

Proxmox BACKUP

- [Installation de Proxmox Backup Server](#)
- [Backup and Restore d'un proxmox A à un proxmox B](#)

Installation de Proxmox Backup Server

CREATION DE LA VM

1. Télécharger l'[ISO](#)
 2. Créer la VM
 1. Mettez 20 Go pour le disque dur
 2. Ajouter un disque dur à la fin susceptible d'accueillir les backups (100 Go)
 3. Mettre le réseau sur le même que le PVE
 4. Démarrer la VM
 5. Installation de la VM
-



Welcome to Proxmox Backup Server

Install Proxmox Backup Server (Graphical) 

Install Proxmox Backup Server (Console)

Advanced Options

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Previous

I agree

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.

To continue the installation, press the Next button.

- **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.

1

Target Harddisk: /dev/sda (20.00GiB, VMware Virtual S) ▼

Options

Previous

Next

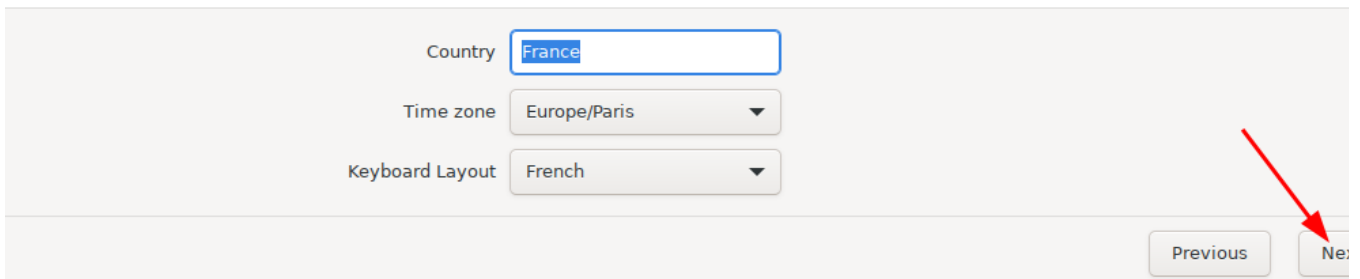
2

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.



The screenshot shows the 'Location and Time Zone selection' screen. It features three input fields: 'Country' with 'France' selected, 'Time zone' with 'Europe/Paris' selected, and 'Keyboard Layout' with 'French' selected. At the bottom right, there are two buttons: 'Previous' and 'Next'. A red arrow points to the 'Next' button.

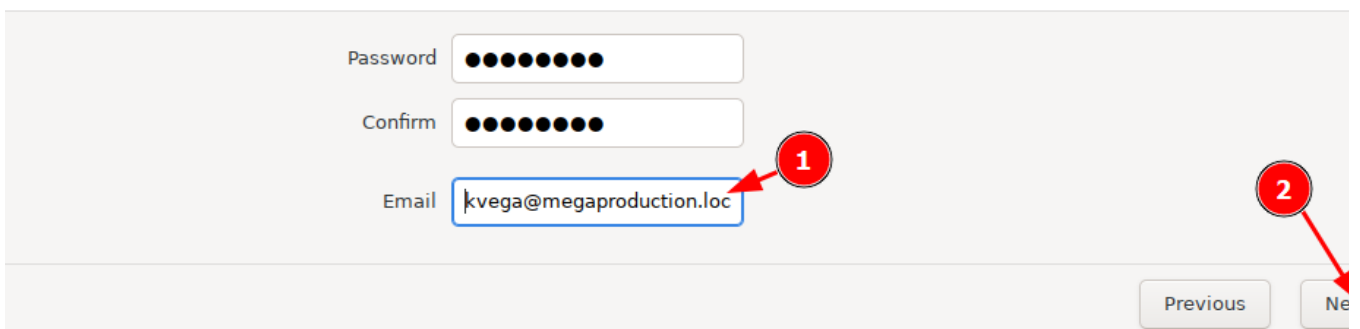
Administration Password and Email Address

Proxmox Backup Server is a full-featured, secure system, based on Debian Linux.

Therefore, 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 Backup Server will send important alert notifications to this email account (all emails for 'root').

To continue the installation, press the Next button.



The screenshot shows the 'Administration Password and Email Address' screen. It features three input fields: 'Password' with 8 dots, 'Confirm' with 8 dots, and 'Email' with 'kvega@megaproduction.loc'. At the bottom right, there are two buttons: 'Previous' and 'Next'. A red circle with the number '1' is next to the 'Email' field, and a red circle with the number '2' is next to the 'Next' button. A red arrow points from the 'Next' button towards the bottom right.

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: ens33 - 00:0c:29:c6:08:12 (e1000) ▼

Hostname (FQDN): bck-front-01.megaproduction.local

IP Address (CIDR): 192.168.1.117 / 24

Gateway: 192.168.1.254

DNS Server: 192.168.1.254

Previous Next



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:	kvega@megaproduction.local
Management Interface:	ens33
Hostname:	bck-front-01
IP CIDR:	192.168.1.117/24
Gateway:	192.168.1.254
DNS:	192.168.1.254

Automatically reboot after successful installation

Previous Install

6. Le serveur est accessible via l'IP configuré plus haut pour moi <https://192.168.1.117:8007>

Backup Server 3.1-2 Documentation Tasks 0 root

Dashboard

bck-front-01 (Uptime: 00:03:27) Show Fingerprint

CPU usage	0.41% of 1 CPU(s)	IO delay	0.00%
RAM usage	10.16% (195.27 MiB of 1.88 GiB)	Load average	0.24, 0.23, 0.1
HD space(root)	10.05% (1.85 GB of 18.44 GB)	SWAP usage	0.00% (0 B of 1.87 GiB)

CPU(s) 1 x Intel(R) Core(TM) i7-4720HQ CPU @ 2.60GHz (1 Socket)
 Kernel Version Linux 6.5.11-6-pve (2023-11-29T08:32Z)
 Boot Mode Legacy BIOS
 Repository Status ✔ Proxmox Backup Server updates ⚠ Non production-ready repository enabled! >

Datstore Usage

Name ↑	Size	Used	Available	Usage %	Estimated Full	History (last 1
No Data						

Longest Tasks (30 days)

Console (xterm.js)	4s	✔	>
Log Rotation	<0.1s	✔	>

Running Tasks

No running tasks

Task Summary (30 days)

Backups	0	0	0
Prunes	0	0	0
Garbage collections	0	0	0
Syncs	0	0	0
Verify	0	0	0
Tape Backup	0	0	0
Tape Restore	0	0	0

Subscription

✘

No valid subscription

You do not have a valid subscription for this server. Please visit www.proxmox.com to get a list of available options.

Ajout d'un DATASTORE

1. S'assurer d'avoir un disque dur supplémentaire

Device	Type	Usage	Size	GPT	Model	Serial
/dev/sda	Hard Disk	LVM	21.47 GB	Yes	VMware_Virtual_S	
/dev/sda2	partition	EFI	536.87 MB	Yes		
/dev/sda3	partition	LVM	20.94 GB	Yes		
/dev/sda1	partition	BIOS boot	1.03 MB	Yes		
/dev/sdb	Hard Disk	unused	107.37 GB	No	VMware_Virtual_S	

2. Se connecter au serveur de backup en ssh
3. Lister les disque disponible

```
root@bck-front-01:~# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
sda          8:0    0   20G  0 disk
├─sda1       8:1    0 1007K  0 part
├─sda2       8:2    0   512M  0 part
└─sda3       8:3    0  19.5G  0 part
├─pbs-swap 252:0   0   1.9G  0 lvm  [SWAP]
```

```
└─pbs-root 252:1    0 17.6G  0 lvm  /  
sdb          8:16    0 100G  0 disk
```

Ici on voit bien mon disque de 100 Go je peux continuer

4. Créer un dossier qui nous servira de dossier de backup

```
root@bck-front-01:~# mkdir /BACKUP  
root@bck-front-01:~# ls / |grep BACKUP  
BACKUP
```

5. Créer la partition sur le disque, pour moi ce disque est sdb

```
root@bck-front-01:~# fdisk /dev/sdb  
  
Welcome to fdisk (util-linux 2.38.1).  
Changes will remain in memory only, until you decide to write them.  
Be careful before using the write command.  
  
Device does not contain a recognized partition table.  
Created a new DOS (MBR) disklabel with disk identifier 0xc6692165.  
  
Command (m for help): n  
Partition type  
   p   primary (0 primary, 0 extended, 4 free)  
   e   extended (container for logical partitions)  
Select (default p): p  
Partition number (1-4, default 1): 1  
First sector (2048-209715199, default 2048):  
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-209715199, default 209715199):  
  
Created a new partition 1 of type 'Linux' and of size 100 GiB.  
  
Command (m for help): t  
Selected partition 1  
Hex code or alias (type L to list all): 83  
Changed type of partition 'Linux' to 'Linux'.  
  
Command (m for help): w
```

On voit que la nouvelle partition a été créée

```

root@bck-front-01:~# lsblk
NAME                MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
sda                  8:0    0   20G  0 disk
├─sda1               8:1    0 1007K  0 part
├─sda2               8:2    0   512M  0 part
└─sda3               8:3    0  19.5G  0 part
   ├─pbs-swap        252:0    0   1.9G  0 lvm  [SWAP]
   └─pbs-root        252:1    0  17.6G  0 lvm  /
sdb                  8:16    0  100G  0 disk
└─sdb1               8:17    0  100G  0 part

```

6. Formater la partition en ext4

```

root@bck-front-01:~# mkfs.ext4 -b 4096 /dev/sdb1
mke2fs 1.47.0 (5-Feb-2023)
Creating filesystem with 26214144 4k blocks and 6553600 inodes
Filesystem UUID: 5b339dd1-548b-4781-ae76-db130436f824
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
    4096000, 7962624, 11239424, 20480000, 23887872

Allocating group tables: done
Writing inode tables: done
Creating journal (131072 blocks): done
Writing superblocks and filesystem accounting information: done

```

7. Monter la partition sur le serveur:

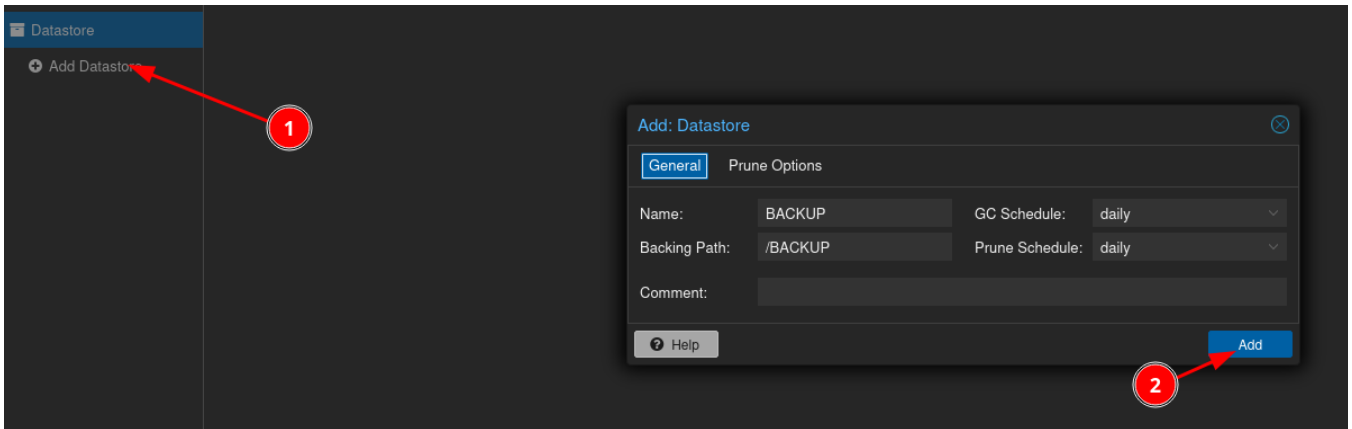
1. Editer le fichier `/etc/fstab`
2. Ajouter la ligne suivante en fin de fichier:
`/dev/sdb1 /BACKUP ext4 defaults`
3. Monter le volume:
`mount -a`
4. Vérifier si disques est bien monté:

```

root@bck-front-01:~# cat /etc/fstab
# <file system> <mount point> <type> <options> <dump> <pass>
/dev/pbs/root / ext4 errors=remount-ro 0 1
/dev/pbs/swap none swap sw 0 0
proc /proc proc defaults 0 0
/dev/sdb1 /BACKUP ext4 defaults

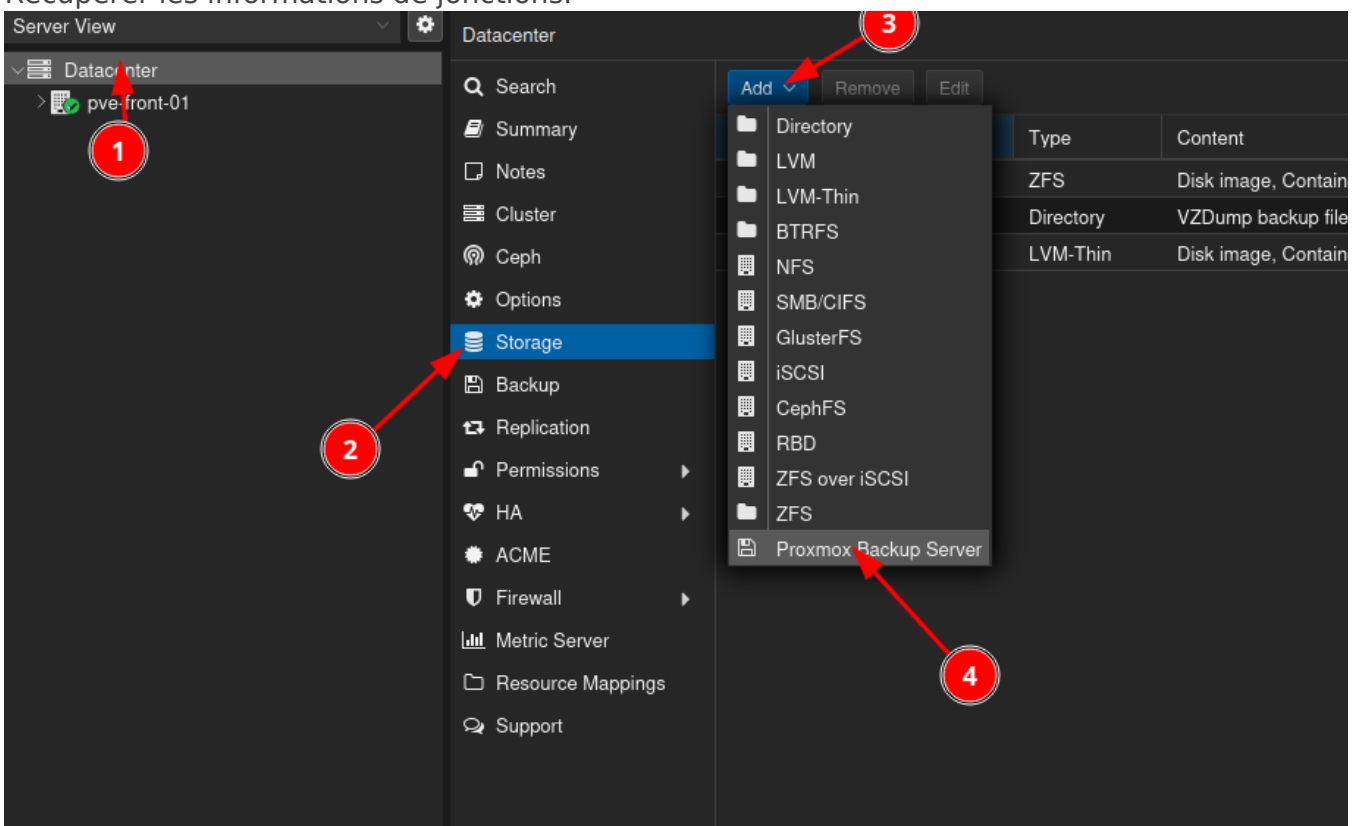
```

8. Retourner sur la GUI et ajouter le datastore

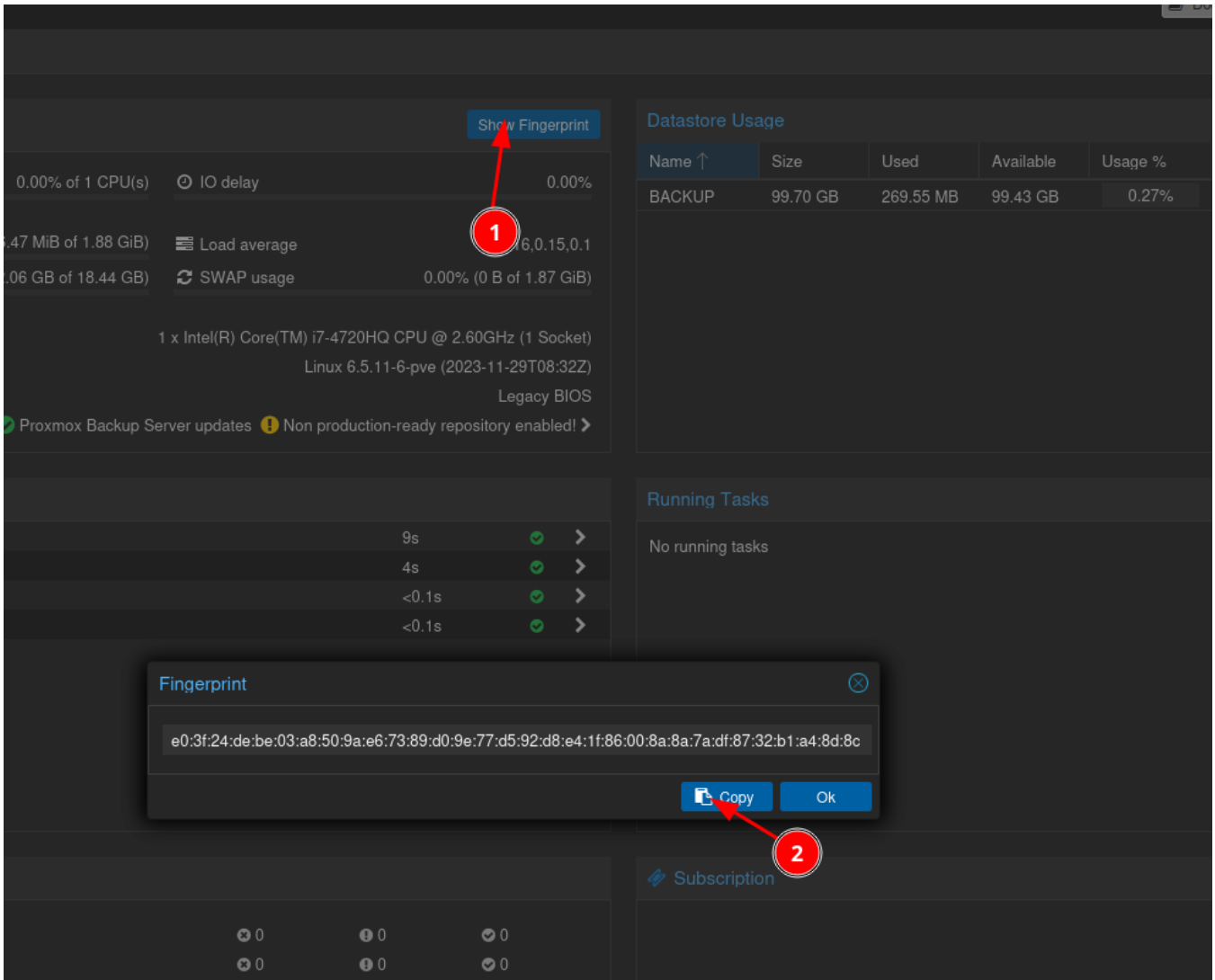


Lier le serveur de BACKUP au serveur PROXMOX

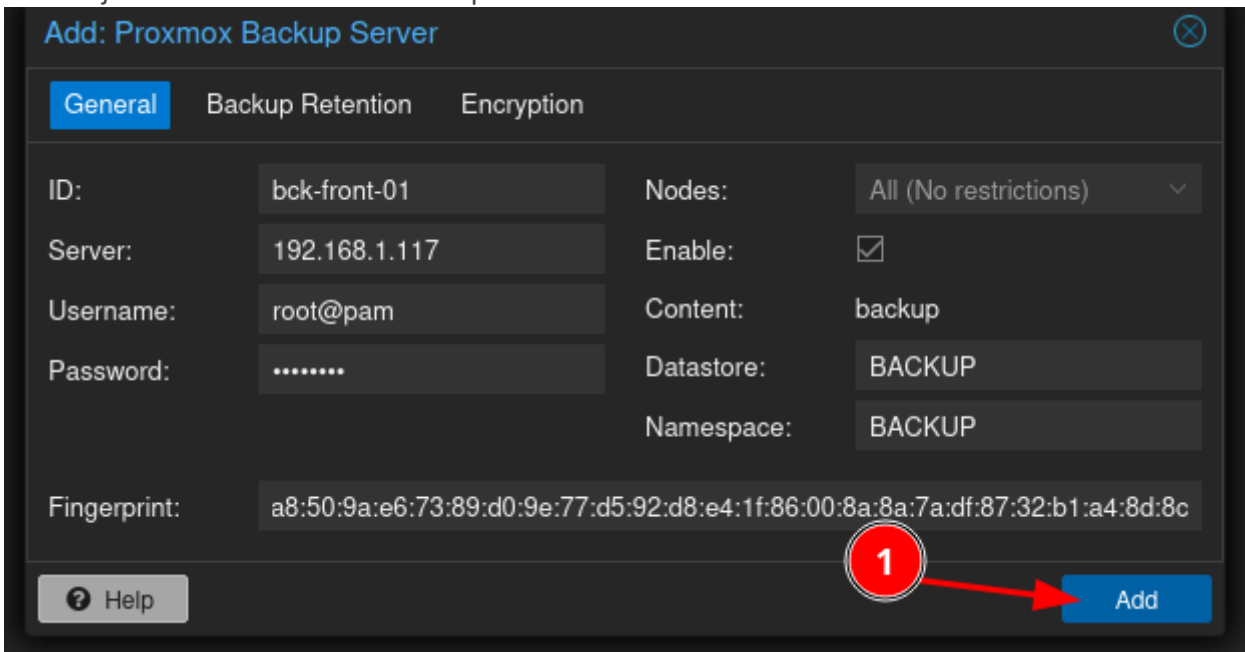
1. Se connecter au serveur Proxmox via la GUI
2. Récupérer les informations de jonctions:



3. Se connecter au serveur de Backup et récupérer le fingerprint



4. Enfin ajouter le serveur de backup sur le serveur PROXMOX



Backup and Restore d'un proxmox A à un proxmox B

? Migration d'une VM Proxmox vers un autre serveur - Méthode Backup & Restore

1. Sauvegarder la VM sur l'ancien serveur

```
vzdump <VMID> --storage local --mode stop
```

- `<VMID>` : ID de la VM à migrer
- `--mode stop` : la VM sera arrêtée durant la sauvegarde (plus sûr)
- Le fichier de sauvegarde sera créé dans `/var/lib/vz/dump/`

2. Copier le fichier de sauvegarde vers le nouveau serveur

```
scp /var/lib/vz/dump/vzdump-qemu-<VMID>-*.*.vma.zst root@<NOUVEAU_IP>:/var/lib/vz/dump/
```

3. Restaurer la VM sur le nouveau serveur

```
qmrestore /var/lib/vz/dump/vzdump-qemu-<VMID>-*.*.vma.zst <NOUVEL_VMID>
```

Option : Spécifier le stockage cible

```
qmrestore /var/lib/vz/dump/vzdump-qemu-<VMID>-*.*.vma.zst <NOUVEL_VMID> --storage local-lvm
```