

Tutoriel :

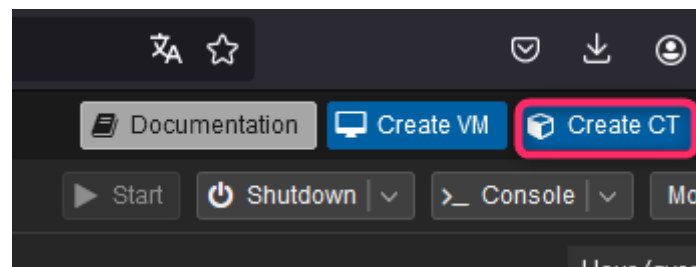
- **Installation et configuration d'un conteneur Proxmox, installation de ssh et d'un compte utilisateur**

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1-Installation et Configuration d'un Conteneur :

- Installation de Conteneur sur Proxmox :



- Dans un premier temps, on génère les clefs privées et publiques sur une machine Windows, la privée qui sera stocké sur la machine pour l'administrateur.
- Et le passphrase, qui servira lors de la connexion du compte "root", qui sera Password.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. Tous droits réservés.

Installez la dernière version de PowerShell pour de nouvelles fonctionnalités et améliorations ! https://aka.ms/PSWindows

PS C:\Users\Briz\OneDrive - Ecole IPSSI\Desktop\CLEF SSH> SSH-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\Briz\.ssh\id_rsa): clef
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in clef
Your public key has been saved in clef.pub
The key fingerprint is:
SHA256:j9gTTP9Fkpo2pnaDvTGL0s0h7NmZA+GmFxHXQDa66NQ briz@LAPTOP-0CIRJ04A
The key's randomart image is:
+----[RSA 4096]-----+
|
|  .o
|  .o... .
|  .o.  o .
| oo+ . o o
| ooEoS B .
| o Bo.X o .
| .+.OB+B .
| .=.B+ *
| ..o..o
+----[SHA256]-----+
PS C:\Users\Briz\OneDrive - Ecole IPSSI\Desktop\CLEF SSH>
```

- Cette fenêtre s'ouvre, on entre un nom de Conteneur et on crée un mot de passe, puis, on choisit « Load SSH Key File » et on choisit la clef ssh publique stocké sur l'ordinateur

The screenshot shows the 'Create: LXC Container' window with the 'General' tab selected. The window has a dark theme and a close button in the top right corner. The tabs at the top are: General (selected), Template, Disks, CPU, Memory, Network, DNS, and Confirm. The form fields are as follows:

Field	Value
Node:	pve
CT ID:	111
Hostname:	SSH
Unprivileged container:	<input checked="" type="checkbox"/>
Nesting:	<input checked="" type="checkbox"/>
Resource Pool:	
Password:
Confirm password:
SSH public key:	ssh-rsa AAAAB3NzaC1yc2EAAAADA...

At the bottom right of the form, there is a blue button labeled 'Load SSH Key File'. At the very bottom of the window, there is a 'Help' button with a question mark icon, an 'Advanced' checkbox, and 'Back' and 'Next' buttons.

- Cliquer sur template et choisir un iso Debian puis cliquer sur next:

The screenshot shows the 'Create: LXC Container' window with the 'Template' tab selected. The window has a dark theme and a close button in the top right corner. The tabs at the top are: General, Template (selected), Disks, CPU, Memory, Network, DNS, and Confirm. The form fields are as follows:

Field	Value
Storage:	local
Template:	debian-11-standard_11.7-1_amd64

At the bottom right of the window, there are 'Back' and 'Next' buttons.

Create: LXC Container

General

Template

Disks

CPU

Memory

Network

DNS

Confirm

Cores:

1

Help

Advanced ☐

Back

Next

Create: LXC Container

General

Template

Disks

CPU

Memory

Network

DNS

Confirm

rootfs

Storage:

local-lvm

Disk size (GiB):

8

Add

Advanced ☐

Back

Next

Create: LXC Container

General Template Disks CPU Memory **Network** DNS Confirm

Name: eth0 IPv4: ☐ Static ☒ DHCP

MAC address: auto IPv4/CIDR:

Bridge: vmbr0 Gateway (IPv4):

VLAN Tag: no VLAN IPv6: ☒ Static ☐ DHCP ☐ SLAAC

Firewall: ☒ IPv6/CIDR: None

Gateway (IPv6):

Help Advanced ☐ Back Next

(Le DHCP est temporaire)

2 - Installation du SSH

- Après avoir fini l'installation du conteneur, on rentre sur la console Debian, et on commence l'installation de SSH, ainsi que le compte utilisateur.

```
Debian GNU/Linux 11 SSH tty1
SSH login: root
Password:
Linux SSH 6.2.16-3-pve #1 SMP PREEMPT_DYNAMIC FVE 6.2.16-3 (2023-06-17T05:58Z) 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@SSH:~# apt install
Reading package lists... Done
Building dependency tree... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@SSH:~# apt upgrade
Reading package lists... Done
Building dependency tree... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@SSH:~# apt install openssh-server
Reading package lists... Done
Building dependency tree... Done
openssh-server is already the newest version (1:8.4p1-5+deb11u1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@SSH:~# apt update
Get:1 http://security.debian.org bullseye-security InRelease [48.4 kB]
Get:2 http://deb.debian.org/debian bullseye InRelease [116 kB]
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [44.1 kB]
Get:4 http://security.debian.org bullseye-security/main amd64 Packages [264 kB]
Get:5 http://security.debian.org bullseye-security/main Translation-en [171 kB]
Get:6 http://deb.debian.org/debian bullseye/main amd64 Packages [8062 kB]
Get:7 http://deb.debian.org/debian bullseye-updates/main amd64 Packages.diff/Index [26.3 kB]
Get:8 http://deb.debian.org/debian bullseye/main Translation-en [6236 kB]
Get:9 http://deb.debian.org/debian bullseye/contrib Translation-en [46.9 kB]
Get:10 http://deb.debian.org/debian bullseye-updates/main amd64 Packages T-2023-12-29-1403.39-P-2023-07-31-2005.11.pdiff [6053 B]
Get:11 http://deb.debian.org/debian bullseye-updates/main amd64 Packages T-2023-12-29-1403.39-P-2023-07-31-2005.11.pdiff [6053 B]
Get:12 http://deb.debian.org/debian bullseye-updates/main amd64 Packages [18.8 kB]
Fetched 15.1 MB in 4s (3999 kB/s)
Reading package lists... Done
Building dependency tree... Done
49 packages can be upgraded. Run 'apt list --upgradable' to see them.
N: Repository 'http://security.debian.org bullseye-security InRelease' changed its 'Suite' value from 'stable-security' to 'oldstable-security'
N: Repository 'http://deb.debian.org/debian bullseye InRelease' changed its 'Version' value from '11.7' to '11.8'
N: Repository 'http://deb.debian.org/debian bullseye InRelease' changed its 'Suite' value from 'stable' to 'oldstable'
N: Repository 'http://deb.debian.org/debian bullseye-updates InRelease' changed its 'Suite' value from 'stable-updates' to 'oldstable-updates'
root@SSH:~#
```

3 - Création et Configuration d'un compte utilisateur

- On crée l'utilisateur SLAM :

```
https://192.168.1.70:8006/norunde-subdomain?1&name=111&username=SLAMnode=prekoma-
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individual files in /usr/share/doc/*/copyright.

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permitted by applicable law.
root@SSH:~# apt install
Reading package lists... Done
Building dependency tree... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@SSH:~# apt upgrade
Reading package lists... Done
Building dependency tree... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@SSH:~# apt install openssh-server
Reading package lists... Done
Building dependency tree... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@SSH:~# apt update
Get:1 http://security.debian.org/debian-security InRelease [48.4 kB]
Get:2 http://deb.debian.org/debian bullseye InRelease [114 kB]
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [44.1 kB]
Get:4 http://security.debian.org/debian-security/main amd64 Packages [264 kB]
Get:5 http://security.debian.org/debian-security/main Translation-en [171 kB]
Get:6 http://deb.debian.org/debian bullseye/main amd64 Packages [9062 kB]
Get:7 http://deb.debian.org/debian bullseye-updates/main amd64 Packages.diff/index [26.3 kB]
Get:8 http://deb.debian.org/debian bullseye/main Translation-en [4236 kB]
Get:9 http://deb.debian.org/debian bullseye/contrib Translation-en [46.9 kB]
Get:10 http://deb.debian.org/debian bullseye-updates/main Translation-en [10.9 kB]
Get:11 http://deb.debian.org/debian bullseye-updates/main amd64 Packages 7-2023-12-29-1403.39-F-2023-07-31-2005.11.pdf [6053 B]
Get:12 http://deb.debian.org/debian bullseye-updates/main amd64 Packages 7-2023-12-29-1403.39-F-2023-07-31-2005.11.pdf [6053 B]
Fetched 15.1 kB in 4s (3959 kB/s)
Reading package lists... Done
Building dependency tree... Done
49 packages can be upgraded. Run 'apt list --upgradable' to see them.
N: Repository 'http://security.debian.org/debian-security InRelease' changed its 'Suite' value from 'stable-security' to 'oldstable-security'
N: Repository 'http://deb.debian.org/debian bullseye InRelease' changed its 'Version' value from '11.7' to '11.8'
N: Repository 'http://deb.debian.org/debian bullseye InRelease' changed its 'Suite' value from 'stable' to 'oldstable'
N: Repository 'http://deb.debian.org/debian bullseye-updates InRelease' changed its 'Suite' value from 'stable-updates' to 'oldstable-updates'
root@SSH:~# adduser
adduser: Only one or two names allowed.
root@SSH:~# adduser SLAM
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX configuration variable. Use the '--force-badname'
option to skip this check or reconfigure NAME_REGEX.
root@SSH:~# adduser --force-badname SLAM
Adding user 'SLAM' ...
Adding new group 'SLAM' (1000) ...
Adding new user 'SLAM' (1000) with group 'SLAM' ...
Creating home directory '/home/SLAM' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for SLAM
Enter the new value, or press ENTER for the default
Full Name []: SLAM
Room Number []: SLAM
Work Phone []: SLAM
Home Phone []: SLAM
Other []: SLAME
Is the information correct? [Y/n] y
root@SSH:~#
```

```
root@SSH:~# adduser --force-badname SLAM
Allowing use of questionable username.
Adding user `SLAM' ...
Adding new group `SLAM' (1000) ...
Adding new user `SLAM' (1000) with group `SLAM' ...
Creating home directory `/home/SLAM' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for SLAM
Enter the new value, or press ENTER for the default
Full Name []: SLAM
Room Number []: SLAM
Work Phone []: SLAM
Home Phone []: SLAM
Other []: SLAME
Is the information correct? [Y/n] y
root@SSH:~#
```

- On donne l'accès au droit sudo à l'utilisateur, sans lui donner le mot de passe root.

```
root@SSH:~# usermod -aG sudo SLAM
root@SSH:~# exit
logout
```

Passphrase : Password

IP de la machine : 192.168.1.215

Mot de passe de la session : SLAM

- Installation du service sudo, pour permettre à l'utilisateur d'utiliser le droit root temporairement.

```
root@SSH:/home/SLAM# apt install sudo
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  sudo
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 1061 kB of archives.
After this operation, 4699 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bullseye/main amd64 sudo amd64 1.9.5p2-3+deb11u1 [1061 kB]
Fetched 1061 kB in 0s (5212 kB/s)
Selecting previously unselected package sudo.
(Reading database ... 19752 files and directories currently installed.)
Preparing to unpack .../sudo_1.9.5p2-3+deb11u1_amd64.deb ...
Unpacking sudo (1.9.5p2-3+deb11u1) ...
Setting up sudo (1.9.5p2-3+deb11u1) ...
```


4 - Connexion d'un utilisateur

- Connexion en SSH à l'utilisateur SLAM :

```
PS C:\Users\Briz\OneDrive - Ecole IPSSI\Desktop\CLEF SSH\Clef privée> ssh SLAM@192.168.1.215
SLAM@192.168.1.215's password:
Linux SSH 6.2.16-3-pve #1 SMP PREEMPT_DYNAMIC PVE 6.2.16-3 (2023-06-17T05:58Z) x86_64

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permitted by applicable law.
Last login: Thu Jan  4 11:34:07 2024 from 192.168.1.19
SLAM@SSH:~$
```

- Connexion en SSH au compte root :
(avant la commande, on se déplace dans le dossier où se trouve la clef publique)

```
PS C:\Users\Briz\OneDrive - Ecole IPSSI\Desktop\CLEF SSH\Clef privée> ssh -i "clef" root@192.168.1.215
Enter passphrase for key 'clef':
Linux SSH 6.2.16-3-pve #1 SMP PREEMPT_DYNAMIC PVE 6.2.16-3 (2023-06-17T05:58Z) x86_64

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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.
Last login: Thu Jan  4 11:24:45 2024 from 192.168.1.19
root@SSH:~#
```

- Pour changer de mot de passe :

```
SLAM@SSH:~$ sudo passwd SLAM
[sudo] password for SLAM:
New password:
Retype new password:
passwd: password updated successfully
SLAM@SSH:~$
```

Reference de document : Tuto Conteneur Proxmox, SSH et Compte Utilisateur

Date : 04/01/2024