



Fondation  
Mérieux

LabBook v3.6

# Software networking

V1

April 2025

Fondation **Mérieux**

Lutte contre les maladies infectieuses depuis 1967

[www.fondation-merieux.org](http://www.fondation-merieux.org)



## Table of contents

Foreword .....	2
Tools and hardware required .....	2
Setting the IP address.....	5
Setting the server IP .....	5
Client/server architecture .....	5
Client machine configuration .....	6

## Foreword

This manual shows you how to network your LabBook software, i.e. how to connect your LabBook machine to other machine(s).

It's important to know that LabBook doesn't need the Internet to work, and you can work with the software without a network connection (single-user architecture). Here, we'll look at using LabBook on an intranet.

## Tools and hardware required

When you want to network a LabBook machine, we talk about Client/Server architecture. This means you need a server machine and one or more client machines.

As a reminder: LabBook is installed on a Linux system (Ubuntu), a system renowned for its high level of security, and the client machines can be Windows or other systems.

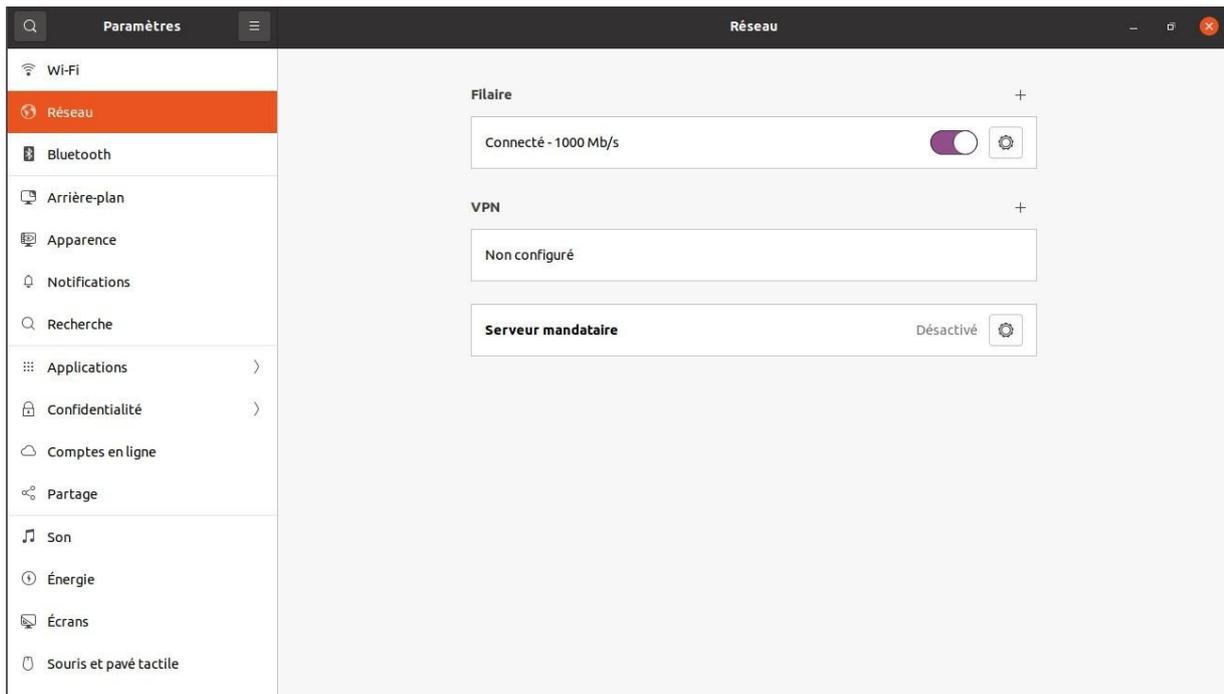
Once LabBook is installed on the server, you'll need to identify the machine's IP address. Here are two ways of doing this:

### Method 1: Graphical mode

Click on "Activities"  (top left menu); and on the search bar type "settings".



Click on the "Settings" icon. And click on the "Network" section on the left.



On the right-hand side of this interface, click on "Wired":



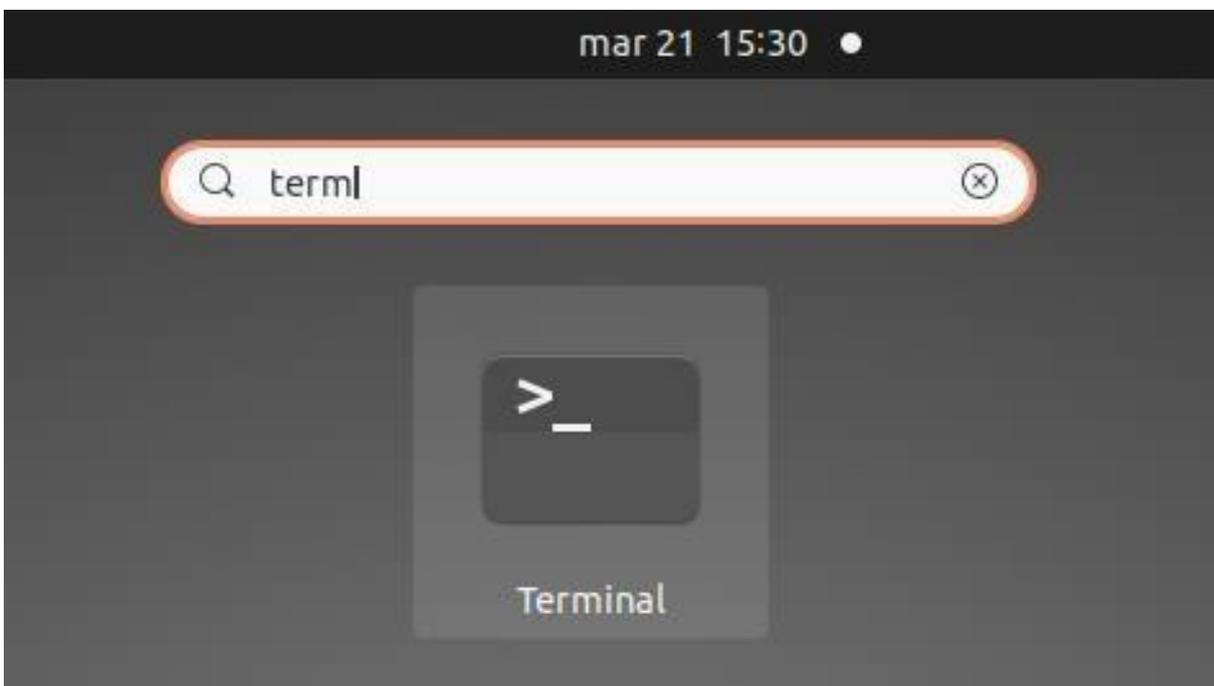
Click on this button to see the connection parameters (on the far right) and you'll arrive at this interface:



Here you have the IPv4 address  
address of your network interface

## Method 2: Console mode

You can also obtain your network's IP address from the command line. Open a terminal:



Then type the command: ifconfig

```

user_labbook@sigl-TravelMate-P253:~$ ifconfig
cni-podman0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 10.88.0.1 netmask 255.255.0.0 broadcast 10.88.255.255
  inet6 fe80::5022:c5ff:fe2b:43c7 prefixlen 64 scopeid 0x20<link>
  ether 52:22:c5:2b:43:c7 txqueuelen 1000 (Ethernet)
  RX packets 2348 bytes 3007193 (3.0 MB)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 2925 bytes 589964 (589.9 KB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp2s0f0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
  inet 192.168.88.2 netmask 255.255.255.0 broadcast 192.168.88.255
  inet6 fe80::1712:41d:193:546d prefixlen 64 scopeid 0x20<link>
  ether 20:89:84:7c:c2:88 txqueuelen 1000 (Ethernet)
  RX packets 576 bytes 58061 (58.0 KB)
  RX errors 0 dropped 0 overruns 0 frame 0
  TX packets 645 bytes 77307 (77.3 KB)
  TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
  device interrupt 16

```

Here you'll find details of your network interface and IP address.

## IP address configuration

In this manual, we use a dynamic IP address (DHCP), i.e. an address that changes automatically (each time the router or server is rebooted or the network port is changed).

With this dynamic option, if after a while you are unable to access the server's IP address, you should check the new IP address using one of the two methods listed above.

## Set server IP

You can also fix the server's IP address by contacting the system administrator.

The version of Ubuntu 20.04 LTS on which LabBook is currently installed uses the new "netplan" network manager, and the official configuration steps are described here: <https://doc.ubuntu-fr.org/netplan> . Once you've finished setting the server IP, you can return to the address verification step to validate the change, and your address will no longer change automatically.

## Client/server architecture description

Client/server architecture looks like the following image:



The hardware required is :

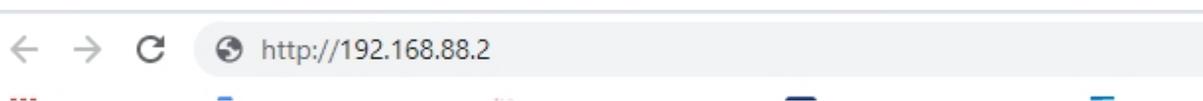
- A server machine: this is where LabBook is installed
- One or more client machines: on the image, we have 2 machines as an example.
- A router or switch: as required. Here, for example, we have a wifi router.
- RJ45 Ethernet cable to link the computers via the router or switch.

## Client machine configuration

Next, on your client machine, you'll need a web browser like Google Chrome or Mozilla Firefox.

On the address bar, type: `http://l'adresse_ip_du_serveur_LabBook` (you change

" L'adresse\_ip\_du\_serveur\_LabBook by the IP of your server LabBook. For example `http://192.168.88.2`).





Fondation Mérieux

Fighting infectious diseases since 1967

[www.fondation-merieux.org](http://www.fondation-merieux.org)

