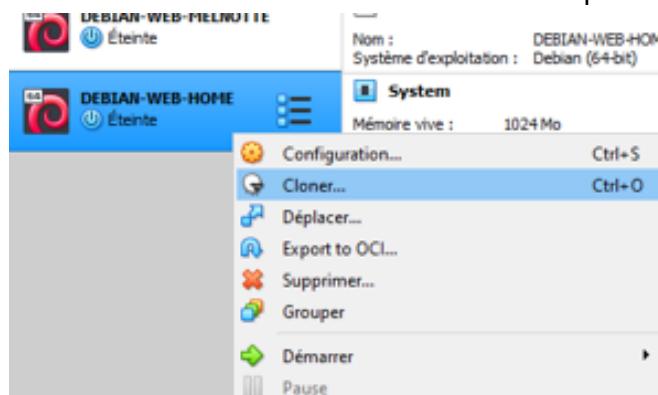




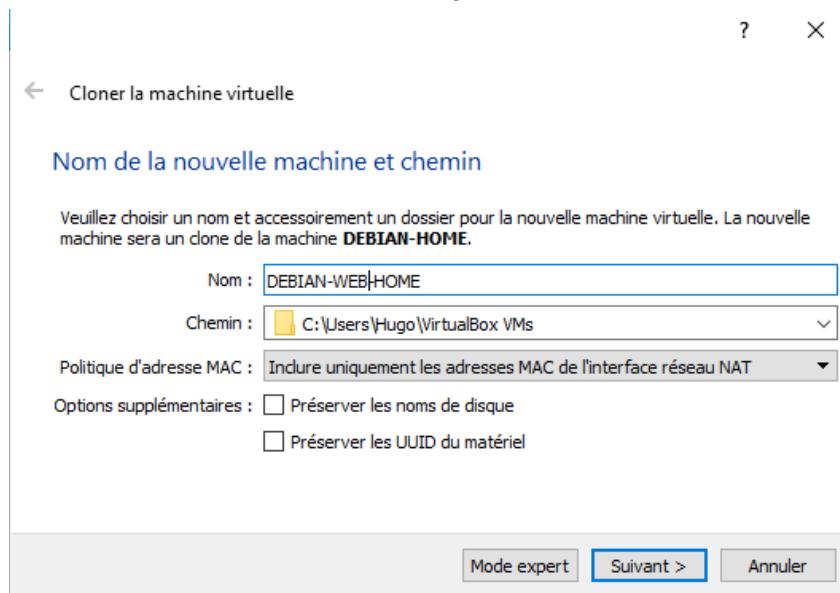
<b>Préparation du serveur</b>	<b>1</b>
<b>Installation d'un serveur web Linux Apache MySQL PHP</b>	<b>4</b>
<b>Source</b>	<b>8</b>

## Préparation du serveur

Tout d'abord faites un clic droit sur votre VM puis "Cloner...".



Renommez la machine de cette façon : DEBIAN-HUGO > DEBIAN-WEB-HUGO



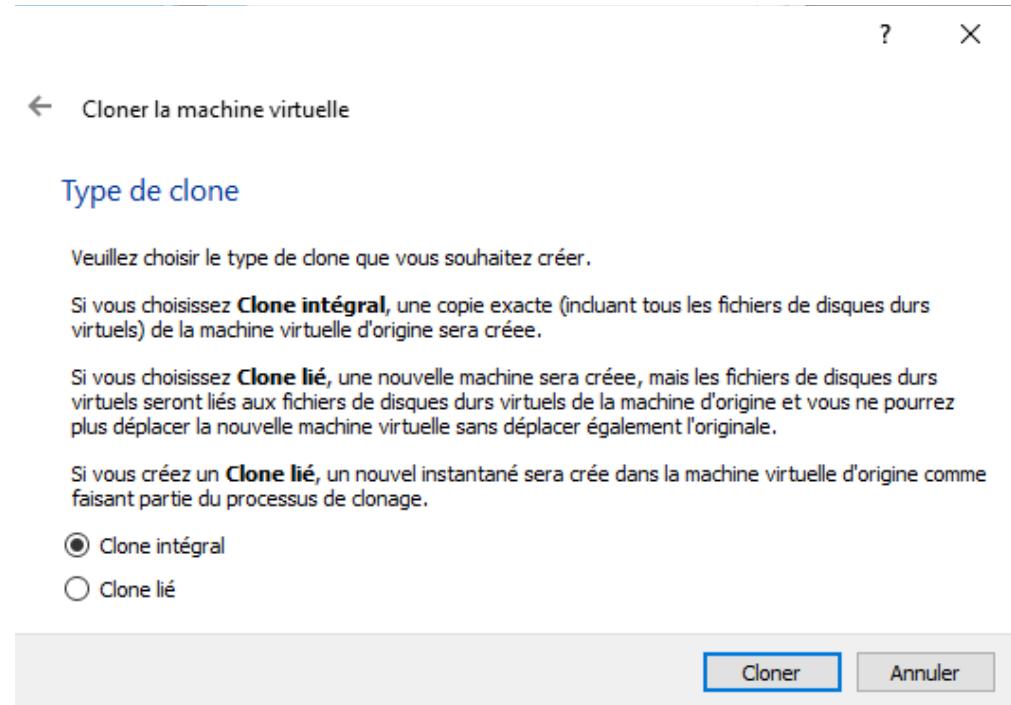


# Installation d'un serveur LAMP / Debian 10

MELNOTTE Hugo

BTS SIO

Choisissez "Clone intégral".



Lancez ensuite la nouvelle VM et connectez-vous en root.

```
Debian GNU/Linux 11 DEBIAN-WEB-HOME tty1
DEBIAN-WEB-HOME login: hugo
Password:
Linux DEBIAN-WEB-HOME 5.10.0-9-amd64 #1 SMP Debian 5.10.70-1 (2021-09-30) 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.
Last login: Wed Oct 13 21:46:27 CEST 2021 from 192.168.1.45 on pts/0
hugo@DEBIAN-WEB-HOME:~$ su -
Mot de passe :
root@DEBIAN-WEB-HOME:~#
```



# Installation d'un serveur LAMP / Debian 10

MELNOTTE Hugo

BTS SIO

---

Modifiez le nom de la machine système :

*nano /etc/hostname*

```
Debian GNU/Linux 11 DEBIAN-WEB-HOME tty1
DEBIAN-WEB-HOME login: hugo
Password:
Linux DEBIAN-WEB-HOME 5.10.0-9-amd64 #1 SMP Debian 5.10.70-1 (2021-09-30) 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.
Last login: Wed Oct 13 21:46:27 CEST 2021 from 192.168.1.45 on pts/0
hugo@DEBIAN-WEB-HOME:~$ su -
Mot de passe :
root@DEBIAN-WEB-HOME:~# nano /etc/hostname_
```

Remplacez DEBIAN-HUGO par DEBIAN-WEB-HUGO puis sauvegardez avec CTRL + X puis O pour enregistrer les modifications.

Maintenant, vous devez redémarrer le système avec :

*reboot*

```
GNU nano 5.4                               /etc/hostname
DEBIAN-WEB-HOME
```

Le nom à bien changer, on peut le vérifier avec : *hostname*

```
root@DEBIAN-WEB-HOME:~# hostname
DEBIAN-WEB-HOME
root@DEBIAN-WEB-HOME:~#
```



## Installation d'un serveur web Linux Apache MySQL PHP

Avant d'installer le serveur web, assurez-vous d'avoir une machine à jour avec la commande :

**apt update**

```
root@DEBIAN-WEB-HOME:~# apt update
Atteint :1 http://security.debian.org/debian-security bullseye-security InRelease
Atteint :2 http://deb.debian.org/debian bullseye InRelease
Récupération de :3 http://deb.debian.org/debian bullseye-updates InRelease [39,4 kB]
39,4 kB réceptionnés en 1s (27,6 kB/s)
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Tous les paquets sont à jour.
root@DEBIAN-WEB-HOME:~# _
```

Une fois votre système à jour procédez à l'installation d'Apache avec l'installation du paquet apache2 via la commande :

**apt install apache2**

```
root@DEBIAN-WEB-HOME:~# apt install apache2_
```

La commande *ip* a donné l'adresse IP de la machine debian.

```
root@DEBIAN-WEB-HOME:~# ip a
```

La VM étant connectée en pont (bridge), vous avez la possibilité d'accéder au serveur Apache en tapant l'adresse IP <http://votre-ip/> dans votre navigateur.

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Debian systems. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

**Configuration Overview**

Debian's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Debian tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Debian systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|   |-- mods-enabled
|       |-- *.load
|       |-- *.conf
|   |-- conf-enabled
|       '-- *.conf
|-- sites-enabled
|   '-- *.conf
```



# Installation d'un serveur LAMP / Debian 10

MELNOTTE Hugo  
BTS SIO

---

Ensuite il faut installer un système de gestionnaire de base de données MySql / MariaDB avec la commande :

*apt install mariadb-server*

```
root@DEBIAN-WEB-HOME:~# apt install mariadb-server
```

Désormais vous devez installer les paquets liés à PHP afin de pouvoir créer des scripts web dynamiques sur vos applications web. Installez PHP avec :

*apt install php libapache2-mod-php php-mysql*

```
root@DEBIAN-WEB-HOME:~# apt install php libapache2-mod-php php-mysql
```

Vérifiez si le serveur Apache tourne sans problème avec :

*systemctl status apache2*

```
root@DEBIAN-WEB-HOME:~# systemctl status apache2
```

Un warning a été détecté : "Could not reliably determine the server's fully qualified name domaine name."

```
Creating config file /etc/php/7.4/cli/php.ini with new version
Paramétrage de libapache2-mod-php7.4 (7.4.21-1+deb11u1) ...

Creating config file /etc/php/7.4/apache2/php.ini with new version
Module mpm_event disabled.
Enabling module mpm_prefork.
apache2_switch_mpm Switch to prefork
apache2_invoke: Enable module php7.4
Paramétrage de php7.4 (7.4.21-1+deb11u1) ...
Paramétrage de libapache2-mod-php (2:7.4+76) ...
Paramétrage de php (2:7.4+76) ...
Traitement des actions différencées (« triggers ») pour man-db (2.9.4-2) ...
Traitement des actions différencées (« triggers ») pour libc-bin (2.31-13+deb11u2) ...
Traitement des actions différencées (« triggers ») pour php7.4-cli (7.4.21-1+deb11u1) ...
Traitement des actions différencées (« triggers ») pour libapache2-mod-php7.4 (7.4.21-1+deb11u1) ...
root@DEBIAN-WEB-HOME:~# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2021-10-13 23:59:44 CEST; 2min 39s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 10663 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 10667 (apache2)
      Tasks: 6 (limit: 1133)
     Memory: 12.4M
        CPU: 155ms
      CGroup: /system.slice/apache2.service
              ├─10667 /usr/sbin/apache2 -k start
              ├─10669 /usr/sbin/apache2 -k start
              ├─10670 /usr/sbin/apache2 -k start
              ├─10671 /usr/sbin/apache2 -k start
              ├─10672 /usr/sbin/apache2 -k start
              └─10673 /usr/sbin/apache2 -k start

oct. 13 23:59:44 DEBIAN-WEB-HOME systemd[1]: Starting The Apache HTTP Server...
oct. 13 23:59:44 DEBIAN-WEB-HOME apachectl[10666]: AH00558: apache2: Could not reliably determine the fully qualified name ...
oct. 13 23:59:44 DEBIAN-WEB-HOME systemd[1]: Started The Apache HTTP Server.
lines 1-20/20 (END)
```



# Installation d'un serveur LAMP / Debian 10

MELNOTTE Hugo

BTS S10

Vous devez éditer le fichier hosts (DNS interne de la machine) avec :

*nano /etc/hosts*

Mappez le nouveau nom avec l'adresse 127.0.1.1.

```
GNU nano 5.4                               /etc/hosts
127.0.0.1      localhost
127.0.1.1      DEBIAN-WEB-HOME

# The following lines are desirable for IPv6 capable hosts
::1      localhost ip6-localhost ip6-loopback
ff02::1  ip6-allnodes
ff02::2  ip6-allrouters

[ Lecture de 7 lignes ]
^G Aide      ^O Écrire      ^W Chercher      ^K Couper      ^T Exécuter      ^C Emplacement      M-U Annuler
^X Quitter    ^R Lire fich.  ^Y Remplacer    ^U Coller       ^J Justifier    ^L Aller ligne      M-E Refaire
```



# Installation d'un serveur LAMP / Debian 10

MELNOTTE Hugo  
BTS SIO

---

Si le problème persiste, il faut éditer le fichier de configuration du serveur Apache avec  
`nano /etc/apache2/apache2.conf`

Puis ajoutez la variable globale « `ServerName` » en lui attribuant la valeur « `localhost` ».

```
GNU nano 5.4                               /etc/apache2/apache2.conf *
```

```
Require all denied
</FileMatch>

#
# The following directives define some format nicknames for use with
# a CustomLog directive.
#
# These deviate from the Common Log Format definitions in that they use %0
# (the actual bytes sent including headers) instead of %b (the size of the
# requested file), because the latter makes it impossible to detect partial
# requests.
#
# Note that the use of %{X-Forwarded-For}i instead of %h is not recommended.
# Use mod_remoteip instead.
#
LogFormat "%v:%p %h %l %u %t \"%r\" %>s %0 \"%{Referer}i\" \"%{User-Agent}i\"\" vhost_combined
LogFormat "%h %l %u %t \"%r\" %>s %0 \"%{Referer}i\" \"%{User-Agent}i\"\" combined
LogFormat "%h %l %u %t \"%r\" %>s %0\" common
LogFormat "%{Referer}i -> %U" referer
LogFormat "%{User-agent}i" agent

# Include of directories ignores editors' and dpkg's backup files,
# see README.Debian for details.

# Include generic snippets of statements
IncludeOptional conf-enabled/*.conf

# Include the virtual host configurations:
IncludeOptional sites-enabled/*.conf

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
ServerName localhost_
```

Toolbar: Aide (F1), Écrire (F2), Chercher (F3), Couper (F4), Exécuter (F5), Emplacement (F6), Annuler (F7), Quitter (F8), Lire fich. (F9), Remplacer (F10), Coller (F11), Justifier (F12), Aller ligne (F13), Refaire (F14)

Redémarrez ensuite le service pour que les changements soient pris en compte avec :  
`/etc/init.d/apache2 restart`

```
GNU nano 5.4                               /etc/apache2/apache2.conf
</FileMatch>

#
# The following directives define some format nicknames for use with
# a CustomLog directive.
#
# These deviate from the Common Log Format definitions in that they use %0
# (the actual bytes sent including headers) instead of %b (the size of the
# requested file), because the latter makes it impossible to detect partial
# requests.
#
# Note that the use of %{X-Forwarded-For}i instead of %h is not recommended.
# Use mod_remoteip instead.
#
LogFormat "%v:%p %h %l %u %t \"%r\" %>s %0 \"%{Referer}i\" \"%{User-Agent}i\"\" vhost_combined
LogFormat "%h %l %u %t \"%r\" %>s %0 \"%{Referer}i\" \"%{User-Agent}i\"\" combined
LogFormat "%h %l %u %t \"%r\" %>s %0\" common
LogFormat "%{Referer}i -> %U" referer
LogFormat "%{User-agent}i" agent

# Include of directories ignores editors' and dpkg's backup files,
# see README.Debian for details.

# Include generic snippets of statements
IncludeOptional conf-enabled/*.conf

# Include the virtual host configurations:
IncludeOptional sites-enabled/*.conf

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
ServerName localhost_
```

root@DEBIAN-WEB-HOME:~# /etc/init.d/apache2 restart



# Installation d'un serveur LAMP / Debian 10

MELNOTTE Hugo

BTS SIO

---

Puis vérifiez à nouveau avec :

`systemctl status apache2`

```
# Include of directories ignores editors' and dpkg's backup files,
# see README.Debian for details.

# Include generic snippets of statements
IncludeOptional conf-enabled/*.conf

# Include the virtual host configurations:
IncludeOptional sites-enabled/*.conf

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
ServerName localhost

root@DEBIAN-WEB-HOME:~# /etc/init.d/apache2 restart
Restarting apache2 (via systemctl): apache2.service.
root@DEBIAN-WEB-HOME:~# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2021-10-14 00:30:43 CEST; 48s ago
     Docs: https://httpd.apache.org/docs/2.4/
 Process: 10861 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
 Main PID: 10865 (apache2)
   Tasks: 6 (limit: 1133)
     Memory: 11.7M
        CPU: 156ms
      CGroup: /system.slice/apache2.service
          ├─10865 /usr/sbin/apache2 -k start
          ├─10871 /usr/sbin/apache2 -k start
          ├─10872 /usr/sbin/apache2 -k start
          ├─10873 /usr/sbin/apache2 -k start
          ├─10874 /usr/sbin/apache2 -k start
          └─10875 /usr/sbin/apache2 -k start

oct. 14 00:30:43 DEBIAN-WEB-HOME systemd[1]: Starting The Apache HTTP Server...
oct. 14 00:30:43 DEBIAN-WEB-HOME systemd[1]: Started The Apache HTTP Server.
root@DEBIAN-WEB-HOME:~#
```

Le serveur fonctionne bien.

## Source

[https://fr-wiki.ikoula.com/fr/Installer\\_un\\_LAMP\\_sous\\_debian\\_10](https://fr-wiki.ikoula.com/fr/Installer_un_LAMP_sous_debian_10)