



## Report S1.03

TP Install Party For the 22/09/2022

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BASOL Nathan LEDERREY Lussandre INFO1A2 The goal of this tutorial will be to install Ubuntu on a Virtual Machine It's divided into 3 sections :

- 1) Download and install VirtualBox
- 2) Create the Virtual Machine
- 3) Start and use it

## 1) Download and install VirtualBox

Go on <a href="https://www.virtualbox.org/wiki/Downloads">https://www.virtualbox.org/wiki/Downloads</a> and click on Windows hosts (the version number may differ of what you see on the screenshot)



- Install the downloaded file by following the steps of the wizard
- Go to <a href="https://ubuntu.com/download/desktop">https://ubuntu.com/download/desktop</a> and click on the green Download button (here again, the version may differ). It may take some time, so go drink some coffee



## 2) Create the Virtual Machine

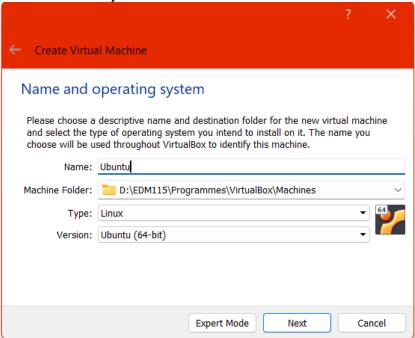
Launch VirtualBox as Administrator



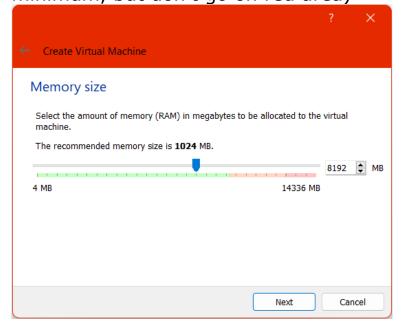
At the top, click on the blue New button

• Give a name to your virtual machine (you can set it to anything, but choosing Ubuntu will automatically set the type

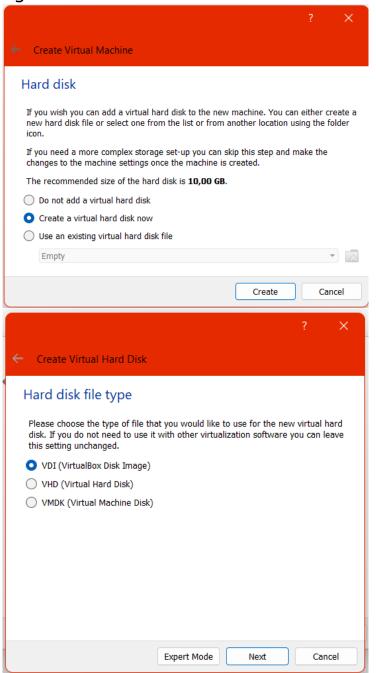
and version)

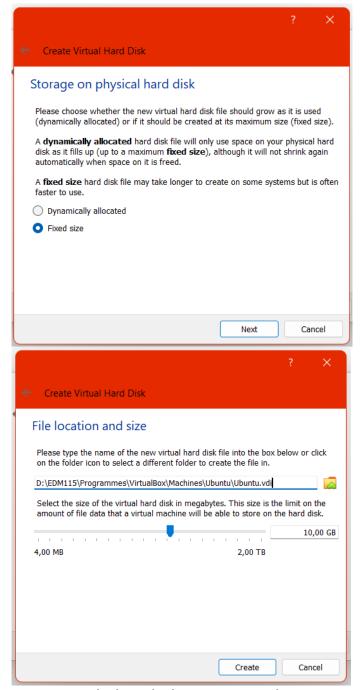


• Give a correct amount of RAM to your machine (1 Gb minimum, but don't go on red area)



 Keep Create a virtual hard disk now and click on Create. Keep it VDI. Then, go on Fixed size, and choose a correct size for the virtual disk (15-25 Gb is a fair value). Click again on Create

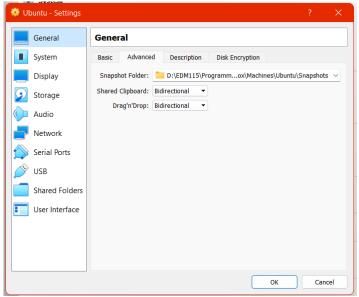




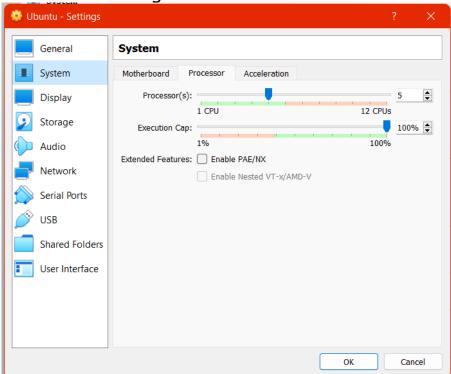
· Wait until the disk is created



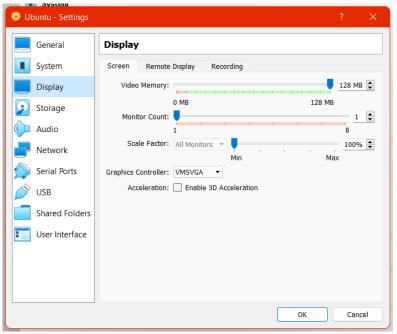
- Once it's done, click on the orange Settings button Settings
- On General → Advanced, make both Shared Clipboard and Drag'n'Drop Bidirectional



 On System → Processor, allocate more Processors to the machine. Don't go on read area!!

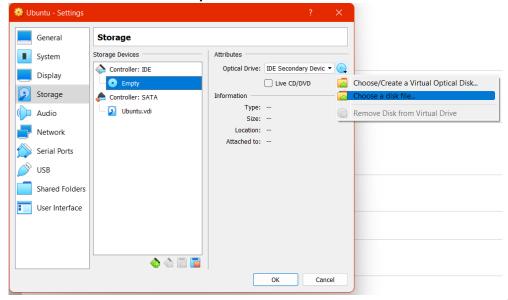


 On Display → Screen, put the Video Memory to the maximum (128 Mb)



 And for the sake of God, make sure that 3D Acceleration is <u>DISABLED</u> !! Else, you will end up with a Kernel Panic error and a glitchy screen (and no one wants that)

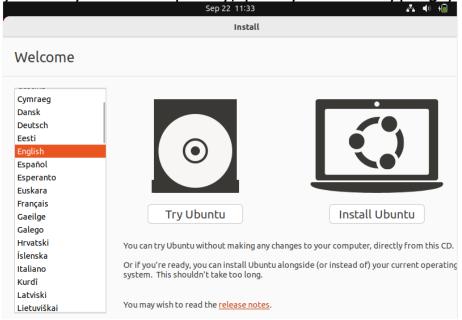
 Finally, go on Storage. Click on Empty, then the Disk logo after Optical Drive, and click Choose a disk file. Select the .iso of Ubuntu you downloaded before

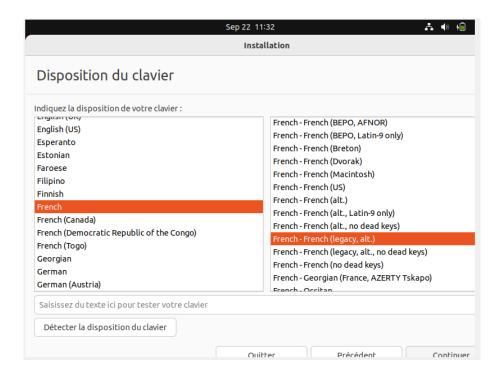


• Now click Ok, then click on the green Start button start (no the dropdown arrow)

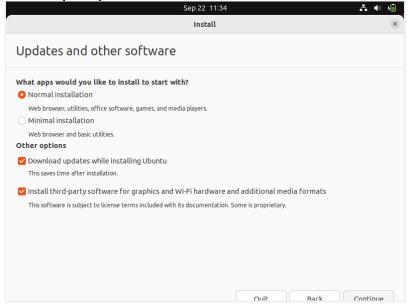
## 3) Start and use it

 Click on Install Ubuntu, then choose French and in the second row French-French (legacy, alt.) (else you'll have your keyboard in qwerty, pretty bad for typing your password)

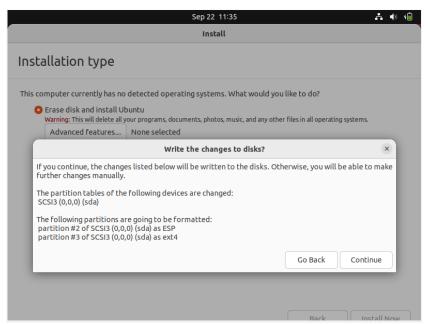




 Tick the last checkbox to install additional drivers which will help you to connect easily to networks and handle correctly some peripherals



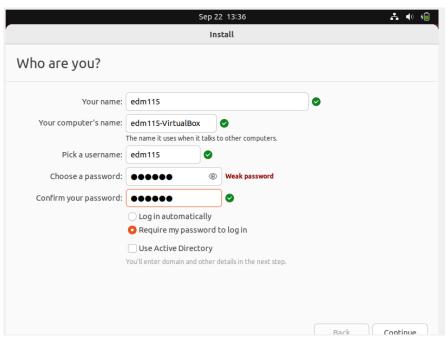
 Keep Erase disk enabled and click on Install Now, then Continue



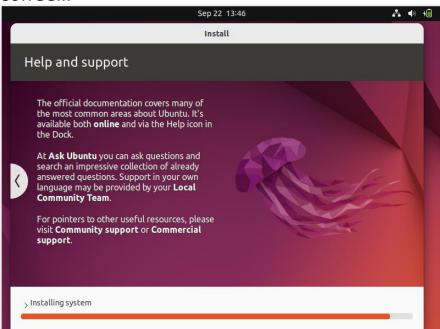
• Select your time zone



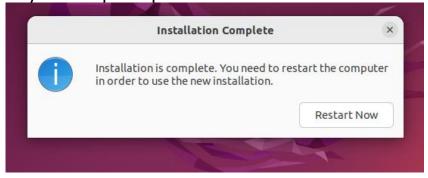
- On the Who are you ? screen, there's some elements to pay attention with :
  - Your name is something personal that won't show up
  - Your computer's name will show up in your local network, and will be used to identify your machine
  - The username and password will be used to log you in. DON'T LOOSE THEM!



• Wait until the system is installed. Time for a second cup of coffee...



 When it's done, click on Restart Now, then click on the Enter key when prompted





 Log in your session, and admire Ubuntu You can test some basic commands to make sure it's working

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To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

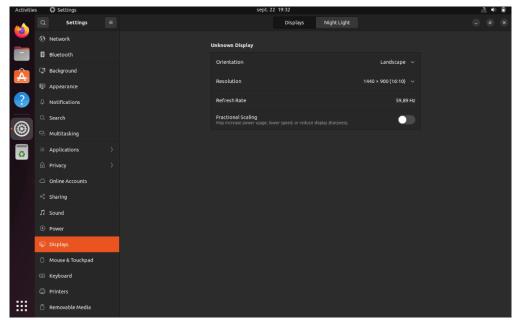
edm115@edm115-VirtualBox:~$ ls

Desktop Documents Downloads Music Pictures Public snap Templates Videos
edm115@edm115-VirtualBox:~$ mkdir test
edm115@edm115-VirtualBox:~$ cd test
edm115@edm115-VirtualBox:~/test$ touch a.txt
edm115@edm115-VirtualBox:~/test$ ls
a.txt
edm115@edm115-VirtualBox:~/test$ cd ../Desktop && ls
edm115@edm115-VirtualBox:~/Desktop$
```

But there's one problem: the size is so tiny ② By default, all VirtualBox instances will have a resolution of 640×480. Here's how to solve it:

- Go in the applications panel (the 9 dots in bottom left corner)
- Scroll down to Display, then change the Resolution

You may be tempted to choose the *exact* resolution of your screen. However, it's not at all the right choice. Simply because it won't fit the screen, and you will have scrollbars. My experience showed that it's better to keep your monitor ratio (i.e. 16:9) and choose 2 resolutions under the one of your display. That way, it will fit as maximum as possible the window, but without scrollbars



• And that's all! Ubuntu is installed inside your computer, without needing to buy another machine or create a dual-boot (note: you can safely delete the 3,6 Gb.iso file. The system is stored in another place)