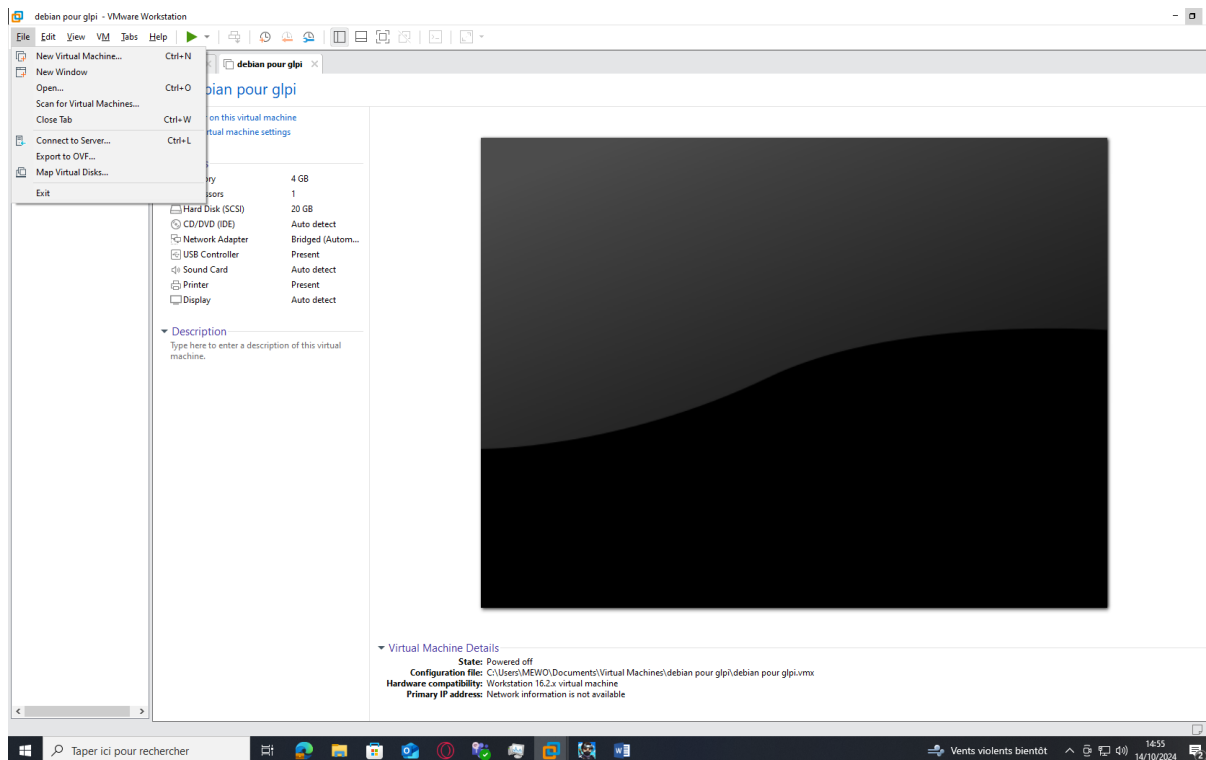


Procédure de virtualisation avec VMware

Peisert Cedric

Ouvrer le menu déroulant file et cliquer sur **new virtual machine**



Choisissez l'option **custom** afin de pouvoir paramétrer l'aspect materiel de la nouvelle machine virtuelle



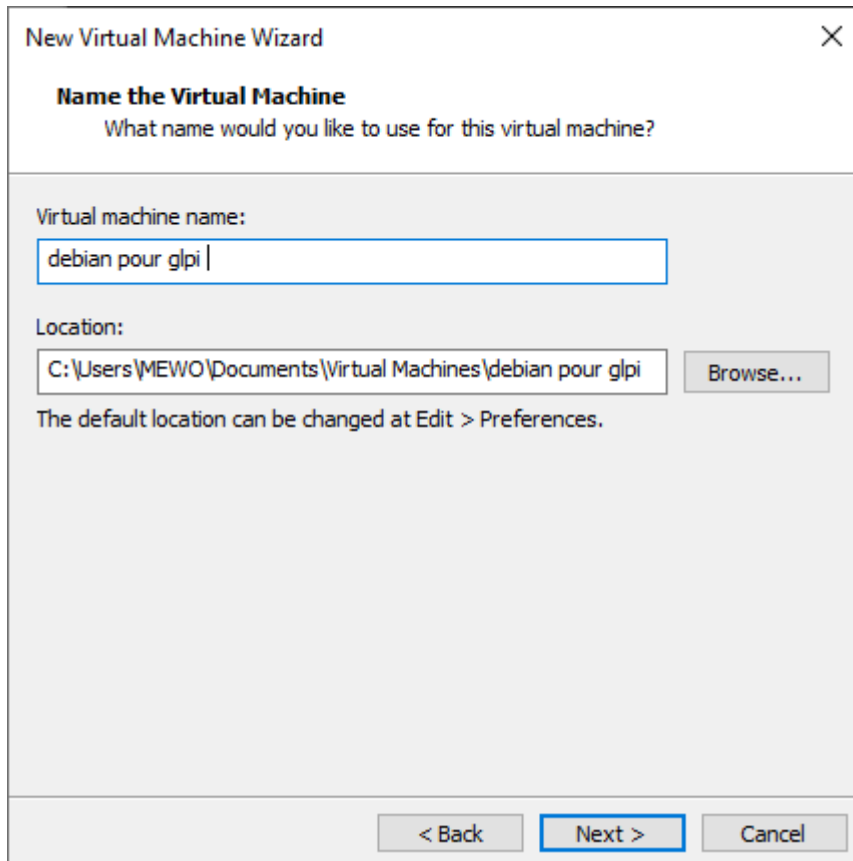
Laissez le mode de **compatibilité** par **défaut**

The screenshot shows the 'New Virtual Machine Wizard' dialog box, specifically the 'Choose the Virtual Machine Hardware Compatibility' step. The title bar reads 'New Virtual Machine Wizard' with a close button. The main heading is 'Choose the Virtual Machine Hardware Compatibility' with a subtitle 'Which hardware features are needed for this virtual machine?'. Below this, there's a section titled 'Virtual machine hardware compatibility'. It contains a 'Hardware compatibility:' dropdown menu set to 'Workstation 16.2.x', a 'Compatible with:' checkbox for 'ESX Server' which is checked, and two list boxes. The 'Compatible products:' list box contains 'Fusion 12.2.x' and 'Workstation 16.2.x'. The 'Limitations:' list box contains '128 GB memory', '32 processors', '10 network adapters', '8 TB disk size', and '8 GB shared graphics memory'. At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

Ici on peut choisir le **système d'exploitation**, dans notre cas on prend la troisième option, cela permettra de l'installer après la création de la machine

The screenshot shows the 'New Virtual Machine Wizard' dialog box, specifically the 'Guest Operating System Installation' step. The title bar reads 'New Virtual Machine Wizard' with a close button. The main heading is 'Guest Operating System Installation' with a subtitle 'A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?'. Below this, there's a section titled 'Install from:'. It contains three radio button options. The first is 'Installer disc:' with a dropdown menu showing 'No drives available'. The second is 'Installer disc image file (iso):' with a text box showing 'C:\Users\MEWO\Downloads\debian-12.7.0-amd64-ne' and a 'Browse...' button. The third is 'I will install the operating system later.' which is selected with a radio button. Below this, it says 'The virtual machine will be created with a blank hard disk.' At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

On donne un **nom** à notre machine virtuelle, et on peut choisir **l'emplacement** où seront stocker les fichiers. Attention à bien prévoir un endroit où il y a suffisamment de place



New Virtual Machine Wizard

Name the Virtual Machine
What name would you like to use for this virtual machine?

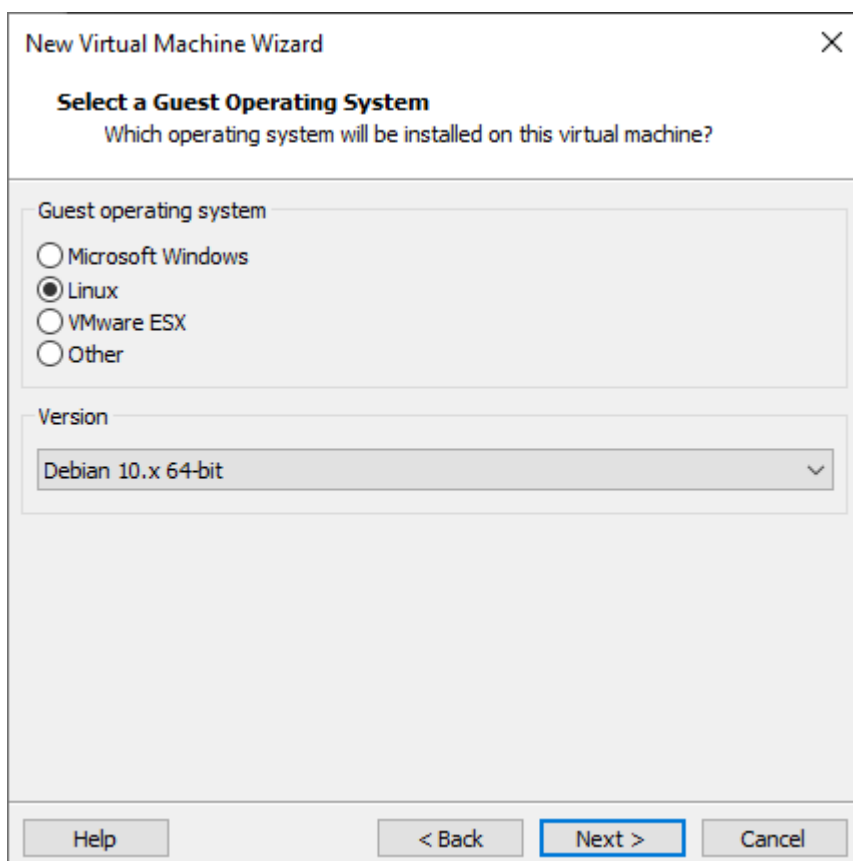
Virtual machine name:

Location:

The default location can be changed at Edit > Preferences.

< Back **Next >** Cancel

On choisit le **type d'OS** qu'on va installer, et l'on peut déjà indiquer la **version** que l'on n'a choisie



New Virtual Machine Wizard

Select a Guest Operating System
Which operating system will be installed on this virtual machine?

Guest operating system

☐ Microsoft Windows
☒ Linux
☐ VMware ESX
☐ Other

Version

Help < Back **Next >** Cancel

Selon le **système d'exploitation**, on va choisir le nombre de **processeurs** et de **cœurs** qu'on alloue à notre machine virtuelle. On pourra modifier ce paramétrage une fois la machine créée si elle est trop lente

The screenshot shows the 'New Virtual Machine Wizard' dialog box, specifically the 'Processor Configuration' step. The title bar reads 'New Virtual Machine Wizard' with a close button (X). Below the title bar, the section is titled 'Processor Configuration' with the instruction 'Specify the number of processors for this virtual machine.' The main area is labeled 'Processors' and contains three fields: 'Number of processors:' with a dropdown menu showing '1', 'Number of cores per processor:' with a dropdown menu showing '1', and 'Total processor cores:' with the value '1'. At the bottom, there are four buttons: 'Help', '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

Pour la **RAM**, on va choisir le **nombre** que l'on veut allouer à la machine virtuel selon le **système d'exploitation**,

On pourra modifier ce paramétrage une fois la machine créée si elle est trop lente

The screenshot shows the 'New Virtual Machine Wizard' dialog box, specifically the 'Memory for the Virtual Machine' step. The title bar reads 'New Virtual Machine Wizard' with a close button (X). Below the title bar, the section is titled 'Memory for the Virtual Machine' with the instruction 'How much memory would you like to use for this virtual machine?'. The main area is labeled 'Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.' It features a vertical slider on the left with memory values ranging from 4 MB to 128 GB. To the right of the slider, there is a text field 'Memory for this virtual machine:' with a value of '4096' and a unit 'MB'. Below the slider, there are three recommendations: 'Maximum recommended memory: 27.9 GB' (indicated by a blue square), 'Recommended memory: 2 GB' (indicated by a green square), and 'Guest OS recommended minimum: 1 GB' (indicated by a yellow square). At the bottom, there are four buttons: 'Help', '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

Pour la **carte réseau**, elle peut être paramétrée de plusieurs manières différentes

- **Bridge (passerelle)** : la machine utilise le même réseau physique que la machine hôte mais de manière indépendante. elle est considérée comme une machine physique par le réseau
- **NAT** : n'existe pas sur le réseau physique de manière indépendante. la machine hôte crée un sous réseau qui permet de cependant à la machine virtuelle d'y accéder et de communiquer avec d'autres machines virtuelles
- **Host-only** : la communication n'est possible qu'entre la machine hôte et la machine virtuelle
- **Not use a network connection** : Pas de connexion, la machine n'a pas de carte virtuelle

The image shows a screenshot of the 'New Virtual Machine Wizard' dialog box, specifically the 'Network Type' step. The title bar reads 'New Virtual Machine Wizard' with a close button (X) on the right. Below the title bar, the section is labeled 'Network Type' with the question 'What type of network do you want to add?'. The main area is titled 'Network connection' and contains four radio button options: 'Use bridged networking' (selected), 'Use network address translation (NAT)', 'Use host-only networking', and 'Do not use a network connection'. Each option has a brief description. At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

New Virtual Machine Wizard

Network Type
What type of network do you want to add?

Network connection

☒ Use bridged networking
Give the guest operating system direct access to an external Ethernet network. The guest must have its own IP address on the external network.

☐ Use network address translation (NAT)
Give the guest operating system access to the host computer's dial-up or external Ethernet network connection using the host's IP address.

☐ Use host-only networking
Connect the guest operating system to a private virtual network on the host computer.

☐ Do not use a network connection

Help < Back Next > Cancel

Pour les deux paramètres suivants on va laisser la configuration par **défaut**

New Virtual Machine Wizard ✕

Select I/O Controller Types
Which SCSI controller type would you like to use for SCSI virtual disks?

I/O controller types

SCSI Controller:

☐ BusLogic (Not available for 64-bit guests)

☒ LSI Logic (Recommended)

☐ LSI Logic SAS

☐ Paravirtualized SCSI

Help < Back Next > Cancel

New Virtual Machine Wizard ✕

Select a Disk Type
What kind of disk do you want to create?

Virtual disk type

☐ IDE

☒ SCSI (Recommended)

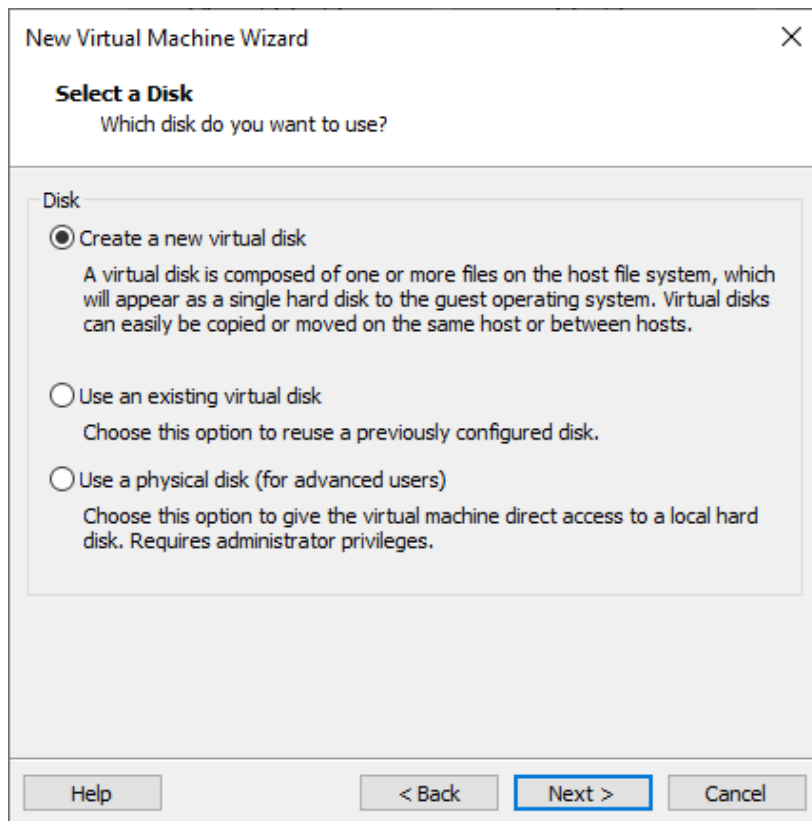
☐ SATA

☐ NVMe

Help < Back Next > Cancel

Pour le stockage des données, on va allouer à notre machine virtuelle un **nouveau disque virtuel**,

On peut aussi assigner un disque déjà existant si il y en avait déjà un, mais cela veut dire qu'il a été créé au préalable



The screenshot shows the 'New Virtual Machine Wizard' window, specifically the 'Select a Disk' step. The title bar says 'New Virtual Machine Wizard' with a close button. The main heading is 'Select a Disk' with the subtitle 'Which disk do you want to use?'. There are three radio button options under the 'Disk' section: 'Create a new virtual disk' (selected), 'Use an existing virtual disk', and 'Use a physical disk (for advanced users)'. Each option has a descriptive paragraph. At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

New Virtual Machine Wizard

Select a Disk
Which disk do you want to use?

Disk

☒ Create a new virtual disk
A virtual disk is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.

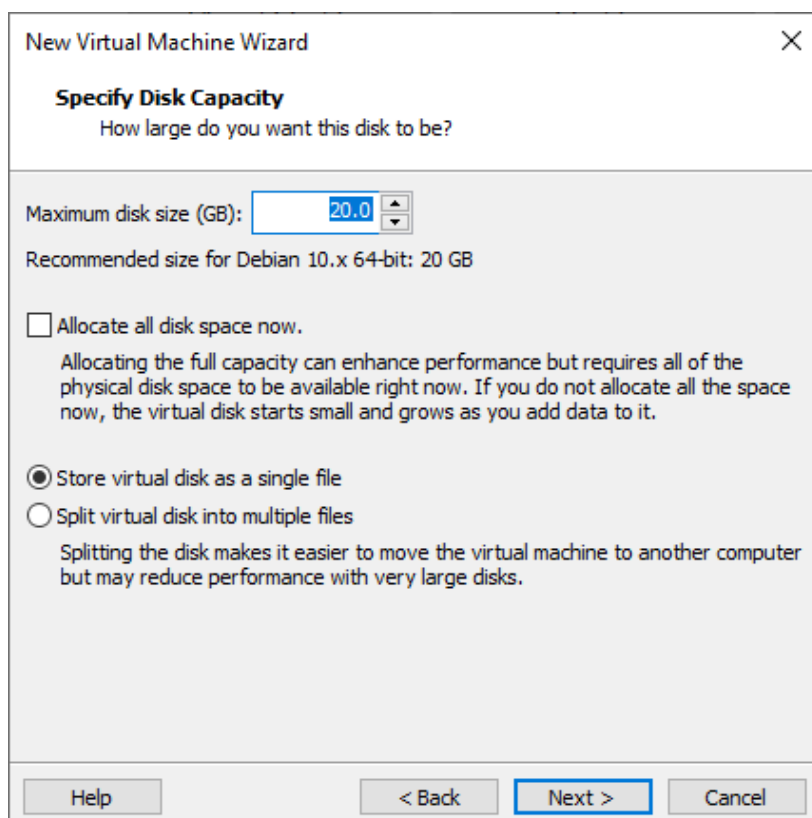
☐ Use an existing virtual disk
Choose this option to reuse a previously configured disk.

☐ Use a physical disk (for advanced users)
Choose this option to give the virtual machine direct access to a local hard disk. Requires administrator privileges.

Help < Back Next > Cancel

On choisit la taille allouée sur le **nouveau disque**, cela varie selon l'**OS** choisie et ce que l'on veut stocker dessus

Il peut être stocké à un seul endroit (**single file**) ou à plusieurs endroits, (**multiples files**)



The screenshot shows the 'New Virtual Machine Wizard' window, specifically the 'Specify Disk Capacity' step. The title bar says 'New Virtual Machine Wizard' with a close button. The main heading is 'Specify Disk Capacity' with the subtitle 'How large do you want this disk to be?'. There is a text input field for 'Maximum disk size (GB):' with the value '20.0' and a spinner control. Below it, it says 'Recommended size for Debian 10.x 64-bit: 20 GB'. There are two radio button options: 'Allocate all disk space now.' (unchecked) and 'Store virtual disk as a single file' (selected). The 'Allocate all disk space now.' option has a descriptive paragraph. The 'Store virtual disk as a single file' option has a descriptive paragraph. At the bottom, there are four buttons: 'Help', '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

New Virtual Machine Wizard

Specify Disk Capacity
How large do you want this disk to be?

Maximum disk size (GB):

Recommended size for Debian 10.x 64-bit: 20 GB

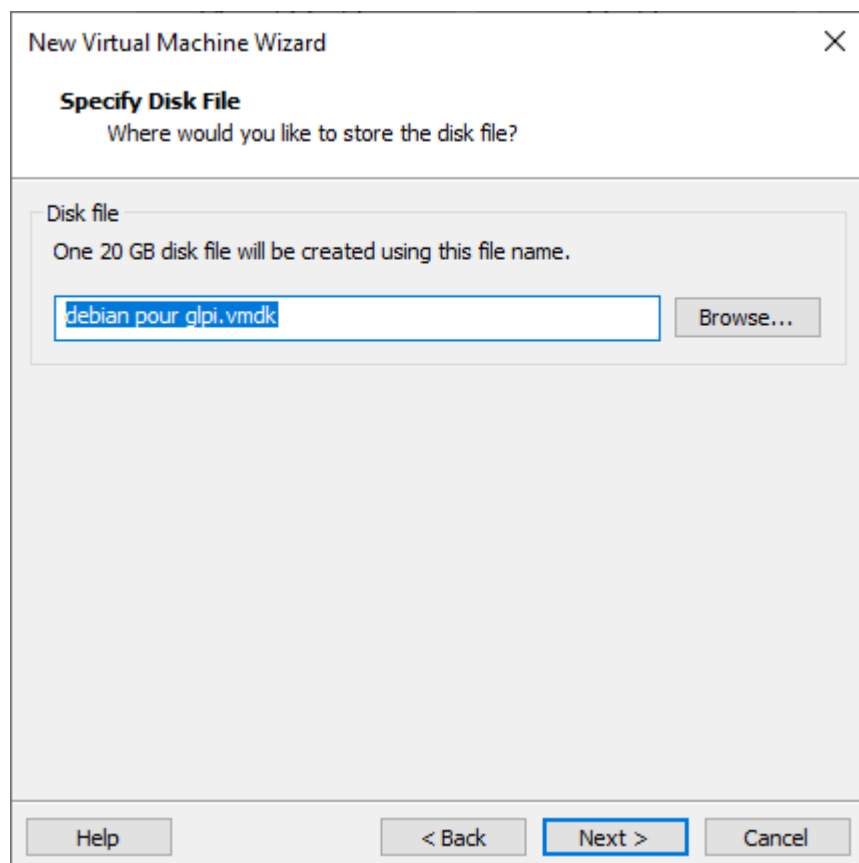
☐ Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.

☒ Store virtual disk as a single file

☐ Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Help < Back Next > Cancel

On choisit le **nom** que l'on souhaite pour le nouveau disque



New Virtual Machine Wizard

Specify Disk File
Where would you like to store the disk file?

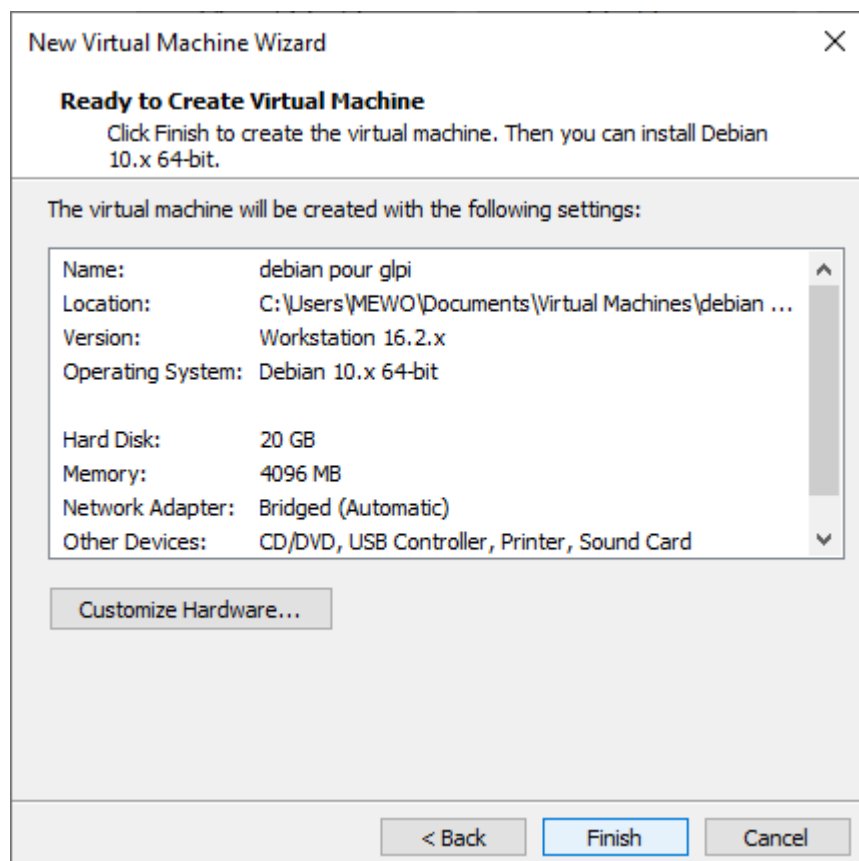
Disk file
One 20 GB disk file will be created using this file name.

debian pour glpi.vmdk

Browse...

Help < Back Next > Cancel

Ce dernier est un **récapitulatif** de ce que l'on n'a choisi lors de la **création** de cette nouvelle **machine virtuelle**



New Virtual Machine Wizard

Ready to Create Virtual Machine
Click Finish to create the virtual machine. Then you can install Debian 10.x 64-bit.

The virtual machine will be created with the following settings:

Name:	debian pour glpi
Location:	C:\Users\MEWO\Documents\Virtual Machines\debian ...
Version:	Workstation 16.2.x
Operating System:	Debian 10.x 64-bit
Hard Disk:	20 GB
Memory:	4096 MB
Network Adapter:	Bridged (Automatic)
Other Devices:	CD/DVD, USB Controller, Printer, Sound Card

Customize Hardware...

< Back Finish Cancel

Voici la nouvelle machine virtuelle

