

AUTEURS :

DATE :



Auteur	Date de	Version	Validateur	Destinataire	Diffusion	Nombre de
	création					pages
Le Clainche Killian	26/06/2024	1.0		Equipe IT DSI	Teams Equipe IT	21

1) Etape 1 : Installer l'iso de la version 8.2 de Proxmox

sur https://www.proxmox.com/en/downloads en cliquant sur « download » :



2) Etape 2 : Procéder l'installation de Proxmox sur Vmware Workstation en cliquant sur « Create a new machine » :

WWWare Workstation					- 0	×
File Edit View VM T	abs Help > - 🛱 🖉 🛶 🚔 🔲 🗖 🖓 🛞 🖂					
Library X	슈 Home × 다 My Computer ×					
My Computer Ubuntu 64-bit		WORI	STATION PI	ro ⁻ 17		
	Ľ	Create a New Virtual Machine	Open a Virtual Machine	Connect to a Remote Server		

3) Etape 3 : Ensuite, cliquer sur « Typical » , puis « Next » :



4) Etape 4 : Cocher la case « I will install the operating stystem later », puis cliquer sur

			1	
New Virtual	Machine Wizard			×
Guest Op A virti system	e rating System Inst ual machine is like a p m. How will you install	a llation hysical computer the guest opera	r; it needs an op iting system?	perating
Install from:	- disc:			
No	drives available		~	
🔿 Installer	disc image file (iso):			
C:\Uze	rs\lecla\Downloads\ub	untu-22.04.3-de	esktop-ai 🗸	Browse
OI will ins	stall the operating syst	em later.		
The virt	tual machine will be cr	eated with a bla	ink hard disk.	
Help		< Back >	Next >	Cancel

5) Etape 5 : Cocher la case « Linux », puis choisir la version « Debian 11 » :

	1		2
	New Virtual Machine Wizard		\times
	Select a Guest Operating Sys Which operating system wil	stem I be installed on this virtual machine?	
	Guest operating system Microsoft Windows inux VMware ESX Other		
	Debian 11.x		~
6)	Help Etape 6 : Cliquer sur « Next » :	< Back Next > C	ancel
	New Virtual Machine Wizard	×	
	Select a Guest Operating System Which operating system will be i	nstalled on this virtual machine?	
	Guest operating system O Microsoft Windows Linux VMware ESX Other Version Debian 11.x		

< Back

Help

Next >

Cancel

7) Etape 7 : Il est possible de changer le nom de la VM dans la case « Virtual machine name », puis cliquer sur « Next » :

	name », pa	2 2				1
	New Virtua	- I Machine Wizard				\times
	Name the Wha	e Virtual Machine t name would you like	to use for this	virtual machine?	,	
	Virtual mac	hine name:				
	Proxmox	K				
	Location:					
	C:\Users\le	ecla\Documents\Virtua	l Machines\Pro	xmox	Browse	
	The default	location can be chang	ed at Edit > Pro	eferences.		
			< Back	Next >	Cancel	
8)	Etape 8 : Cli	quer sur « Next »				
,	•	· \				
	New Virtua	l Machine Wizard				\times
	Enocify	Dick Conscitu				
	How	large do you want thi	s disk to be?			
			<u> </u>			
	The virtual n computer's p applications,	nachine's hard disk is s physical disk. These file files, and data to you	stored as one o e(s) start small r virtual machin	r more files on t and become lar e.	the host rger as you ad	d
	Maximum dis	sk size (GB):	20.0			
	Recommend	ed size for Debian 11.	x: 20 GB			
			$\langle \rangle$			
	O Store virt	ual disk as a single file				
	 Split virtu 	al disk into multiple fil	es			
	Splitting	the disk makes it easi	er to move the	virtual machine	to another	
	computer	but may reduce perfo	with v	ery large disks.		

< Back

Help

Next >

Cancel

9) Etape 9 : Cliquer sur « Customize hardware » :

New Virtual Machine Wizard	\times
Ready to Create Virtual Machine Click Finish to create the virtual machine. Then you can install Debian 11.x.	
The virtual machine will be greated with the following settings:	
Name: Proxynox	
Location: C:\users\lecla\Documents\Virtual Machines\Proxmox	
Version: Workstation 17.x	
Operating System: Debian 11.x	
Hard Disk: 20 GB, Split	
Memory: 2048 MB	
Network Adapter: NAT	
Other Devices: CD/DVD, USB Controller, Printer, Sound Card	
Customize Hardware	
< Back Finish Cance	

/

10) Etape 10 : Augmenter la mémoire de la VM à hauteur de « 4096 Mb » :

Device Summary 2 GB Memory 2 GB Processors 1 New CD/DVD (IDE) Auto detect Network Adapter NAT USB Controller Present Printer Present Display Auto detect 128 GB 64 GB 32 GB 13.2 GB 16 GB 13.2 GB 13.2 GB 13.2 GB 13.2 GB 13.2 GB 128 MB GB - G Guest OS recommended memory 2 GB 128 MB GB - G Guest OS recommended memory 2 GB 128 MB Guest OS recommended minimum 16 MB 1 GB	Jewice Summary ■ Memory 2 GB ■ Processors 1 ● New CO/DVD (IDE) Auto detect ● New Co/DVD (IDE) NAT ● USB Controller Present ● Sound Card Auto detect ● Printer Present ● Display Auto detect ● Signam Color > Color Signam > Color Signam <th>Device</th> <th>_</th> <th></th> <th></th>	Device	_		
4 GB occur beyond this size.) 2 GB 13.2 GB 1 GB Image: Comparison of the size.) 5 GB Image: Comparison of the size.) 6 H MB Image: Comparison of the size.) 32 MB Image: Comparison of the size.) 1 GB Image: Comparison of the size.) 8 MB Image: Comparison of the size.) 4 MB Image: Comparison of the size.)	4 GB occur beyond this size.) 2 GB 13.2 GB 1 GB Recommended memory 256 MB 2 GB 128 MB Guest OS recommended minimum 32 MB 1 GB 16 MB 1 GB 8 MB 1 GB	Processors New CD/DVD (IDE) Network Adapter USB Controller VSB Controller Sound Card Printer Display	2 GB 1 Auto detect NAT Present Auto detect Present Auto detect	Memory Specify the amount of men size must be a multiple of Memory for this virtual ma 128 GB - 64 GB - 32 GB - 16 GB - 8 GB -	Maximum recommended memory (Memory swapping may
				4 GB	occur beyond this size.) 13.2 GB Recommended memory 2 GB Guest OS recommended minimum 1 GB

1

Hardware		
Device Memory Processors Network Adapter USB Controller Sound Card Printer Display	Summary 4 GB 4 Auto detect NAT Present Auto detect Present Auto detect	Processors 2 Number of processor: 2 Number of cores per processor: 2 Total processor cores: 4 Virtualization engine

12) Etape 12 : Aller dans la rubrique « CD/DVD », puis cocher la case « Use iso image

iawaic		
Device Memory Processors New CD/DVD (IDE) Network Adapter USB Controller Sound Card Printer Display	Summary 4 GB 4 Auto detect NAT Present Auto detect Present Auto detect	Device status Connected Connection Use physical drive: Advanced Browse Advanced

13) Etape 13 : Cliquer sur « Browse » :

ardware			>
Device Memory Processors New CD/DVD (DE) New CD/DVD (DE) Sound Card Sound Card Printer Display	Summary 4 GB 4 Auto detect NAT Present Auto detect Present Auto detect Outo detect Auto detect	Device status Connected Connection Use physical drive: Auto detect Use ISO image file:	Browse Advanced
		Close	Help

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Browse for ISO Image				×
				~
$\leftarrow \rightarrow \checkmark \uparrow$	上 > Téléchargements >	~ C		arg 🔎
Organiser 👻 Nouveau	u dossier			
Accueil	Nom		Modifié le	Туре
🔀 Galerie				
🔷 OpeDrive - Perso	proxmox-ve_8.2-1.iso		26/06/2024 11:43	Fichi
OneDrive - Perso	 Plus tôt cette année 			
•	debian-12.5.0-amd64-netinst.iso		29/04/2024 13:34	Fichi
📒 Bureau 🛛 🖈	fr_windows_7_starter_with_sp1_x8	86_dvd_u_678275.iso	18/04/2024 22:35	Fichi
🛓 Téléchargem 🖈	windows_xp_professional_with_se	ervice_pack_3_x86_cd_vl_x14	18/04/2024 12:02	Fichi
📑 Documents 🖈	SERVER_EVAL_x64FRE_fr-fr (1).iso)	21/02/2024 10:30	Fichie
🔀 Images 🖈	🗟 debian-12.4.0-amd64-netinst.iso		05/02/2024 08:57	Fichi
- Muciquo 🔺				
Nom d	lu fichier :	~	CD-ROM images (*.iso)	
			Ouvrir A	nnuler

14) Etape 14 : Sélectionner l'iso téléchargé précédemment :

Ι

15) Etape 15 : Enfin, cliquer sur « Finish » :

New Virtual Machine Wizard	\times
Ready to Create Virtual Machine Click Finish to create the virtual machine. Then you can install Debian 11.x.	
The virtual machine will be created with the following settings:	
Name: Proxmox	
Location: C:\Users\lecla\Documents\Virtual Machines\Proxmox	
Version: Workstation 17.x	
Operating System: Debian 11.x	
Hard Disk: 20 GB, Split	
Memory: 4096 MB	
Network Adapter: NAT	
Other Devices: 4 CPU cores, CD/DVD, USB Controller, Printer, Sound C	
Customize Hardware	
\checkmark	
< Back Finish Cance	!

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16) Etape 16 : Cliquer sur la nouvelle VM dédiée à Proxmox et cliquer sur « Power on » :

	– a ×
The bar is not response to the second of the	

17) Etape 17: Choisir l'option d'installation « Install Proxmox (Graphical) » :



enter: select, arrow keys: navigate, e: edit entry, esc: back

18) Etape 18 : Cliquer sur « Next » :

×		Proxmox VE Insta	aller
T p tt w P in	he Proxmox Installer automatically artitions your hard disk. It installs all required ackages and makes the system bootable from e hard disk. All existing partitions and data ill be lost. ess the Next button to continue the stallation.	 Please verify the installation target The displayed hard disk will be used for the installation. Warning: All existing partitions and data will be lost. Automatic hardware detection The installer automatically configures your hardware. Graphical user interface Final configuration will be done on the graphical user interface, via a web browser. 	
Abort	Target Harddisk /dev/sda (20.00Gi	B, VMware Virtual S) 🔻 Options	Desuious Next

19) Etape 19 : Sélectionner « France » , puis cliquer sur « Next » :



20) Etape 20 : Entrer un mot de passe et un email, puis cliquer sur « Next » :

1	2
XPROXM	Proxmox VE Installer
Administration Proxmox Virtual Environment is featured, highly secure GNU/Linux sy based on Debian. In this step, please provide the root p	 Password and Email Address Password: Please use a strong password. It should be at least 8 characters long, and contain a combination of letters, numbers, and symbols. Email: Enter a valid email address. Your Proxmox VE server will send important alert notifications to this email account (such as backup failures, high availability events, etc.). Press the Next button to continue the installation.
	Password ••••••••• Confirm ••••••••• Email support@assurmer.eu
Abort	Previous Next

21) Etape 21 : Configurer les paramètres avec les informations fournis dans le screen cidessous, puis cliquer sur « Next » 1

XPRC	- 2) XMC	Proxmox VE Installer
	Management	Network Configuration
Please verify the configuration. You configuration to a interface after ins After you have fin You will be shown chose during the	e displayed network will need a valid netwo ccess the management talling. ished, press the Next b a list of the options tha previous steps.	 IP address (CIDR): Set the main IP address and netmask for your server in CIDR notation. Gateway: IP address of your gateway or firewall. DNS Server: IP address of your DNS server.
	Management Interface	ens33 - 00:0c:29:88:8b:71 (pcnet32) 🔻
	Hostname (FQDN)	Prox.assurmer
	IP Address (CIDR)	172.16.0.2 / 24
	Gateway	172.16.0.1
	DNS Server	
Abort		Next

22) Etape 22 : Cliquer sur « Next » :

1

×	PRO	Proxmox VE Insta	aller
		Summary	
	Please confirm the dis begin to partition your d	played information. Once you press the Install button, the installer will rive(s) and extract the required files.	
	Option	Value	
	Filesystem:	ext4	
	Disk(s):	/dev/sda	
	Country:	France	
	Timezone:	Europe/Paris	
	Keymap:	fr	
	Email:	support@assurmer.eu	
	Management Interface:	ens33	
	Hostname:	Prox	
	IP CIDR:	172.16.0.2/24	
	Gateway:	172.16.0.1	\mathbf{X}
	DNS:	0.0.0.0	\sim
			\sim
			\sim
		Automatically reboot after successful installation	Ĺ
			(in the second
oort			Previous

23) **Etape 23 :** Une fois l'installation terminée, une page pour s'authentifier doit apparaître :

Welcome to the Proxmox Virtual Environment. Please use your web browser to configure this server - connect to: https://172.16.0.2:8006/ Prox login: root_	
Prox login: root_	Welcome to the Proxmox Virtual Environment. Please use your web browser to configure this server - connect to: https://172.16.0.2:8006/
	Prox login: root_ K

24) **Etape 24 :** Maintenant pour accéder à l'interface web de Proxmox il est nécessaire de configurer le réseau de notre VM Proxmox. Pour ce faire, il faut se rendre sur Vmware et cliquer sur « **Edit** » :

D VMware Workstation					
File Edit View VM T	Tabs Help ▼ 母 ♀ ♀ ♀ □□ 曰 [] 次 ⊵ [2 -			
Library ×	🔓 Home 🗙 🖵 My Computer 🛛 🕞 Proxmox 🗙				
, Ø Type here to sea… ▼					
My Computer Ubuntu 64-bit Proxmox		WOR	KSTATION PI	ro ⁻ 17	
		(\pm)	đ	\downarrow	
		Create a New Virtual Machine	Open a Virtual Machine	Connect to a Remote Server	

25) Etape 25 : Cliquer sur « Virtual network editor » :



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26) Etape 26 : Cliquer sur « Change Settings » :

👳 Virtual	Network Ed	itor			×
Name	Туре	External Connection	Host Connection	DHCP	Subnet Address
VMnet1	Host-only	-	Connected	Enabled	192.168.106.0
VMnet8	NAT	NAT	Connected	Enabled	192.168.154.0
VMnet19	Host-only	-	Connected	Enabled	172.16.0.0
VMpot Info	mation	Ad	dd Network Remo	ve Network	Rename Network
	I (connect V/M	is directly to the external netw	ork)		
bridget	(connect viv	is unectly to the external netwo			
Bridged	d to:			~ A	utomatic Settings
ONAT (s	hared host's 1	IP address with VMs)	\backslash		NAT Settings
O Host-or	nly (connect V	/Ms internally in a private netw	vork)		
Connec	t a host virtu	al adapter to this network		\backslash	
Use loc	al DHCP servi	ice to distribute IP address to \	/Ms		DHCP Settings
Subnet IP:	192.168.	106 . 0 Subnet mask:	255.255.255.0	J	
	🛆 Adm	inistrator privileges are require	ed to modify the network o	configuration.	Change Settings
Restore Def	faults Im	port Export	OK Cancel	Арр	Help

27) Etape 27 : Configurer un nouveau réseau avec l'ip suivante « 172.16.0.0 » :

👮 Virtual	Network Ed	itor			>
Name	Type	External Connection	Host Connec	ction DHCF	Subnet Address
VMnet1	Host-only	-	Connected	Enab	led 192.168.106.0
VMnet8	NAT	NAT	Connected	Enab	led 192.168.154.0
VMnet Info	ormation d (connect VN	Is directly to the external	Add Network	Remove Netv	vork Rename Network.
Bridge	ed to: Automa	atic			 Automatic Settings
	shared host's	IP address with VMs)			NAT Settings
O Host-o	nly (connect \	/Ms internally in a private	e network)		
Conne Host v	ct a host virtu irtual adapter	al adapter to this networ name: VMware Network	k Adapter VMnet19		
🔽 Use lo	cal DHCP serv	ice to distribute IP addres	ss to VMs		DHCP Settings
Subnet IP	: 172.16.	0 . 0 Subnet n	nask: 255.255.255.	0	
Restore De	faults Im	port Export	ок	Cancel	Apply Help

PROCEDURE INSTALLATION PROXMOX



29) Etape 29 : Il faut maintenant modifier les paramètres de la VM Proxmox en cliquant sur « Edit » :

	Close Tab	
	Mark as Favorite	
	Rename	
	Open VM directory	
	Remove	
Ċ	Power	>
9	Removable Devices	>
	Pause	
목	Send Ctrl+Alt+Del	
	Grab Input	
	SSH	>
to the second se	Snapshot	>
	Capture Screen	
13	Manage	>
	Install VMware Tools	
	Settings	

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options	/	Memory	
Device	Summary 4 GB 4 20 GB Using file C:\Users\lecta\Dot Custom (VMnet19) Present Auto detect Present Auto detect	Memory Specify the amount of memory allocated to this virtual mac size must be a multiple of 4 MB. Memory for this virtual machine: 128 GB - 64 GB - 32 GB - 16 GB - 8 GB - 1 GB - 1 GB - 1 GB - 2	thine. The memory

30) Etape 30 : Cliquer sur « Network adaptater » :

31) Etape 31 : Cocher la case « Custom », puis sélectionner le réseau « Vmnet19 » :

Arrival Machine Settings	Summary 4 GB 4 20 GB Using file C:\Users\lecla\Dow Custom (VMnet19) Present Auto detect Present Auto detect		~ ed
	Add Remove	VMnet8 (NAT) VMnet10 VMnet11 VMnet12 VMnet13 VMnet15 VMnet15 VMnet17 VMnet17 VMnet19 (Host-only)	

32) Etape 32 : Cliquer sur « OK » :

N

Image: Add Device Summary 4 GB Hand Disk (SCS) 20 GB CD/DVD (DE) Using file C:\Users\lecta\Down © CD/DVD (DE) Using file C:\Users\lecta\Down Bidged: Connect dd power on Network connection Bridged: Connect dd foretry to the physical network Printer Present Display Auto detect Vetorik connect in power on Network connection Bridged: Connect dd foretry to the physical network Printer Present Display Auto detect Vetorik connect di foretry to the physical network Interver Printer Present Users Vetorik connect di persent National data persent Users Interver Vetorik connect di persent Interver Vetorik connect di persent Interver Vetorik connet di persent Interver <th>irtual Machine Setting</th> <th>5</th> <th></th>	irtual Machine Setting	5	
Device Summary Homory 4 GB Processors 4 Hard Disk (SCSI) 20 GB Oct/VUD (IDE) Using file C:Users/lecta/boxt Vetwork Adapter Custom (VMnet19) Present Auto detect Printer Present Display Auto detect VMetury Adapter Custom (VMnet19) Visual Card Auto detect Printer Present Display Auto detect Value Value Adapter Custom: Specific virtual network shared with the host Custom: Specific virtual network Value Val	lardware Options		
Add Remove	Device Memory Processors Hard Disk (SCSI) CD/DVD (IDE) Network Adapter USB Controller Printer Display	Summary 4 GB 4 20 GB Using file C:\Users\lecla\Dow Custom (VMnet19) Present Auto detect Present Auto detect	Device status Connected Connect at power on Network connection Replicate physical network connection state NAT: Used to share the host's IP address Host-only: A private network shared with the host Custom: Specific virtual network VMnet19 (Host-only) AN segment: LAN Segments Advanced.
		Add Remove	

33) **Etape 33 :** Maintenant, il est nécessaire d'ouvrir un navigateur et entrer l'ip suivante « 172.16.0.2 :8006 » et cliquer sur « **entrer** »:



34) Etape 34 : L'accès à Proxmox doit fonctionner :

← → C (8)	Ion sécurisé <u>https</u> ://172	.16.0.2 :8006/#v	1:0:18:4:									\$	t≡	K :
X PROXMO	X Virtual Environment 8	3.2.2 Search								🔊 Docume	entation Create	/M 😭 Create C	T 🛔 ro	ot@pam √
Server View	· •	Datacenter												O Help
Datacenter														
> 🌄 Prox		Q Search									Search:			
		Summary		Туре ↑	Descriptio	n	Disk usage	Memory us	CPU usage	Uptime	Host CPU	Host Mem	Tags	
				🌆 node	Prox		30.2 %	28.8 %	1.1% of 4	00:33:20				
				sdn	localnetw	ork (Prox)								
			Cluster	🥃 stora	ge local (Pro	x)	30.2 %							
			(@) Ceph		ge local-lvm	(Prox)	0.0 %							
		Options												
		Storage												
		🖺 Backup												
		13 Replication												
		Permission	s 🔻											
		🔒 Users												
		API Tok	ens											
		A Two Fac	tor											
		Sroups												
		Doole												
		Roles												
		Realms												
Tasks Cluster log														
Start Time \downarrow	End Time	Node	User name		Description							Status		
Jun 27 15:53:03	Jun 27 15:53:03	Prox	root@pam		Bulk start VMs	and Containers						ок		
Jun 27 15:34:58	Jun 27 15:34:58	Prox	root@pam		Bulk start VMs	and Containers						ок		
Jun 27 15:28:00	Jun 27 15:28:00	Prox	root@pam		Bulk start VMs	and Containers						ок		

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