

DOCUMENTATION TECHNIQUE
Installation et configuration de Proxmox
VE
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Introduction

Proxmox VE est une plateforme de virtualisation libre basée sur Debian. Elle permet la gestion de machines virtuelles (VM) et de conteneurs (LXC) via une interface web, tout en supportant des technologies avancées comme le clustering, la haute disponibilité (HA), le stockage partagé, et la sauvegarde/restauration.

- **Type** : Hyperviseur de type 1 (bare-metal)
- **Technologies supportées** : KVM (machines virtuelles), LXC (conteneurs)
- **Interface de gestion** : Web (port 8006), CLI (shell), API REST

Prérequis matériel

- **CPU** : Processeur x86_64 avec support de virtualisation (Intel VT-x ou AMD-V)
- **RAM** : Minimum 2 Go, recommandé 8 Go+
- **Disque** : 32 Go min (SSD recommandé)
- **Carte réseau** : 1 ou plusieurs ports Ethernet

Installation de Proxmox VE

Étapes d'installation (ISO officielle)

1. Télécharger l'ISO officielle :

<https://www.proxmox.com/en/downloads>

2. Créer une clé USB bootable avec Rufus, BalenaEtcher ou Ventoy.

3. Booter sur la clé, puis :

Chosir Install Proxmox VE

Proxmox VE 8.4 (iso release 1) - <https://www.proxmox.com/>



Welcome to Proxmox Virtual Environment

- Install Proxmox VE (Graphical)
- Install Proxmox VE (Terminal UI)
- Advanced Options

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

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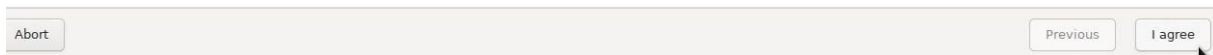
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Sélectionner le disque cible et le type de système de fichier. :



Proxmox Virtual Environment (PVE)

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

Press the Next button to continue the installation.

- **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.



Configurer la Time zone et la location



Location and Time Zone selection

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

Press the Next button to continue the installation.

- **Country:** The selected country is used to choose nearby mirror servers. This will speed up 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 le mot de passe root et l'e-mail (utilisé pour les alertes) :



Administration Password and Email Address

Proxmox Virtual Environment is a full featured, highly secure GNU/Linux system, based on Debian.

In this step, please provide the root password.

- **Password:** Please use a strong password. It must 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	mail@example.invalid

Abort

Previous

Next

Configuration Réseau :



Management Network Configuration

Please verify the displayed network configuration. You will need a valid network configuration to access the management interface after installing.

After you have finished, press the Next button. You will be shown a list of the options that you chose during the 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.

The image shows a network configuration form with the following fields:

- Management Interface: A dropdown menu showing 'ens33 - 00:0c:29:54:9c:83 (e1000)' with a small '1' in a circle to its right.
- Hostname (FQDN): A text input field containing 'pve-01.it-connect.local' with a small '2' in a circle to its right.
- IP Address (CIDR): A text input field containing '192.168.14.130' followed by a slash and a dropdown menu showing '24' with a small '3' in a circle to its right.
- Gateway: A text input field containing '192.168.14.2'.
- DNS Server: A text input field containing '192.168.14.2'.

At the bottom of the form, there are three buttons: 'Abort' on the left, and 'Previous' and 'Next' on the right.

Finaliser l'installation → Redémarrer :



Proxmox VE Installer

Summary

Please confirm the displayed information. 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
Email:	florian.bumel@it-connect.fr
Management Interface:	ens33
Hostname:	pve-01
IP CIDR:	192.168.14.130/24
Gateway:	192.168.14.2
DNS:	192.168.14.2

Automatically reboot after successful installation

Abort

Previous

Install

Connexion & Interface Web

URL : <https://votre-ip:8006>

Identifiants : root + mot de passe défini lors de l'installation

Configuration initiale

Mise à jour du système

```
apt update && apt full-upgrade -y
```

Ajout d'un dépôt communautaire (sans souscription)

```
nano /etc/apt/sources.list.d/pve-no-subscription.list
```

Ajouter :

```
deb http://download.proxmox.com/debian/pve bookworm pve-no-subscription
```

Puis :

```
apt update && apt upgrade -y
```