



PROXMOX

Documentation

PROXMOX SERVER

Préparé par

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DÉFINITION

Proxmox VE (Virtual Environment) : Plateforme open-source pour la virtualisation basée sur KVM (Kernel-based Virtual Machine) et LXC (Linux Containers).

KVM (Kernel-based Virtual Machine) : Technologie de virtualisation qui permet de créer des machines virtuelles complètes.

LXC (Linux Containers) : Technologie de conteneur légère pour exécuter des applications isolées.

Cluster : Regroupement de plusieurs serveurs Proxmox pour gérer les ressources de manière centralisée.

QEMU (Quick Emulator) : Émulateur utilisé pour virtualiser les systèmes x86 et ARM.

ISO (Image disque) : Fichier image utilisé pour installer des systèmes d'exploitation.

PRÉREQUIS

- Serveur DELL EMC R740
- Clé USB
- ISO Proxmox VE (disponible sur ce lien : <https://www.proxmox.com/en/downloads>)

INSTALLATION

UNE FOIS QUE VOUS AVEZ EFFECTUÉ UN DÉMARRAGE SUR LA CLÉ USB SUR LE SERVEUR, VOUS ARRIVEREZ SUR CET ÉCRAN.

Proxmox VE 8.3 (iso release 1) - <https://www.proxmox.com/>



Welcome to Proxmox Virtual Environment

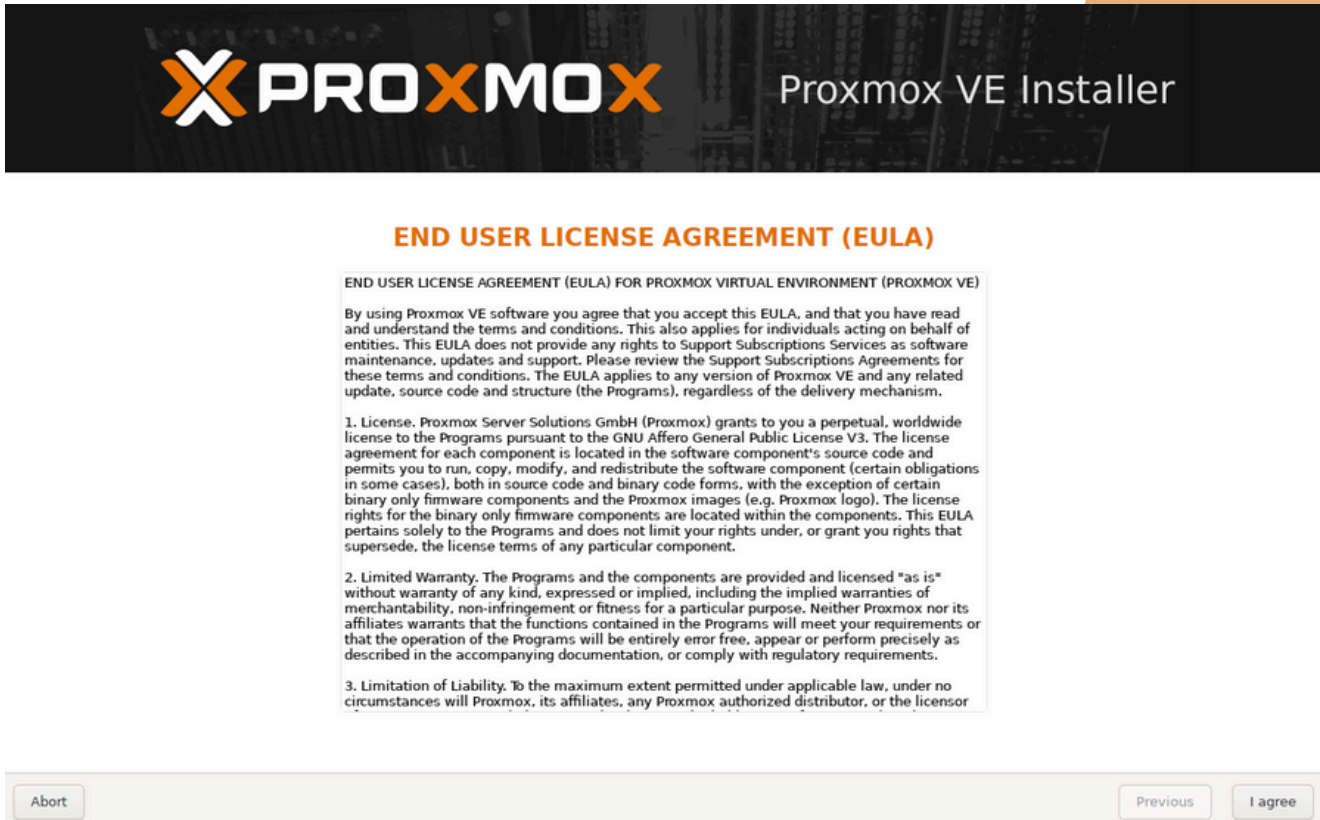
Install Proxmox VE (Graphical)
Install Proxmox VE (Terminal UI)
Advanced Options

0 second(s) until boot

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

CHOISISSEZ "INSTALL PROXMOX VE (GRAPHICAL)" EN APPUYANT SUR "ENTRÉE" SUR VOTRE CLAVIER.

ENSUITE, CLIQUEZ SUR "I AGREE".



The screenshot shows the Proxmox VE Installer window with the Proxmox logo and title. Below the header, the text "END USER LICENSE AGREEMENT (EULA)" is displayed in orange. The main content area contains the EULA text for Proxmox Virtual Environment (PROXMOX VE). At the bottom, there are three buttons: "Abort", "Previous", and "I agree".

END USER LICENSE AGREEMENT (EULA)

END USER LICENSE AGREEMENT (EULA) FOR PROXMOX VIRTUAL ENVIRONMENT (PROXMOX VE)

By using Proxmox VE software you agree that you accept this EULA, and that you have read and understand the terms and conditions. This also applies for individuals acting on behalf of entities. This EULA does not provide any rights to Support Subscriptions Services as software maintenance, updates and support. Please review the Support Subscriptions Agreements for these terms and conditions. The EULA applies to any version of Proxmox VE and any related update, source code and structure (the Programs), regardless of the delivery mechanism.

1. License. Proxmox Server Solutions GmbH (Proxmox) grants to you a perpetual, worldwide license to the Programs pursuant to the GNU Affero General Public License V3. The license agreement for each component is located in the software component's source code and permits you to run, copy, modify, and redistribute the software component (certain obligations in some cases), both in source code and binary code forms, with the exception of certain binary only firmware components and the Proxmox images (e.g. Proxmox logo). The license rights for the binary only firmware components are located within the components. This EULA pertains solely to the Programs and does not limit your rights under, or grant you rights that supersede, the license terms of any particular component.

2. Limited Warranty. The Programs and the components are provided and licensed "as is" without warranty of any kind, expressed or implied, including the implied warranties of merchantability, non-infringement or fitness for a particular purpose. Neither Proxmox nor its affiliates warrants that the functions contained in the Programs will meet your requirements or that the operation of the Programs will be entirely error free, appear or perform precisely as described in the accompanying documentation, or comply with regulatory requirements.

3. Limitation of Liability. To the maximum extent permitted under applicable law, under no circumstances will Proxmox, its affiliates, any Proxmox authorized distributor, or the licensor

Abort Previous I agree

CHOISISSEZ VOTRE DISQUE (NORMALEMENT DÉJÀ CHOISI PAR DÉFAUT),
PUIS CLIQUEZ SUR "NEXT".



The screenshot shows the Proxmox VE Installer window with the Proxmox logo and title. Below the header, the text "Proxmox Virtual Environment (PVE)" is displayed in orange. The main content area contains information about the Proxmox Installer and a list of bullet points. At the bottom, there are three buttons: "Abort", "Previous", and "Next".

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.

Target Harddisk /dev/sda (50.00GiB, VBOX HARDDISK) Options

Abort Previous Next

CONFIGUREZ LE PAYS, LE FUSEAU HORAIRE (TIME ZONE) ET LE CLAVIER (KEYBOARD LAYOUT), PUIS CLIQUEZ SUR "NEXT".



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:

Time zone:

Keyboard Layout:

CONFIGUREZ UN MOT DE PASSE ET UN EMAIL, PUIS CLIQUEZ SUR "NEXT".



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 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:

CONFIGUREZ L'INTERFACE RÉSEAU, LE HOSTNAME, L'IP DE LA MACHINE, LA GATEWAY ET LE DNS, PUIS CLIQUEZ SUR "NEXT".


Proxmox VE Installer

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.

Management Interface: ● enp0s3 - 08:00:27:d9:bd:fa (e1000)

Hostname (FQDN):

IP Address (CIDR): /

Gateway:

DNS Server:

Abort
Previous
Next

VOICI UN RÉCAPITULATIF DES INFORMATIONS QUE VOUS AVEZ SAISIES. SI VOUS ÊTES SÛR, APPUYEZ SUR "INSTALL".


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:	r.bellahouel@ecole-ipssi.net
Management Interface:	enp0s3
Hostname:	m2l
IP CIDR:	192.168.1.123/24
Gateway:	192.168.1.1
DNS:	192.168.1.1

☒ Automatically reboot after successful installation

Abort
Previous
Install

L'INSTALLATION DÉMARRE...



Virtualization Platform

Open Source Virtualization Platform

- Enterprise ready
- Central Management
- Clustering
- Online Backup solution
- Live Migration
- 32 and 64 bit guests

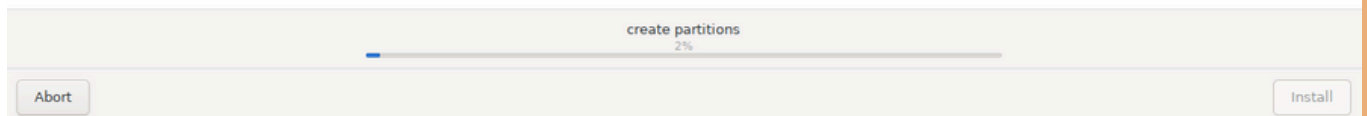
For more information, visit
www.proxmox.com or the Proxmox VE wiki.

• Container Virtualization

Only 1-3% performance loss using OS virtualization as compared to using a standalone server.

• Full Virtualization (KVM)

Run unmodified virtual servers - Linux or Windows.



ENCORE UN PEU DE PATIENCE, C'EST PRESQUE FINI...



Virtualize your IT Infrastructure

Proxmox VE is ready for enterprise deployments.

The role based permission management combined with the integration of multiple external authentication sources is the base for a secure and stable environment.

Visit www.proxmox.com for more information about commercial support subscriptions.

• Commitment to Free Software

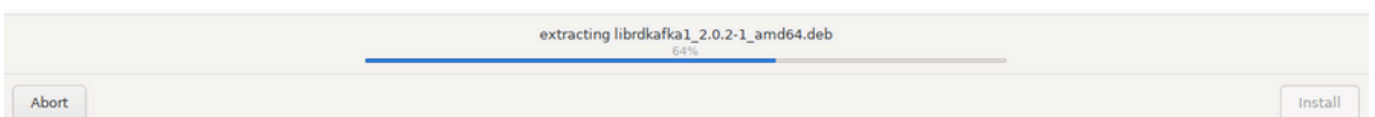
The source code is released under the GNU Affero General Public License.

• RESTful web API

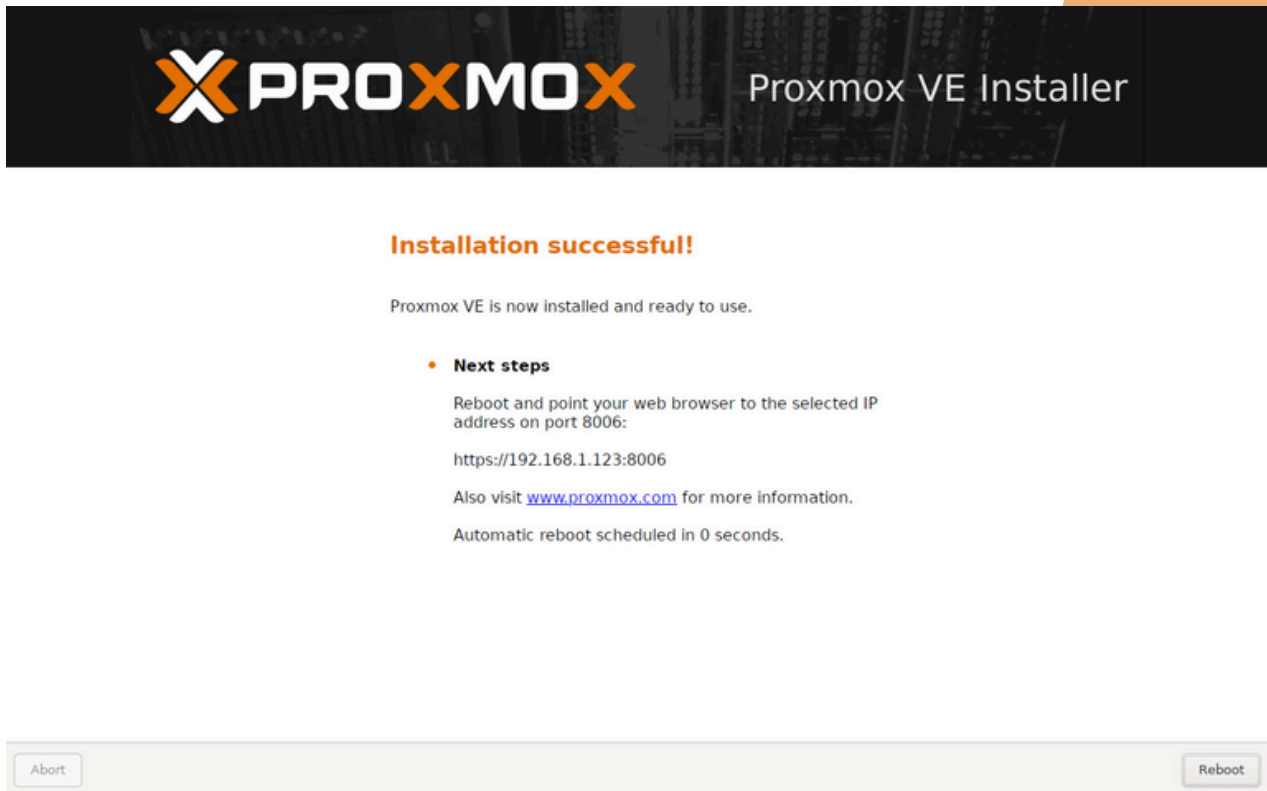
Resource-oriented architecture (ROA) and declarative API definition using JSON Schema enable easy integration for third party management tools.

• Virtual Appliances

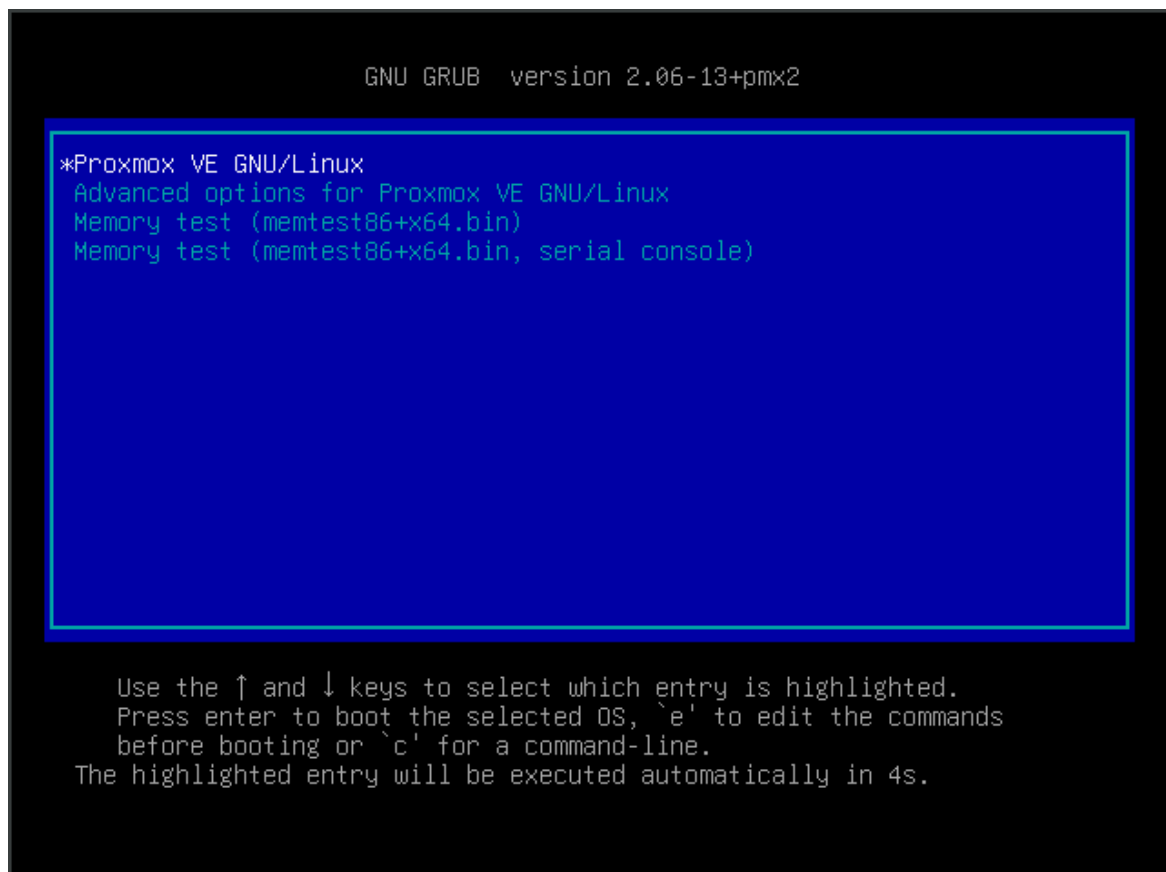
Pre-installed applications - up and running within a few seconds.



**L'INSTALLATION EST TERMINÉE. CLIQUEZ SUR "REBOOT".
N'OUBLIEZ PAS DE DÉBRANCHER LA CLÉ USB.**



**LA MACHINE REDÉMARRE, APPUYEZ SUR LA TOUCHE "ENTRÉE" POUR
DÉMARRER PROXMOX VE GNU/LINUX.**



NOUS VOICI SUR CETTE PAGE, AVEC COMME INFORMATION L'IP DE LA MACHINE ET LE PORT POUR Y ACCÉDER. N'OUBLIEZ PAS CETTE INFORMATION, NOUS EN AURONS BESOIN.

```
.....  
Welcome to the Proxmox Virtual Environment. Please use your web browser to  
configure this server - connect to:  
  
https://192.168.1.123:8006/  
.....  
m21 login:
```

POUR VOUS CONNECTER AU SHELL, C'EST TRÈS SIMPLE, LE LOGIN EST "ROOT".

```
.....  
Welcome to the Proxmox Virtual Environment. Please use your web browser to  
configure this server - connect to:  
  
https://192.168.1.123:8006/  
.....  
m21 login: root
```

LE MOT DE PASSE EST CELUI QUE VOUS AVEZ SAISI PENDANT LA CONFIGURATION.

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

https://192.168.1.123:8006/
-----

m21 login: root
Password:
```

VOUS ÊTES MAINTENANT BIEN CONNECTÉ AU SHELL.

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

https://192.168.1.123:8006/
-----

m21 login: root
Password:

Login incorrect
m21 login: root
Password:
Linux m21 6.8.12-4-pve #1 SMP PREEMPT_DYNAMIC PMX 6.8.12-4 (2024-11-06T15:04Z) 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@m21:~#
```

RENDEZ-VOUS MAINTENANT SUR INTERNET, SAISISSEZ L'URL DE VOTRE SERVEUR, DANS NOTRE CAS "192.168.1.123:8006".



VOTRE CONNEXION N'EST PAS PRIVÉE. CETTE PAGE SURVIENT QUAND LE SERVICE NE POSSÈDE PAS DE CERTIFICAT SSL/TLS. DANS NOTRE CAS, NOUS SOMMES EN LOCAL, DONC PAS DE PANIQUE. APPUYEZ SUR "PARAMÈTRES AVANCÉS".



Votre connexion n'est pas privée

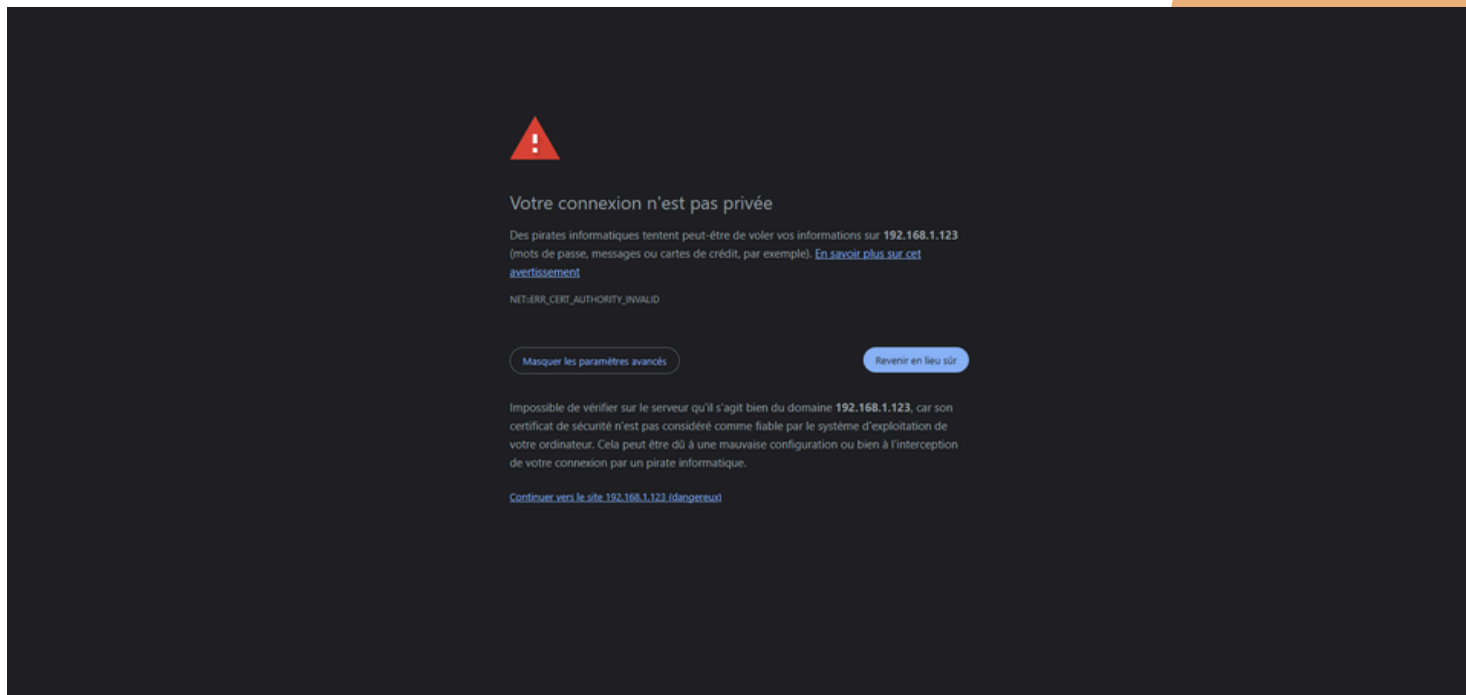
Des pirates informatiques tentent peut-être de voler vos informations sur **192.168.1.123** (mots de passe, messages ou cartes de crédit, par exemple). [En savoir plus sur cet avertissement](#)

NET::ERR_CERT_AUTHORITY_INVALID

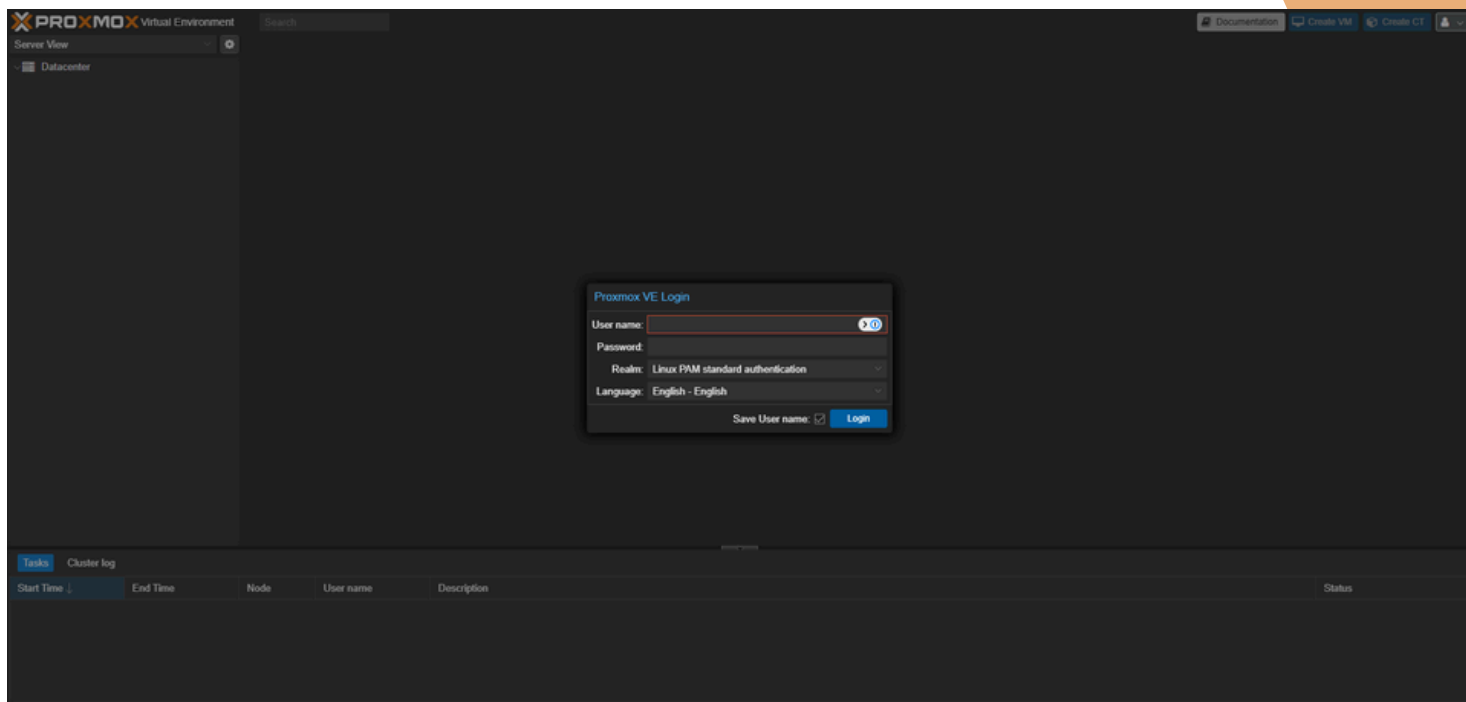
Paramètres avancés

Revenir en lieu sûr

PUIS CLIQUEZ SUR "CONTINUER VERS LE SITE 192.168.1.123 (DANGEREUX)".



ET VOUS VOICI SUR LA PAGE DE CONNEXION DE PROXMOX.

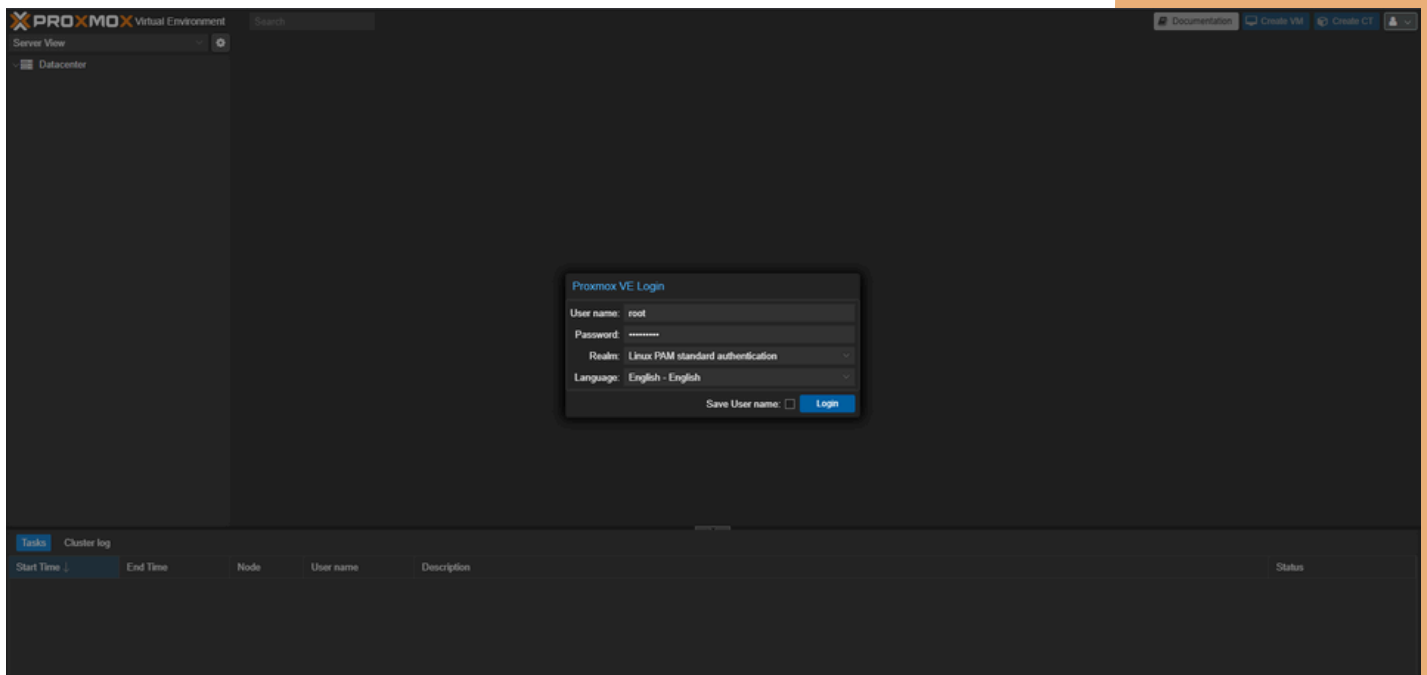


LE USERNAME ET LE MOT DE PASSE SONT LES MÊMES QUE CEUX QUE VOUS AVEZ CONFIGURÉS SUR LE SHELL.

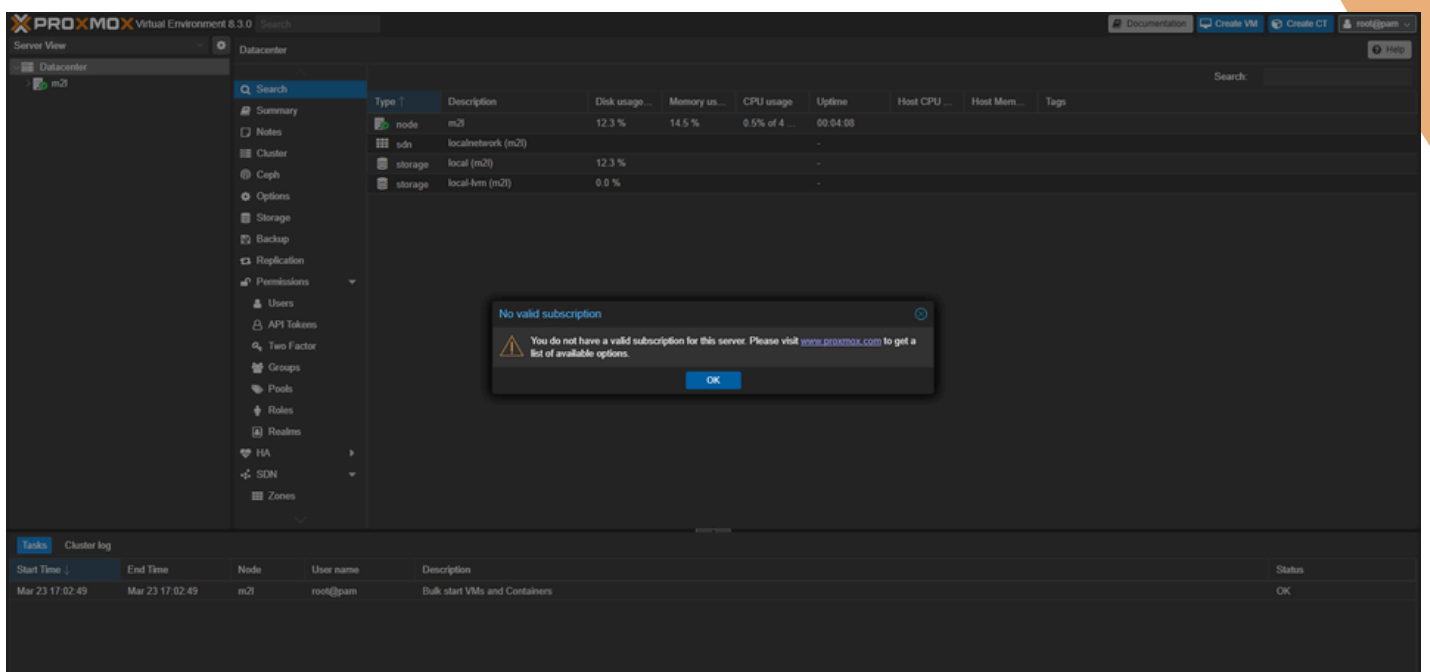
DONC :

USERNAME : ROOT

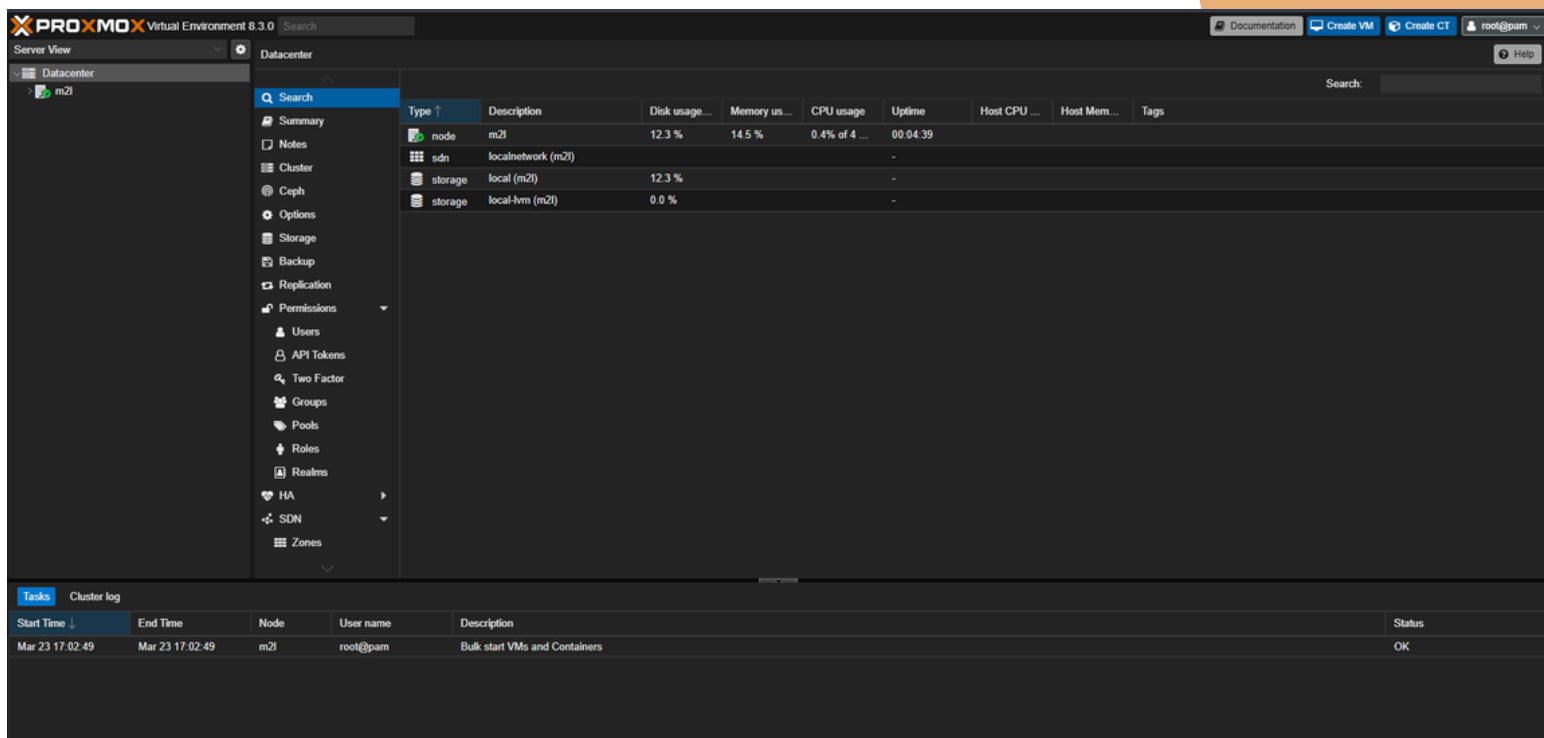
PASSWORD : VOTRE MOT DE PASSE.



APPUYEZ SUR "OK".



ET VOUS VOICI CONNECTÉ À VOTRE INTERFACE PROXMOX.



Type	Description	Disk usage...	Memory us...	CPU usage	Uptime	Host CPU ...	Host Mem...	Tags
node	m2l	12.3 %	14.5 %	0.4% of 4 ...	00:04:39			
sdn	localnetwork (m2l)							
storage	local (m2l)	12.3 %						
storage	local-lvm (m2l)	0.0 %						

Start Time ↓	End Time	Node	User name	Description	Status
Mar 23 17:02:49	Mar 23 17:02:49	m2l	root@pam	Bulk start VMs and Containers	OK

VOUS POUVEZ MAINTENANT CONFIGURER VOS SERVICES ET AUTRES.