

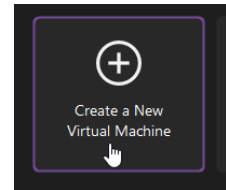
Atelier Virtualisation – VMware – Xen

Objectifs à atteindre

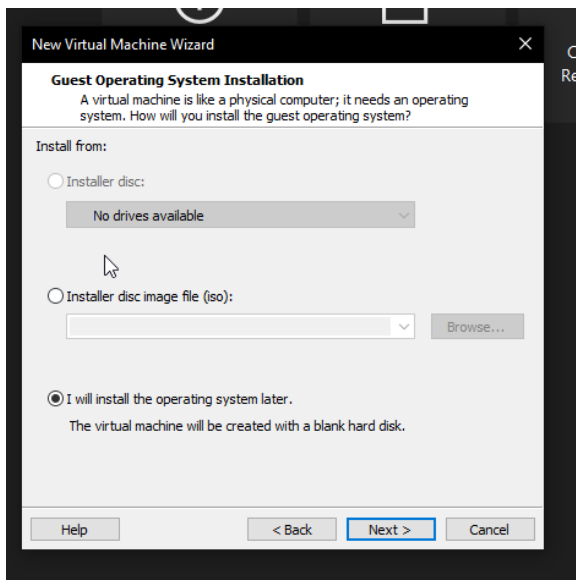
Installer l'hyperviseur en mode standalone

Installer l'iso ESXi (téléchargeable sur le site officiel de VMWare)

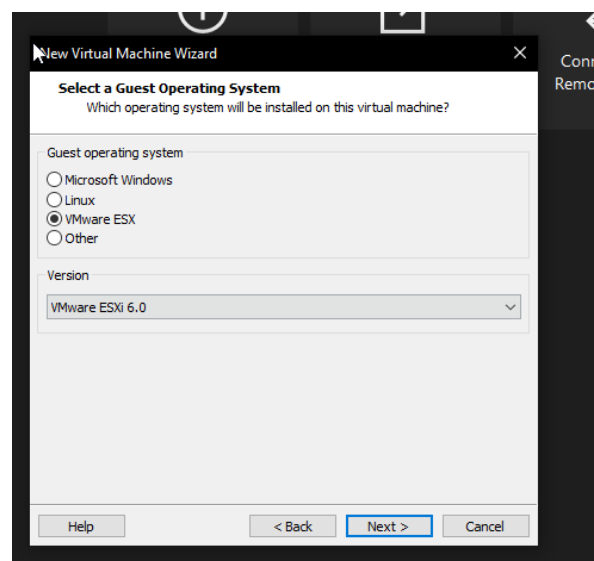
Sous VMWare workstation Create a New Virtual Machine.



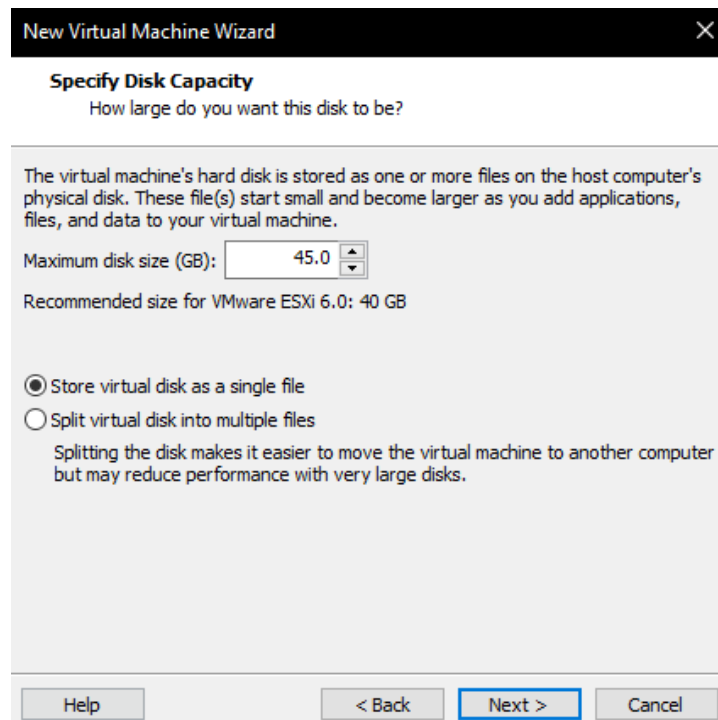
Cochez la 3ème case, nous téléchargerons l'ISO plus tard.



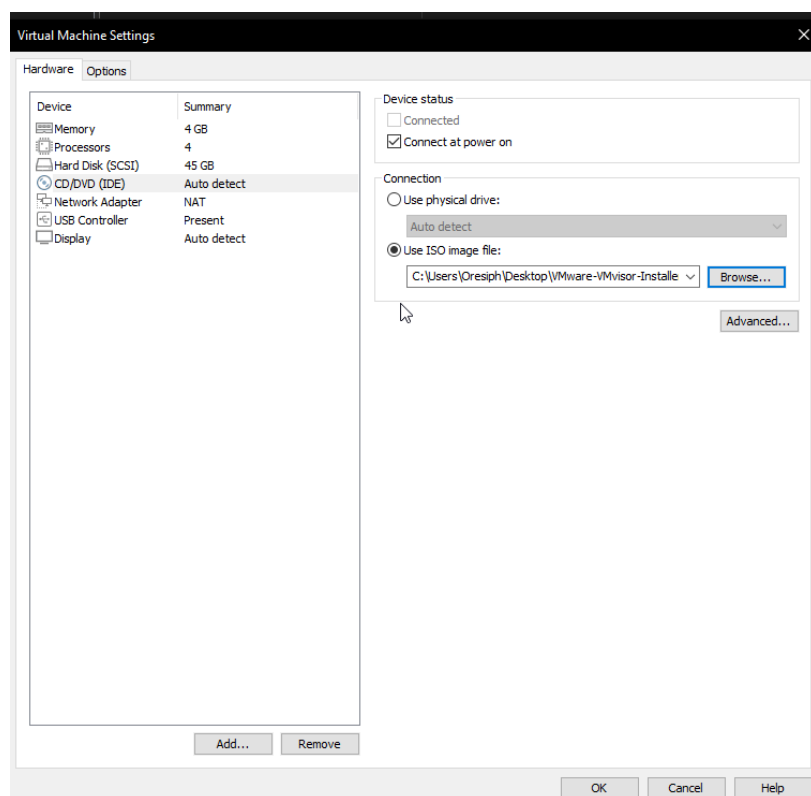
Choisissez l'OS VMware ESX.



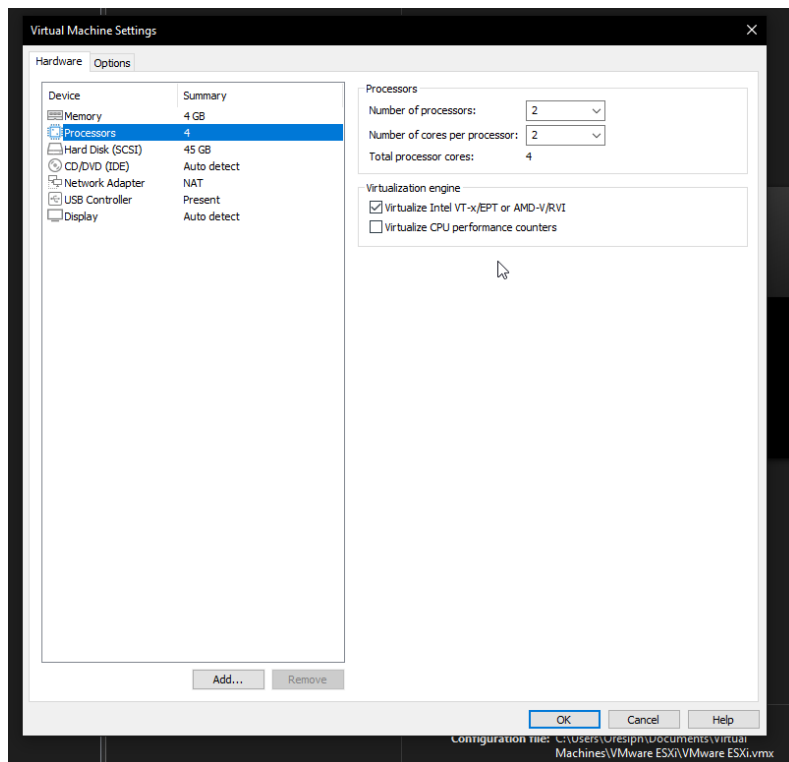
Allouez la place que vous souhaitez. Cependant, il faut avoir un minimum de 40 Go. Ensuite faites **Next**.



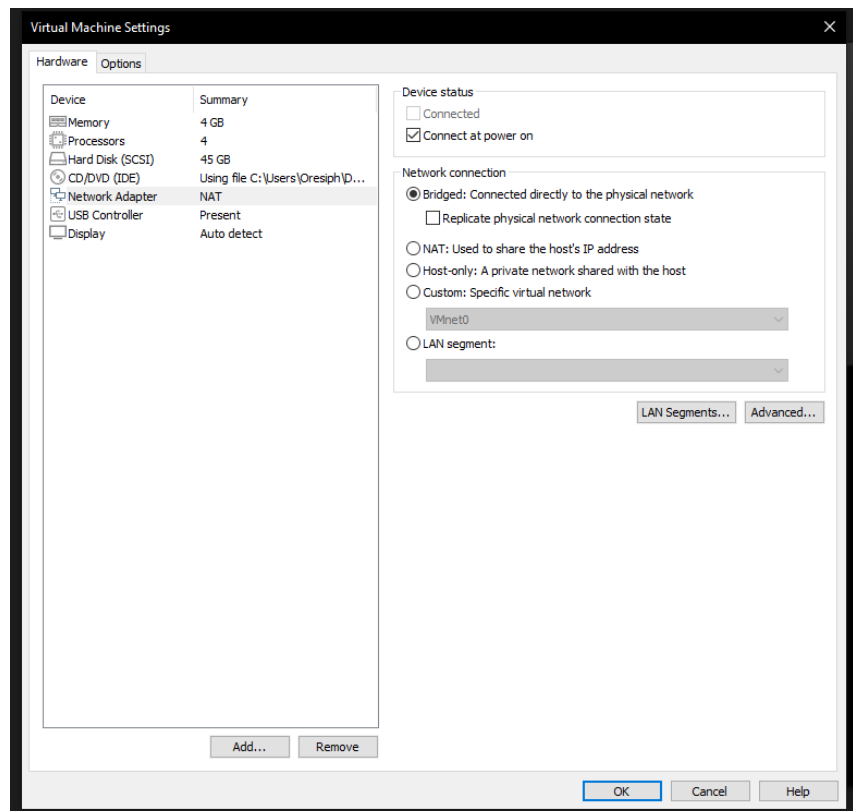
Allez par la suite dans l'option **CD/DVD (IDE)** de la machine via **Virtual Machine Settings** et choisissez l'ISO précédemment installé.



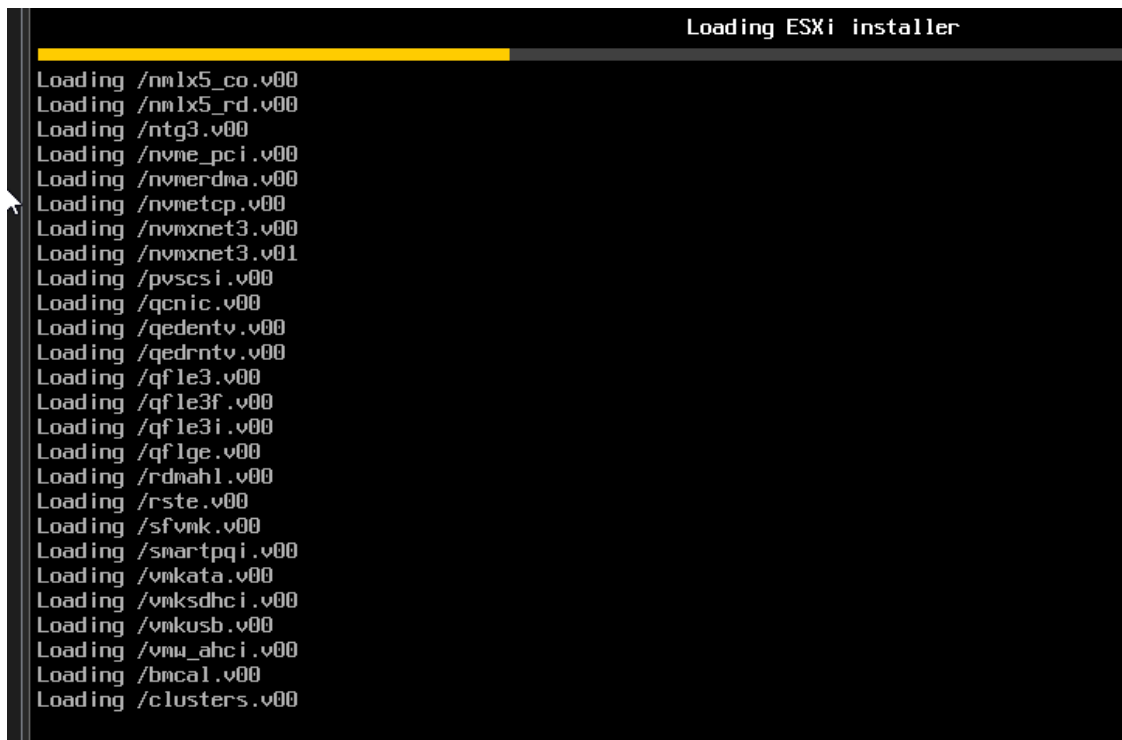
Puis dans **Processors** changez **Number of cores per processor** en 2.



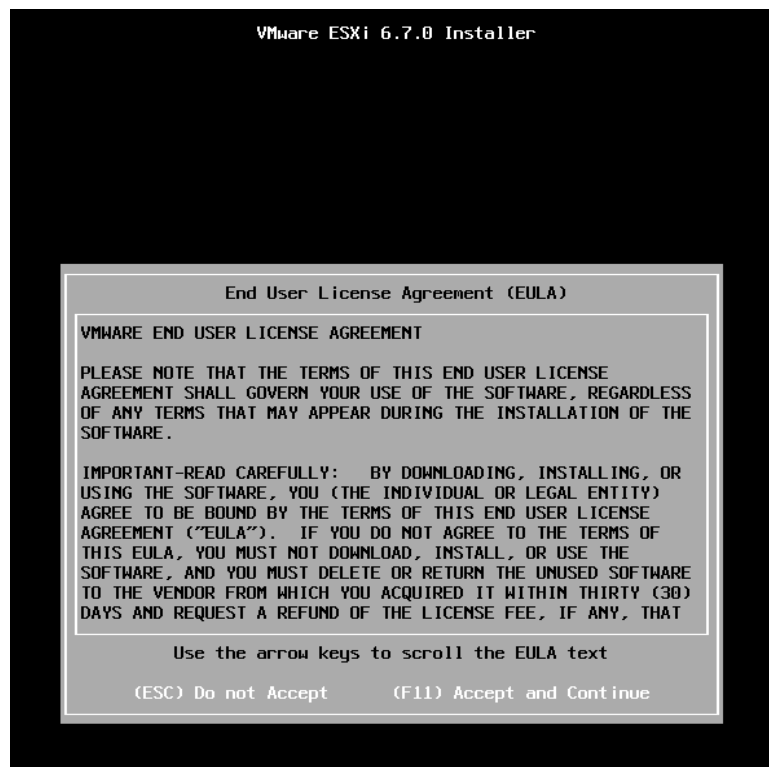
Ensuite il ne faut pas oublier dans **Network Adapter** de cocher la case **Bridged**. Cela permet de connecter directement le port réseau virtuel au port physique réseau de la machine hôte.



Enfin lancez la machine créée. Attendez qu'elle s'installe.



Quand le téléchargement sera fini. Cliquez la plupart du temps sur **Next**. Ici faites (F11).



Select a Disk to Install or Upgrade
(any existing VMFS-3 will be automatically upgraded to VMFS-5)

* Contains a VMFS partition
Claimed by VMware vSAN

Storage Device	Capacity
Local:	
VMware, VMware Virtual S (mpx.vmhba1:C0:T0:L0)	100.00 GiB
Remote:	
(none)	

(Esc) Cancel (F1) Details (F5) Refresh (Enter) Continue

Please select a keyboard layout

Croatian
Czechoslovakian
Danish
Estonian
Finnish
French
German

Use the arrow keys to scroll.

(Esc) Cancel (F9) Back (Enter) Continue

Enter a root password

Root password:
Confirm password:

Please enter a password.

(Esc) Cancel (F9) Back (Enter) Continue

Confirm Install

The installer is configured to install ESXi 6.7.0 on:
mpx.vmhba1:C0:T0:L0.

Warning: This disk will be repartitioned.

(Esc) Cancel (F9) Back (F11) Install

Installing ESXi 6.7.0

9 %

Installation Complete

ESXi 6.7.0 has been installed successfully.

ESXi 6.7.0 will operate in evaluation mode for 60 days.
To use ESXi 6.7.0 after the evaluation period, you must register for a VMware product license.

To administer your server, navigate to the server's hostname or IP address from your web browser or use the Direct Control User Interface.

Remove the installation media before rebooting.

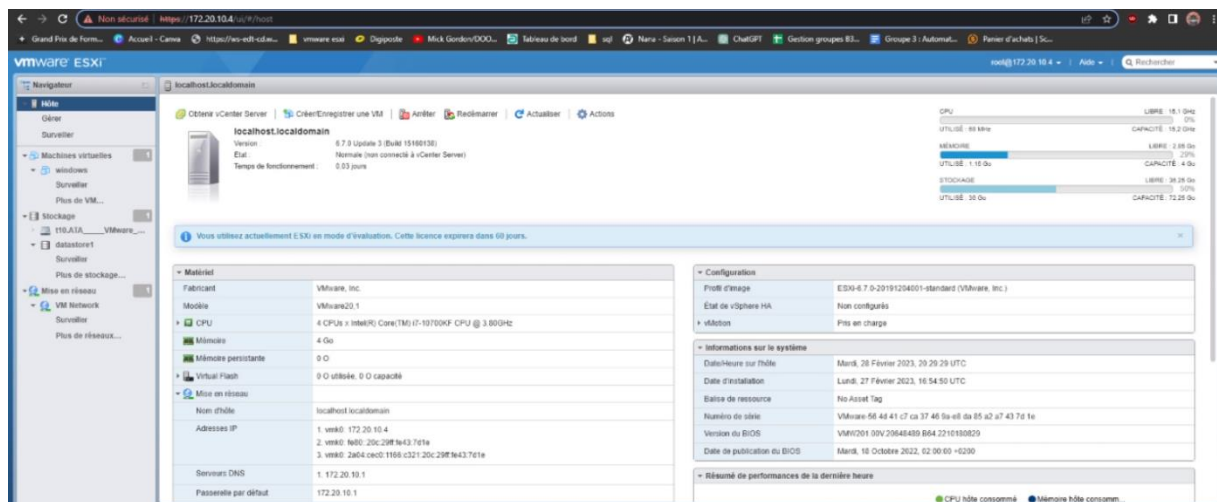
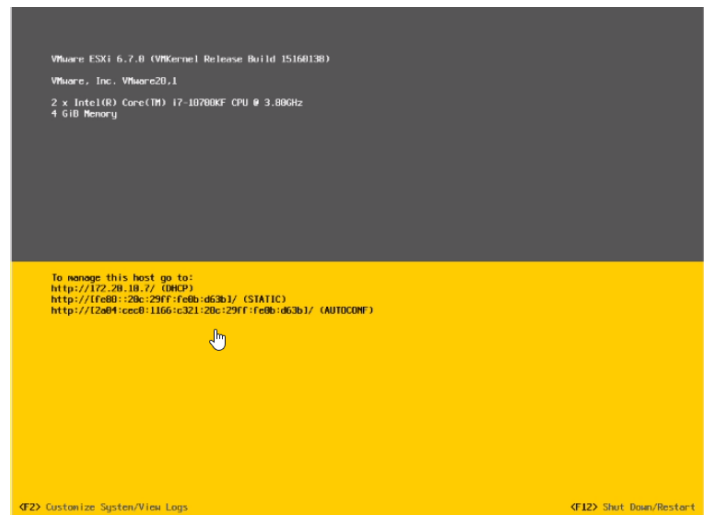
Reboot the server to start using ESXi 6.7.0.

(Enter) Reboot

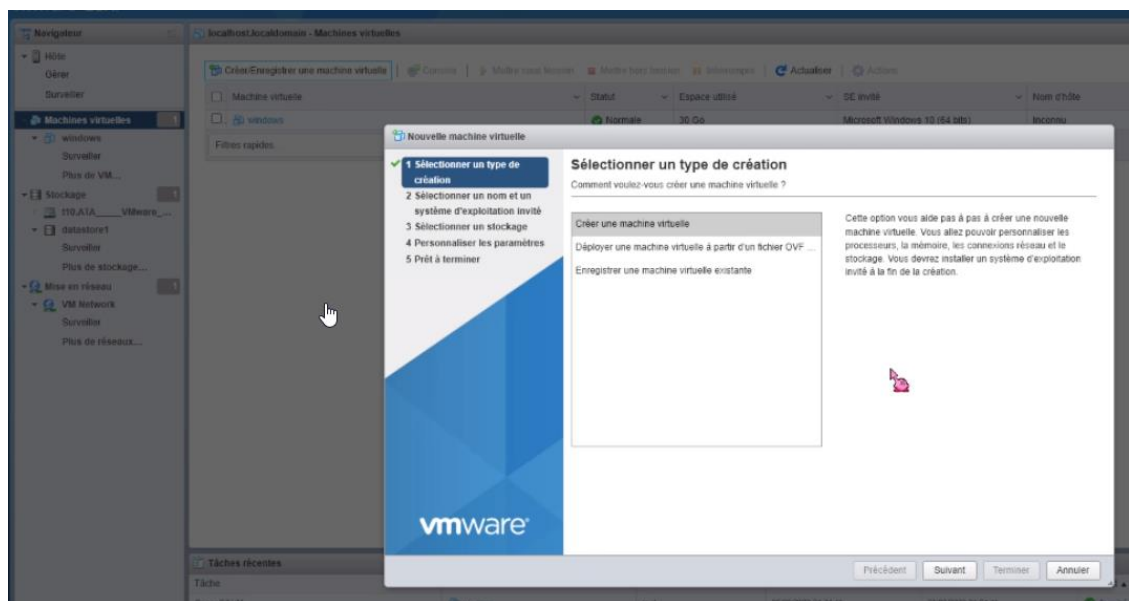
Rebooting Server

The server will shut down and reboot.

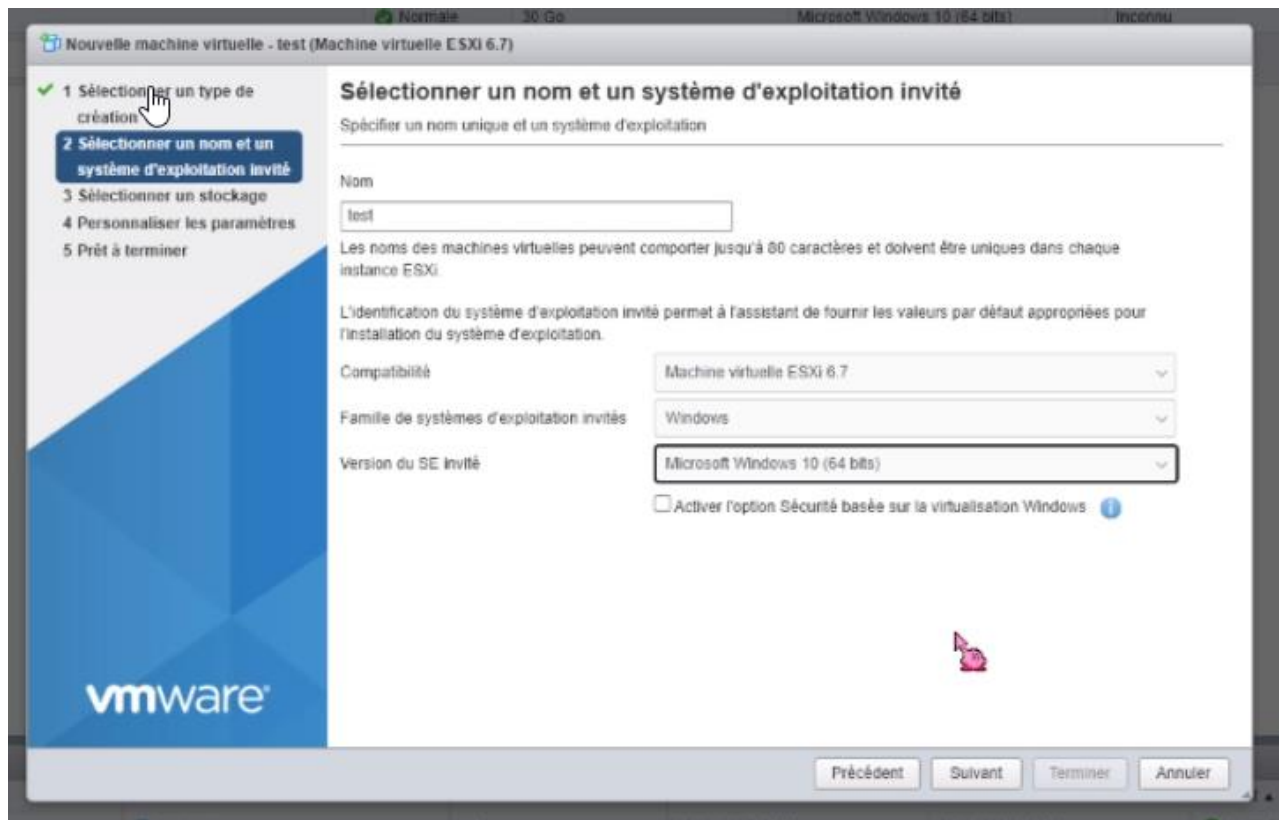
The process will take a short time to complete.



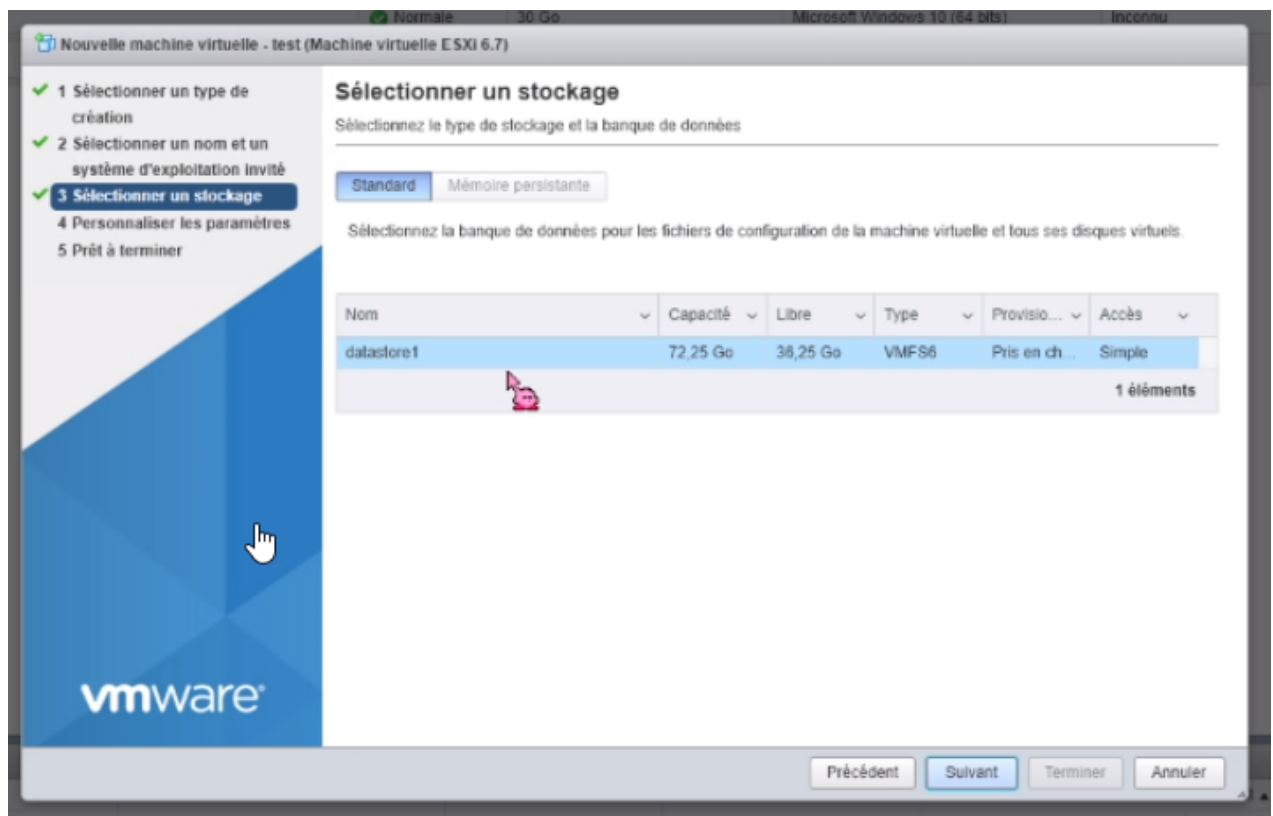
Créer une machine virtuelle (OS de votre choix)



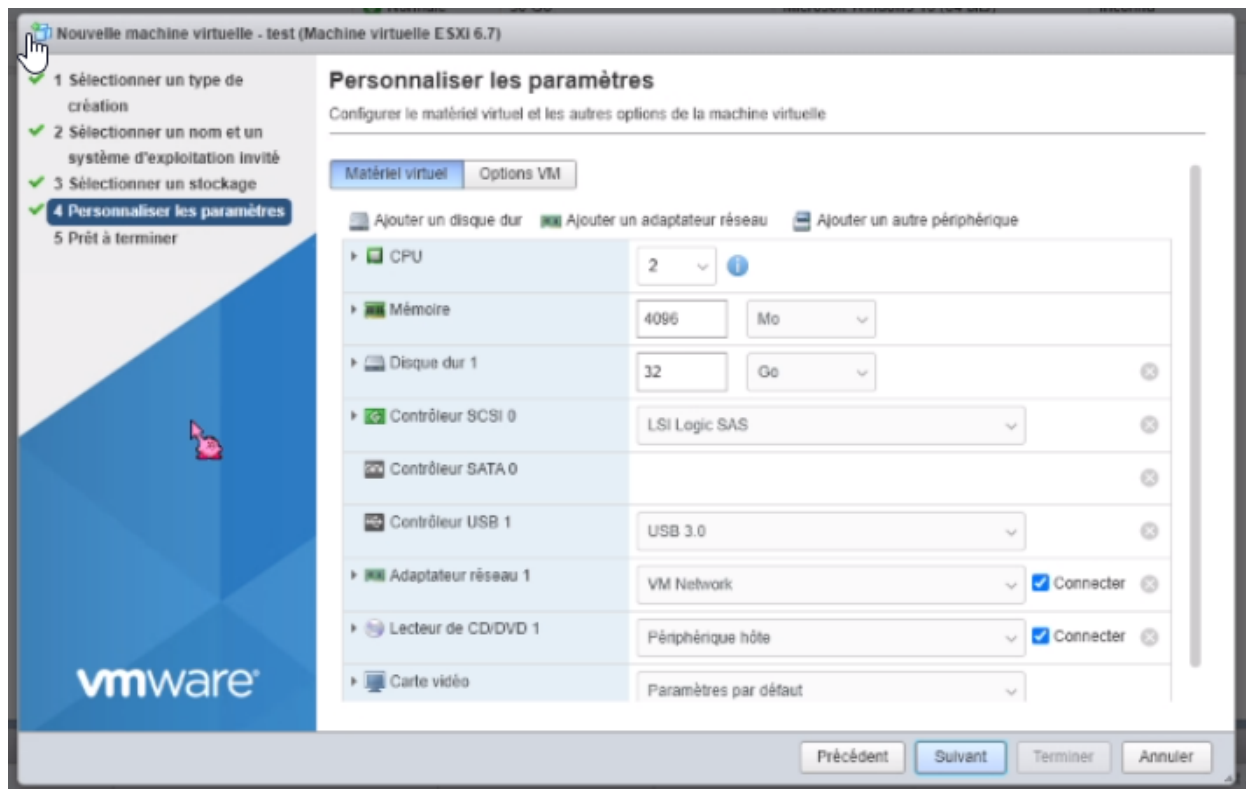
Mettre le nom de la future VM et sa catégorie.



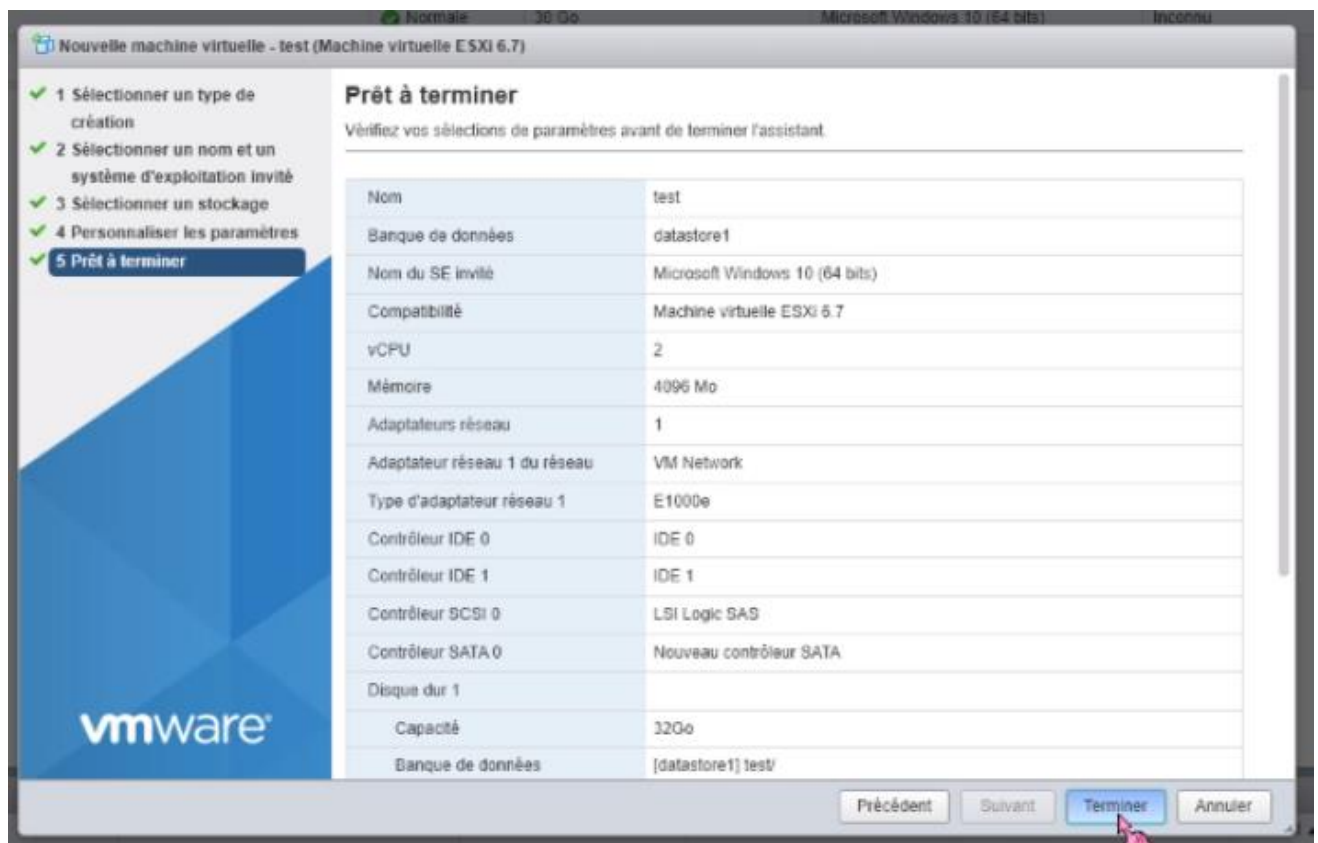
Préciser le lieu de stockage de la VM.

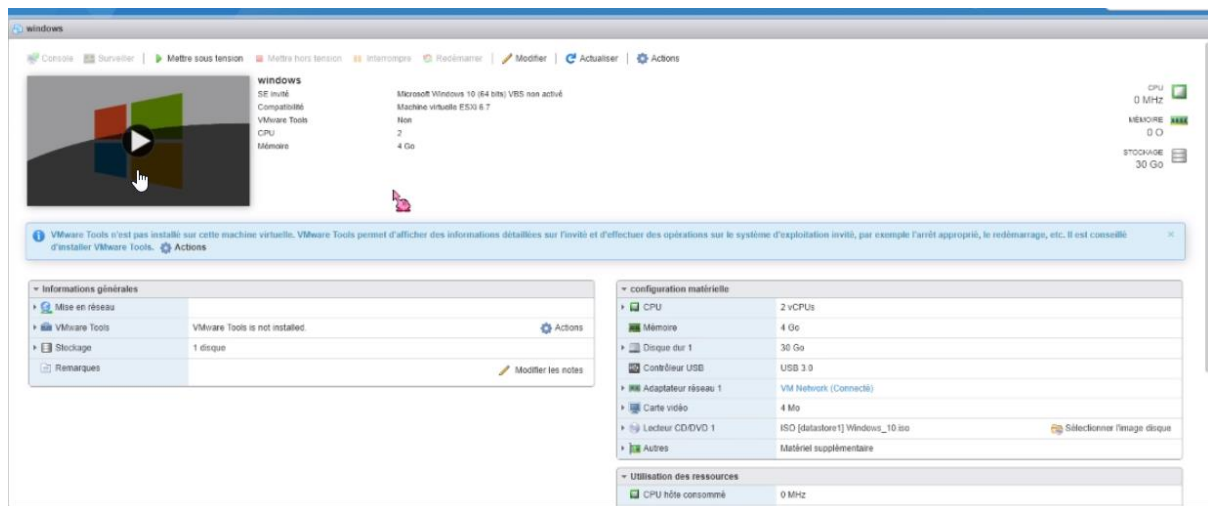


Ensuite vous pouvez modifier les paramètres de la VM.



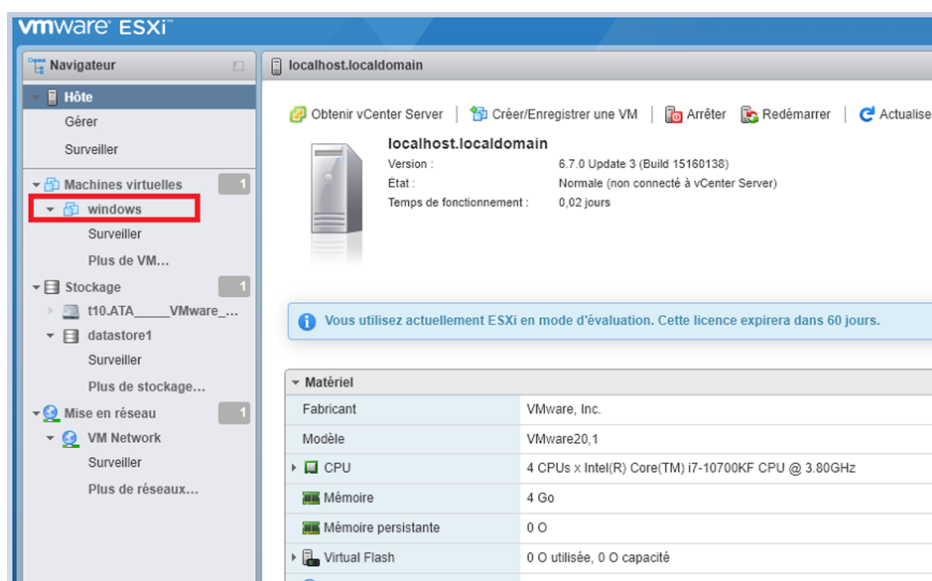
Récapitulatif.





Agrandir le stockage de cette machine virtuelle.

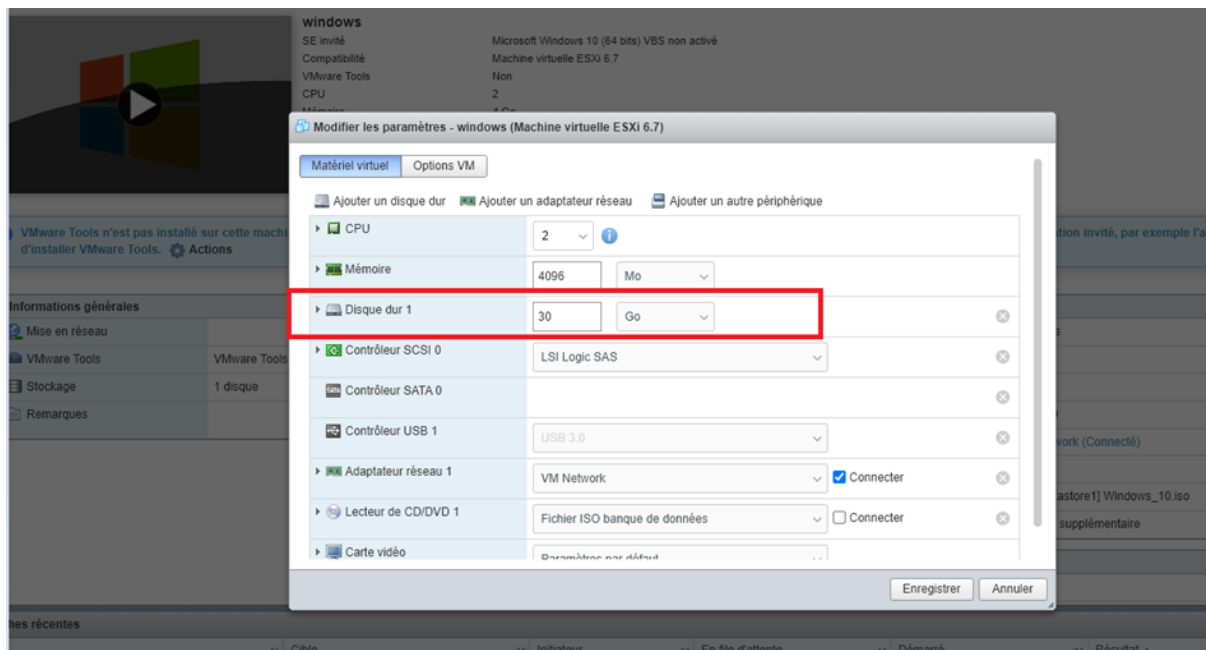
- Aller sur la VM qui a été créée au préalable dans ESXi.
- Ensuite cliquer sur modifier.
- Puis modifier la taille disque avec la valeur que vous voulez, du moment qu'elle loge dans la partition allouer à l'ESXi.



Ensuite cliquer sur modifier.

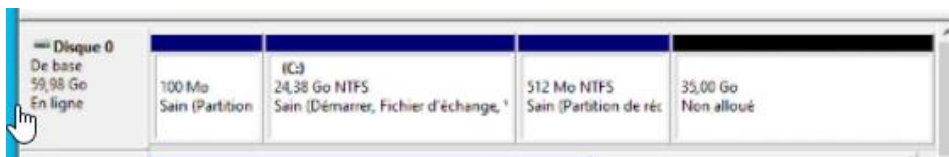


Puis modifier la taille disque avec la valeur que vous voulez de moment quel loge dans la partition allouer à l'ESXi.



Une fois le volume agrandi, aller sur la VM pour allouer le nouvel espace.

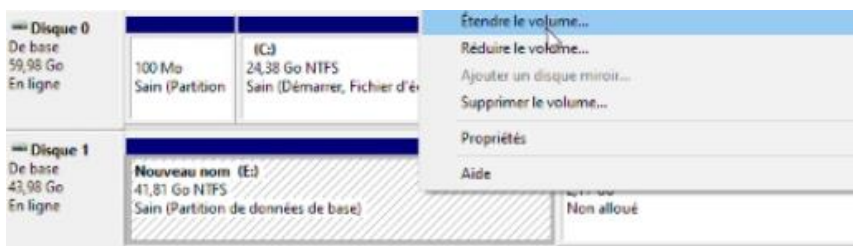
Néanmoins, pour pouvoir étendre le volume C: il faut déplacer le volume NTFS car il faut que le nouvel espace non alloué soit adjacent au volume C:.



De ce fait, nous allons créer un nouveau disque pour la VM et l'agrandir.



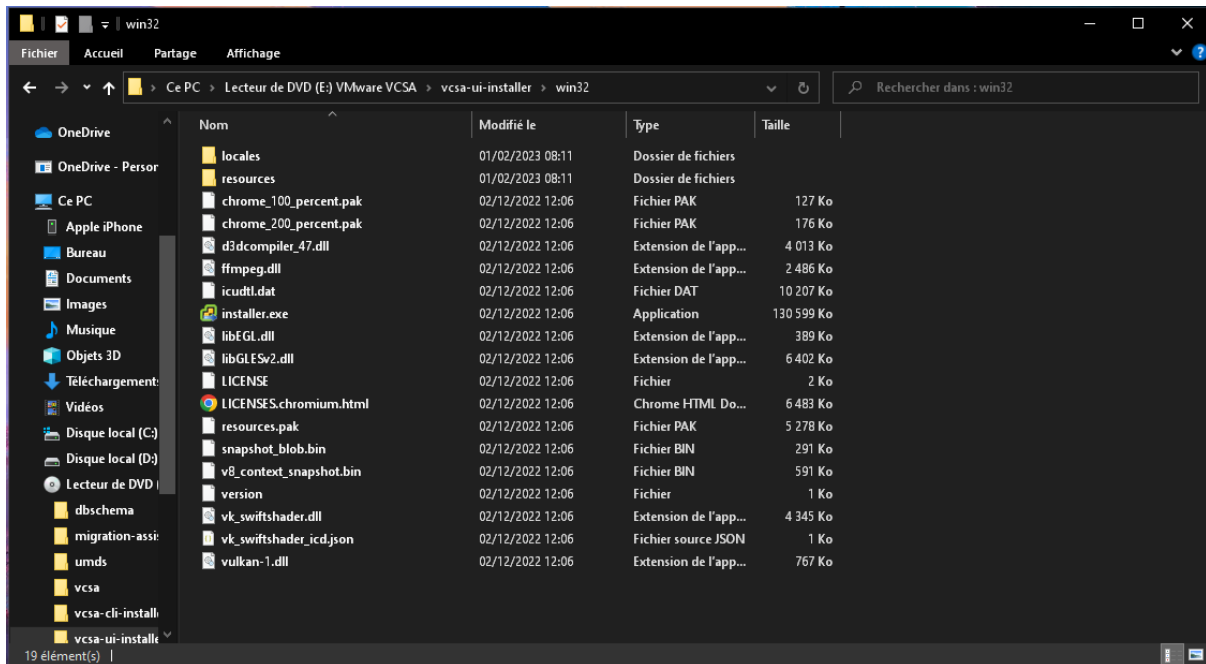
Clic droit sur le nouveau disque (dans notre cas E:) puis Étendre le volume



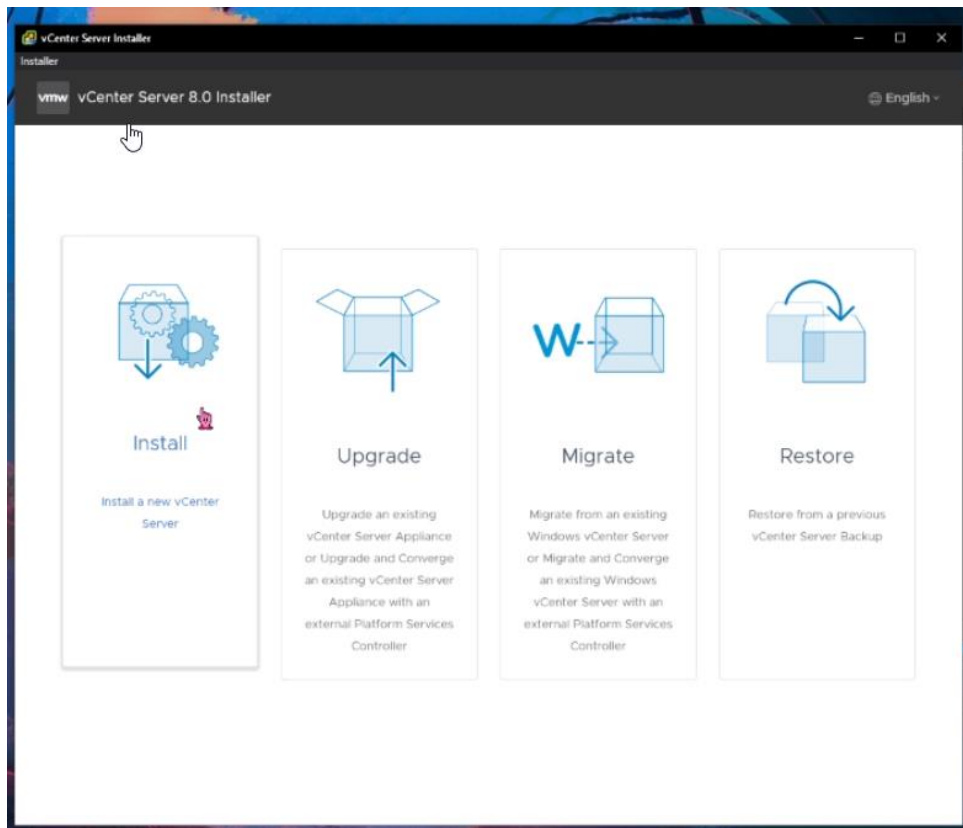
Puis faire **Suivant** sur les fenêtres suivantes afin de valider l'extension du volume E:.

Installer l'outil VSphere via l'installateur

Télécharger l'installateur Vcenter (sur le site de VMware) et exécuter **installer.exe**



Choisissez Install



Renseignez les informations nécessaires, (Compte de l'esxi)

The screenshot shows the 'vCenter Server Installer' window at 'Install - Stage 1: Deploy vCenter Server'. The left sidebar lists steps 1 through 8, with step 3, 'vCenter Server deployment target', highlighted. The main area is titled 'vCenter Server deployment target' and contains the instruction: 'Specify the vCenter Server deployment target settings. The target is the ESXi host or vCenter Server instance on which the vCenter Server will be deployed.' Below this, there are four input fields: 'ESXi host or vCenter Server name' with the value '172.20.10.5', 'HTTPS port' with the value '443', 'User name' with the value 'root', and 'Password' with masked characters. Each field has an information icon (i) to its right. At the bottom right, there are three buttons: 'CANCEL', 'BACK', and 'NEXT'.

vCenter Server Installer
Installer
vmw Install - Stage 1: Deploy vCenter Server

1 Introduction
2 End user license agreement
3 vCenter Server deployment target
4 Set up vCenter Server VM
5 Select deployment size
6 Select datastore
7 Configure network settings
8 Ready to complete stage 1

vCenter Server deployment target

Specify the vCenter Server deployment target settings. The target is the ESXi host or vCenter Server instance on which the vCenter Server will be deployed.

ESXi host or vCenter Server name 172.20.10.5 ⓘ
HTTPS port 443
User name root ⓘ
Password

CANCEL BACK NEXT

The screenshot shows the 'vCenter Server Installer' window at 'Install - Stage 1: Deploy vCenter Server'. The left sidebar lists steps 1 through 8, with step 4, 'Set up vCenter Server VM', highlighted. The main area is titled 'Set up vCenter Server VM' and contains the instruction: 'Specify the VM settings for the vCenter Server to be deployed.' Below this, there are three input fields: 'VM name' with the value 'vcenter esxi', 'Set root password' with masked characters, and 'Confirm root password' with masked characters. Each field has an information icon (i) to its right. At the bottom right, there are three buttons: 'CANCEL', 'BACK', and 'NEXT'.

vCenter Server Installer
Installer
vmw Install - Stage 1: Deploy vCenter Server

1 Introduction
2 End user license agreement
3 vCenter Server deployment target
4 Set up vCenter Server VM
5 Select deployment size
6 Select datastore
7 Configure network settings
8 Ready to complete stage 1

Set up vCenter Server VM

Specify the VM settings for the vCenter Server to be deployed.

VM name vcenter esxi ⓘ
Set root password ⓘ
Confirm root password

CANCEL BACK NEXT

Laissez par défaut

vmwv Install - Stage 1: Deploy vCenter Server

1 Introduction
2 End user license agreement
3 vCenter Server deployment target
4 Set up vCenter Server VM
5 **Select deployment size**
6 Select datastore
7 Configure network settings
8 Ready to complete stage 1

Select deployment size

Select the deployment size for this vCenter Server.

For more information on deployment sizes, refer to the vSphere 8.0 documentation.

Deployment size: **Tiny**

Storage size: **Default**

Resources required for different deployment sizes

Deployment Size	vCPUs	Memory (GB)	Storage (GB)	Hosts (up to)	VMs (up to)
Tiny	2	14	579	10	100
Small	4	21	694	100	1000
Medium	8	30	908	400	4000
Large	16	39	1358	1000	10000
X-Large	24	58	2283	2000	35000

CANCEL BACK NEXT

Choisir l'endroit pour le stocker

vmwv Install - Stage 1: Deploy vCenter Server

1 Introduction
2 End user license agreement
3 vCenter Server deployment target
4 Set up vCenter Server VM
5 Select deployment size
6 **Select datastore**
7 Configure network settings
8 Ready to complete stage 1

Select datastore

Select the storage location for this vCenter Server

☒ Install on an existing datastore accessible from the target host

☒ Show only compatible datastores

Name	Type	Capacity	Free	Provisioned	Thin Provisioning
datastore1	VMFS-6	713.5 GB	712.08 GB	1.42 GB	Supported

1 item

☒ Enable Thin Disk Mode

☐ Install on a new vSAN cluster containing the target host

CANCEL BACK NEXT

Choisir l'option DHCP puisque nous n'avons pas notre propre réseau

The screenshot shows the 'vCenter Server Installer' window at 'Stage 1: Deploy vCenter Server'. On the left is a navigation pane with steps 1 through 8. Step 7, 'Configure network settings', is selected and highlighted. The main area is titled 'Configure network settings' and contains the instruction 'Configure network settings for this vCenter Server'. Below this are several configuration fields: 'Network' (set to 'VM Network'), 'IP version' (set to 'IPv4'), 'IP assignment' (set to 'DHCP'), and 'FQDN' (set to 'FQDN (optional)'). There are also 'Common Ports' fields for 'HTTP' (80) and 'HTTPS' (443). At the bottom right are 'CANCEL', 'BACK', and 'NEXT' buttons. A mouse cursor is pointing at the 'DHCP' option in the 'IP assignment' dropdown.

Field	Value
Network	VM Network
IP version	IPv4
IP assignment	DHCP
FQDN	FQDN (optional)
Common Ports	
HTTP	80
HTTPS	443

Continue

The screenshot shows a success message dialog box titled 'Install - Stage 1: Deploy vCenter Server'. The message states: 'You have successfully deployed the vCenter Server.' Below this, it says: 'To proceed with stage 2 of the deployment process, vCenter Server setup, click Continue.' It also provides a URL: 'If you exit, you can continue with the vCenter Server setup at any time by logging in to the vCenter Server Management interface https://172.20.10.7:5480/'. At the bottom right are 'CANCEL', 'CLOSE', and 'CONTINUE' buttons. A mouse cursor is pointing at the 'CONTINUE' button.

Install - Stage 1: Deploy vCenter Server

① You have successfully deployed the vCenter Server.

To proceed with stage 2 of the deployment process, vCenter Server setup, click Continue.

If you exit, you can continue with the vCenter Server setup at any time by logging in to the vCenter Server Management interface <https://172.20.10.7:5480/>

CANCEL CLOSE CONTINUE

Ici on passe à la deuxième étape.


Setup Wizard

- 1 Introduction
- 2 vCenter Server Configuration
- 3 SSO Configuration
- 4 Configure CEIP
- 5 Ready to complete

Introduction


vCenter Server installation overview

Stage 1



Deploy new vCenter Server

Stage 2



Set up vCenter Server

Installing the vCenter Server is a two stage process. The first stage has been completed. Click Next, to proceed with Stage 2, setting up the vCenter Server.

CANCEL

NEXT


Setup Wizard

- 1 Introduction
- 2 vCenter Server Configuration
- 3 SSO Configuration
- 4 Configure CEIP
- 5 Ready to complete

vCenter Server Configuration

Time synchronization mode Synchronize time with the ESXi host

SSH access Activated



CANCEL

BACK

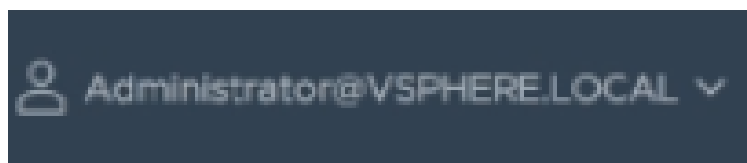
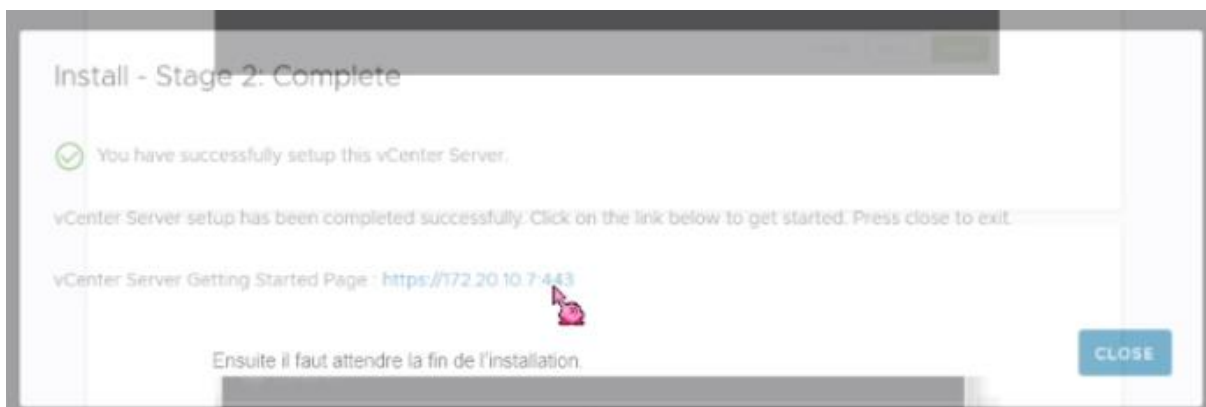
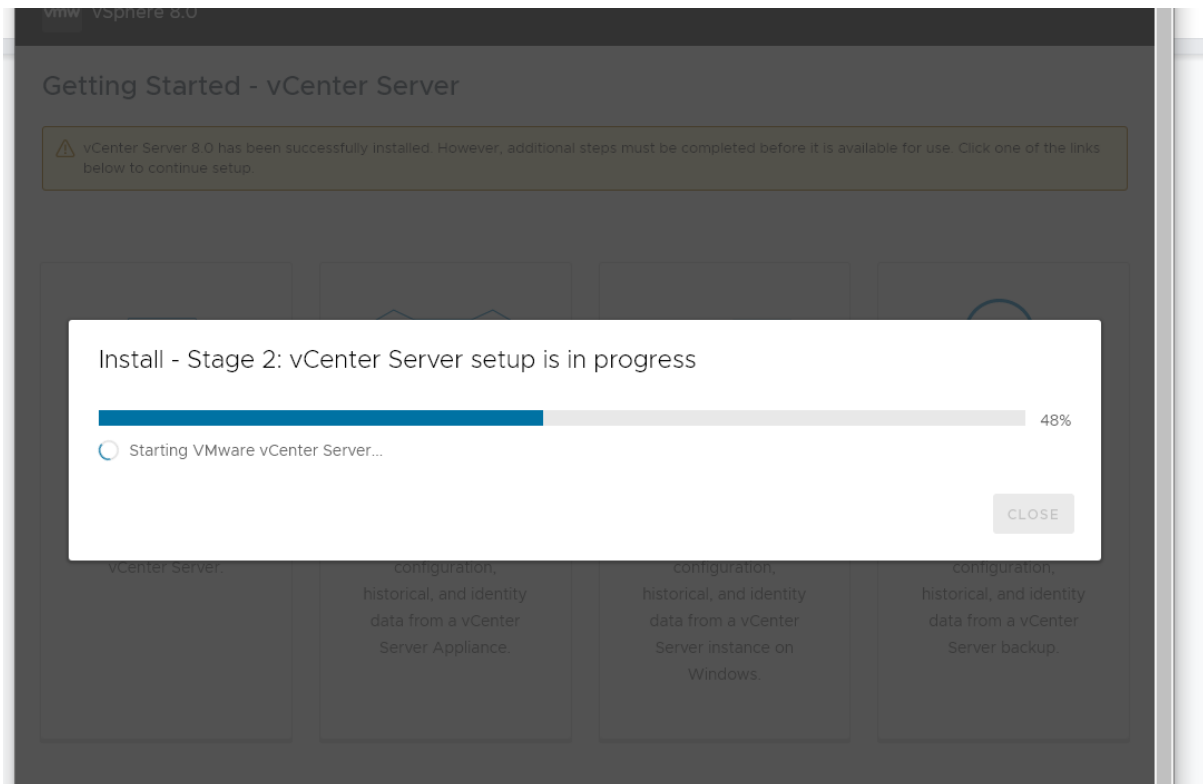
NEXT

On rentre le nom de notre domaine ici vsphere.local notre compte se nomme administrator.

The screenshot shows the 'Setup Wizard' with the 'SSO Configuration' step selected. The wizard has five steps: 1. Introduction, 2. vCenter Server Configuration, 3. SSO Configuration (current), 4. Configure CEIP, and 5. Ready to complete. The 'SSO Configuration' section has two options: 'Create a new SSO domain' (selected) and 'Join an existing SSO domain'. Under 'Create a new SSO domain', there are four fields: 'Single Sign-On domain name' (vsphere.local), 'Single Sign-On username' (administrator), 'Single Sign-On password' (masked with dots), and 'Confirm password' (masked with dots). There are information icons (i) and eye icons (visibility) for the domain name, username, and passwords. Below these fields is a diagram showing a 'vCenter Server' box with an arrow pointing to a dashed box representing the SSO domain. At the bottom right are 'CANCEL', 'BACK', and 'NEXT' buttons.

The screenshot shows the 'Setup Wizard' at the 'Ready to complete' step. The wizard has five steps: 1. Introduction, 2. vCenter Server Configuration, 3. SSO Configuration, 4. Configure CEIP, and 5. Ready to complete (current). The 'Ready to complete' section has a heading 'Review your settings before finishing the wizard' and two expandable sections: 'Network Details' and 'vCenter Server Details'. The 'Network Details' section shows 'Network configuration' with the option 'Continue with the existing settings'. The 'vCenter Server Details' section shows 'Time synchronization mode' with the option 'Synchronize time with the ESXi host'. A 'Warning' dialog box is open in the center, with the text: 'Warning: You will not be able to pause or stop the install from completing once its started. Click OK to continue, or Cancel to stop the install.' The dialog has 'CANCEL' and 'OK' buttons. At the bottom right are 'CANCEL', 'BACK', and 'FINISH' buttons.

Ensuite il faut attendre la fin de l'installation.



Nouveau cluster

1 Informations de base

2 Image

3 Vérifier

Informations de base

Nom	Cluster
Emplacement	centre de donnée
vSphere DRS	<input checked="" type="checkbox"/>
vSphere HA	<input checked="" type="checkbox"/>
vSAN	<input type="checkbox"/> Activer vSAN ESA

☒ Gérer tous les hôtes du cluster avec une seule image

Choisir comment configurer l'image du cluster

☒ Composer une nouvelle image
 ☐ Importer une image à partir d'un hôte existant dans l'inventaire vCenter
 ☐ Importer une image à partir d'un nouvel hôte

☐ Gérer la configuration au niveau du cluster

ANNULER

SUIVANT

Suivant jusqu'à la fin

centre de donnée

CLUSTER ESX

Actions - CLUSTER ESX

Ajouter des hôtes...

Ajouter des hôtes

1 Ajouter des hôtes

2 Résumé hôte

3 Importer une image

4 Vérifier

Ajouter de nouveaux hôtes et des hôtes existants à votre cluster

Nouveaux hôtes (2) Hôtes existants (0 sur 0)

☐ Utiliser les mêmes informations d'identification pour tous les hôtes

172.20.10.9	root	*****	X
172.20.10.5	root	*****	X

AJOUTER UN HÔTE

ANNULER

SUIVANT

Ajouter

Ajouter des hôtes

1 Ajouter des hôtes

2 Résumé hôte

3 Importer une image

4 Vérifier

Résumé de l'hôte

1 hôte a des avertissements.

Nom d'hôte/Adresse IP	Version d'ESXi	Modèle
172.20.10.5	8.0.0	VMware, Inc. VMware20,1
172.20.10.9	8.0.0	VMware, Inc. VMware20,1

ANNULER PRÉCÉDENT SUIVANT

172.20.10.7

centre de donnée

CLUSTER ESXI

172.20.10.5 (Déconnecté)

172.20.10.9 (Déconnecté)

Corriger la tâche HA

CLUSTER ESXI

20 %

Échec de l'opération.

Nom de tâche: Mettre sous tension la machine virtuelle

Cible: Debian

État: La disposition de la carte mère ACPI nécessite EFI.

PLUS DE TÂCHES

Nous avons nos deux ESXI dans un cluster avec une VM de créer qui en théorie peut basculer d'un esxi à l'autre mais un problème que nous n'arrivons pas à résoudre il est impossible de démarrer créer depuis Vsphere car elle ne veut pas booter sur l'iso mis à disposition.

vSphere Client

Rechercher dans tous les environnements

Debian

ACTIONS

Résumé

Surveiller

Configurer

Autorisations

Banques de données

Réseaux

Snapshots

Mises à jour

172.20.10.7

centre de donnée

CLUSTER ESXI

172.20.10.5

172.20.10.9

Debian

vcenter esxi

	Nom	Statut	Type	Cluster de banques de données	Capacité	Libre
	data VM	✓ Normal	VMFS 6		713,5 Go	614,23 Go