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BUT1 Info - Groupe B

How to install and configure Linux Debian on a virtual machine

First of all, you have to download Oracle VirtualBox (https://www.virtualbox.org/). It is a general-purpose full virtualization software. You will need it to install an operating system on a virtual machine. After the download, follow the instructions for the installation.
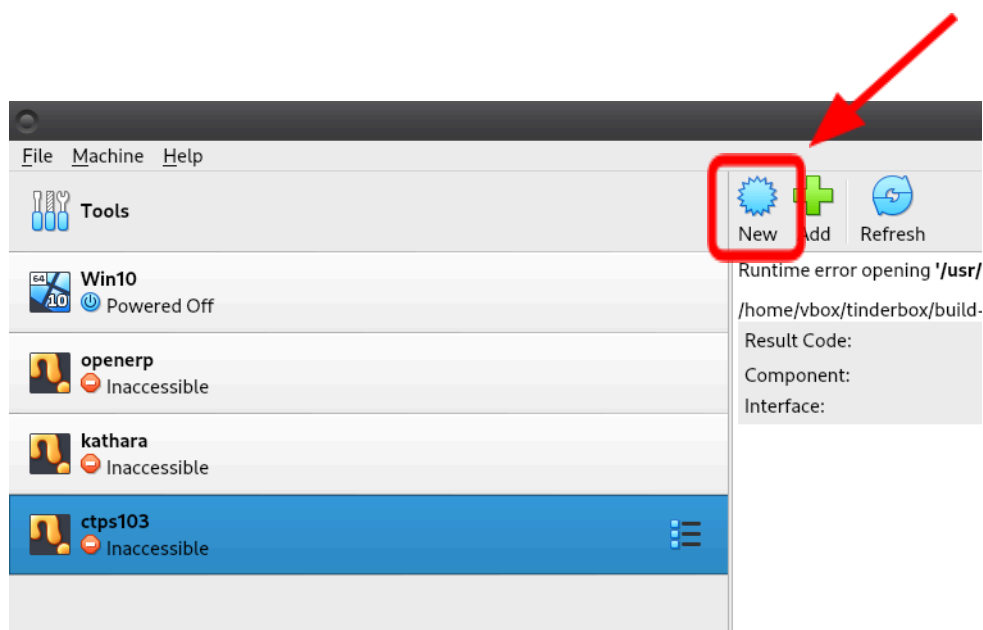
1. Creating a virtual machine

Launch VirtualBox and click on the "New" button. Then, you must enter correctly the different settings :
- Name : Enter the name of your virtual machine.
- Folder : Select a folder to save your virtual machine (You should create a "parent" folder to save all virtual machines in the same location).
- ISO Image : You do not need to fill it, leave it on "not selected".
- Type : Choose "Linux".
- Version : Choose "Debian (64-bit)".

Then, you can click on the "Next" button twice.
For the Virtual Hard disk, it is recommended to tick "Create a Virtual Hard disk" and allocate its size (20Go, for example).
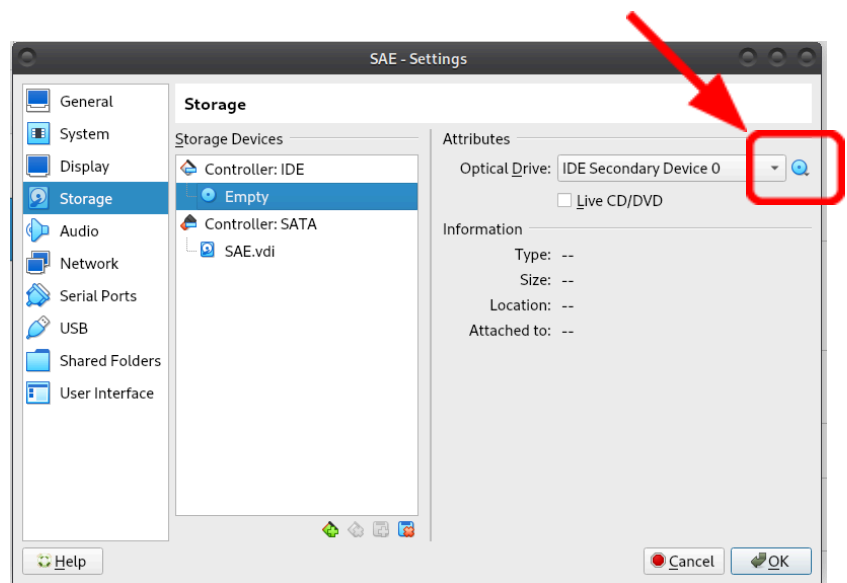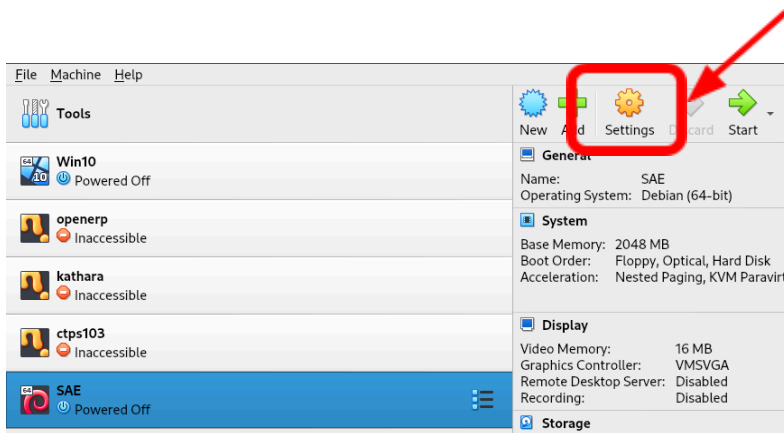When everything is filled, you can click on "Next" and "Finish".

2. Linux Debian Installation

2.1. Installation disk

Select your virtual machine and click on "Settings". Then you must go to "Storage" and "Controller".
Select the "Empty" tab and click on the CD icon on the right (cf. illustration). Now, you have to pick your ISO file. (An ISO file is an operating system installation file. If you need an ISO file, you can download it on : https://www.debian.org/distrib/).
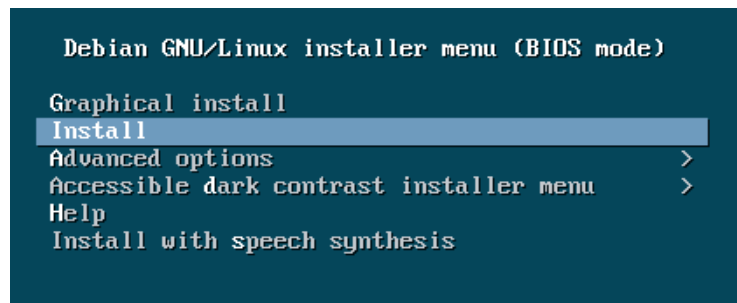Now, you can save the settings and quit it to run the virtual machine.
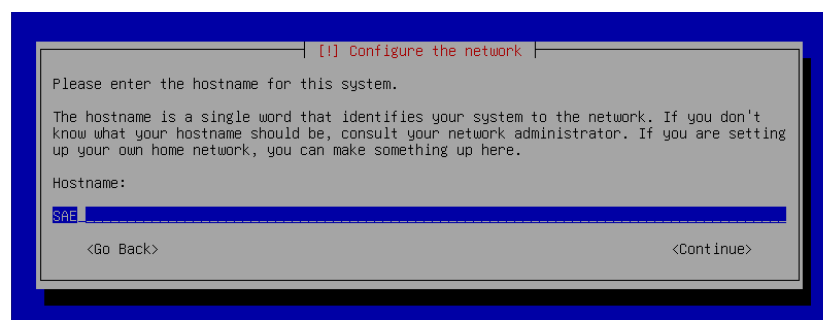

2.2. **Installation**

Start your virtual machine. As long as the installation is not done, you cannot use your computer mouse. You must use "direction arrow" buttons, "Tab" button, "Space" button and "Enter" button to move and select the different options.
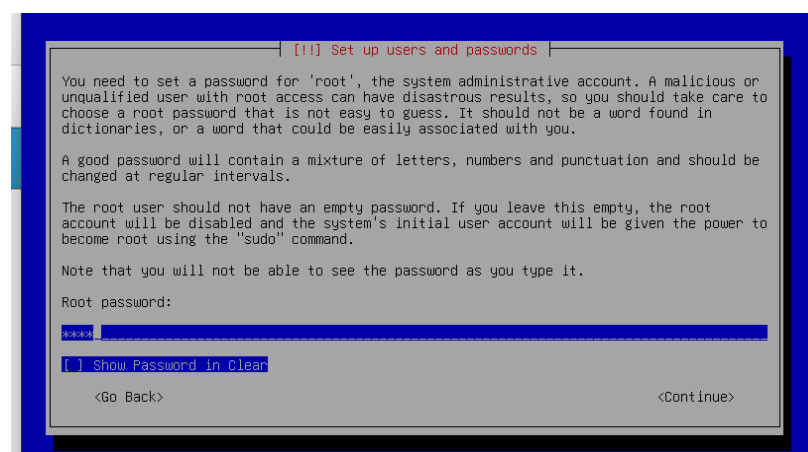
Step to follow :
- Select "Install".
- Choose the language you want to use.
- Choose your location.
- Select the configuration of your keyboard (ex : British English for QWERTY, French for AZERTY).
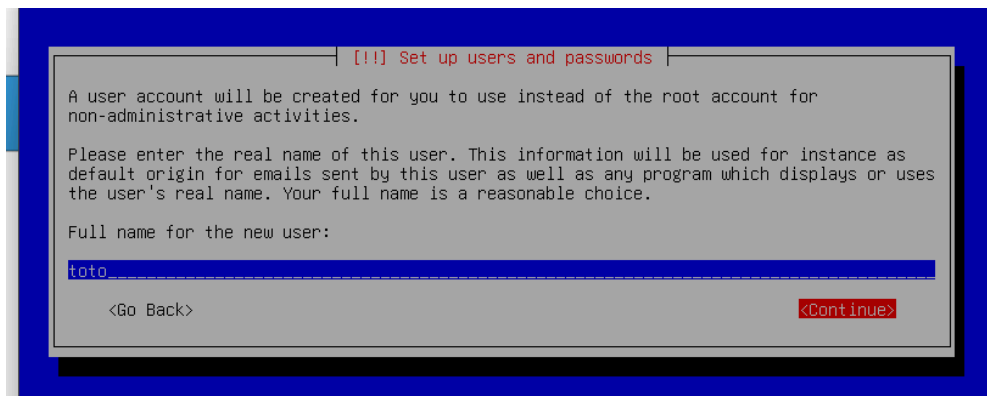

- Enter the name of your system. It could be the same as your virtual machine.
- You do not need to enter a domain. You should just skip and select "Continue".
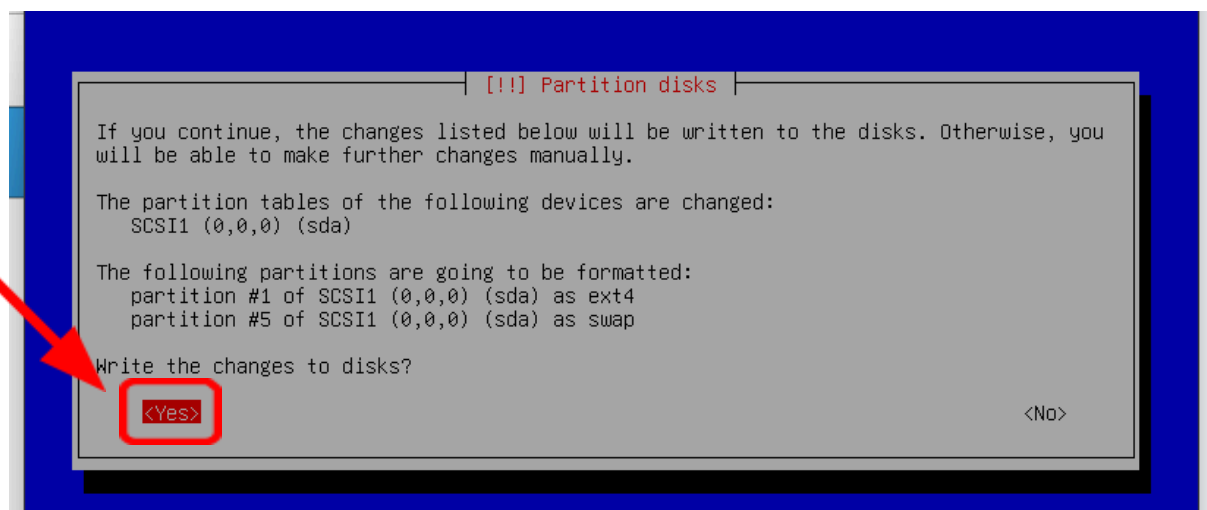

- Enter the password of your root (root = superuser, it has all rights). You have to write it twice. Make sure to remember this password ! If you forget it, you will lose everything on the machine.
- Name your first user twice (it could be your name or your pseudonym, for example).
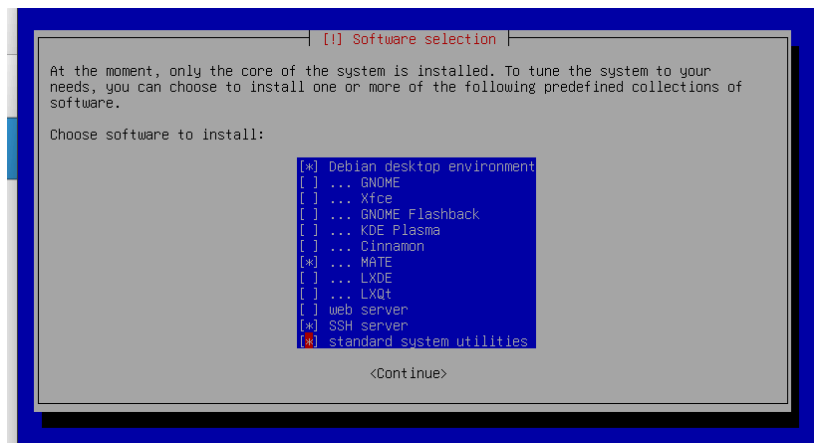- Enter a new password for this user.

- Select "Guided - use entire disk" for the partition and then "Continue" three times.
- Choose "Finish partitioning and write changes to disk" and select "Yes". Be careful, the "Yes" selector is on the left and not on the right.

- For the mirror, choose your country and then select the first link. It should be "deb.debian.org".
- You can skip "Configure the package manager" by selecting "Continue".
- Now, if you want to share your software list with Debian, select "Yes", else choose "No".
- For the "Software selection", you can tick : "Debian desktop environment", "MATE", "SSH server" and "standard system utilities".
- Accept the installation of the GRUB boot and choose the file "/dev/sda/…".

⚠️Do not select "Continue" when the installation is complete if the ISO file is still on.

To remove it, you must go on Oracle, select your virtual machine and choose "Settings", "Storage" and "Controller".

After that, you can select "Continue" and the installation is finally done. You can now use your virtual machine.

Number of words : 576