# Installer Debian dans une VM.

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### I. Préambule.

Cette prodécure d'installation permettra de mettre en oeuvre une VM avec Workstation Player de Vmware. Après paramétrage de la machine virtuelle, Débian 10 sera installé pour prendre en main l'interface de commande et effectuer les premières manipulations de fichiers.

Il sera nécessaire de télécharger Debian 10 à la page : <u>https://www.debian.org/distrib/</u>.

Il est possible de télécharger la version complète d'installation mais il est conseillé d'installer le "netinst" qui permet de télécharger pendant l'installation seulement les éléments nécessaires pour le fonctionnement du SE.

Ouverture de debian-10.1.0-amd64-netinst.iso	×
Vous avez choisi d'ouvrir :	
debian-10.1.0-amd64-netinst.iso	
qui est un fichier de type : iso File (335 Mo) à partir de : https://gemmei.ftp.acc.umu.se	debian-10.1.0-amd64-ne
Que doit faire Firefox avec ce fichier ?	
O <u>O</u> uvrir avec <u>P</u> arcourir	
Enregistrer le fichier	
☐ <u>T</u> oujours effectuer cette action pour ce type de	e fichier.
C	OK Annuler

#### II. Installer WorkStation Player

Vmware propose une application payante qui permet de manipuler plusieurs VM simultanément. Cependant, une version lecteur est proposée en utilisation libre pour une exploitation non commerciale. Ce lecteur est limité à l'exécution d'une seule VM à la fois.

La dernière version du player est téléchargeable à l'adresse suivante : <u>https://www.vmware.com/fr/products/workstation-player.html</u>

Ouverture de VMware-player-15.5.0-14665864.exe X
Vous avez choisi d'ouvrir :
VMware-player-15.5.0-14665864.exe
qui est un fichier de type : Binary File (138 Mo) à partir de : https://download3.vmware.com
Voulez-vous enregistrer ce fichier ?
Enregistrer le fichier Annuler

Au premier lancement du Player, il est demandé une adresse mail ou un numéro de série. L'adresse mail générique toto@toto.fr sera acceptée pour démarrer l'utilisation.

#### III. Paramétrer une VM.



L'interface propose plusieurs options. On va créer une nouvelle Machine Virtuelle. "Create a New Virtual Machine"

Il est possible de charger directement l'image iso de Debian 10 préalablement téléchargée. La VM sera automatiquement configurée. Il sera possible de modifier les caractéristiques ultérieurement.

New Virtual Machine Wizard		
Welcome to the New Virtual Machine Wizard A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?		
Install from:		
O Installer disc:		
No drives available $\sim$		
• Installer disc image file (iso):		
C:\Users\Joël\Downloads\debian-10.1.0-amd64-netin: V Browse		
Could not detect which operating system is in this disc image. You will need to specify which operating system will be installed.		
$\bigcirc$ I will install the operating system later.		
The virtual machine will be created with a blank hard disk.		
Help < Back Next > Cancel		

La page propose cette configuration par défaut que l'on conservera.

Il faudra choisir un nom pour la VM et un lieu d'installation. La VM peut être installée sur le disque dur ou sur une clé USB. Dans ce dernier cas, elle sera plus lente car elle sera limitée par la communication de l'USB.

New Virtual Machine Wizard			×
Select a Guest Operating Sy Which operating system will	<b>stem</b> be installed on	this virtual machine	≥?
Guest operating system			
O Microsoft Windows			
Linux			
() Other			
Version			
Debian 9.x 64-bit			$\sim$
Help	< Back	Next >	Cancel

New Virtual Machine Wizard	×
Name the Virtual Machine What name would you like to use for this virtual machine?	
Virtual machine name:	
Debian 10	
Location:	
D: \MachineVirtuelle \Debian 10	Browse
< Back Next >	Cancel



New Virtual Machine Wizard		
Ready to Create Click Finish to 64-bit.	<b>Virtual Machine</b> create the virtual machine. Then you can install Debian 9.x	:
The virtual machine	will be created with the following settings:	
Name:	Debian 10	^
Location:	D: \MachineVirtuelle \Debian 10	
Version:	Workstation 15.x	
Operating System	Debian 9.x 64-bit	
Hard Disk:	20 GB, Split	
Memory:	512 MB	
Network Adapter:	NAT	
Other Devices:	CD/DVD, USB Controller, Printer, Sound Card	× .
Customize Hardv	/are	
	< Back Finish Cance	I

La taille du disque par défaut sera conservée, elle est largement suffisante. Le choix de découper la VM en plusieurs fichiers permet de déplacer le dossier contenant la VM sur des disques formatés en FAT32. Dans le cas d'un fichier unique, on ne pourra stocker la VM que sur le format NTFS.

Un bilan de la configuration est donné, il est encore possible de la modifier.

#### IV. Installation de Debian 10.



La VM est prête à démarrer, le fichier iso de Debian10 est chargé dans le lecteur CD virtuel, l'installation va débuter lorsqu'on cliquera sur la flèche verte.

Si on souhaite avoir une interface graphique, il faut laisser le champ par défaut.

Pour une installation de Debian en ligne de commande , il faudra sélectionner "**Install**".

On se laisse guider pendant l'installation.	[!!] Low memory Entering low memory mode This system has relatively little free memory, so it will enter low memory mode. Among other things, this means that this program will proceed in English. You should set up swap space as soon as possible. (Continue)
	[!!!] Select your location
	The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live. Select the continent or region to which your location belongs. Continent or region:
Le continent sera Europe.	Africa Antarctica Asia Atlantic Ocean Caribbean Central America <mark>Europe</mark> Indian Ocean
Le pays la France	Country, territory or area: Albania Andorra Armenia Austria Azerbaijan Belarus Belgium Bosnia and Herzegovina Bulgaria Croatia Cyprus Czechia Denmark Estonia Faroe Islands Finland France Georgia Germany
	[!!!] Configure the keyboard         Keymap to use:         Estonian       †         Ethiopian       *
Le clavier français.	Finnish French

[!!] Configure	the	keyboard	Н
Keymap to use:			
Estonian			t
Ethiopian			
Finnish			
French			
Georgian			
German			
Greek			
Gujarati			



L'installation démarre.

[!] Configure the network Please enter the hostname for this system. The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consult your network administrator. If you are setting up your own home network, you can make something up here. On laisse le nom par défaut. Hostname: debian\_ <Go Back> <Continue> - [!] Configure the network -The domain name is the part of your Internet address to the right of your host name. It is often something that ends in .com, .net, .edu, or .org. If you are setting up a home network, you can make something up, but make sure you use the same domain name on all your computers. Domain name: <Go Back> <Continue> become root using the "sudo" command. Le mot de passe sera root pour Note that you will not be able to see the password as you type it. Root password:

root

[<mark>\*</mark>] Show Password in Clear

<Go Back>

<Continue>

Un nom d'utilisateur so demandé.	Iffl Set up users and passwords         A user account will be created for you to use instead of the root account for non-administrative activities.         Please enter the real name of this user. This information will be used for instance as default origin for emails sent by this user as well as any program which displays or uses the user's real name. Your full name is a reasonable choice.         Full name for the new user:         utilisateur_
	<go back=""> <continue></continue></go>
	[!!] Set up users and passwords
	A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.
Le mot de passe sera renseign lci, c'est "utilisateur" toujo pour des raisons de simplicité.	Choose a password for the new user: utilisateur  The set of the new user:  The set of the new u

<Go Back>

Il est inutile de renseigner ce champ.

raison de simplicité mais il sera hors de question de conserver un tel mot de passe si la VM doit être utilisée par plusieurs utilisateurs. Le mot de passe sera redemandé dans une seconde fenêtre.

<Continue>

The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results.

If you choose guided partitioning for an entire disk, you will next be asked which disk should be used.

Partitioning method:

Guided - use entire disk Guided - use entire disk and set up LVM Guided - use entire disk and set up encrypted LVM Manual

[!!] Partition disks

Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes.

Select disk to partition:

SCSI3 (0,0,0) (sda) - 21.5 GB VMware, VMware Virtual S

<Go Back>

– [!] Partition disks –

Selected for partitioning:

SCSI3 (0,0,0) (sda) - VMware, VMware Virtual S: 21.5 GB

The disk can be partitioned using one of several different schemes. If you are unsure, choose the first one.

Partitioning scheme:

All files in one partition (recommended for new users) Separate /home partition

Separate /home, /uar, and /tmp partitions

#### [!!] Partition disks –

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning Configure software RAID Configure the Logical Volume Manager Configure encrypted volumes Configure iSCSI volumes

SCSI3 (0,0,0) (sda) - 21.5 GB VMware, VMware Virtual S > #1 primary 20.9 GB f ext4 / > #5 logical 534.8 MB f swap swap

Undo changes to partitions Finish partitioning and write changes to disk



	Installing th	e base sustem		
L'installation sur le disque débute.	Extracting libp11-kit0			
	Your installation CD or DVD has been scanned	1. its lahel is.		
	Debian GNU/Linux 10 1 0 Buster - Official	amd64 NETINST 20190908-01:07		
	You now have the option to scan additional (	Dos on DVDs for use by the package manager		
C'est une installation par internet,	(apt). Normally these should be from the same set as the installation CD/DVD. If you do not have any additional CDs or DVDs available, this step can just be skipped.			
on refuse cette étape.	If you wish to scan another CD or DVD, pleas	se insert it now.		
	Scan another CD or DVD?			
	<go back=""></go>	<yes> &lt;<mark><no></no></mark></yes>		
	Brazil	âû€		
	Bulgaria Canada	auft âûft d.		
	Chile China	âûÆ âûÆw.		
	Costa Rica Croatia	âûÆ âûæ		
Le reste du SE sera téléchargé sur	Czechia	âûÆ		
le site miroir français.	Denmark El Salvador	auf£ âûÆ		
-	Estonia Finland	âûÆ ôûæ		
	France	âû£		
	French Polyr Georgia	nesia auÆ âûÆ		
	Germanu	âăô		
	The sustem may anonymously symply the distri	hution developers with statistics about the		
	most used packages on this system. This info packages should go on the first distribution	rmation influences decisions such as which CD.		
	If you choose to participate, the automatic sending statistics to the distribution devel on https://popcon.debian.org/.	submission script will run once every week, opers. The collected statistics can be viewed		
Continuer toujours par defaut.	This choice can be later modified by running	"dpkg-reconfigure popularity-contest".		
	Participate in the package usage survey?			
	<go back=""></go>	<yes> <no></no></yes>		
	At the moment, only the core of the syst needs, you can choose to install one or software.	em is installed. To tune the system to you more of the following predefined collectic		
	Choose software to install:			
	[ <mark>*</mark> ] Debia	n desktop environment		
Server et le SSH server Selon le	[]G	NOME fre		
débit de la connexion internet la	[] KDE	Plasma		
suite de l'installation durera entre	E [ ] MAT			
5 et 20 minutes.	[] LXD			
	[] web s	erver		
	[*] print [] <u>SSH s</u>	erver		
	[*] stand	ard system utilities		

Il faut continuer et installer GRUB.	It seems that this new installation is the only operating system on this computer. If so, it should be safe to install the GRUB boot loader to the master boot record of your first hard drive. Warning: If the installer failed to detect another operating system that is present on your computer, modifying the master boot record will make that operating system temporarily unbootable, though GRUB can be manually configured later to boot it. Install the GRUB boot loader to the master boot record? <go back=""> &lt;a href="https://www.www.sec.add/sec&lt;/th&gt;</go>
Choisir /dev/dva.	You need to make the newly installed system bootable, by installing the GRUB boot loader on a bootable device. The usual way to do this is to install GRUB on the master boot record of your first hard drive. If you prefer, you can install GRUB elsewhere on the rive, or to another drive, or even to a floppy.åöÇâöÇâöÇâöÇâöÇâöÇâöÇâöÇâöÇâöÇâöÇâöÇâöÇâö
L'installation est finie, la VM va redémarrer.	Installation complete Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media, so that you boot into the new system rather than restarting the installation. <go back=""></go>
Le redémarrage de la VM est représenté ci-contre.	<ul> <li>[ OK ] Started Helper to synchronize boot up for ifupdown.</li> <li>[ OK ] Started udev Kernel Device Manager. Starting Show Plymouth Boot Screen</li> <li>[ OK ] Started Show Plymouth Boot Screen.</li> <li>[ OK ] Reached target Local Encrypted Volumes.</li> <li>[ OK ] Started Forward Password Requests to Plymouth Directory Watch.</li> <li>[ OK ] Found device VMware_Virtual_S 5. Activating swap /dev/disk/by-uuid/7b535719-c02f-4100-8092-a4629248bbb9</li> <li>[ OK ] Activated swap /dev/disk/by-uuid/7b535719-c02f-4100-8092-a4629248bbb9.</li> <li>[ OK ] Activated swap /dev/disk/by-uuid/7b535719-c02f-4100-8092-a4629248bbb9.</li> <li>[ OK ] Activated swap /dev/disk/by-uuid/7b535719-c02f-4100-8092-a4629248bbb9.</li> <li>[ OK ] Activated Swap.</li> <li>[ OK ] Started Journal Service. Starting Flush Journal to Persistent Storage</li> <li>[ OK ] Started Flush Journal to Persistent Storage</li> <li>[ OK ] Started Flush Journal to Persistent Storage</li> <li>[ OK ] Started Volatile Files and Directories</li> <li>[ OK ] Started UDdate UTMP about System Boot/Shutdown Starting Network Time Synchronization</li> <li>[ OK ] Started UDdate UTMP about System Boot/Shutdown.</li> <li>[ OK ] Started Network Time Synchronization.</li> <li>[ OK ] Started Network Time Synchronization.</li> <li>[ OK ] Reached target System Time Synchronized. Starting Tell Plymouth To Write Out Runtime Data Starting Show Plymouth Boot Screen.</li> <li>[ OK ] Started Shu Plymouth To Write Out Runtime Data</li> <li>[ OK ] Started Shu Plymouth To Write Out Runtime Data</li> <li>[ OK ] Started Show Plymouth Boot Screen.</li> <li>[ OK ] Started Show Plymouth Boot Screen.</li> <li>[ W*** ] A start job is running for Load AppArmor profiles (6s / no limit)</li> </ul>

L'utilisateur peut se connecter. Login : **utilisateur** mdp : **utilisateur** 

