

Présentation

Cette documentation va nous permettre d'installer Proxmox VE 7.0 ainsi que les installation de machines virtuelles sur ce dernier.

1. Prérequis de l'installation

A. La machine physique

Nous allons installer Proxmox sur une machine physique.

Matériel :





- Dual ou Quad Socket Server (Quad/Six/Hexa Core CPUs')
- CPU : 64bit (Intel EMT64 ou AMD64)
- 8 GB RAM (minimum) | 16 ou 32 RAM GB (maximum)
- RAID matériel avec protection de cache par batterie (BBU) ou flash protection
- Deux cartes Ethernet gigabit pour le bonding, cluster barrière matériel (seulement utile pour le HA)
- Disque dur rapide, meilleur résultat disque SAS 15k, Raid10

Clés USB bootable :

Nous allons télécharger ISO de Proxmox VE 7.0 sur un clés USB bootable afin de l'installer sur notre serveur ce trouvant sur ce lien :

<https://www.proxmox.com/en/downloads/category/iso-images-pve>

ISO Images Files

 Proxmox VE 7.1 ISO Installer <i>Updated on 07 December 2021</i> Version: 7.1-2 Download	 Proxmox VE 7.1 ISO Installer (BitTorrent) <i>Updated on 07 December 2021</i> Version: 7.1-2 Download
 Proxmox VE 7.0 ISO Installer <i>Updated on 07 September 2021</i> Version: 7.0-2 Download	 Proxmox VE 7.0 ISO Installer (BitTorrent) <i>Updated on 17 November 2021</i> Version: 7.0-2 Download

Installation Proxmox

Une fois l'ISO téléchargé, on peut commencer l'installation de Proxmox sur notre serveur. Il faudrait brancher notre clé USB sur ce dernier et suivre les étapes de l'installation.

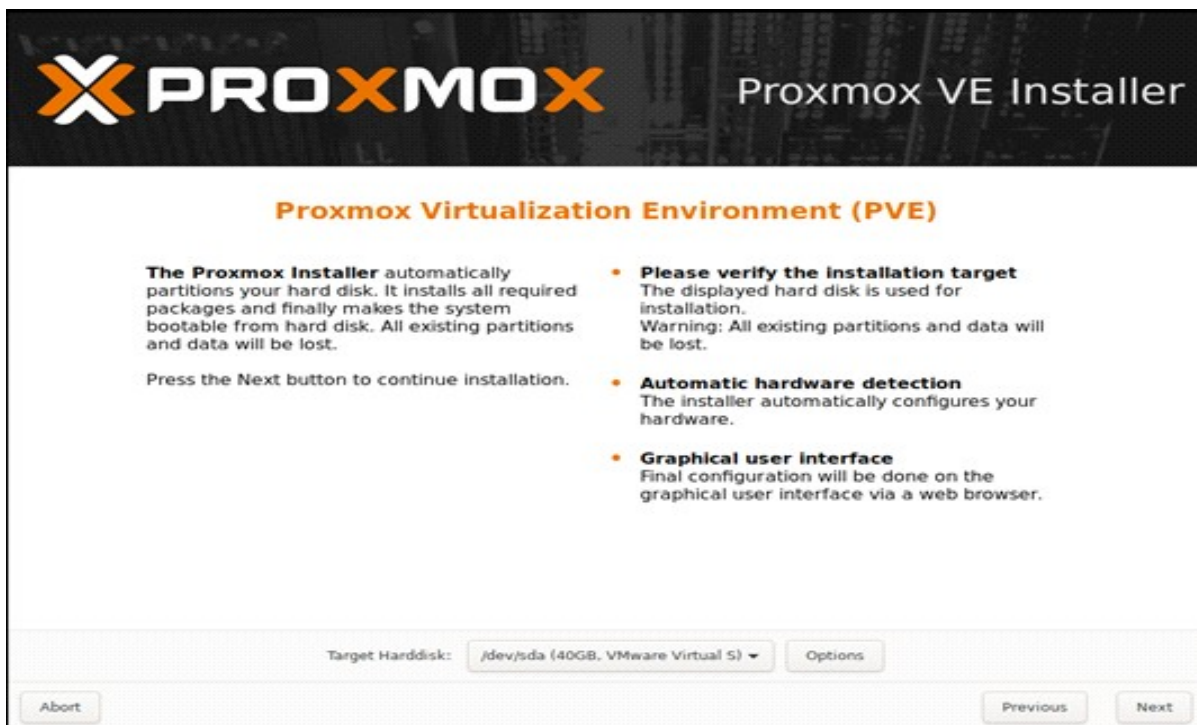
Sélectionner «**Installer Proxmox VE**» :



Cliquez sur «**I agree**» afin d'accepter les conditions générale d'utilisation :



Choisissez votre partition puis cliquez sur «Next» :



The Proxmox Installer automatically partitions your hard disk. It installs all required packages and finally makes the system bootable from hard disk. All existing partitions and data will be lost.

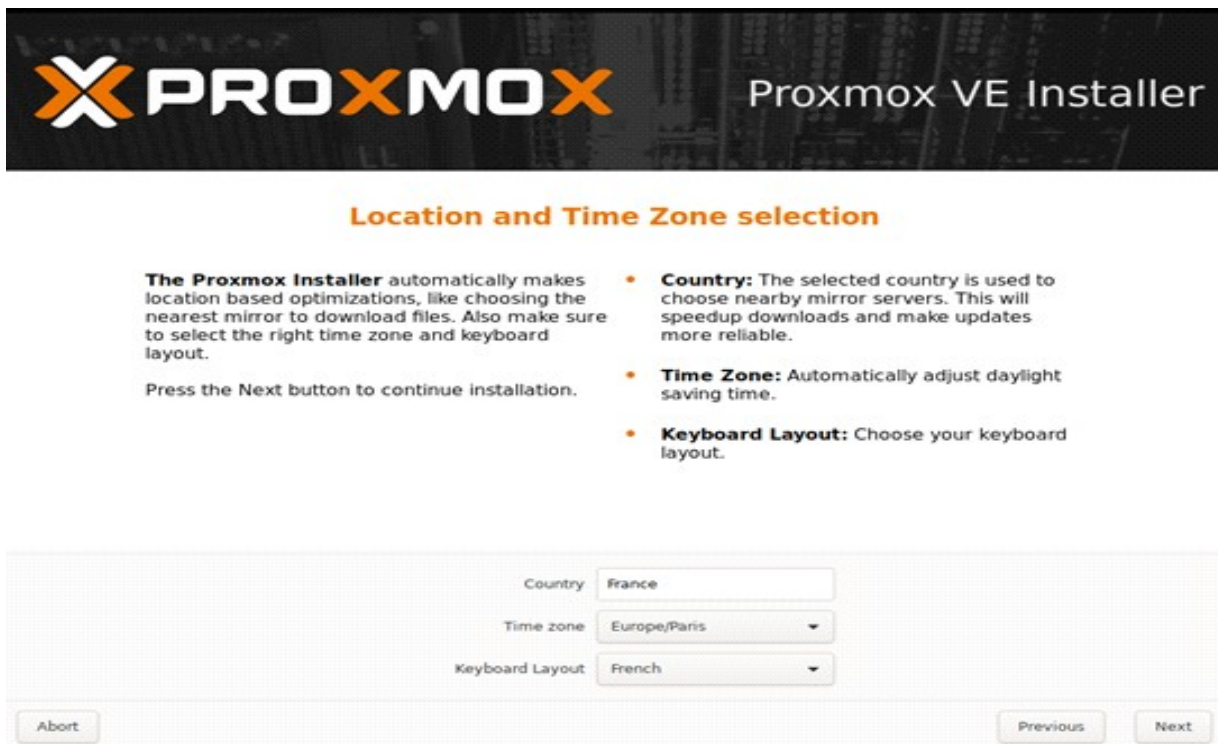
Press the Next button to continue installation.

- **Please verify the installation target**
The displayed hard disk is used for 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.

Target Harddisk: /dev/sda (40GB, VMware Virtual S) Options

Abort Previous Next

Sélectionner votre pays ainsi que votre fuseau horaire (Time Zone) et votre langage du clavier puis cliquez sur «Next» :



The Proxmox Installer automatically makes location based optimizations, like choosing the nearest mirror to download files. Also make sure to select the right time zone and keyboard layout.

Press the Next button to continue installation.

- **Country:** The selected country is used to choose nearby mirror servers. This will speedup downloads and make updates more reliable.
- **Time Zone:** Automatically adjust daylight saving time.
- **Keyboard Layout:** Choose your keyboard layout.

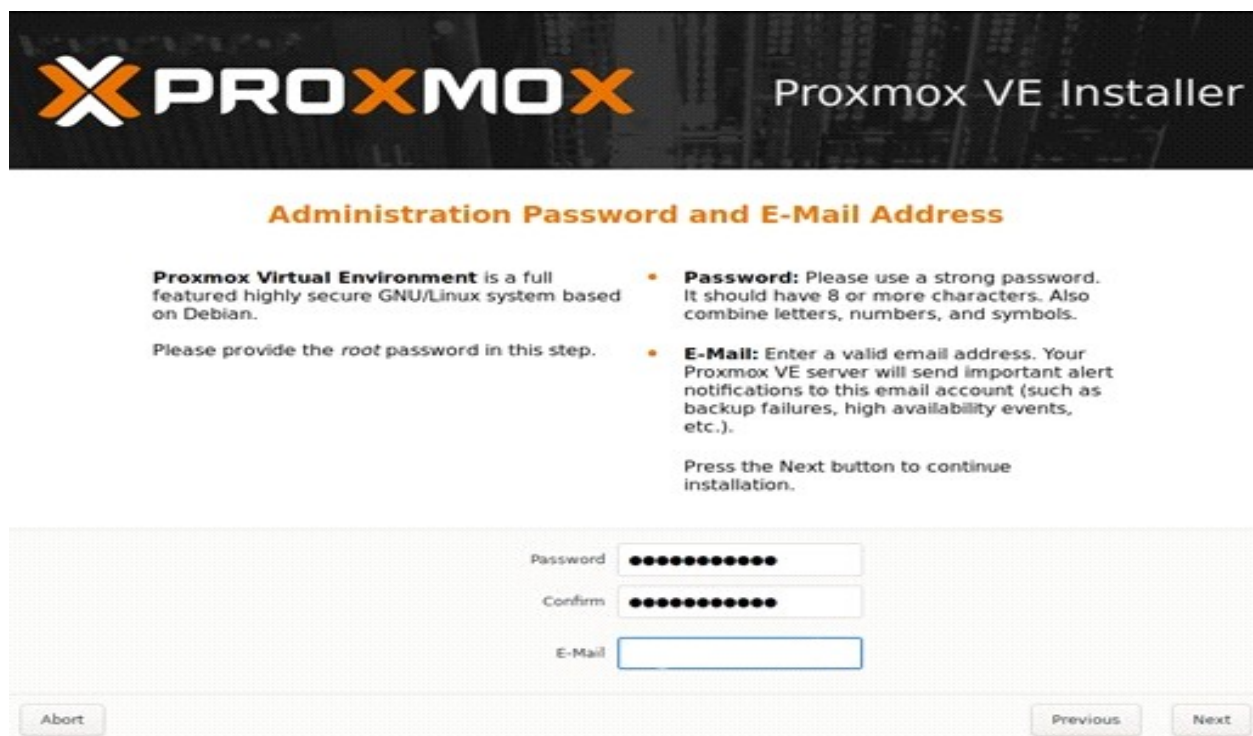
Country: France

Time zone: Europe/Paris

Keyboard Layout: French

Abort Previous Next

Configurer un mot de passe et renseigner votre adresse e-mail puis cliquez sur «**Next**» :



The screenshot shows the 'Administration Password and E-Mail Address' screen of the Proxmox VE Installer. The header features the Proxmox logo and the title 'Proxmox VE Installer'. Below the header, the title 'Administration Password and E-Mail Address' is displayed in orange. The main content area contains instructions and a list of requirements:

- Proxmox Virtual Environment** is a full featured highly secure GNU/Linux system based on Debian.
- Please provide the root password in this step.
- Password:** Please use a strong password. It should have 8 or more characters. Also combine letters, numbers, and symbols.
- E-Mail:** 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.).

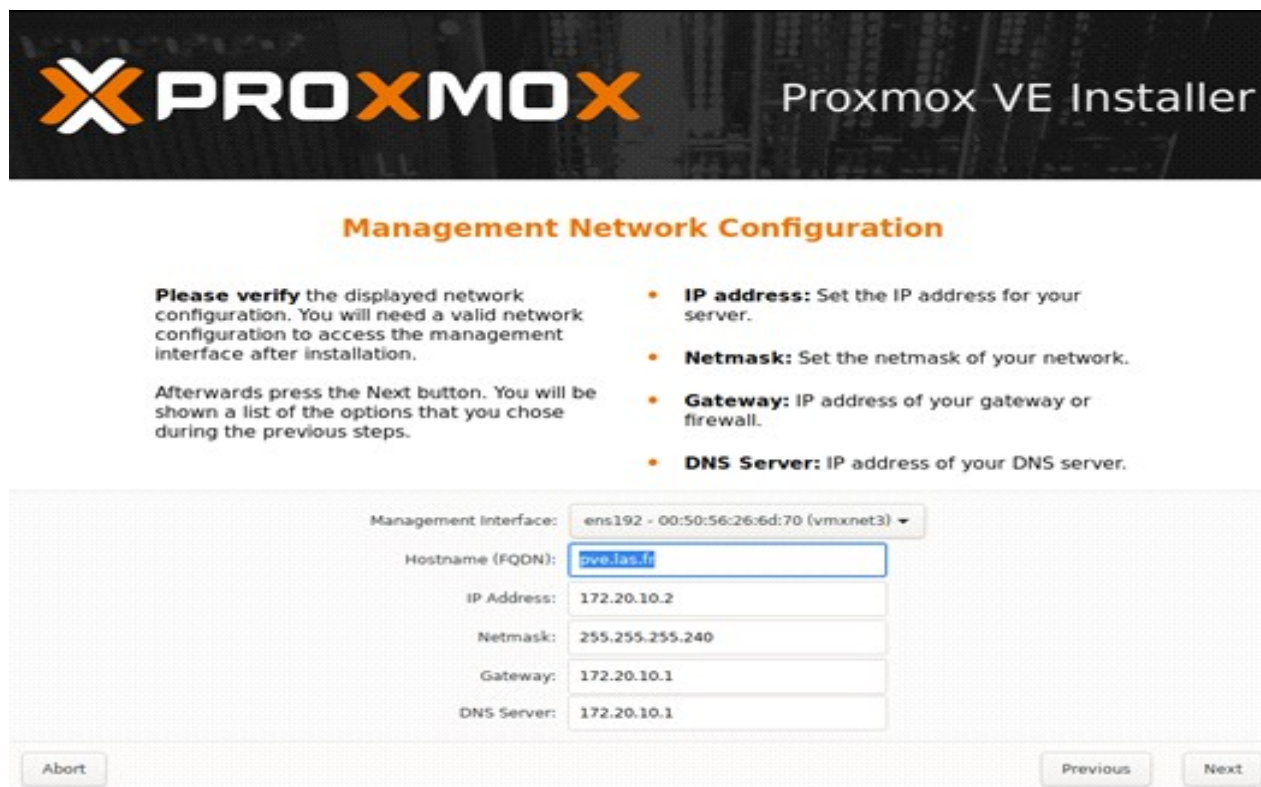
Press the Next button to continue installation.

The form fields are:

- Password: [Masked with dots]
- Confirm: [Masked with dots]
- E-Mail: [Empty text box]

Navigation buttons at the bottom: Abort, Previous, Next.

Enregistrer ensuite les différents paramètres de votre réseaux. Il sera possible de les modifier plus tard au besoin. Cliquez ensuite sur «**Next**» :



The screenshot shows the 'Management Network Configuration' screen of the Proxmox VE Installer. The header features the Proxmox logo and the title 'Proxmox VE Installer'. Below the header, the title 'Management Network Configuration' is displayed in orange. The main content area contains instructions and a list of requirements:


- Please verify** the displayed network configuration. You will need a valid network configuration to access the management interface after installation.
- Afterwards press the Next button. You will be shown a list of the options that you chose during the previous steps.
- IP address:** Set the IP address for your server.
- Netmask:** Set the netmask of your network.
- Gateway:** IP address of your gateway or firewall.
- DNS Server:** IP address of your DNS server.

The form fields are:

- Management Interface: ens192 - 00:50:56:26:6d:70 (vmxnet3) [Dropdown menu]
- Hostname (FQDN): pve.las.fr [Text box]
- IP Address: 172.20.10.2 [Text box]
- Netmask: 255.255.255.240 [Text box]
- Gateway: 172.20.10.1 [Text box]
- DNS Server: 172.20.10.1 [Text box]

Navigation buttons at the bottom: Abort, Previous, Next.

Vérifier bien vos informations puis cliquez sur «**Next**» :



Proxmox VE Installer

Summary

Please verify the displayed informations. Once you press the **Install** button, the installer will begin to partition your drive(s) and extract the required files.


Option	Value
Filesystem:	ext4
Disk(s):	/dev/sda
Country:	France
Timezone:	Europe/Paris
Keymap:	fr
E-Mail:	
Management Interface:	ens33
Hostname:	localhost
IP:	172.20.10.4
Netmask:	255.255.255.240
Gateway:	172.20.10.1
DNS:	172.20.10.1

Abort

Previous

Install

Une adresse IP vous sera attribuer, saisissez cette adresse dans la barre de recherche de votre navigateur pour accéder à l'interface Proxmox. Cliquez ensuite sur «**Reboot**» :



Proxmox VE Installer

Installation successful!

The Proxmox Virtual Environment is now installed and ready to use.

- Next steps**
Reboot and point your web browser to the selected IP address on port 8006:
`https://172.20.10.4:8006`
Also visit www.proxmox.com for more information.

Abort

Reboot

Vous pouvez maintenant vous identifier sur votre serveur Proxmox avec l'identifiant «**root**» :

```
-----  
Welcome to the Proxmox Virtual Environment. Please use your web browser to  
configure this server - connect to:
```

```
https://172.20.10.2:8006/  
-----
```

```
pve login: root  
Password:
```

```
Login incorrect
```

```
pve login: root
```

```
Password:
```

```
Linux pve 5.3.18-2-pve #1 SMP PVE 5.3.18-2 (Sat, 15 Feb 2020 15:11:52 +0100) x86_64
```

```
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.
```

```
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.
```

```
root@pve:~# i
```

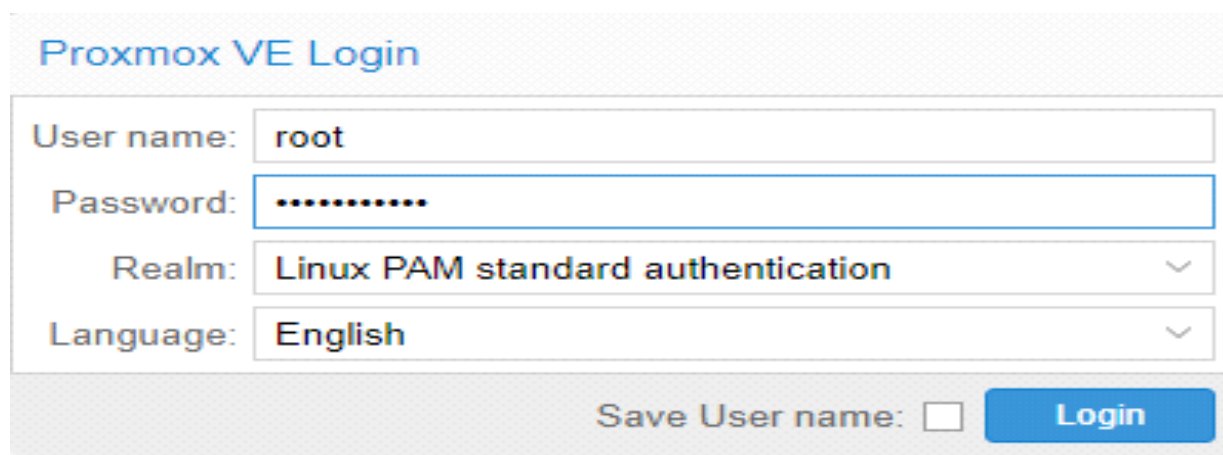
Accès à l'interface web Proxmox

L'adresse de l'interface d'administration sous la forme suivante :

https://%5Badresse_ip/FQDN%5D:8006

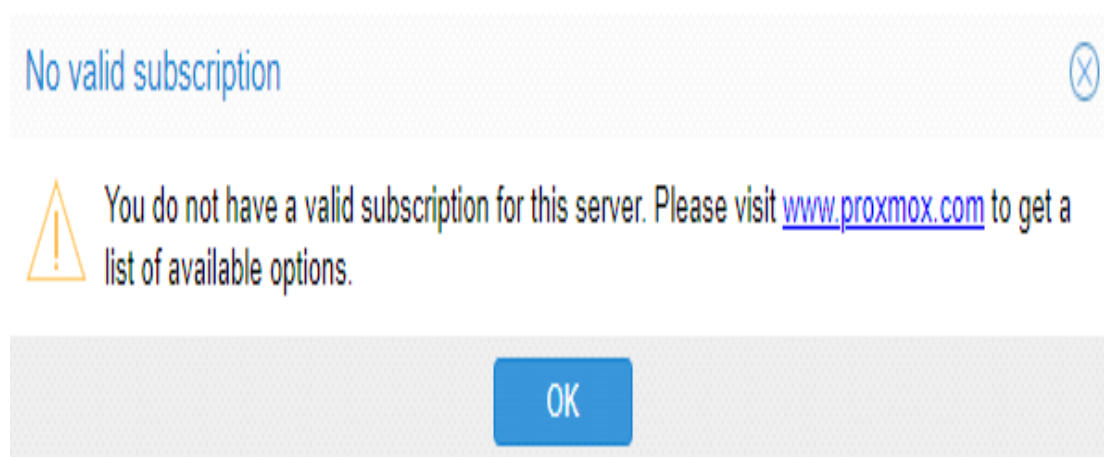
En utilisant cette URL avec le port 8006 vous pouvez maintenant vous connecter a votre serveur Proxmox a l'aide de votre navigateur.

Une fois sur l'interface web, identifier vous avec votre mot de passe ainsi que l'identifiant et sélectionner «**Linux PAM standard authentication**» et la langue souhaité :



The image shows the Proxmox VE Login interface. It has a title 'Proxmox VE Login' in blue. Below the title are four input fields: 'User name:' with the value 'root', 'Password:' with masked characters '.....', 'Realm:' with a dropdown menu showing 'Linux PAM standard authentication', and 'Language:' with a dropdown menu showing 'English'. At the bottom right, there is a checkbox labeled 'Save User name:' and a blue 'Login' button.

Une nouvel page s'ouvre avec afficher «**aucune clé d'enregistrement valide**» uniquement visible sur la version gratuite de Proxmox, il suffira simplement de cliquer sur «OK» :



Vous pouvez désormais configurer votre serveur depuis cette interface :

PROXMOX Virtual Environment 6.1-7

Search

Documentation Create VM Create CT root@pam

Server View

Datacenter

Search

Type	Description	Disk usage	Memory us...	CPU usage	Uptime
node	pve	19.4 %	21.6 %	0.4% of 2C...	00:05:08
storage	local (pve)	19.4 %			-
storage	local-lvm (pve)	0.0 %			-

Tasks Cluster log

Start Time	End Time	Node	User name	Description	Status
Apr 08 01:36:39	Apr 08 01:36:39	pve	root@pam	Start all VMs and Containers	OK

Désormais, vous savez comment installer et configurer Proxmox sur votre serveur.