**Lab 1 – Start and configure your Pi**

# Goal :

* Mounting the Pi
* Install and configure the Raspberry Pi 4.
* Install Raspberry Pi OS
* Configure your network for remote access to the Raspberry Pi.
* Using VNC to access your Raspberry Pi from your PC

# Exercise 1. Mount your pi.

1. If your board has an enclosure, make sure you mount it correctly. You can get help by looking for tutorials or videos to guide you.
2. Be careful when handling your card, the electrical circuits are very fragile. You must be careful not to touch it.
3. Connect your system to a monitor with a keyboard and mouse in order to use it.

# Exercise 2. Install and configure your Raspberry Pi 4

1. Start your system and with this tutorial, configure your card:
   1. <https://www.raspberrypi.com/documentation/computers/getting-started.html#installing-the-operating-system>

# Exercice 2. Configuring your system to the network

Connect your Raspberry Pi and configure your network.

1. You have several options, choose one, or test out many.
   1. Use a PC or laptop as an access point. Raspberry Pi (Wifi) <=> PC (Wifi) [https://support.microsoft.com/fr-fr/windows/utiliser-votre-pc-comme-point-d-acc](https://support.microsoft.com/fr-fr/windows/utiliser-votre-pc-comme-point-d-acc%C3%A8s-sans-fil-mobile-c89b0fad-72d5-41e8-f7ea-406ad9036b85)

[%C3%A8s-sans-fil-mobile-c89b0fad-72d5-41e8-f7ea-406ad9036b85](https://support.microsoft.com/fr-fr/windows/utiliser-votre-pc-comme-point-d-acc%C3%A8s-sans-fil-mobile-c89b0fad-72d5-41e8-f7ea-406ad9036b85)

* 1. Connect your Raspberry with an ethernet cable. Raspberry Pi (RJ45) <=> PC (RJ45) <https://www.monnit.com/support/knowledgebase/gateways/sharing-your-windows-10-pc-internet-connection-with-an-ethernet-gateway/>
  2. Connect your Raspberry Pi to an Accesss Point. Raspberry Pi (Wifi) <=>Access Point <=> PC (Wifi)

https://[www.raspberrypi.org/documentation/configuration/w ireless/desktop.md](http://www.raspberrypi.org/documentation/configuration/w%20ireless/desktop.md)

# Exercice 3. Utilisation de VNC pour accéder au Raspberry Pi via votre PC

1. Il n’est pas nécessaire d’avoir une écran/clavier/souris connecté à votre Raspberry Pi toujours. Le but à la fin de l’exercice est de permettre l’utilisation de la carte sans avoir à utiliser un écran, un clavier et un souris.
2. Configurez VNC pour permettre l’utilisation à distance de votre Raspberry Pi [https://www.clubic.com/ordinateur-pc/mini-pc/article-850496-1-connecter-distance-](https://www.clubic.com/ordinateur-pc/mini-pc/article-850496-1-connecter-distance-raspberry-pi-vnc.html) [raspberry-pi-vnc.html](https://www.clubic.com/ordinateur-pc/mini-pc/article-850496-1-connecter-distance-raspberry-pi-vnc.html)

Présentez votre travail au Professeur