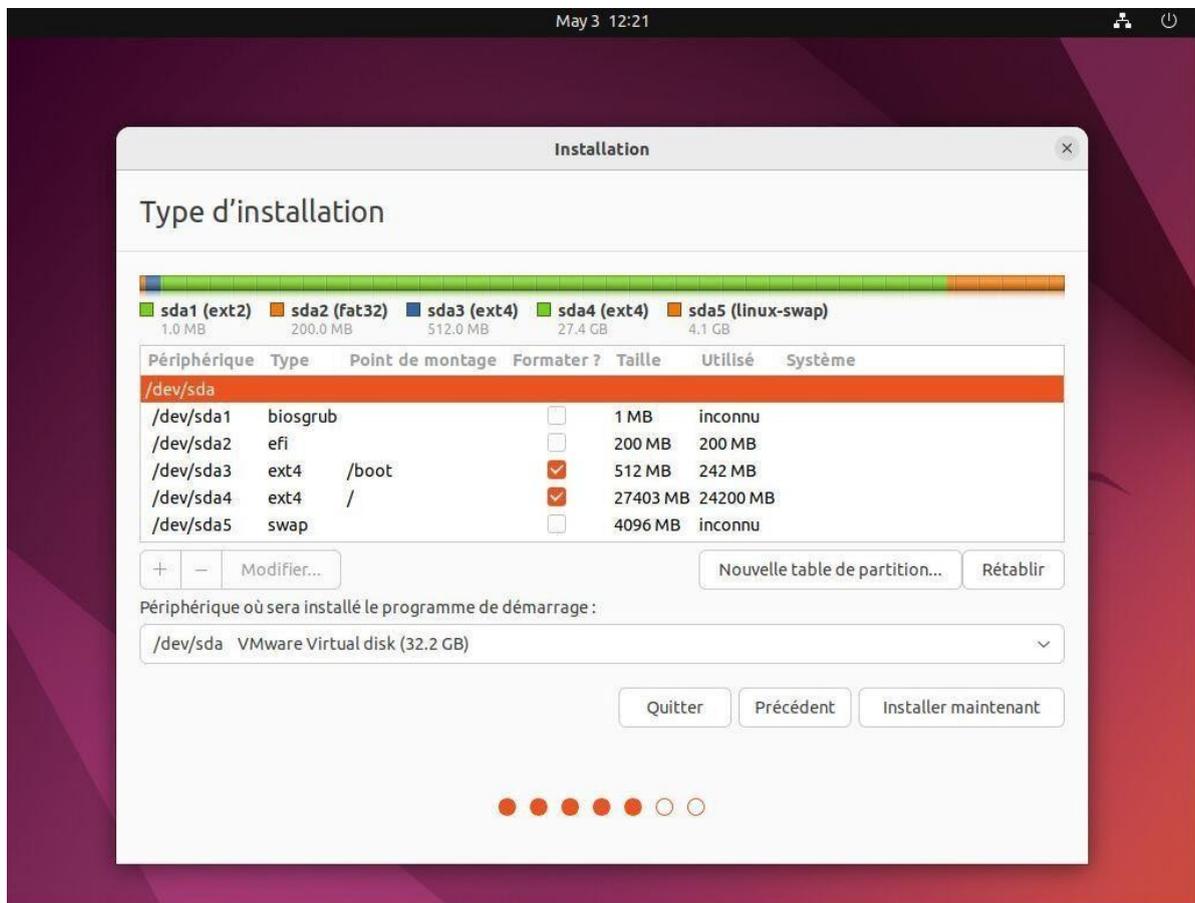
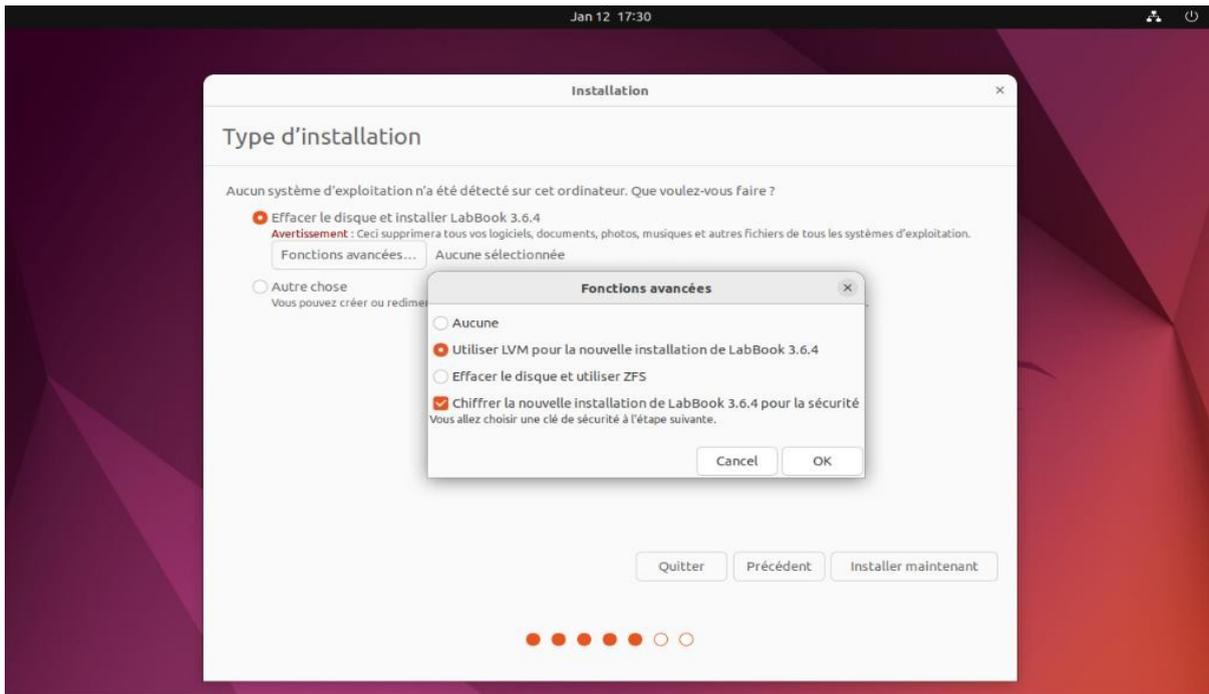


Select "Continue".

Leave the default choice "Erase disk and install LabBook 3.X", unless you wish to finely partition your hard disk (experts only), in which case choose in which case select "Other".

To encrypt the hard disk to protect the cold installation, click on "Advanced functions", then check the option "Use LVM for the new installation of LabBook 3.6.4" and finally check "Encrypt the new installation of LabBook 3.6.4", then click on OK and "Install now".

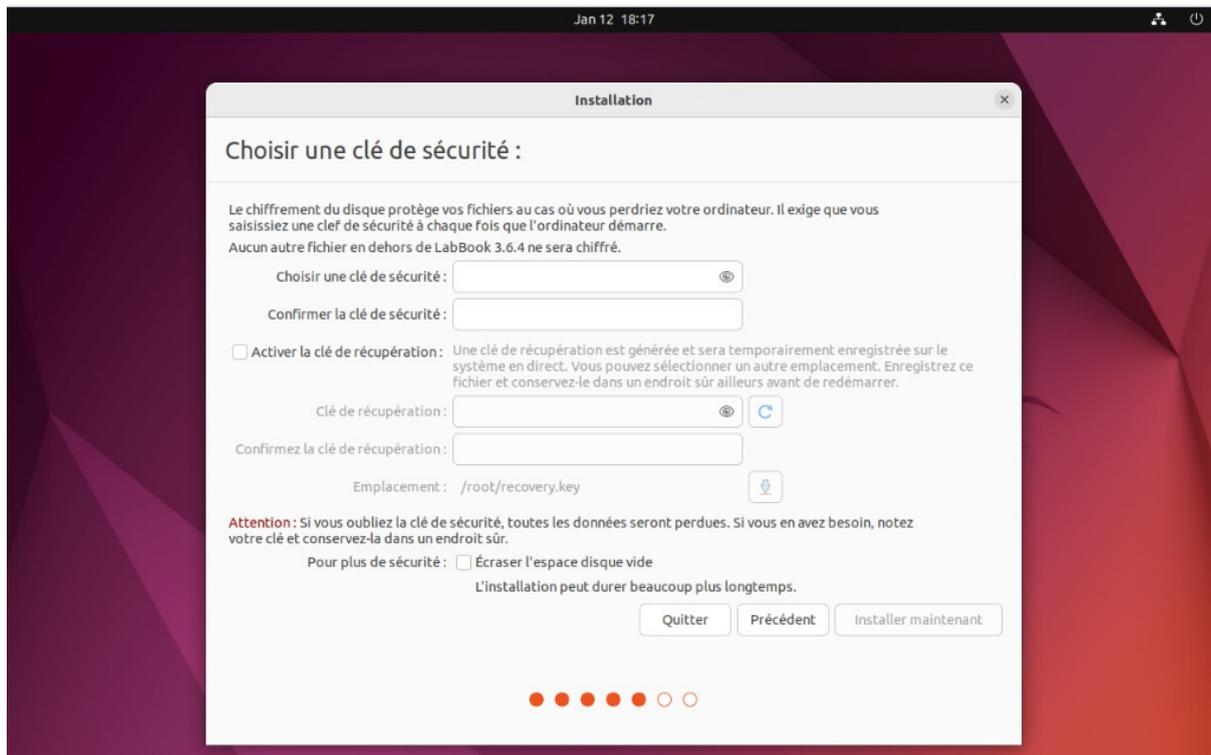
Note: the option "Erase disk and use ZFS" is possible, but reserved for experts who really want to use the ZFS file system.



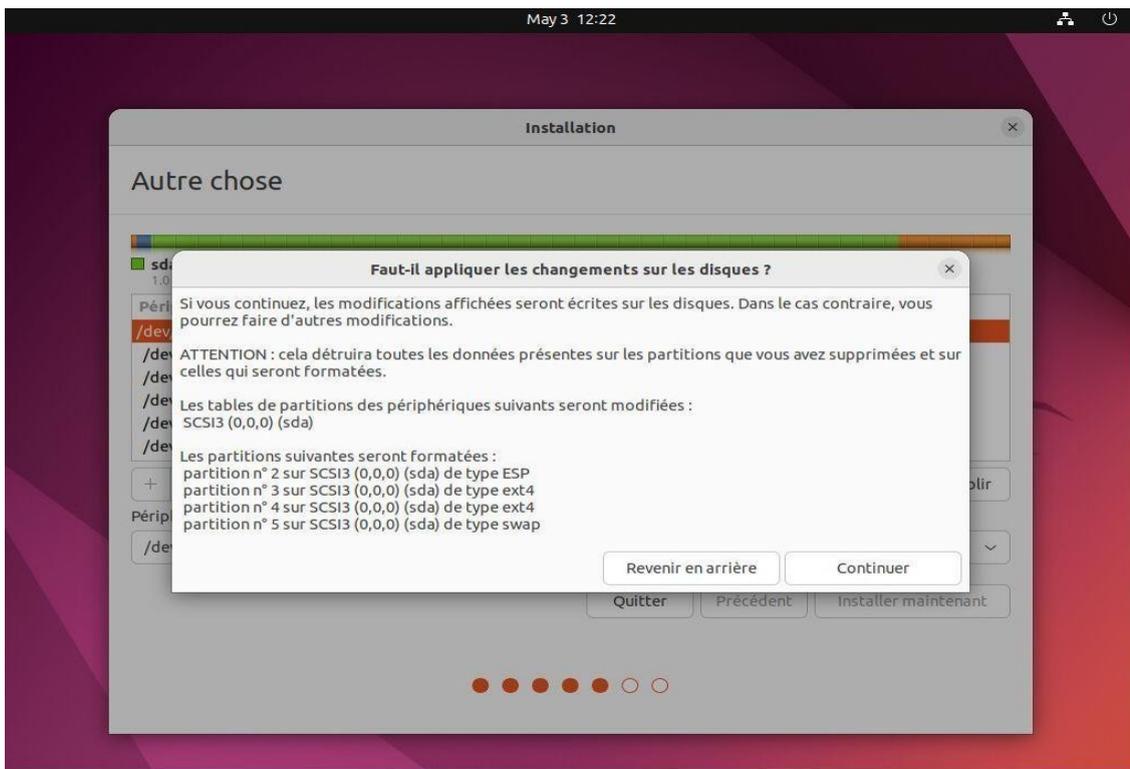
Select and confirm the security key, then click "Install now".

Be sure to keep this security key in a safe place, as it will be requested each time you start LabBook.

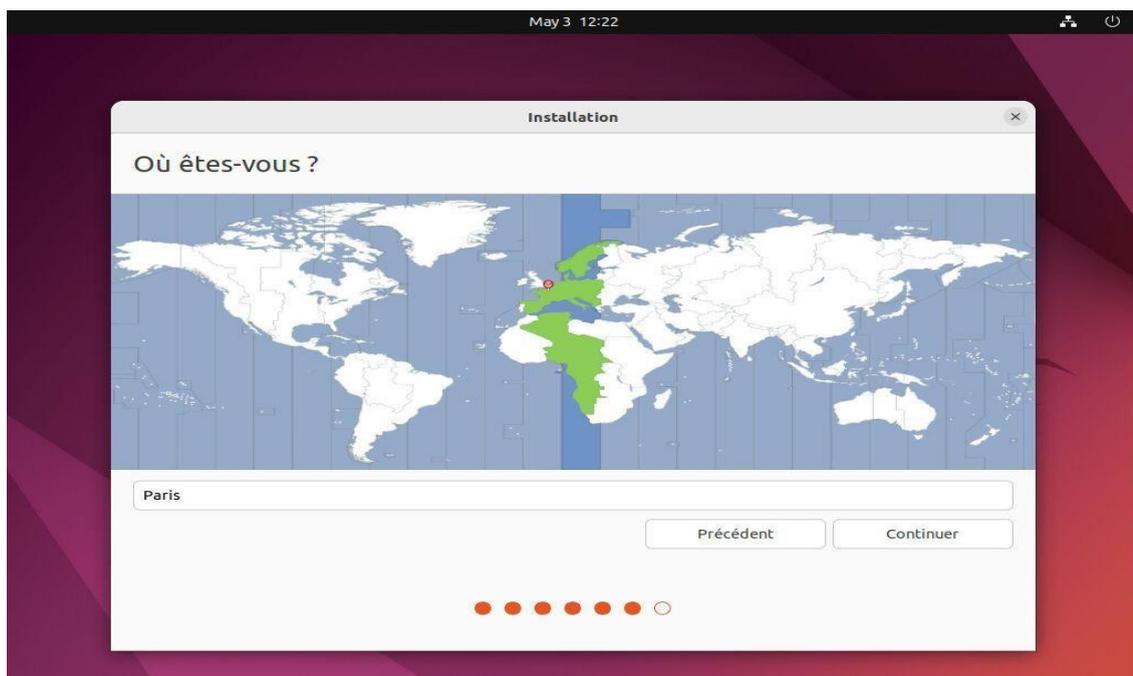
NB: Without it, it will be impossible to start the system or retrieve information stored on the disk!



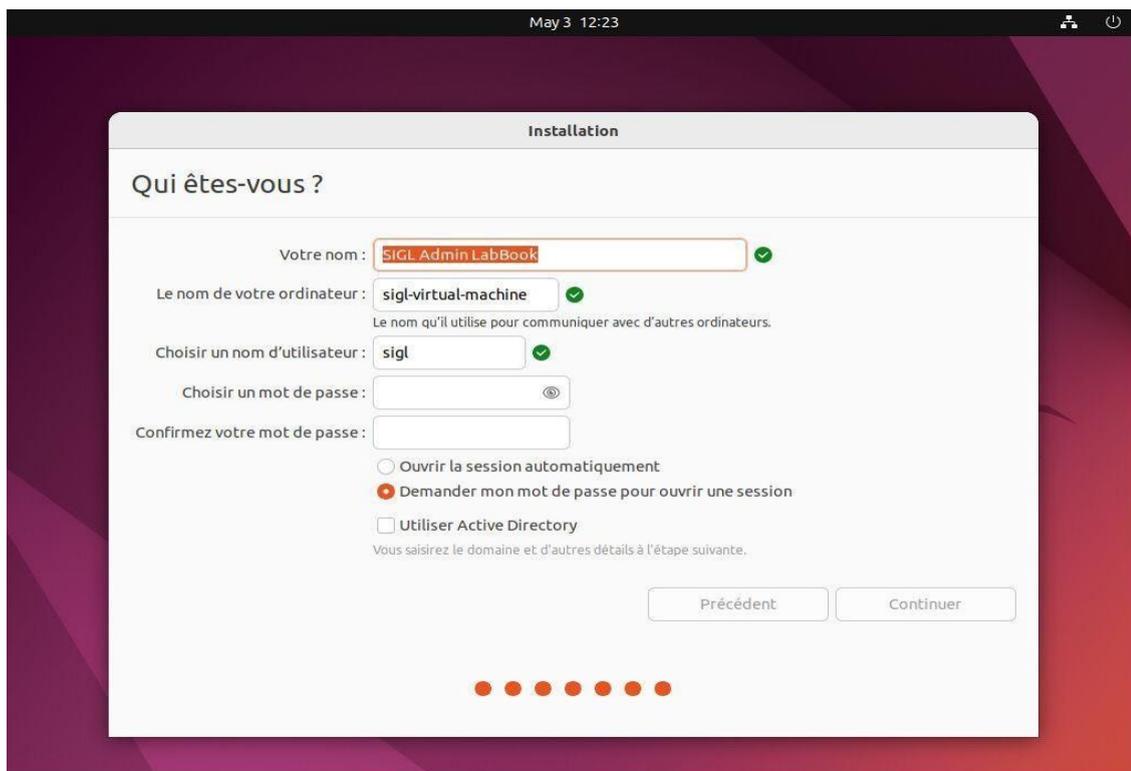
Select "Install now", unless you wish to modify the proposed setting.



Select "Continue".

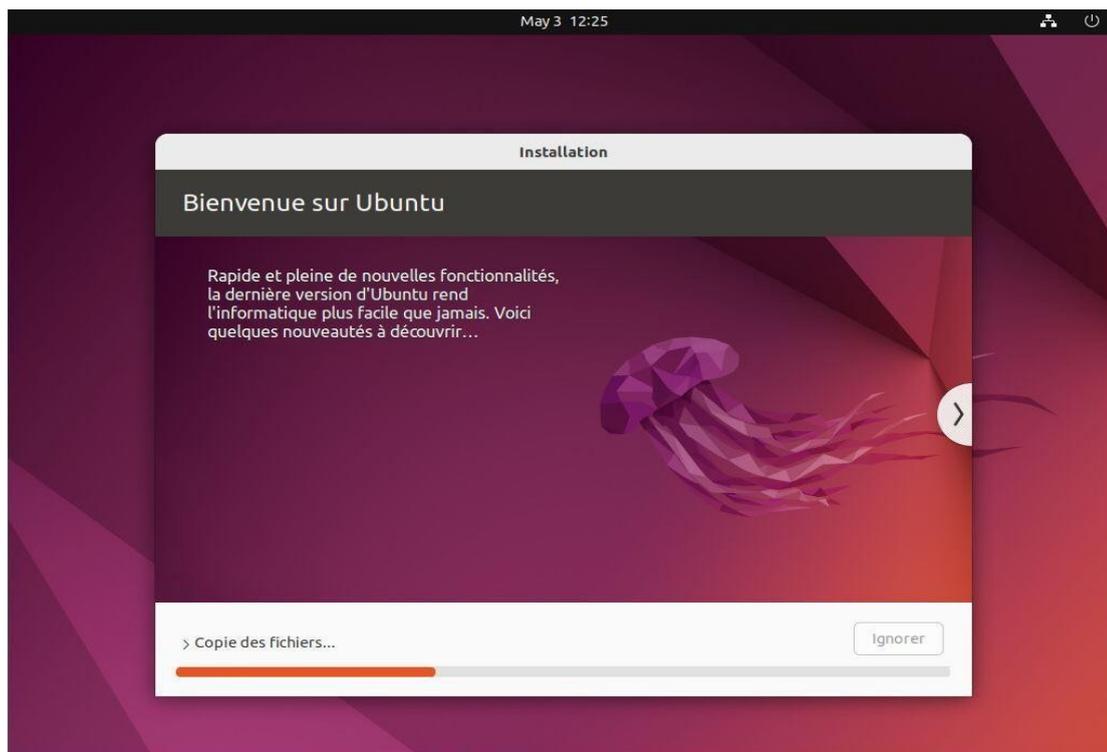


Select your geographical location for the time setting, then "Continue".



Modify your LabBook and administrator account details, then click "Continue".

The system will now install, and you will have to wait for the restart prompt.



Select "Restart now".

Remove the installation media from your computer (USB key or DVD or ...).

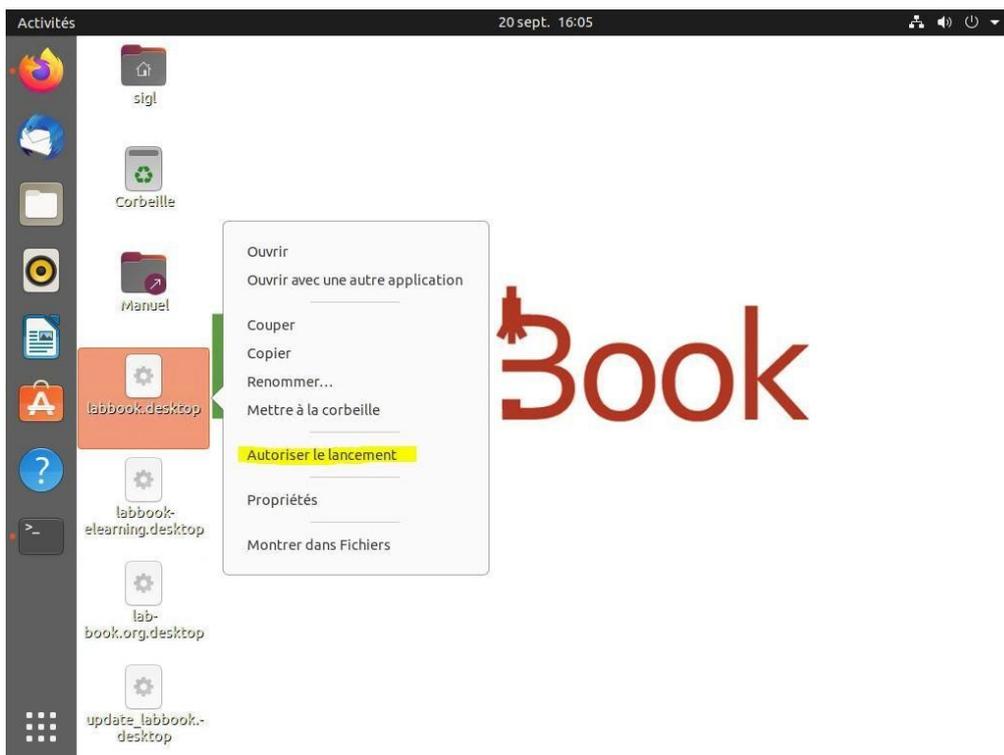
Press "Enter" to restart.

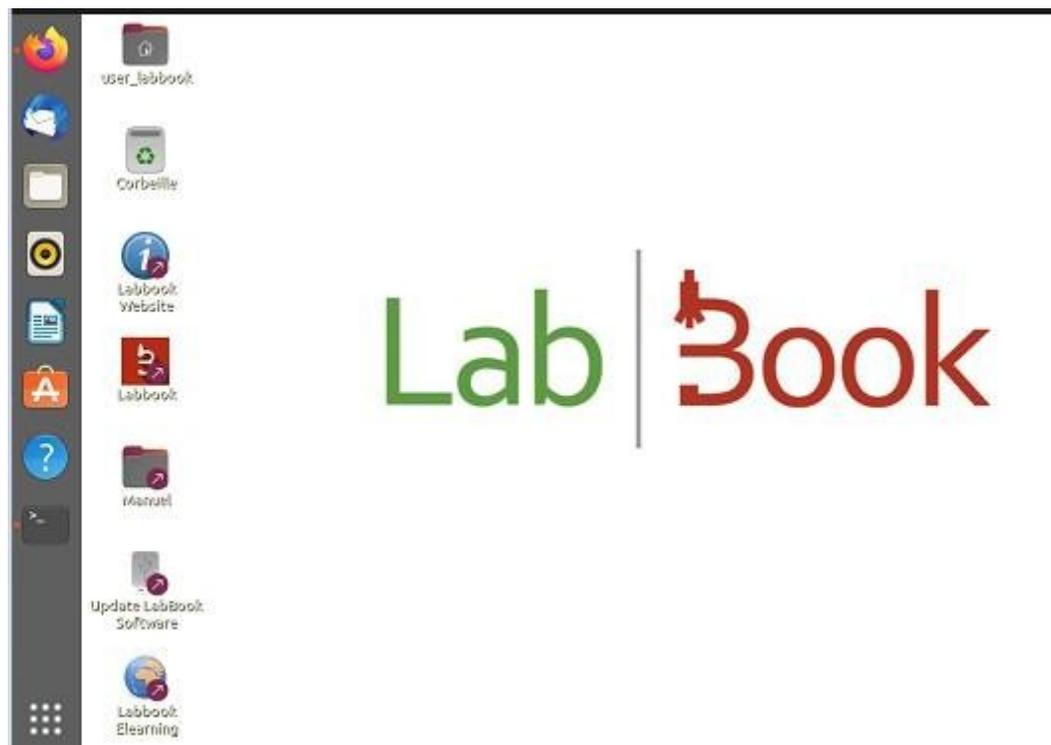
On restart, enter the password for the "SIGL Admin LabBook" account.

The system will take a few minutes to finalize the installation and set up LabBook.

NB: On first start-up, the 4 launchers on the desktop are not active. "Labbook E-learning" corresponds to the training module; "Labbook" to the LabBook software; "Update Labbook Software" triggers the update of the LabBook software from a USB key; and "Labbook Web site" is the public website presenting LabBook.

To make these launchers active, you need to perform the following operation on each of them: right-click + "Allow launch". The image corresponding to the function then appears, and the application can be launched.





NB: LabBook takes longer to start up for the first time than for subsequent launches. Some initializations are performed during this time, and launching from the "Labbook" launcher systematically results in an https page inaccessible to the browser.

3. Login to user_labbook account

When LabBook was installed, a user "user_labbook" was created. This user is required to access the backup media you connect to the LabBook server. You need to log in under "user_labbook" from your server console. During installation, a trivial password "user_labbook" was assigned to "user_labbook". This password must be changed the first time you connect.

You will be prompted to enter the current password "user_labbook":



Then enter and confirm the new password:



4. Switch LabBook to https mode

By default, all communications with LabBook are in http mode.

To improve connection security, you can switch LabBook to HTTPS mode, where it will act as a local trusted authority.

To do this, run the specific `https_labbook.sh` script as follows:

- Open the LabBook console
- Connect to the LabBook administrator (the one defined during installation - default sigl)
- Run the command "`sudo /home/https_labbook.sh localstore`" and answer the question by entering the LabBook IP address on the local network.

```
sigl@sigl-Standard-PC-i440FX-PIIX-1996:~$ sudo /home/https_labbook.sh localstore
[sudo] Mot de passe de sigl :
Creating LabBook CA structure...

Creating LabBook CA Private Key...

Creating LabBook CA Root Certificate (valid for 10 years)...
#####
Get and insert /etc/pki/LabBookCA/certs/LabBookLocalRootCA.crt
to your system (Windows, Android, ...) to get your web browser
or LabBook Lite application communicate securely with LabBook
#####

Creating LabBook Private Key...
Creating LabBook CSR...
Please enter the local address @IPV4 of your LabBook (Ex: 192.168.1.55 ...):
|
```

Notes:

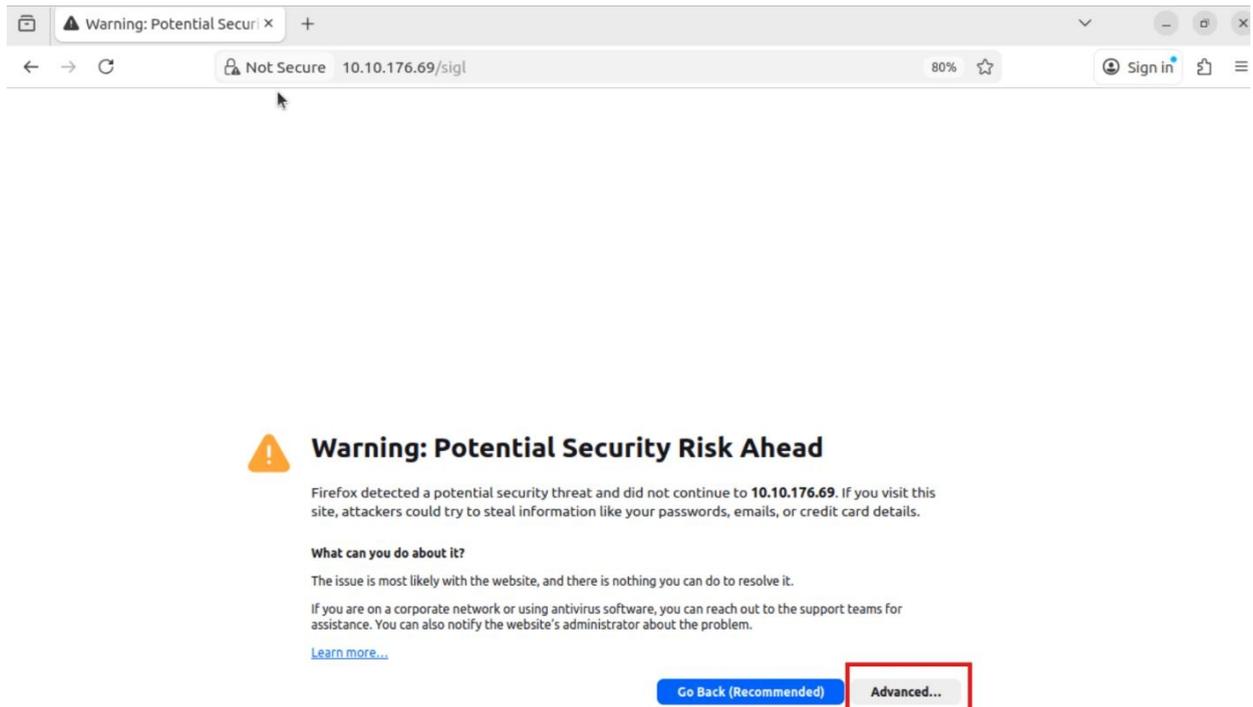
The address can be determined by running the "ifconfig" command. It's usually an address of the form "192.168.X.Y" or "10.10.X.Y".

Do not use the address 10.88.0.1, which is reserved for internal use, or 127.0.1.1.

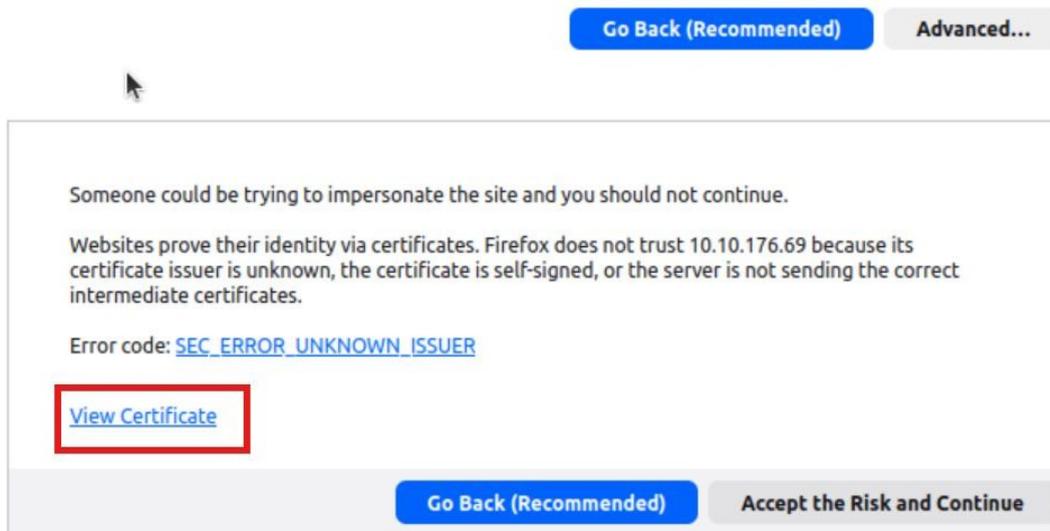
This certificate is based on the IP address, which means that if the IP address changes, you'll have to generate the certificate again, or remember to set the IP address of the server machine before generating the certificate.

Adding the certificate to the LabBook browser (Ubuntu)

On the LabBook server (Ubuntu), when you launch LabBook on Firefox you get a security warning (warning: potential security risk ahead), which is normal given that labbook is in http by default.



To switch to https, once the certificate has been generated, click on the "then on "view certificate".



This brings us back to the "certificate" page, with 2 tabs: the IP address tab and the LabBookLocalRootCA tab. We'll click on the latter, then on "PEM cert" to download the PEM certificate.



Certificate

10.10.176.69	LabBookLocalRootCA
Subject Name	
Country	FR
State/Province	France
Locality	Lyon
Organization	Fondation Merieux
Organizational Unit	LabBook
Common Name	10.10.176.69
Issuer Name	
Country	FR
State/Province	France
Locality	Lyon
Organization	Fondation Merieux



Certificate

10.10.176.69	LabBookLocalRootCA
Subject Name	
Country	FR
State/Province	France
Locality	Lyon
Organization	Fondation Merieux
Organizational Unit	LabBook
Common Name	10.10.176.69
Issuer Name	
Country	FR
State/Province	France
Locality	Lyon
Organization	Fondation Merieux

Public Key Info	
Algorithm	RSA
Key Size	4096
Exponent	65537
Modulus	A3:49:13:C3:92:42:F8:C6:91:EB:DA:0D:71:2E:5F:38:74:8D:E5:37:74:1F:E0:90:...

Miscellaneous	
Serial Number	6F:E9:18:80:86:95:2E:A8:4E:40:A9:9D:C1:3B:70:33:04:73:B6:50
Signature Algorithm	SHA-256 with RSA Encryption
Version	3
Download	PEM (cert) PEM (chain)

Fingerprints	
SHA-256	77:58:2B:26:A9:82:DF:1C:5D:0E:14:DE:33:DB:1B:CC:F0:4A:26:54:3B:DE:24:5...
SHA-1	E3:A0:A4:BC:EF:34:94:49:E1:88:67:56:40:07:F1:38:9C:CF:89:B0

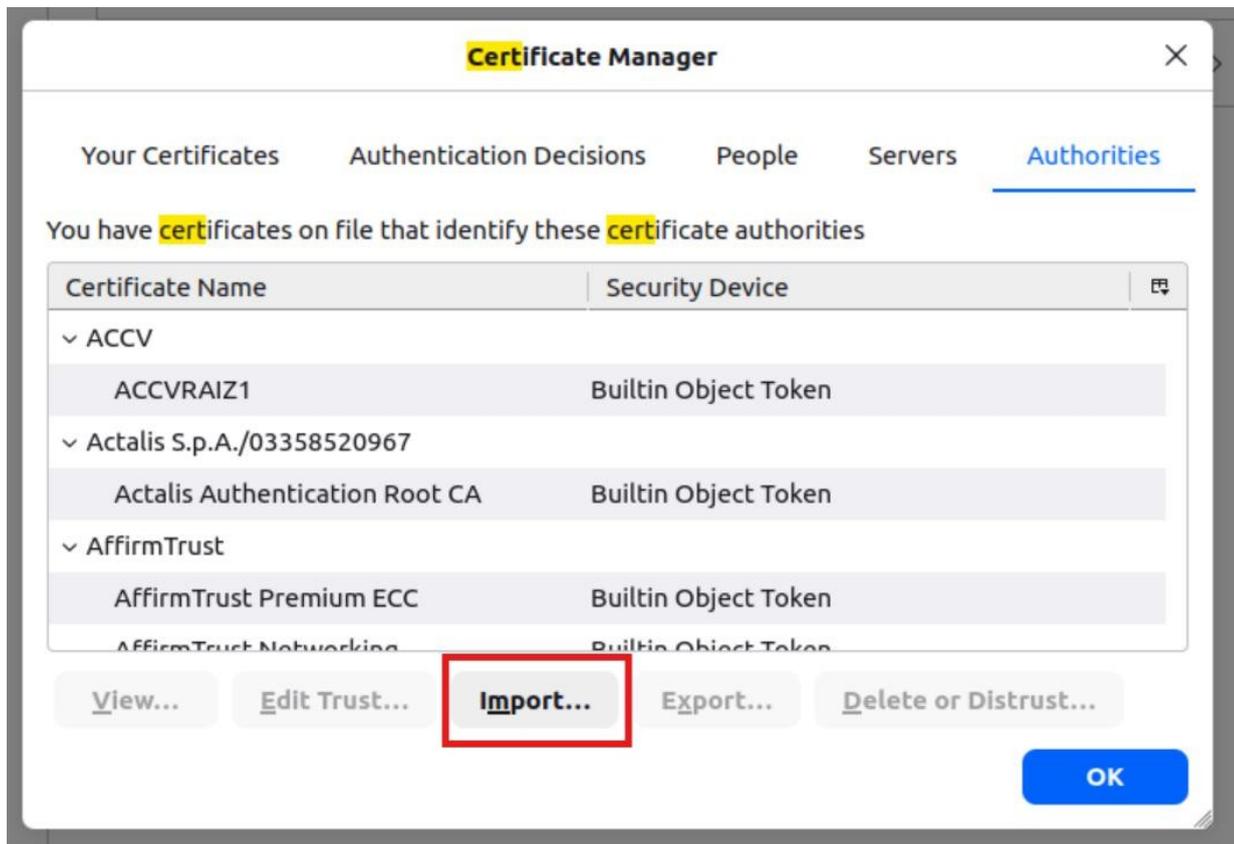
Basic Constraints	
Certificate Authority	Yes

Subject Key ID	

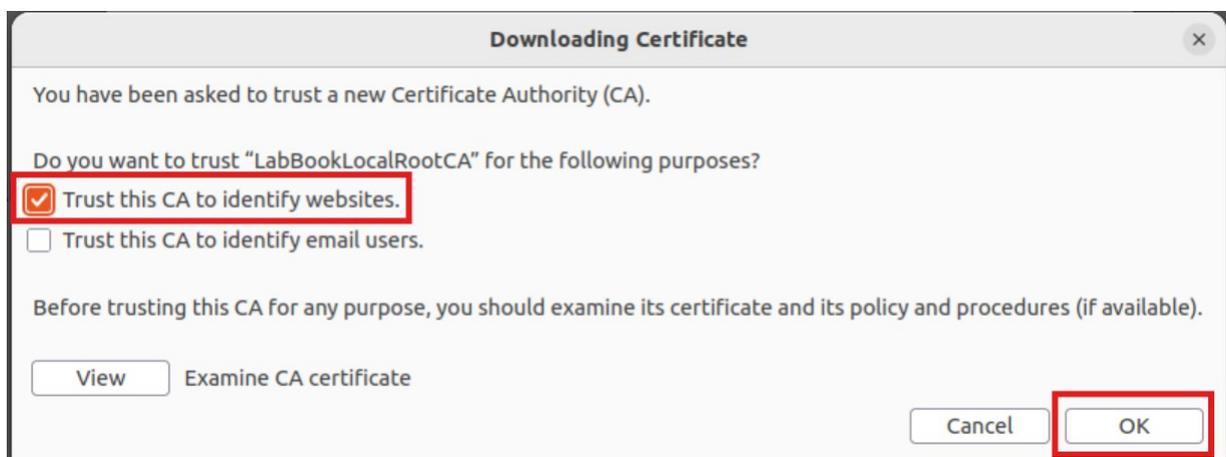
Then go to the browser settings and search for "certificate" in the search bar to find the tab that manages certificates and click on it.

The screenshot shows the Firefox browser interface with the search bar containing the text "cer". The search results are displayed on the right side of the settings page. The results include a section for "Certificates" with a description and a link to "Learn more". Below this, there are two search results: "View Certificates..." and "Security Devices...". The "View Certificates..." result is highlighted with a red box.

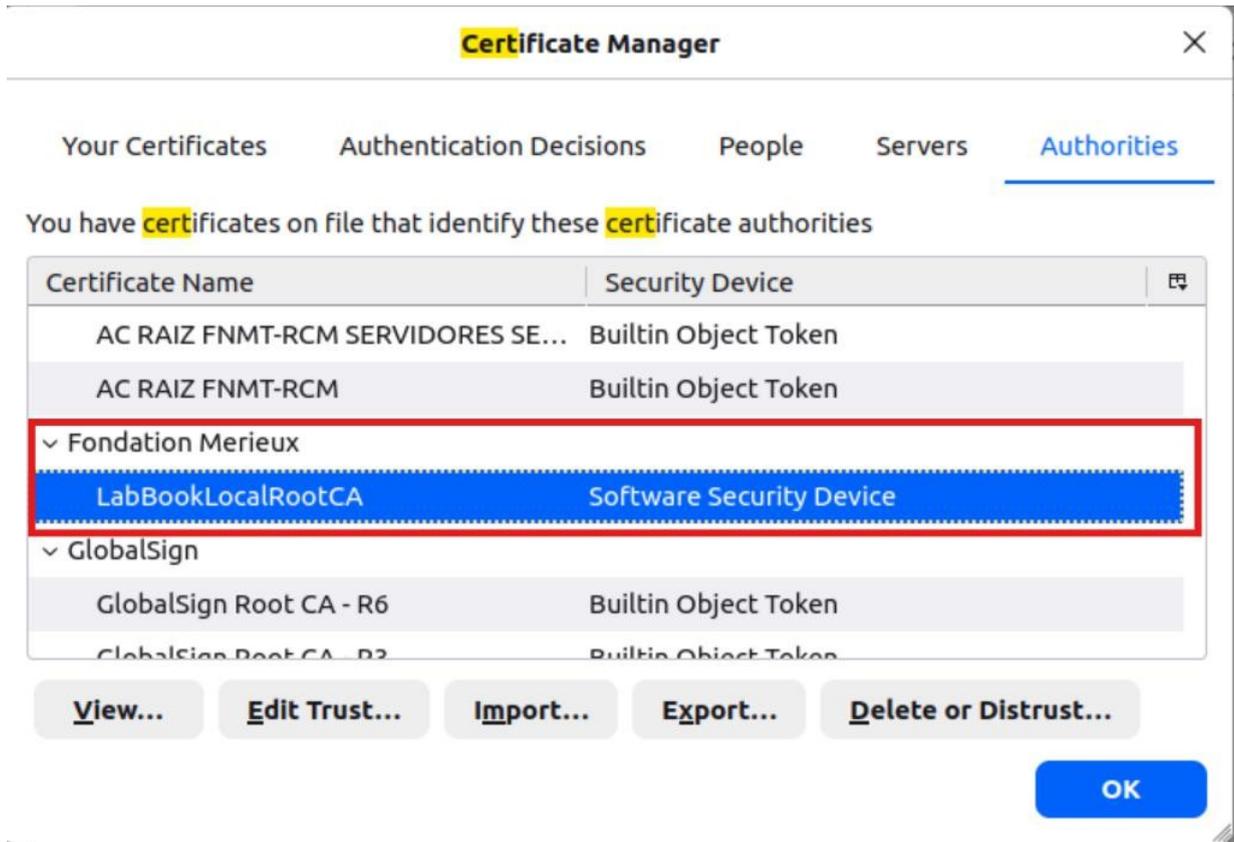
Then click on "import" and browse your PC to select the file you need to import the LabBook certificate.



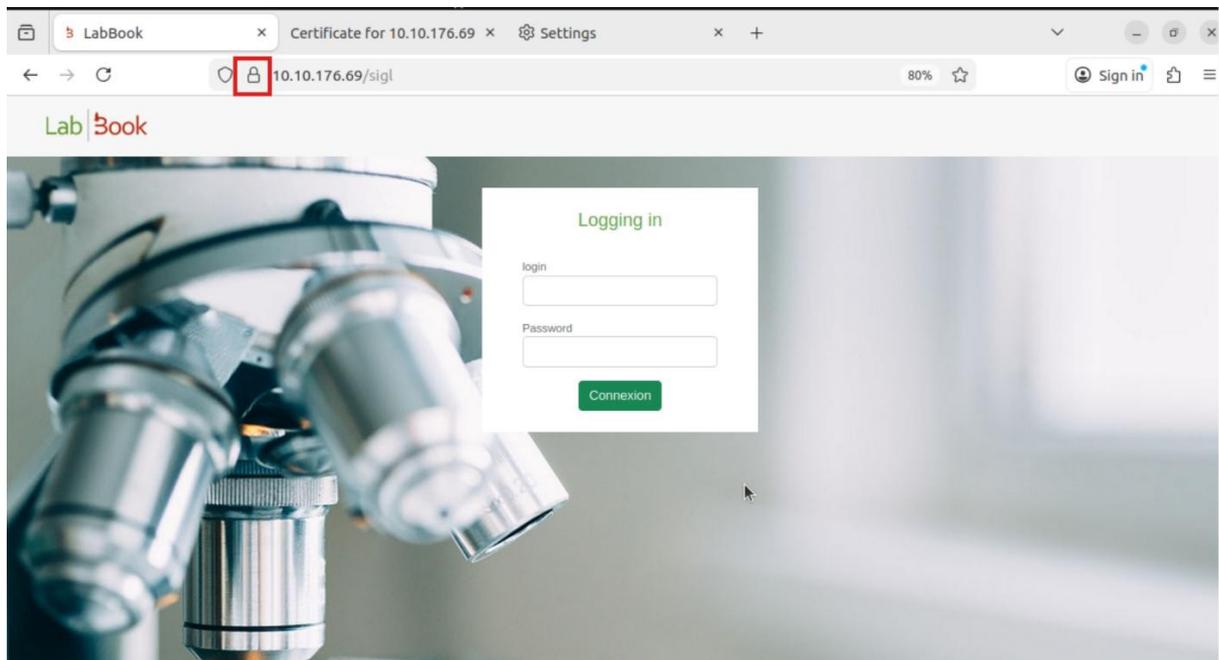
At this point, you're redirected to the "downloading certificate" page, just check the option "Trust this CA to identify websites" option and click OK to register the certificate directly.



The LabBookLocalRootCA certificate has now been added.

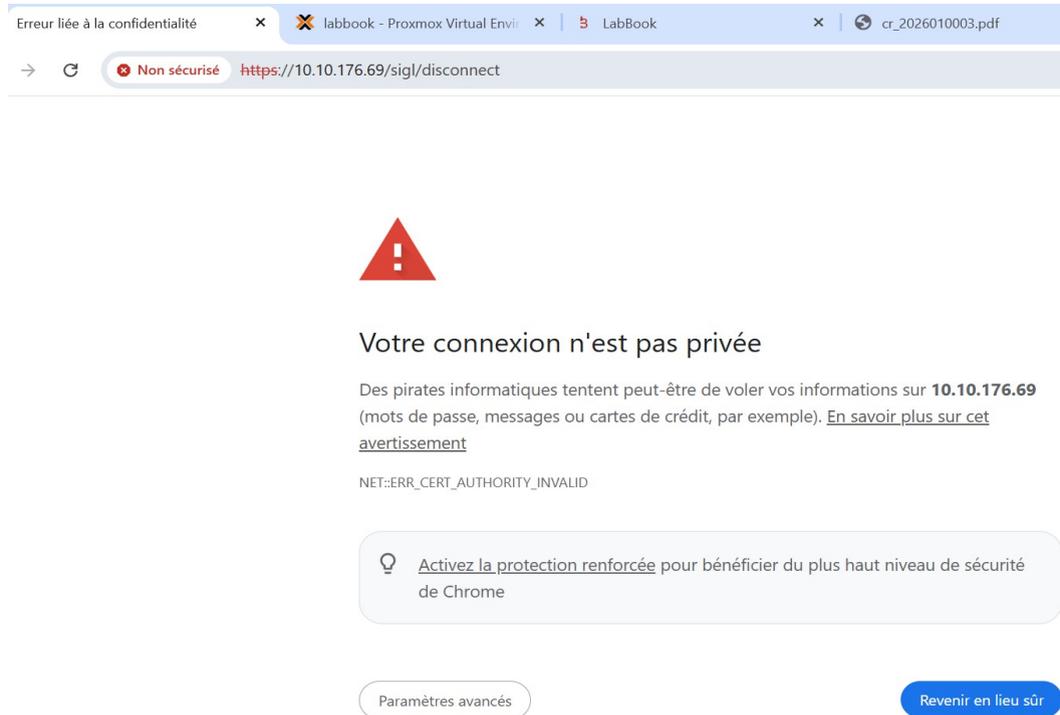


Back on the browser, you'll notice that the security alert and icon have disappeared, and we now have the "padlock" icon.



Installing the certificate on Windows

On Windows, you can also switch from labbook with http to labbook with https (remove the "not secure" label). To do this, you need :



Erreur liée à la confidentialité x labbook - Proxmox Virtual Envir x LabBook x cr_2026010003.pdf

→ ↻ Non sécurisé <https://10.10.176.69/sigl/disconnect>



Votre connexion n'est pas privée

Des pirates informatiques tentent peut-être de voler vos informations sur **10.10.176.69** (mots de passe, messages ou cartes de crédit, par exemple). [En savoir plus sur cet avertissement](#)

NET::ERR_CERT_AUTHORITY_INVALID

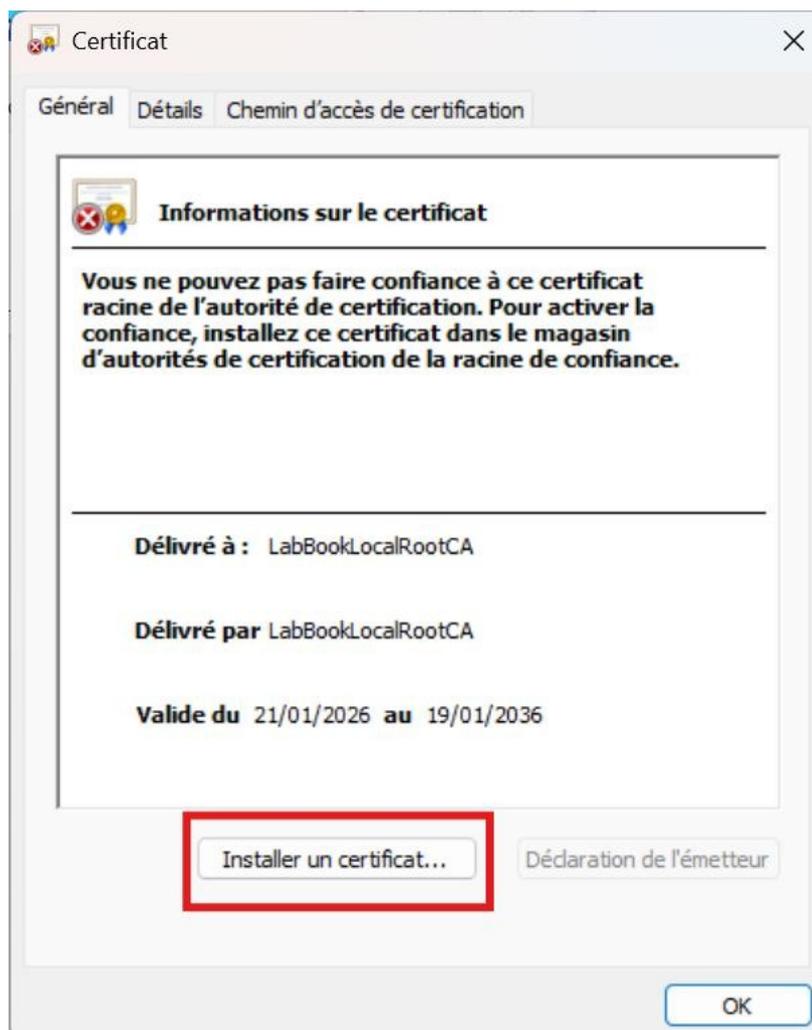
 [Activez la protection renforcée](#) pour bénéficier du plus haut niveau de sécurité de Chrome

[Paramètres avancés](#) [Revenir en lieu sûr](#)

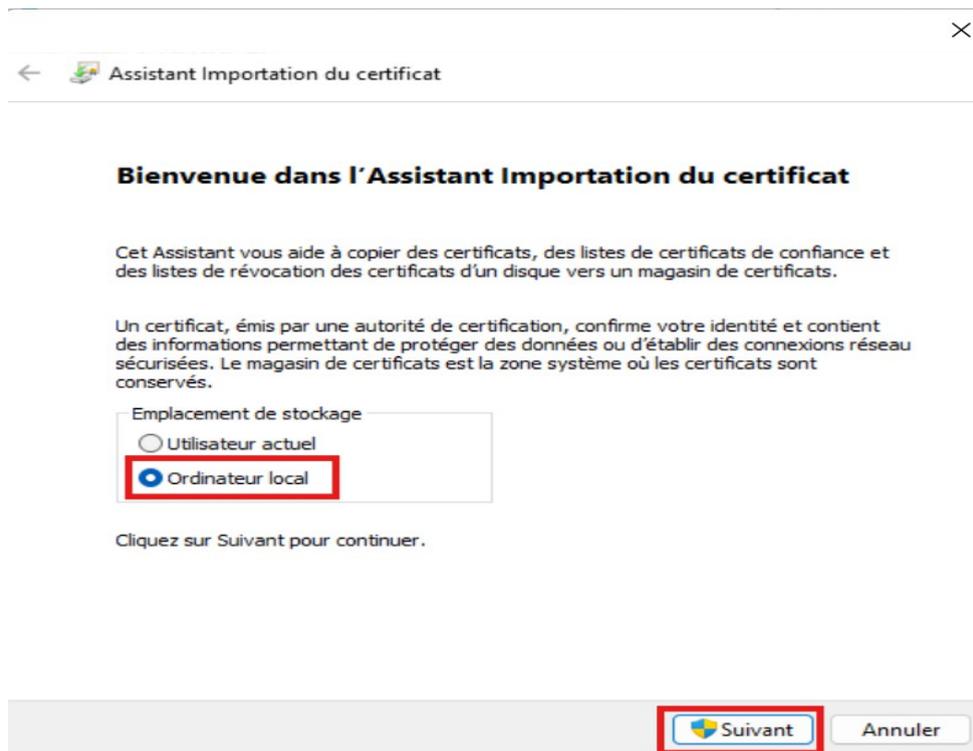
Copy the LabBookLocalRootCA.crt certificate to a directory on your PC, then double-click it.

 Labbook presentation 3.5 et lite et GMAO.pptx	07/01/2026 10:03	Présentation Microso...	13 206 Ko
 LabBookLocalRootCA.crt	21/01/2026 15:30	Certificat de sécurité	3 Ko
 log_db.log	22/10/2025 17:28	Document texte	149 Ko

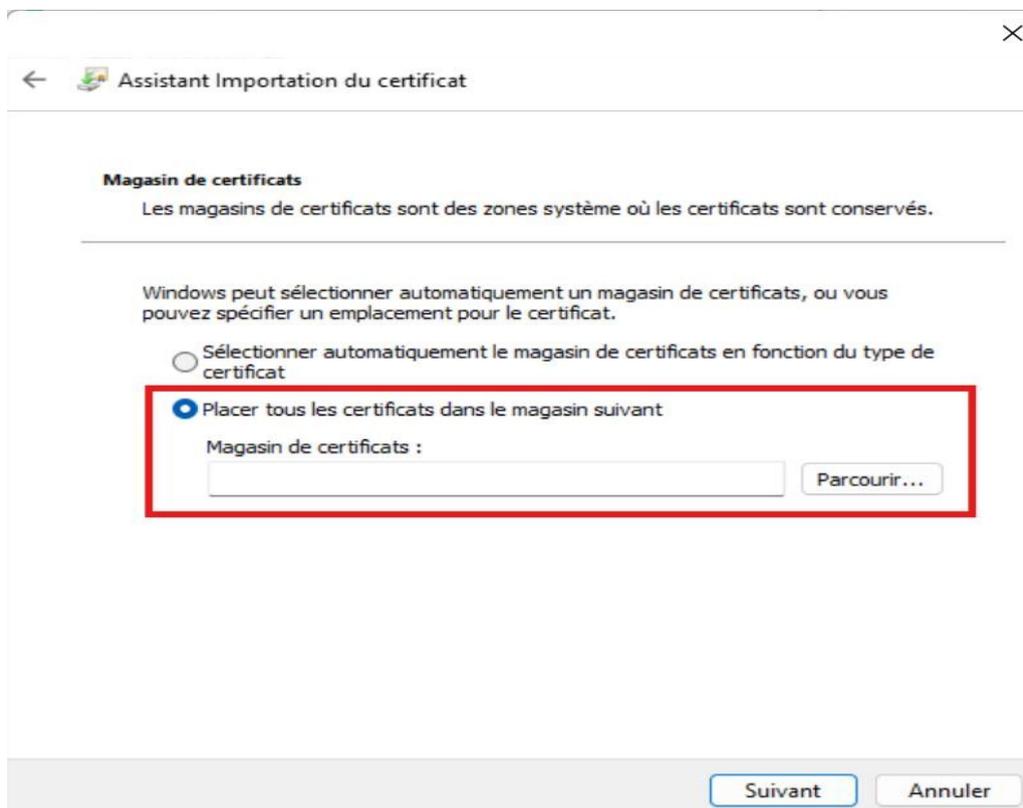
Click on "Install a certificate."



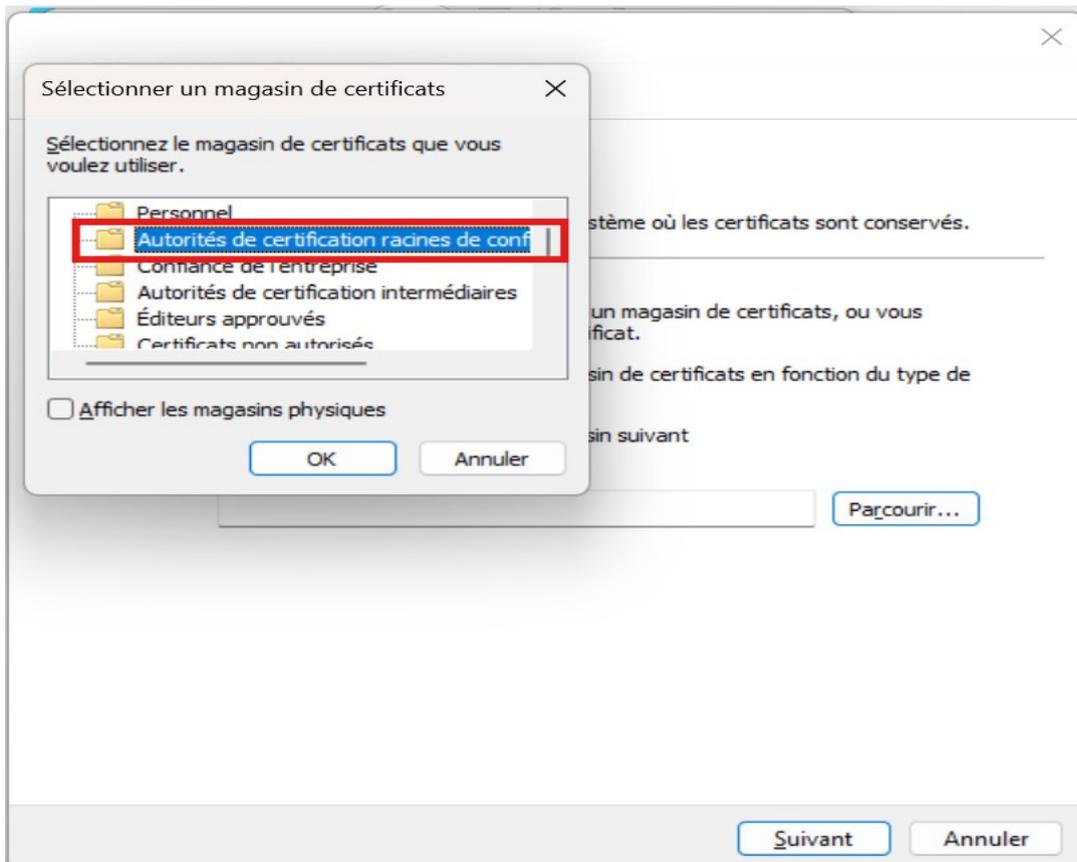
Select the Local computer option.



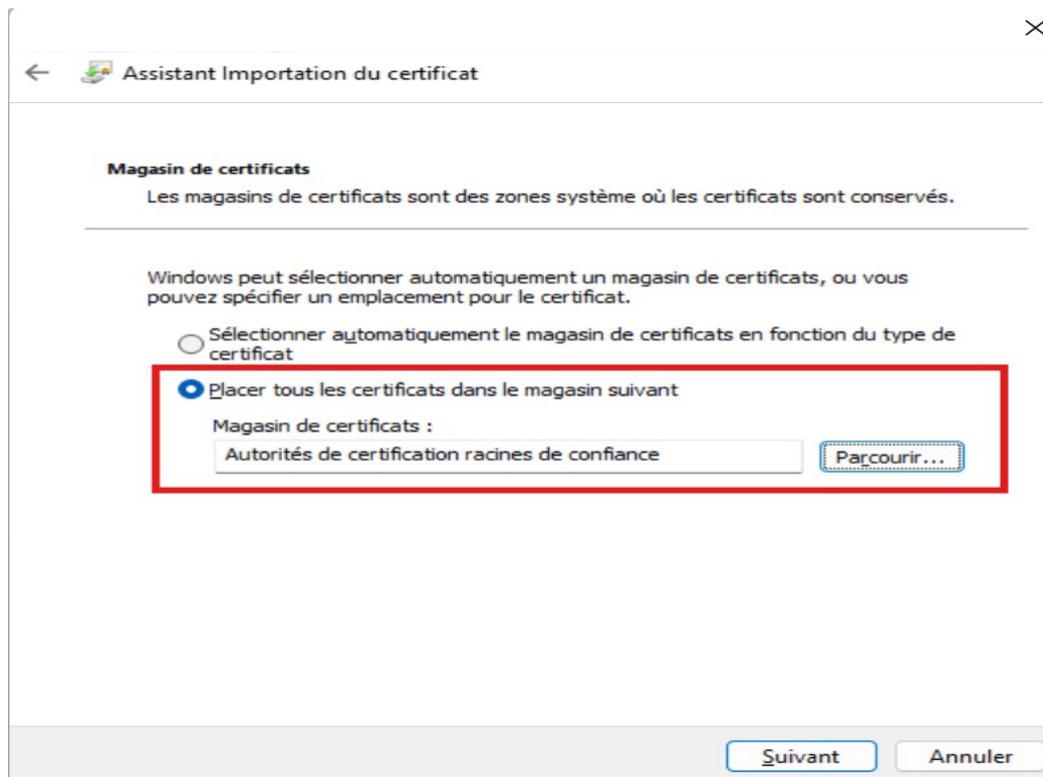
Choose the option Place all certificates in the store.



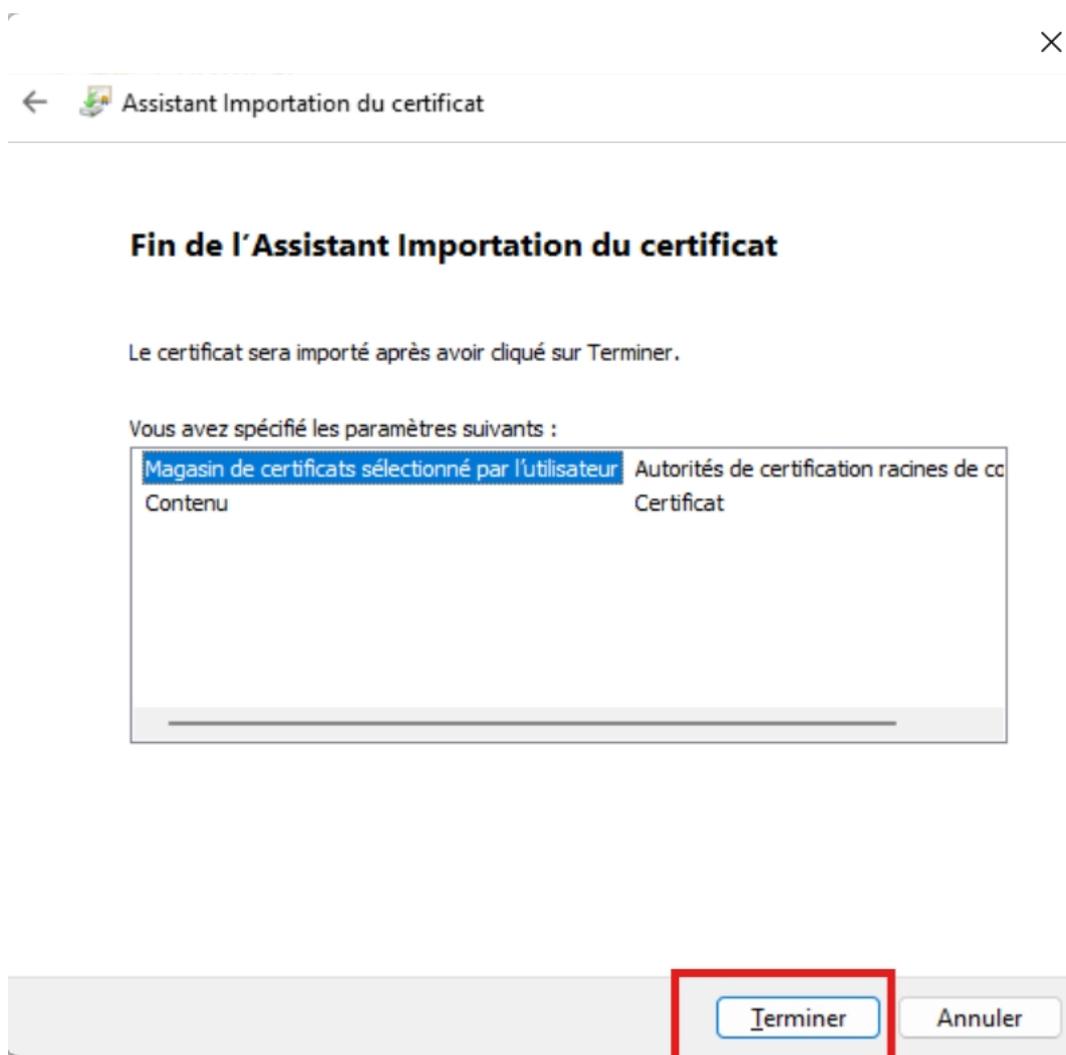
Click on "Browse" and select "Trusted Root Certification Authorities".



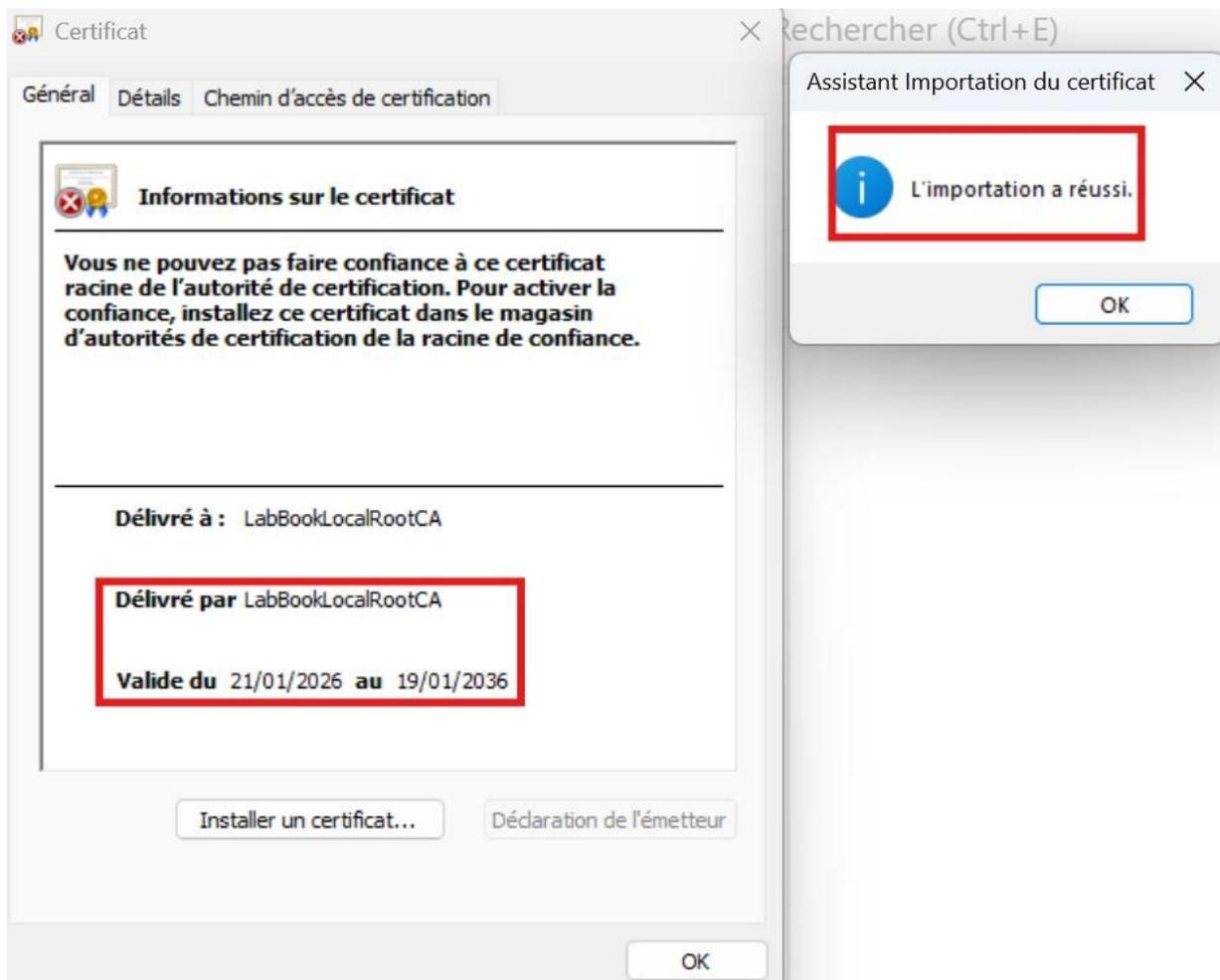
Once you've made your selection, click on "Next".



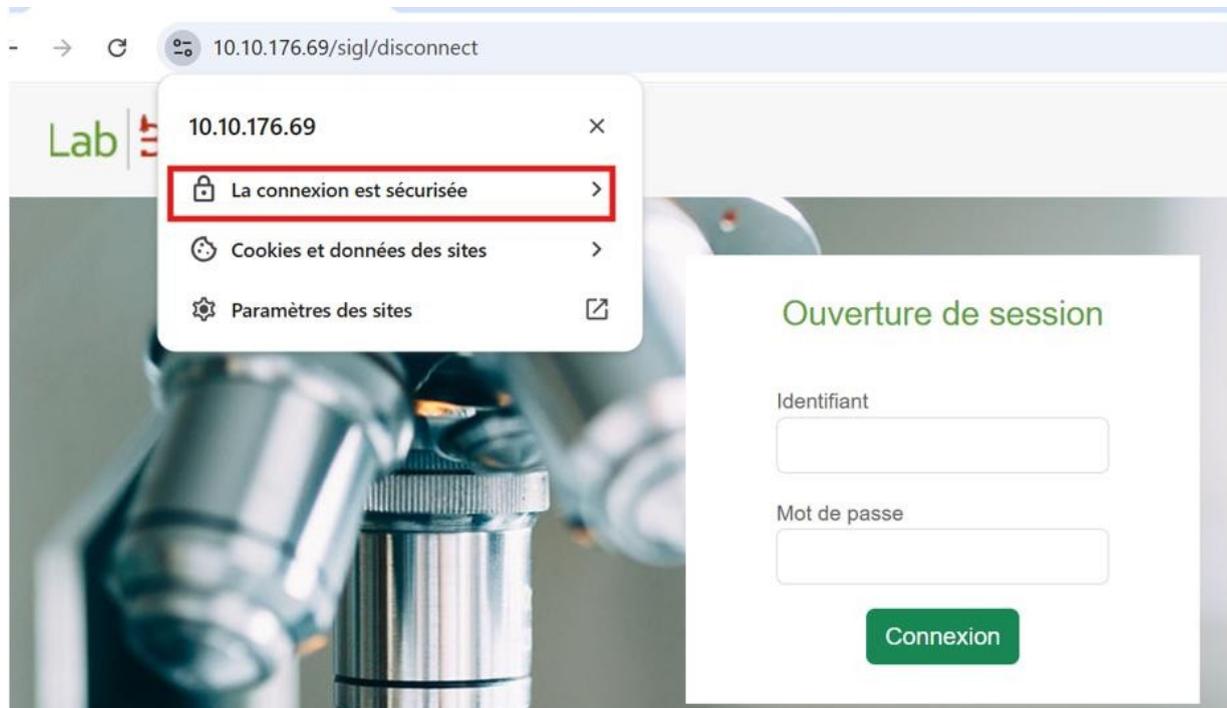
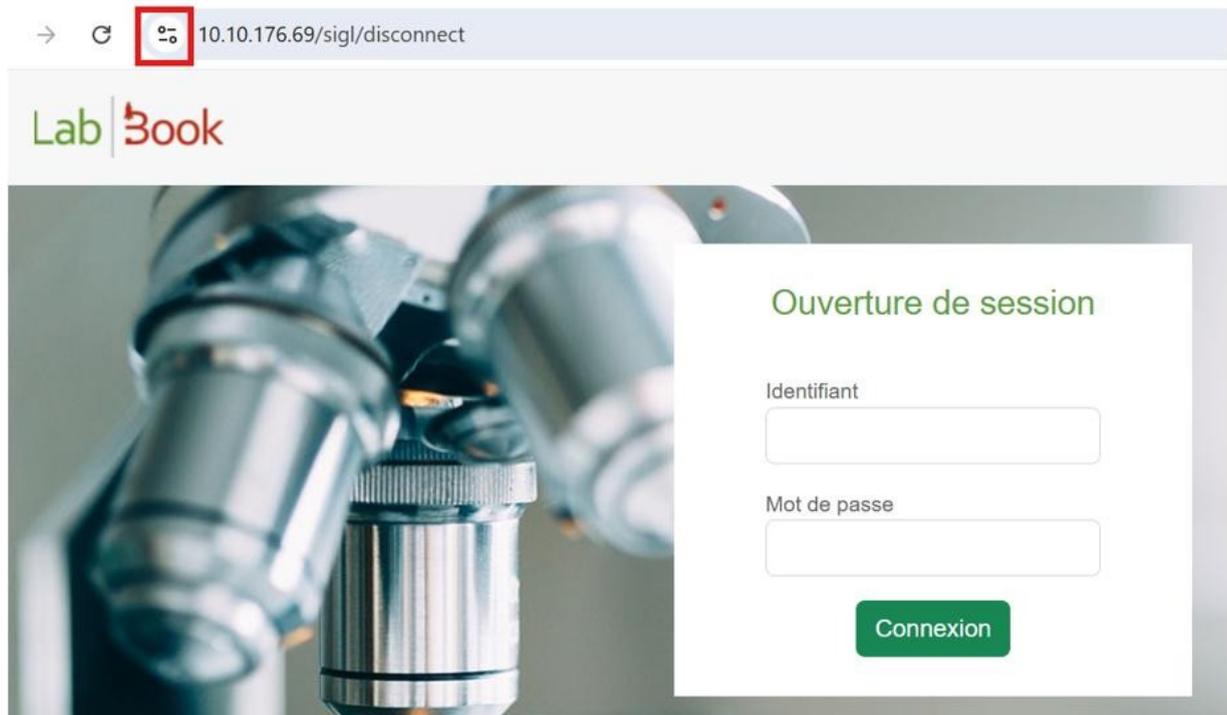
Click on "Finish".

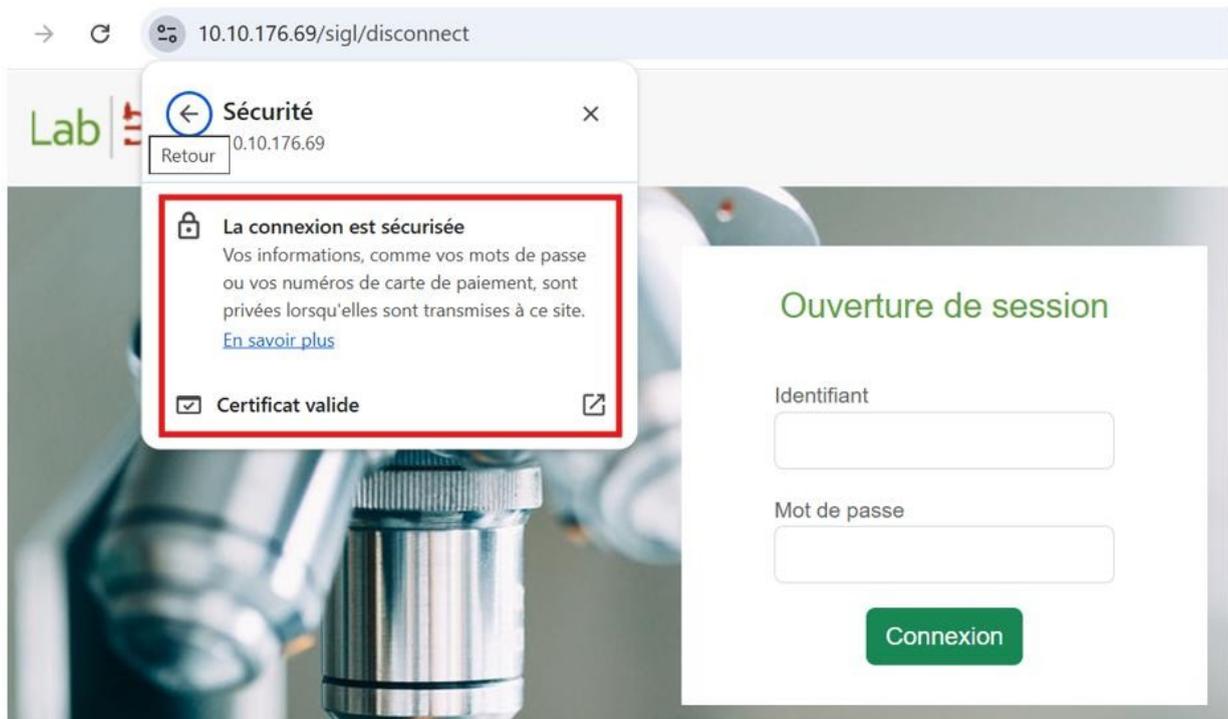


Once you've clicked on Finish, you'll receive an alert saying that the certificate import has been successful.



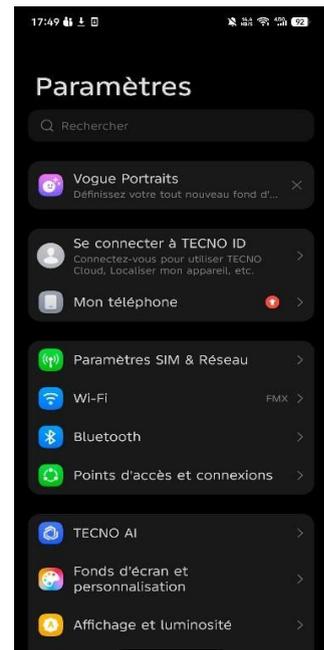
After relaunching the browser, the security message should no longer be present. Note that this procedure integrates the certificate into the entire Windows system.



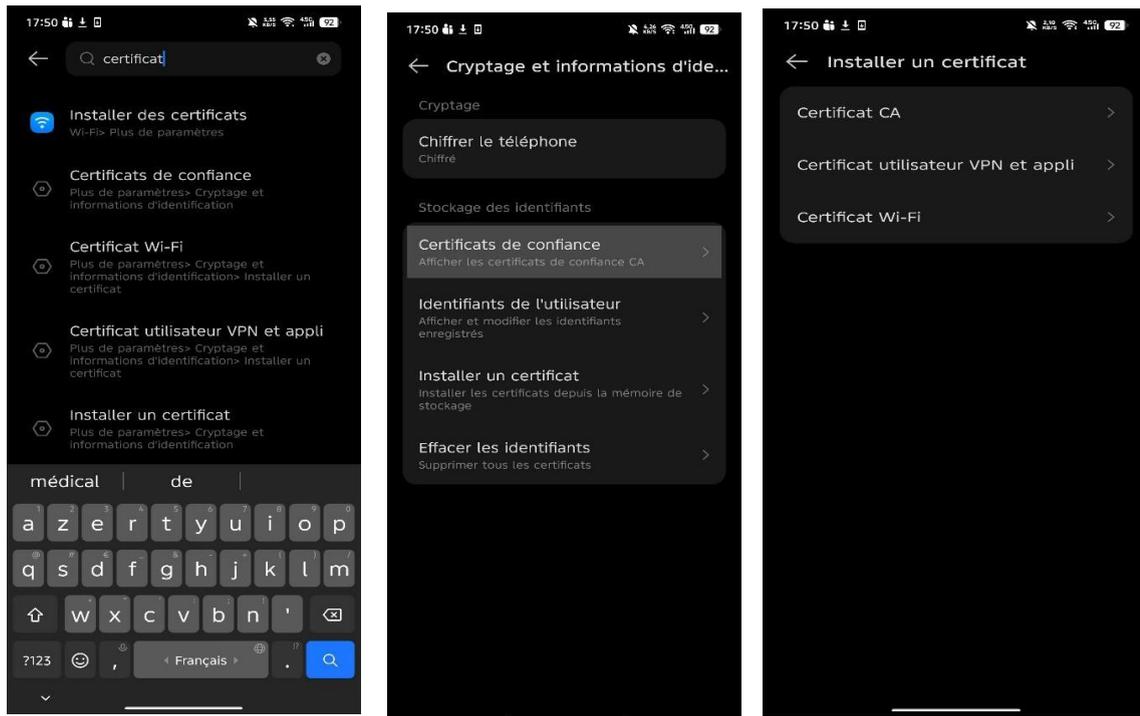


Installing the certificate on LabBook Lite

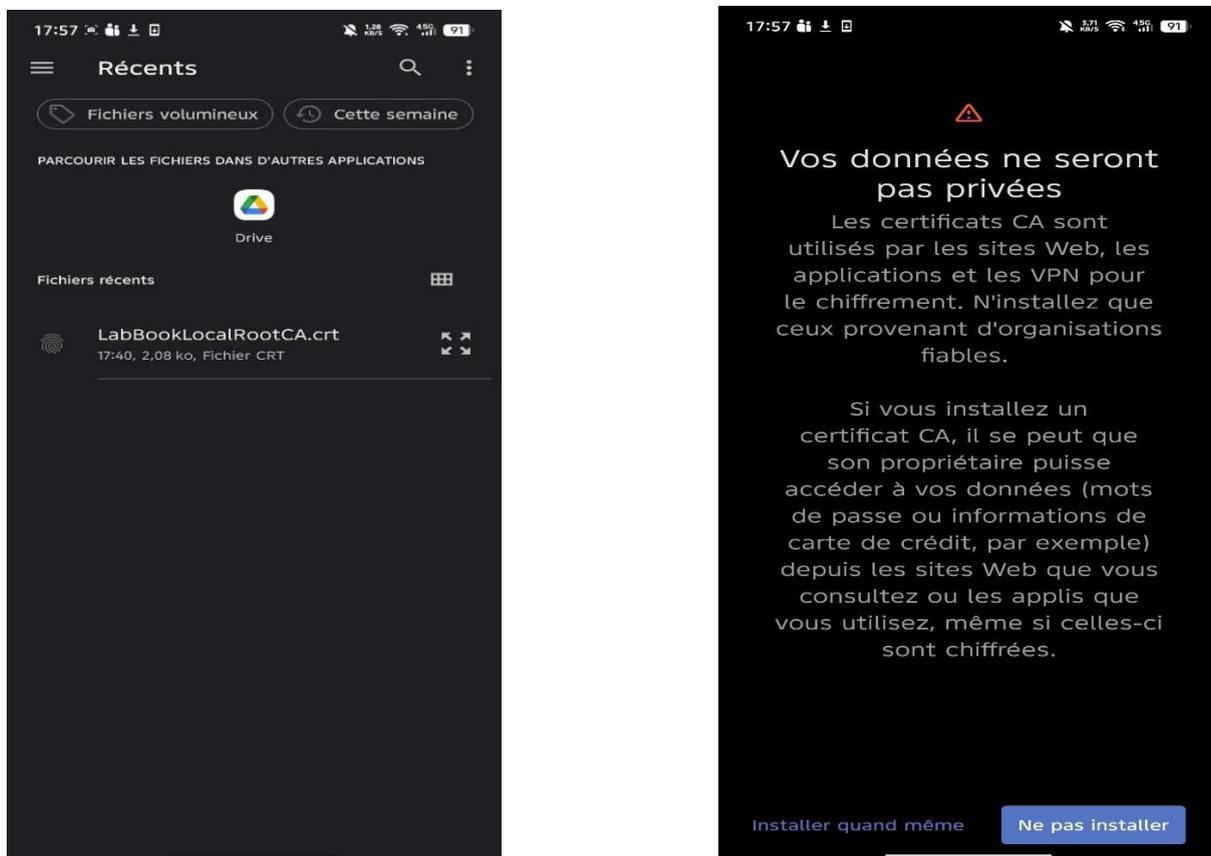
To install the LabBook lite certificate on Android, install LabBook lite and copy the LabBookLocalRootCA.crt file to the Android system. Then go to Settings.



In settings, search for "certificate" in the search bar and click on "trusted certificate", then on "install a certificate". Then click on "CA certificate".



After clicking on "CA certificate you need to browse your Android and select the file "LabBookLocalRootCA.crt" and then click on install anyway.



You can find the newly installed certificate by clicking on "trusted certificates" and then on "user".



Change MySQL database user/password

By default, LabBook is configured to connect to the MySQL database as root. To improve exchange security, you can change the user and/or password by running a specific script called "mysql_change_user.sh".

To do this

- Open a console and log in as LabBook administrator (default sigl)
- Run the new script with the command: "sudo /home/mysql_change_user.sh".

```
sigl@sigl-virtual-machine:~$ sudo /home/mysql_change_user.sh
[sudo] Mot de passe de sigl :
Please enter the new admin user for MySQL:
```

- Enter the new user and password

```
sigl@sigl-virtual-machine:~$ sudo /home/mysql_change_user.sh
[sudo] Mot de passe de sigl :
Please enter the new admin user for MySQL:
labbook
Please enter the new admin password for MySQL:
Passer@123
Stopping Labbook ...
```

- Enter the new user and password

```
sigl@sigl-virtual-machine:~$ sudo /home/mysql_change_user.sh
[sudo] Mot de passe de sigl :
Please enter the new admin user for MySQL:
labbook
Please enter the new admin password for MySQL:
Passer@123
Stopping Labbook ...
```

The new account is created with full rights to the MySQL database, and the root user is deactivated.

```
sigl@sigl-virtual-machine:~$ sudo /home/mysql_change_user.sh
[sudo] Mot de passe de sigl :
Please enter the new admin user for MySQL:
labbook
Please enter the new admin password for MySQL:
Passer@123
Stopping Labbook ...
mysql: [Warning] Using a password on the command line interface can be insecure.
mysql: [Warning] Using a password on the command line interface can be insecure.
Credentials have been changed to: labbook / Passer@123
Restarting Labbook ...
...done
sigl@sigl-virtual-machine:~$
```

The LabBook service is also restarted and containers are created with these new credentials.

```
mysql> show users
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'users
' at line 1
mysql> select User,Host from mysql.user;
+-----+-----+
| User          | Host          |
+-----+-----+
| labbook       | 10.88.%.%    |
| root          | 10.88.%.%    |
| debian-svs-maint | localhost    |
| labbook       | localhost    |
| mysql.introschema | localhost    |
| mysql.session | localhost    |
| mysql.sys     | localhost    |
| root          | localhost    |
+-----+-----+
8 rows in set (0,00 sec)
```

NB: You can run the script as many times as you like: the first time, root/root credentials are blocked; subsequent times, the old credentials are simply deleted.

5. Updating LabBook

To update your LabBook software, you need :

→ Update files

Updates are available on the LabBook website: <https://www.lab-book.org/telechargements/>.

They are numbered, dated and their sizes are also indicated.

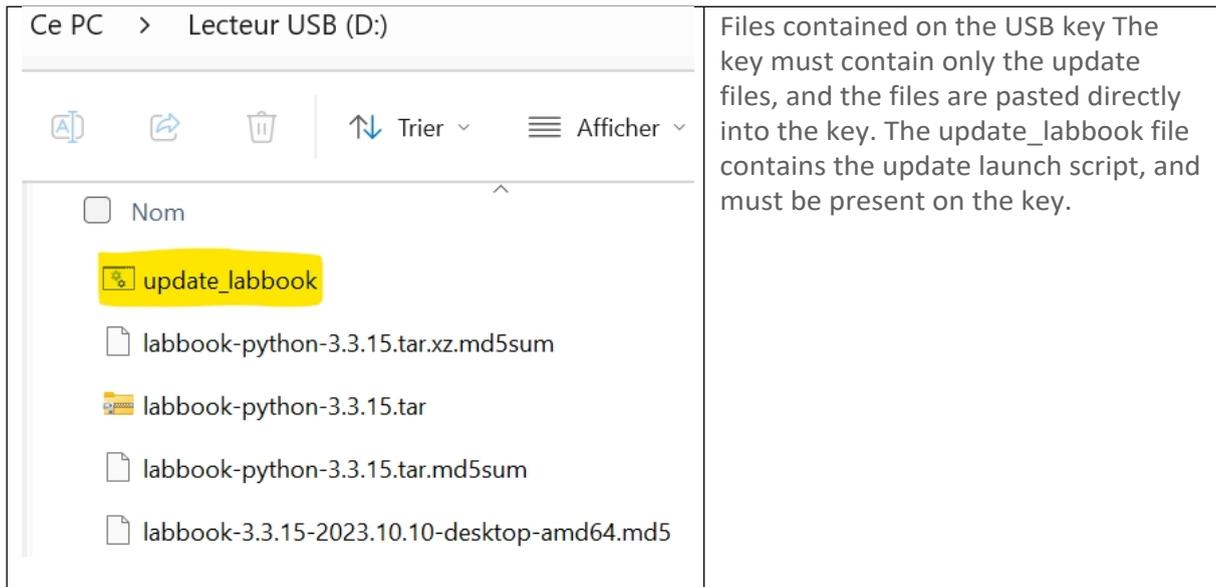


	3.3.15 indicates a LabBook 3.3.15 update. NB: the version of the update is always higher than the version of the installed LabBook.
	Update indicates that this is the update. Unlike Ubuntu, which indicates the LabBook image to be installed.
	693 Mb specifies the size of the update. This information helps you choose the size of the USB key to use for the update.

→ Have a USB key that can contain the update files. → Copy the update files to the USB key

The update is downloaded in zip format, so you need to extract the files from the zipped document and copy the contents directly onto the key.

 labbook-3.3.15-2023.10.10-mises-a-jour	Update downloaded from the LabBook website
 labbook-python-3.3.15.tar.xz.md5sum	Contents of file after extraction
 labbook-python-3.3.15.tar	
 labbook-python-3.3.15.tar.md5sum	
 labbook-3.3.15-2023.10.10-desktop-amd64.md5	



- Log in with SIGL Admin account
- Insert the key into one of the available USB slots on your LabBook.

NB: Only one update key can be connected at a time.

- Check that all update files are present

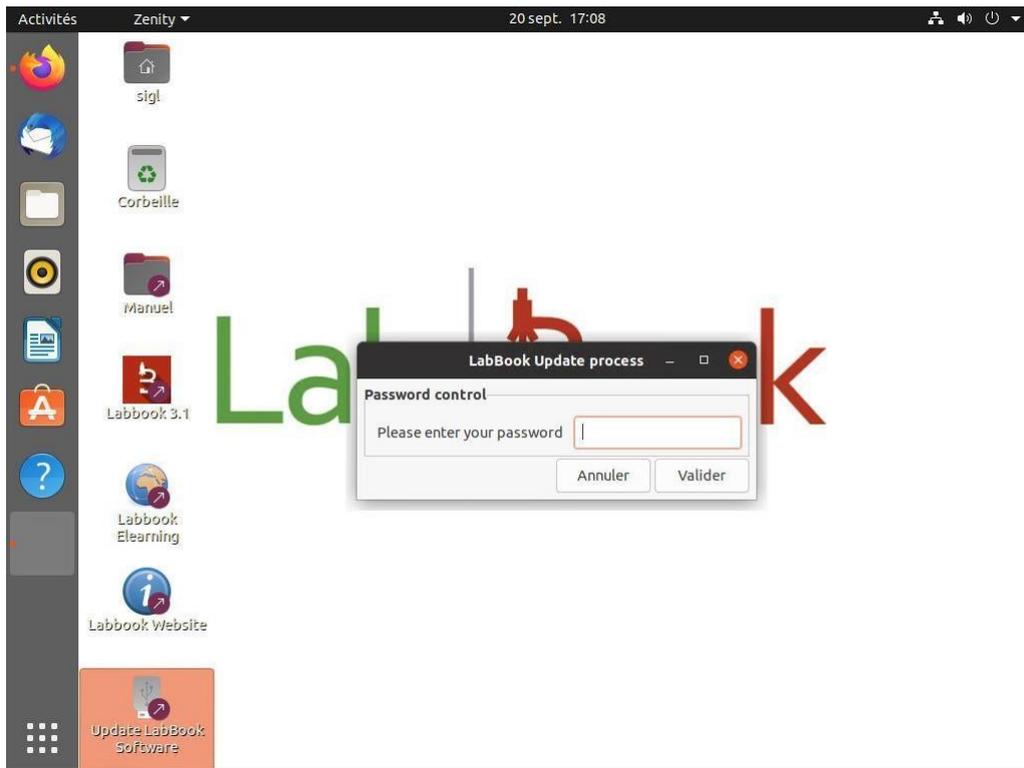
NB: delete folders and files. Here, for example, you need to delete the "System Volume Information" folder.



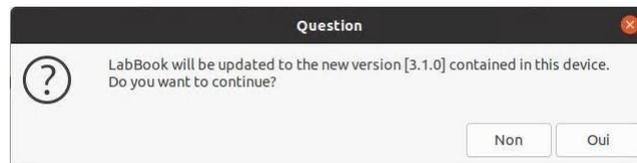
- Double-click on the "Update LabBook Software" icon

The process starts and asks for the password of the user who must have "administrator" rights to be able to perform the update.





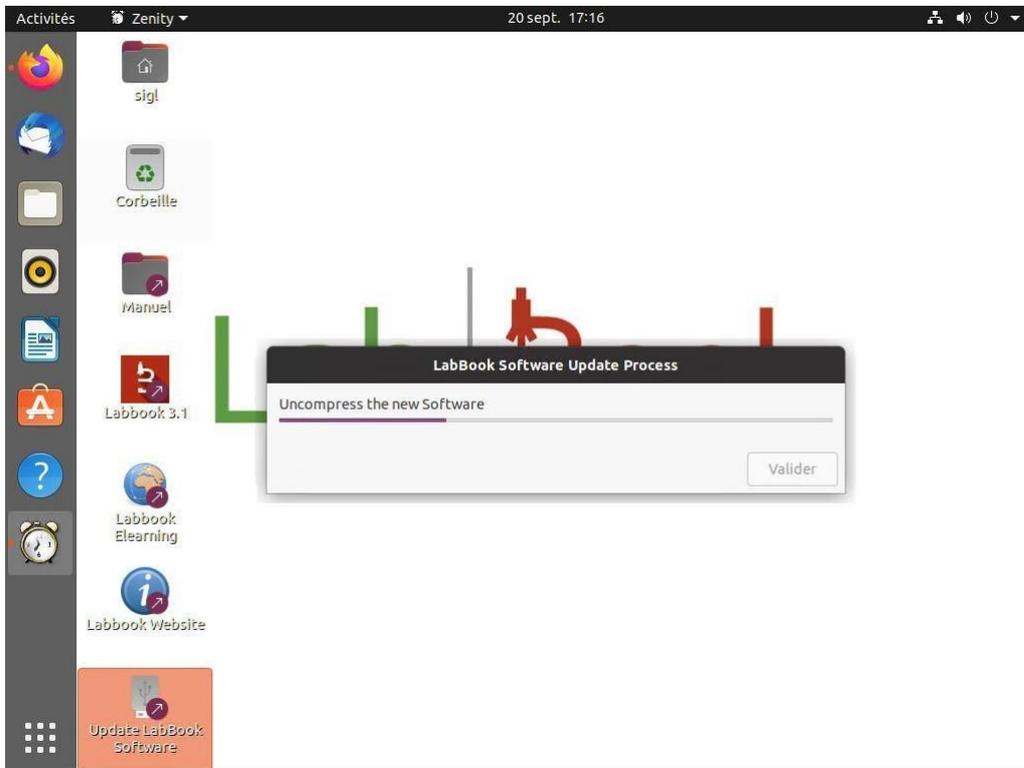
Once the CDM has been entered and checked, confirmation of the procedure is requested.



It is possible to abort the procedure at this point, and no further action is taken.

Click on "YES" to continue the process. Consistency checks are then carried out (software validity check, key check, etc.), and the update is carried out. Several steps follow in quick succession, and the process cannot be interrupted by the user. Here's one of them:

At the end of the process, a message indicates that LabBook has been updated and is now running with the new software.



6. LabBook user guides

To access the user guides, double-click on the "Manual" shortcut on the desktop, then choose your preferred language (French or English).

Fondation Mérieux

Fighting infectious diseases since 1967

www.fondation-merieux.org