

TP1

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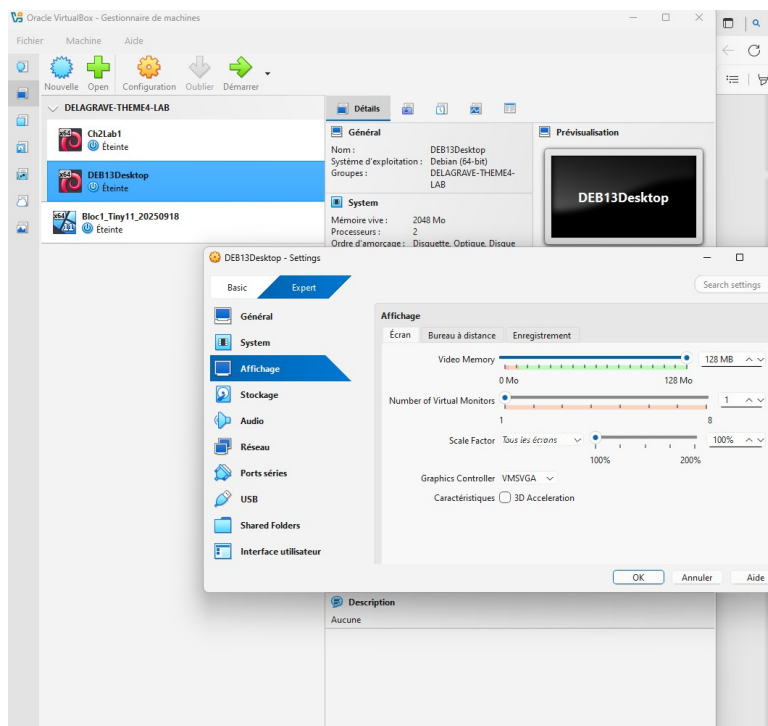
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1.1 CREATION DES MACHINE VIRTUELLES

1.1.1 CREATION DE LA VM POSTE DE TRAVAIL

Je lance Oracle VM Virtualbox

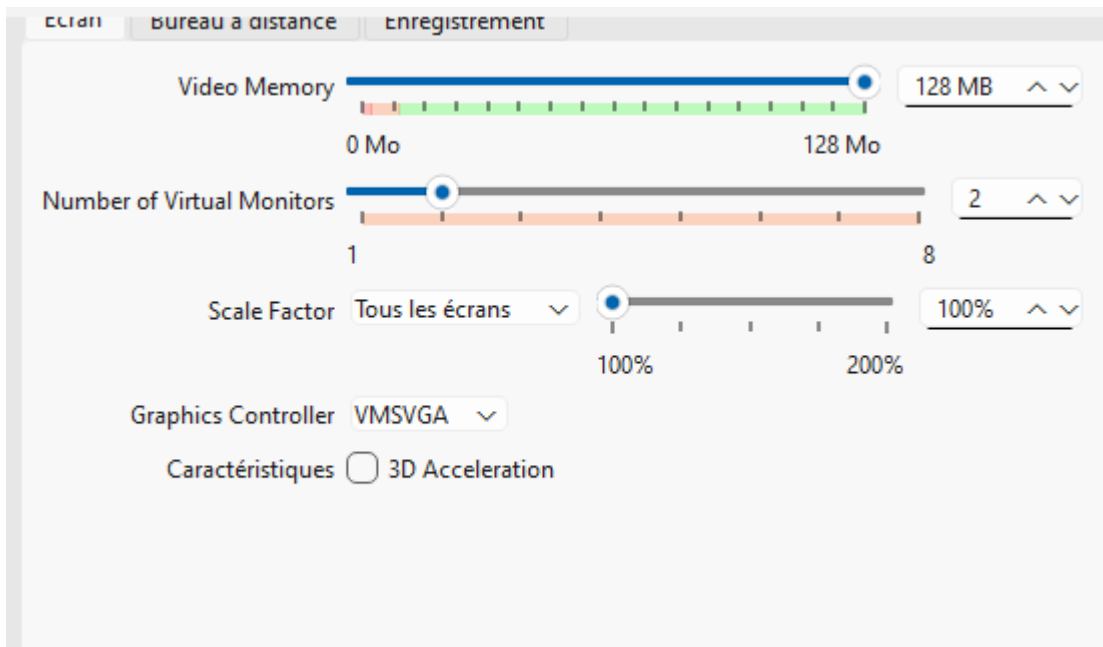
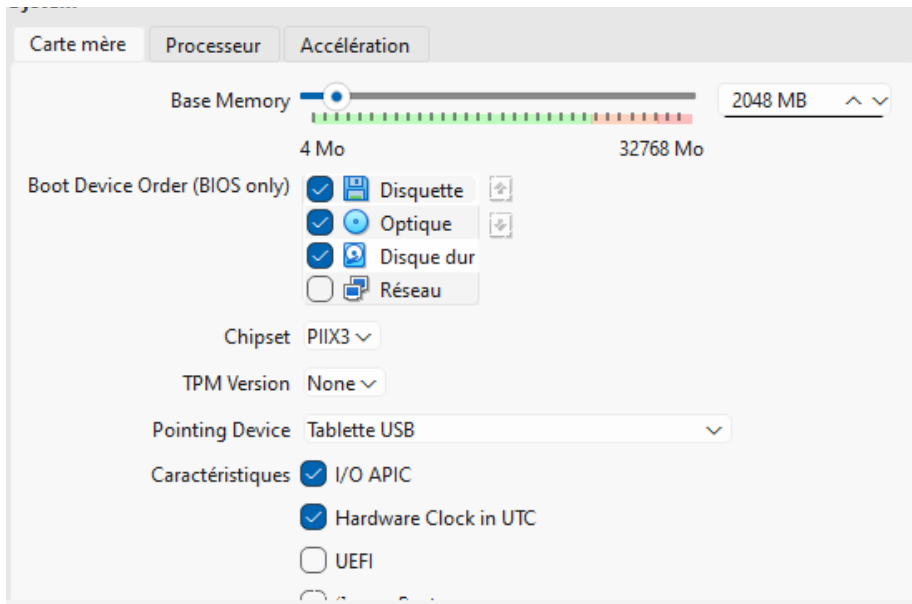
je a renomme DEB13Desktop et je la configure



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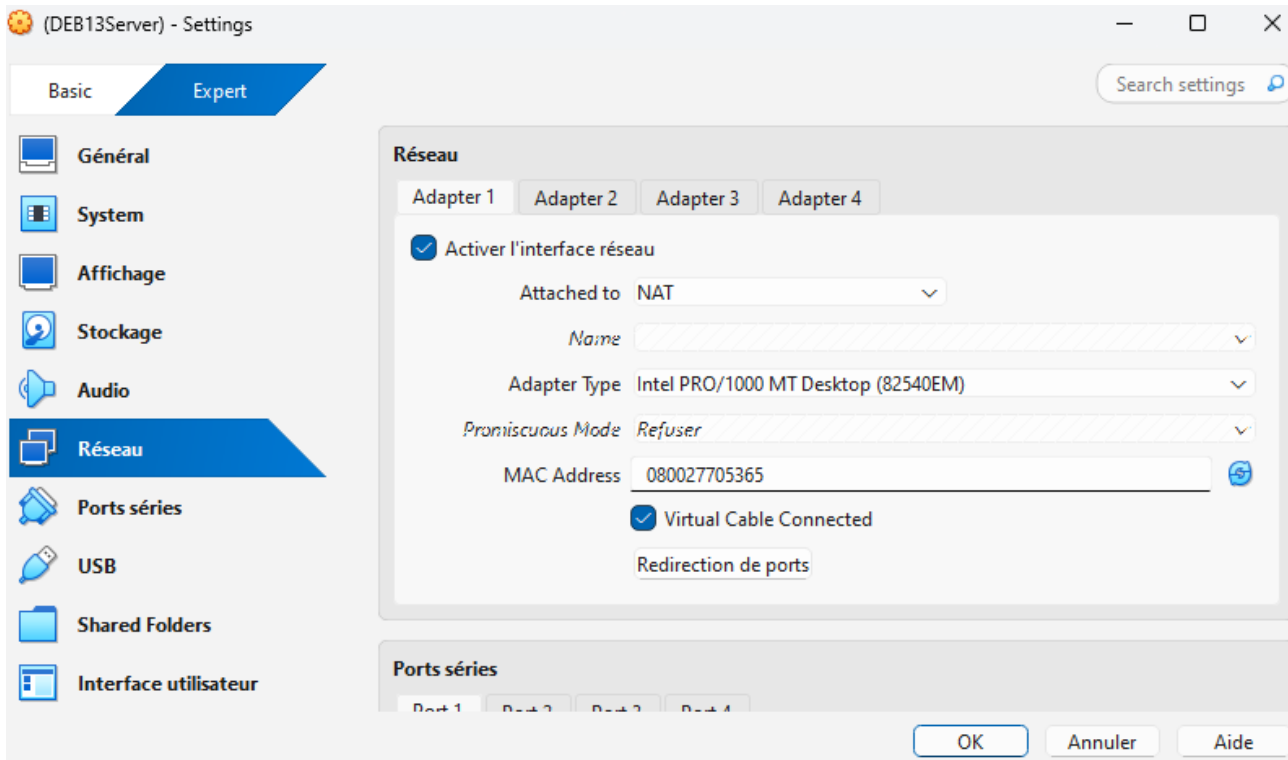
1.1.2 CREATION DE LA VM SERVEUR*

Je cree une nouvelle machine virtuelle que j'appelle DEB13Server



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1.2 CONNEXION RESEAU SOUS VIRTUALBOX

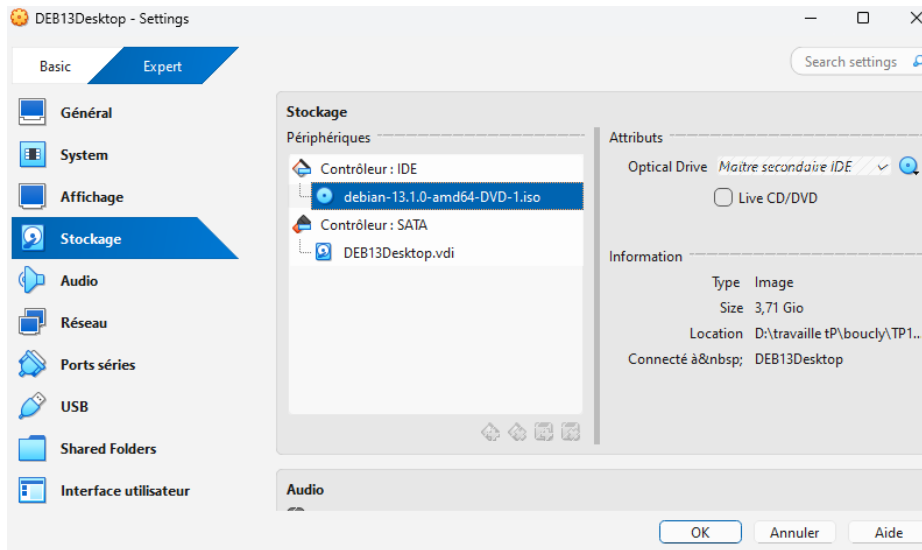


Je configure le réseau en NAT

1.3 INSTALLATION DE L'OS SUR LA MACHINE POSTE DE TRAVAIL

Je récupère le fichier iso et je le mets dans le lecteur CD

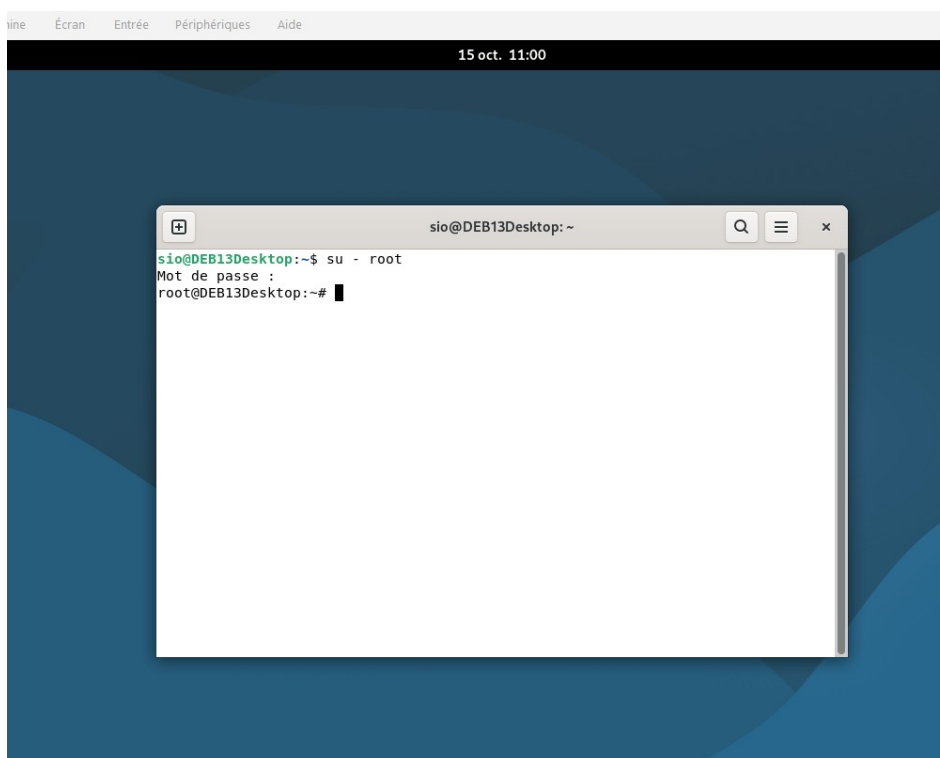
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et je lance la machine et je commence l'installation graphique

1.4 LA COMMANDE APT-GET UPDATE

Je lance le terminale et je me connecte en tant que root



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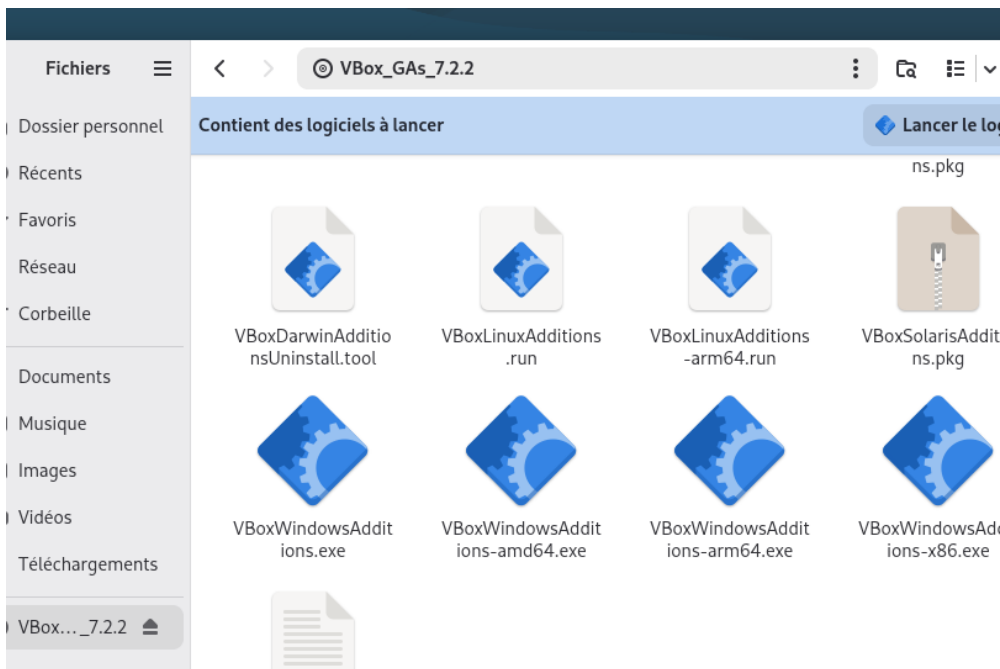
je telecharge les paquet demander

```
sio@DEB13Desktop: ~  
sio@DEB13Desktop:~$ su - root  
Mot de passe :  
root@DEB13Desktop:~# /etc/apt/sources.list  
-bash: /etc/apt/sources.list: Permission non accordée  
root@DEB13Desktop:~# nano /etc/apt/sources.list  
root@DEB13Desktop:~# apt-get update  
Atteint : 1 http://security.debian.org/debian-security trixie-security InRelease  
Atteint : 2 http://deb.debian.org/debian trixie InRelease  
Atteint : 3 http://deb.debian.org/debian trixie-updates InRelease  
Lecture des listes de paquets... Fait  
root@DEB13Desktop:~#
```

je modifie le fichier et j'enregistre

1.5 INSTALLATION DES ADDITIONS INVITER

J'ouvre le contenu DVD de la DEB



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puis j'installe les les 3 paquet demander

```
root@DEB13Desktop:~# apt-get install build-essential linux-headers-`uname -r` d
ms
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Les paquets supplémentaires suivants seront installés :
 binutils binutils-common binutils-x86-64-linux-gnu dpkg-dev fakeroot g++
 g++-14 g++-14-x86-64-linux-gnu g++-x86-64-linux-gnu gcc gcc-14
 gcc-14-x86-64-linux-gnu gcc-x86-64-linux-gnu libalgorithm-diff-perl
 libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan8 libbinutils
 libc-dev-bin libc6-dev libcc1-0 libcrypt-dev libctf-nobfd0 libctf0
 libdpkg-perl libfakeroot libfile-fcntllock-perl libgcc-14-dev libgprofng0
 libhwasan0 libitm1 liblsan0 libquadmath0 libsframe1 libstdc++-14-dev
 libtsan2 libubsan1 linux-headers-6.12.48+deb13-common
 linux-kbuild-6.12.48+deb13 linux-libc-dev make manpages-dev pahole patch
 rpcsvc-proto
Paquets suggérés :
 binutils-doc gprofng-gui binutils-gold menu debian-keyring
 debian-tag2upload-keyring g++-multilib g++-14-multilib gcc-14-doc
 gcc-multilib autoconf automake libtool flex bison gdb gcc-doc
 gcc-14-multilib gcc-14-locales gdb-x86-64-linux-gnu libc-devtools glibc-doc
 git bzip libstdc++-14-doc make-doc ed diffutils-doc
Les NOUVEAUX paquets suivants seront installés :
```

```
root@DEB13Desktop:/media/cdrom0# sh VBoxLinuxAdditions.run
Verifying archive integrity... 100% MD5 checksums are OK. All good.
Uncompressing VirtualBox 7.2.2 Guest Additions for Linux 100%
VirtualBox Guest Additions installer
```

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The screenshot shows a Linux desktop environment with a file manager window open to a CD-ROM. The file manager displays a list of files: VBoxDarwinAdditionsUninstall.tool, VBoxLinuxAdditions.run, VBoxLinuxAdditions-arm64.run, and VBoxSolarisAdditions.pkg. A context menu is open over the files, showing options like 'Lecteurs optiques', 'Audio', 'Réseau', 'USB', 'Dossiers partagés', 'Presse-papier partagé', 'Glisser-Déposer', 'Insérer l'image CD des Additions invité...', and 'Upgrade Guest Additions...'. A terminal window in the foreground shows the execution of VBoxLinuxAdditions.run, with output indicating successful installation and kernel module building.

```
-r--r--r-- 1 root root 261 10 mars 2023 windows11-bypass.reg
root@DEB13Desktop:/media/cdrom0# sh VBoxLinuxAdditions.run
Verifying archive integrity... 100% MD5 checksums are OK. All good.
Uncompressing VirtualBox 7.2.2 Guest Additions for Linux 100%
VirtualBox Guest Additions installer
VirtualBox Guest Additions: Starting.
VirtualBox Guest Additions: Setting up modules
VirtualBox Guest Additions: Building the VirtualBox Guest Additions kernel
modules. This may take a while.
VirtualBox Guest Additions: To build modules for other installed kernels, run
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup <version>
VirtualBox Guest Additions: or
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup all
VirtualBox Guest Additions: Building the modules for kernel 6.12.48+deb13-amd64.
update-initramfs: Generating /boot/initrd.img-6.12.48+deb13-amd64
VirtualBox Guest Additions: Running kernel modules will not be replaced until
the system is restarted or 'rcvboxadd reload' triggered
VirtualBox Guest Additions: reloading kernel modules and services
VirtualBox Guest Additions: kernel modules and services 7.2.2 r170484 reloaded
VirtualBox Guest Additions: NOTE: you may still consider to re-login if some
user session specific services (Shared Clipboard, Drag and Drop, Seamless or
Guest Screen Resize) were not restarted automatically
root@DEB13Desktop:/media/cdrom0#
```

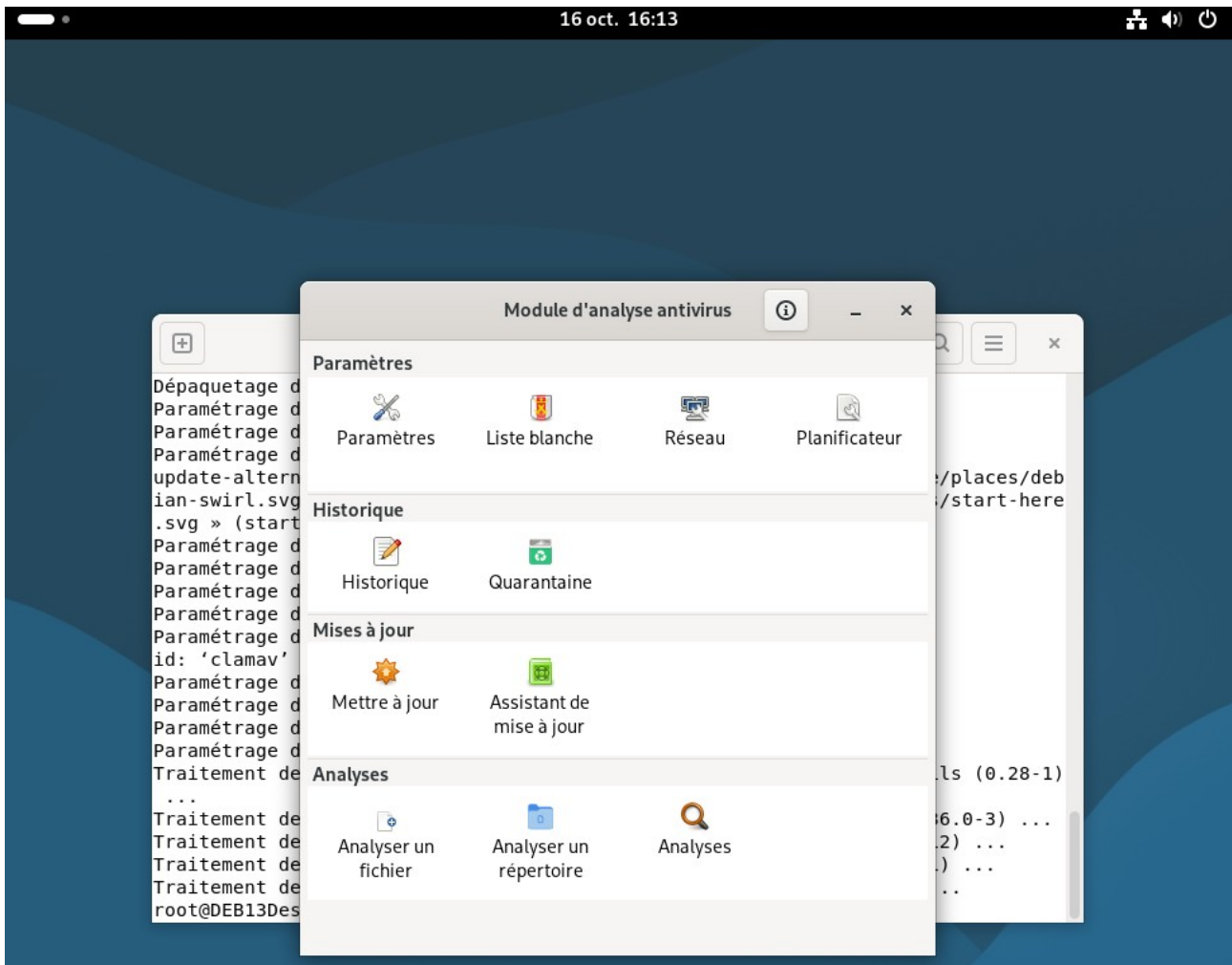
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1.6 INSTALLATION D'UN ANTIVIRUS

J'installe l'anti virus en tant que root

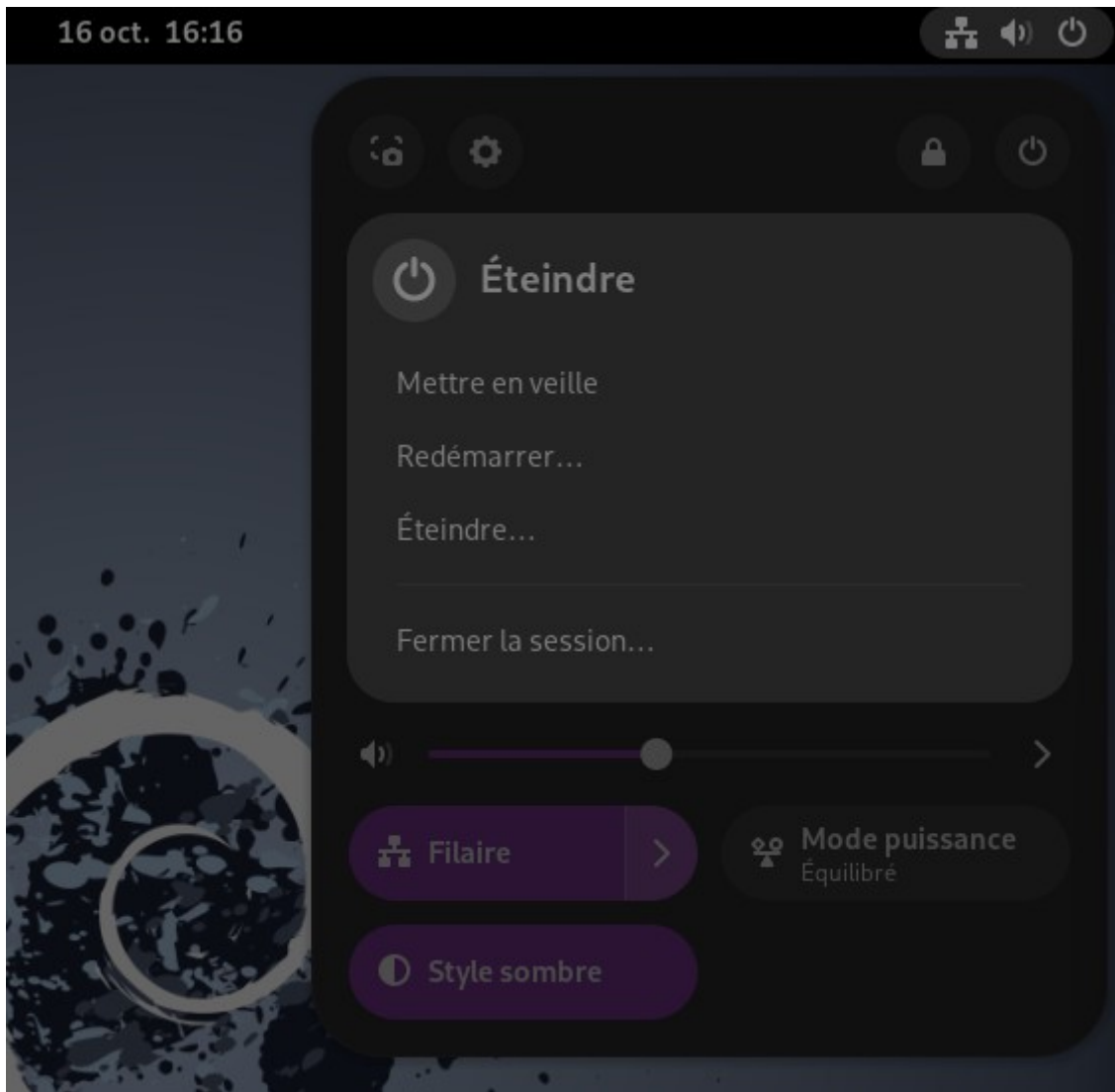
avec la commande

```
apt-get install clamav clamtk
```



puis j'arrête la machine virtuelle

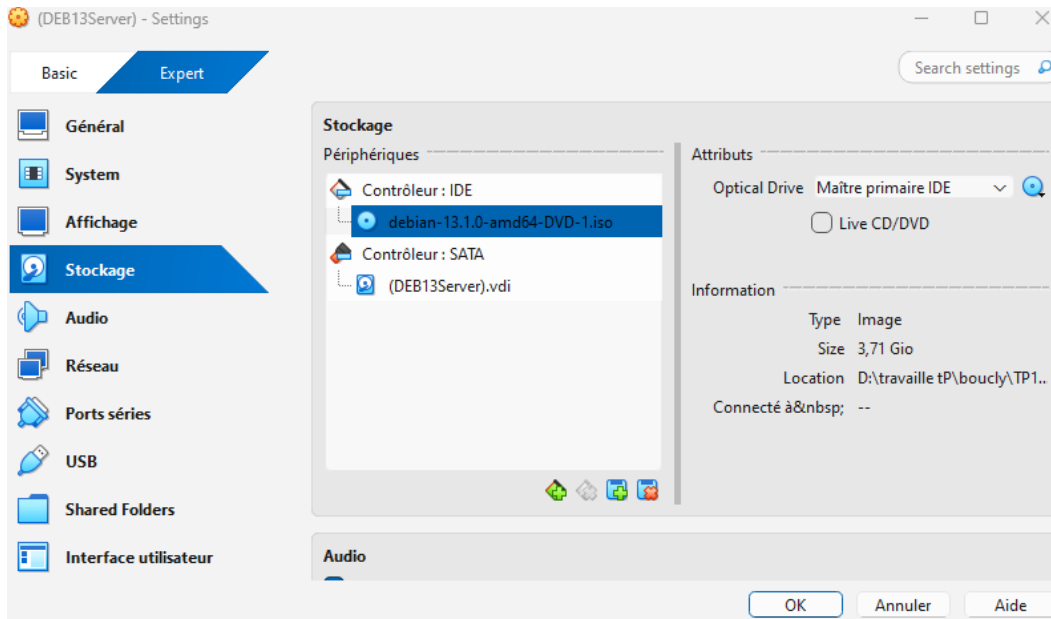
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1.7 INSTALLATION DE L'OS SUR LA MACHINE SERVEUR

Je recupere l'iso et le la met dans le lecteur DVD de la machine virtuel



je le démarre la machine et fait l'installation

1.8 MISE A JOUR DES PAQUET DISPONIBLE DEPUIS LE SERVEURS DE DEPOT

Je me connecte a root

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```
deb13server login: root
Password:
Linux deb13server 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) 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@deb13server:~#
```

et j'installe les paquet source et les enregistre

```
GNU nano 8.4 /etc/apt/sources.list
#deb cdrom:[Debian GNU/Linux 13.1.0 _Trixie_ - Official amd64 DVD Binary-1 with firmware 20250906-10:24]/ trixie con
deb http://deb.debian.org/debian/ trixie main non-free-firmware
deb-src http://deb.debian.org/debian/ trixie main non-free-firmware
deb http://security.debian.org/debian-security trixie-security main non-free-firmware
deb-src http://security.debian.org/debian-security trixie-security main non-free-firmware
# trixie-updates, to get updates before a point release is made;
# see https://www.debian.org/doc/manuals/debian-reference/ch02.en.html#updates_and_backports
deb http://deb.debian.org/debian/ trixie-updates main non-free-firmware
deb-src http://deb.debian.org/debian/ trixie-updates main non-free-firmware
```

```
root@deb13server:~# apt-get update
Atteint : 1 http://deb.debian.org/debian trixie InRelease
Atteint : 2 http://security.debian.org/debian-security trixie-security InRelease
Atteint : 3 http://deb.debian.org/debian trixie-updates InRelease
Lecture des listes de paquets... Fait
root@deb13server:~#
```

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1.9 INTALLATION DES ADDITION INVITER

```
root@deb13server:~# apt-get install
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
0 mis à jour, 0 nouvellement installés, 0 à enlever et 0 non mis à jour.
root@deb13server:~#
```

J'insère l'image CD et installe les 3 paquet

```
root@deb13server:~# mount -t iso9660 /dev/cdrom /mnt
mount: /mnt: ATTENTION: source protégée en écriture, montée en lecture seule.
root@deb13server:~# cd /mnt
root@deb13server:/mnt# ls -l
total 41939
-r--r--r-- 1 root root 1049 11 août 20:04 AUTORUN.INF
-r-xr-xr-x 1 root root 7114 10 sept. 18:44 autorun.sh
dr-xr-xr-x 2 root root 1468 10 sept. 19:10 cert
dr-xr-xr-x 2 root root 1252 10 sept. 19:10 NT3x
dr-xr-xr-x 2 root root 2828 10 sept. 19:10 OS2
-r-xr-xr-x 1 root root 5097 10 sept. 18:44 runasroot.sh
-r--r--r-- 1 root root 718 10 sept. 19:10 TRANS.TBL
-r--r--r-- 1 root root 2203483 10 sept. 18:57 VBoxDarwinAdditions.pkg
-r-xr-xr-x 1 root root 4225 10 sept. 18:57 VBoxDarwinAdditionsUninstall.tool
-r-xr-xr-x 1 root root 2908188 10 sept. 18:48 VBoxLinuxAdditions-arm64.run
-r-xr-xr-x 1 root root 6656007 10 sept. 18:45 VBoxLinuxAdditions.run
-r--r--r-- 1 root root 9558528 10 sept. 18:46 VBoxSolarisAdditions.pkg
-r-xr-xr-x 1 root root 8709416 10 sept. 19:09 VBoxWindowsAdditions-amd64.exe
-r-xr-xr-x 1 root root 5050640 10 sept. 19:08 VBoxWindowsAdditions-arm64.exe
-r-xr-xr-x 1 root root 1073880 10 sept. 18:46 VBoxWindowsAdditions.exe
-r-xr-xr-x 1 root root 6757304 10 sept. 19:08 VBoxWindowsAdditions-x86.exe
-r--r--r-- 1 root root 261 10 mars 2023 windows11-bypass.reg
```

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```
root@deb13server:/mnt# sh VBoxLinuxAdditions.run
Verifying archive integrity... 100% MD5 checksums are OK. All good.
Uncompressing VirtualBox 7.2.2 Guest Additions for Linux 100%
VirtualBox Guest Additions installer

VirtualBox Guest Additions: Starting.
VirtualBox Guest Additions: Setting up modules
VirtualBox Guest Additions: Building the VirtualBox Guest Additions kernel
modules. This may take a while.
VirtualBox Guest Additions: To build modules for other installed kernels, run
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup <version>
VirtualBox Guest Additions: or
VirtualBox Guest Additions: /sbin/rcvboxadd quicksetup all
VirtualBox Guest Additions: Kernel headers not found for target kernel
6.12.48+deb13-amd64. Please install them and execute
/sbin/rcvboxadd setup
VirtualBox Guest Additions: Running kernel modules will not be replaced until
the system is restarted or 'rcvboxadd reload' triggered
VirtualBox Guest Additions: reloading kernel modules and services
VirtualBox Guest Additions: kernel modules were not reloaded
VirtualBox Guest Additions: kernel modules and services were not reloaded
The log file /var/log/vboxadd-setup.log may contain further information.
root@deb13server:/mnt#
```

1.10 MODIFICATION DE LA VARIABLE D'ENVIRONNEMENT PS1

J'affiche les fichiers cachés

et je rentre dans le fichier pour installer PS1

puis je le teste

```
Debian GNU/Linux 13 deb13server tty1
deb13server login: root
Password:
Login incorrect

deb13server login: root
Password:
Linux deb13server 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x86_64

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individual files in /usr/share/doc/*/*copyright.

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permitted by applicable law.
root@deb13server:~# ls -la
total 28
drwxr-xr-x  4 root root 4096 16 oct. 17:11 .
drwxr-xr-x 16 root root 4096 16 oct. 16:54 ..
-rw-r--r--  1 root root  211 16 oct. 17:11 .bash_history
-rw-r--r--  1 root root  607 24 août 18:20 .bashrc
drwxr-xr-x  3 root root  4096 16 oct. 16:59 .local
-rw-r--r--  1 root root  132 24 août 18:20 .profile
drwxr-xr-x  2 root root  4096 16 oct. 16:52 .ssh
root@deb13server:~#
```

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```
# ~/.bashrc: executed by bash(1) for non-login shells.

# Note: PS1 is set in /etc/profile, and the default umask is defined
# in /etc/login.defs. You should not need this unless you want different
# defaults for root.
# PS1='${debian_chroot:+($debian_chroot)}\h:\w\$ '
# umask 022

# You may uncomment the following lines if you want `ls' to be colorized:
# export LS_OPTIONS='--color=auto'
# eval "$(dircolors)"
# alias ls='ls $LS_OPTIONS'
# alias ll='ls $LS_OPTIONS -l'
# alias l='ls $LS_OPTIONS -lA'
#
# Some more alias to avoid making mistakes:
# alias rm='rm -i'
# alias cp='cp -i'
# alias mv='mv -i'
```

TP1

```
# ~/.bashrc: executed by bash(1) for non-login shells.

# Note: PS1 is set in /etc/profile, and the default umask is defined
# in /etc/login.defs. You should not need this unless you want different
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# PS1='${debian_chroot:+($debian_chroot)}\h:\w\$ '
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# export LS_OPTIONS='--color=auto'
# eval "$(dircolors)"
# alias ls='ls $LS_OPTIONS'
# alias ll='ls $LS_OPTIONS -l'
# alias l='ls $LS_OPTIONS -lA'
#
# Some more alias to avoid making mistakes:
# alias rm='rm -i'
# alias cp='cp -i'
# alias mv='mv -i'
ps1='\[\033[01;32m\]\u@\h\[\033[00m\]:\[\033[01;34m\] \w\$ \[\033[00m\]'
```

```
Debian GNU/Linux 13 deb13server tty1
deb13server login: root
Password:
Linux deb13server 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x86_64

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]root@deb13server: ~#
```

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```
Debian GNU/Linux 13 deb13server tty1
deb13server login: root
Password:
Linux deb13server 6.12.48+deb13-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.12.48-1 (2025-09-20) x86_64

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individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
]root@deb13server: ~#echo ${PS1}
\[\033[01;32m\]u@\h\[\033[00m\]:\[\033[01;34m\] \w\$ \[\033[00m\]
]root@deb13server: ~#
```