

Faculte des sciences et des technologies

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TN\*x: Systeme

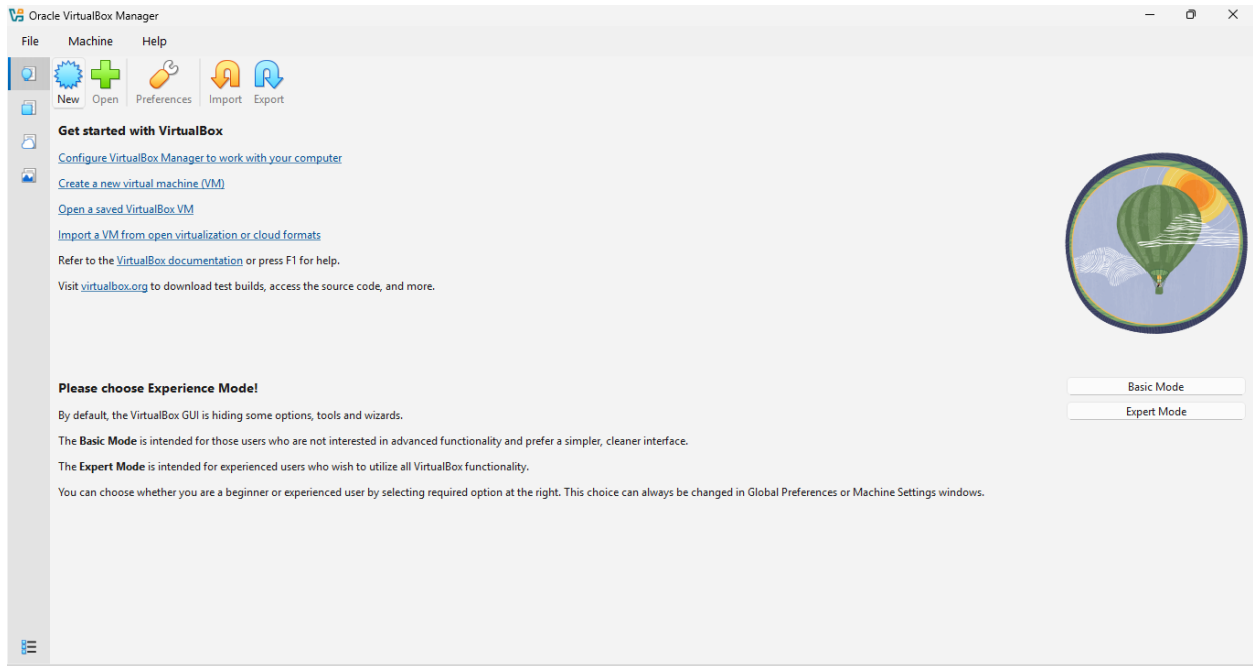
Date : 11/ 6 /2025

Objecti du TD : Comprendre le principe de la virtualisation

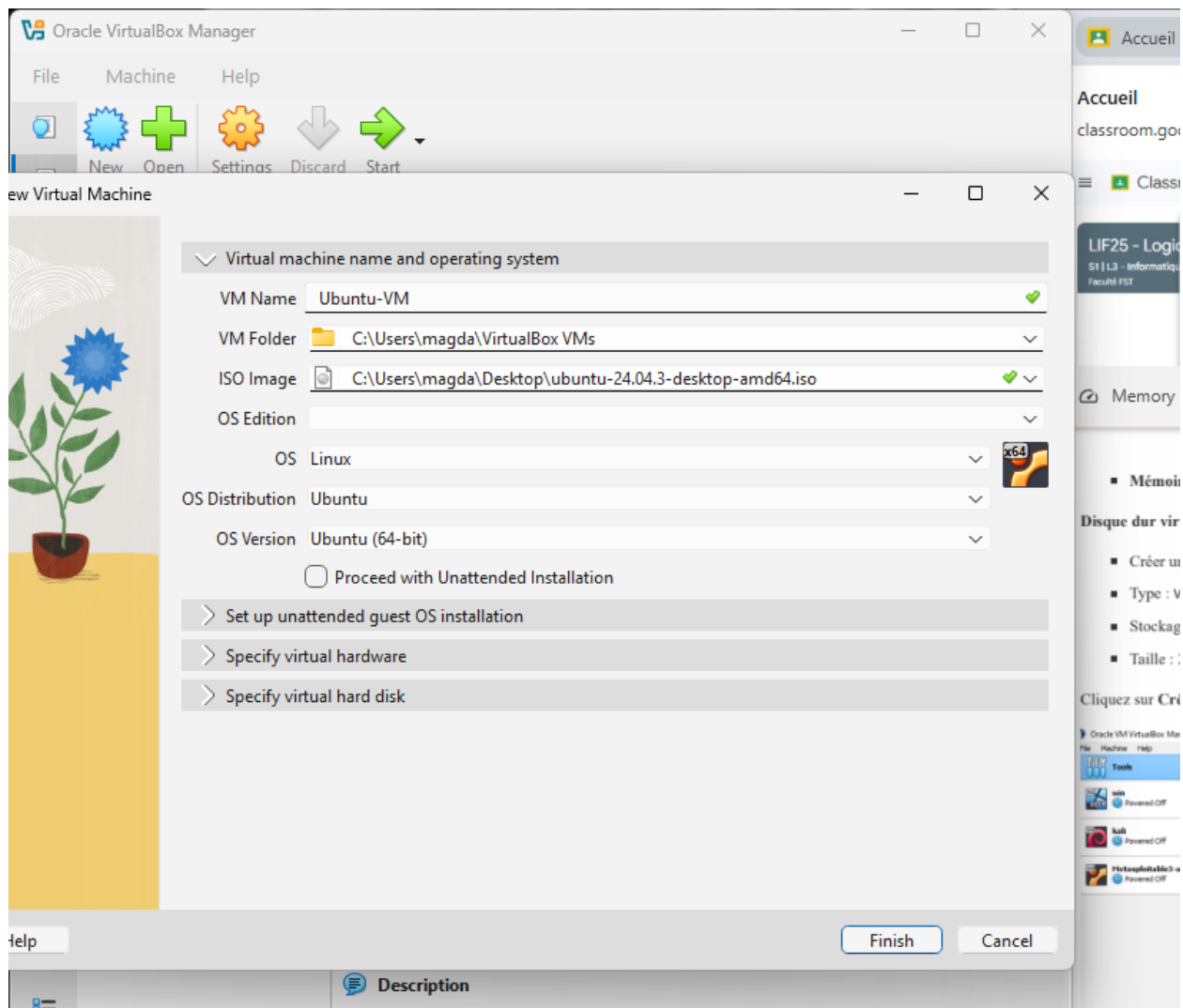
Installer une machine virtuelle ( V,M) Ubuntu sous virtualBox.

Configure les ressources materielles et le reseau de la VM.

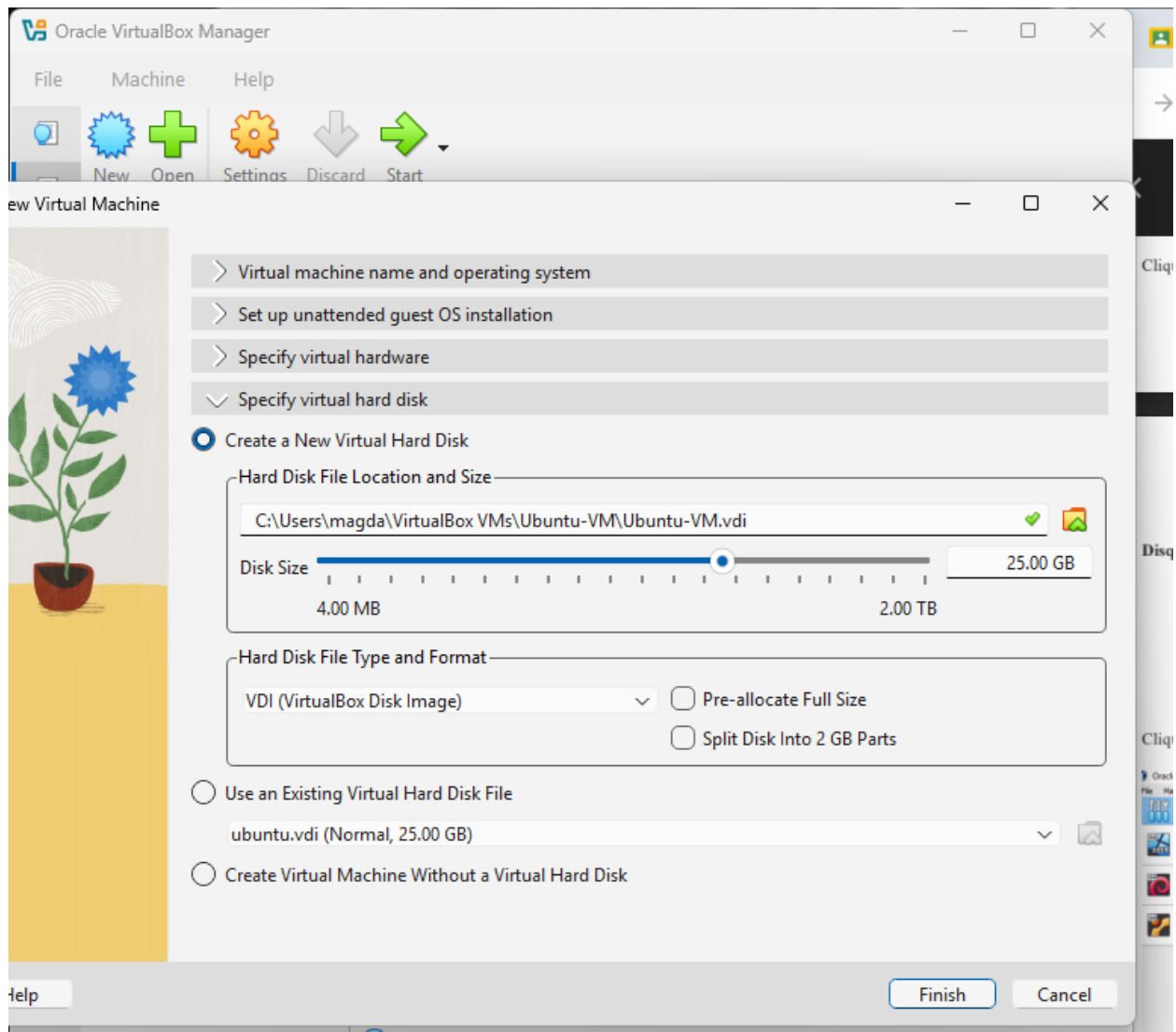
Demarrer ,utiliser et gerer le VM.



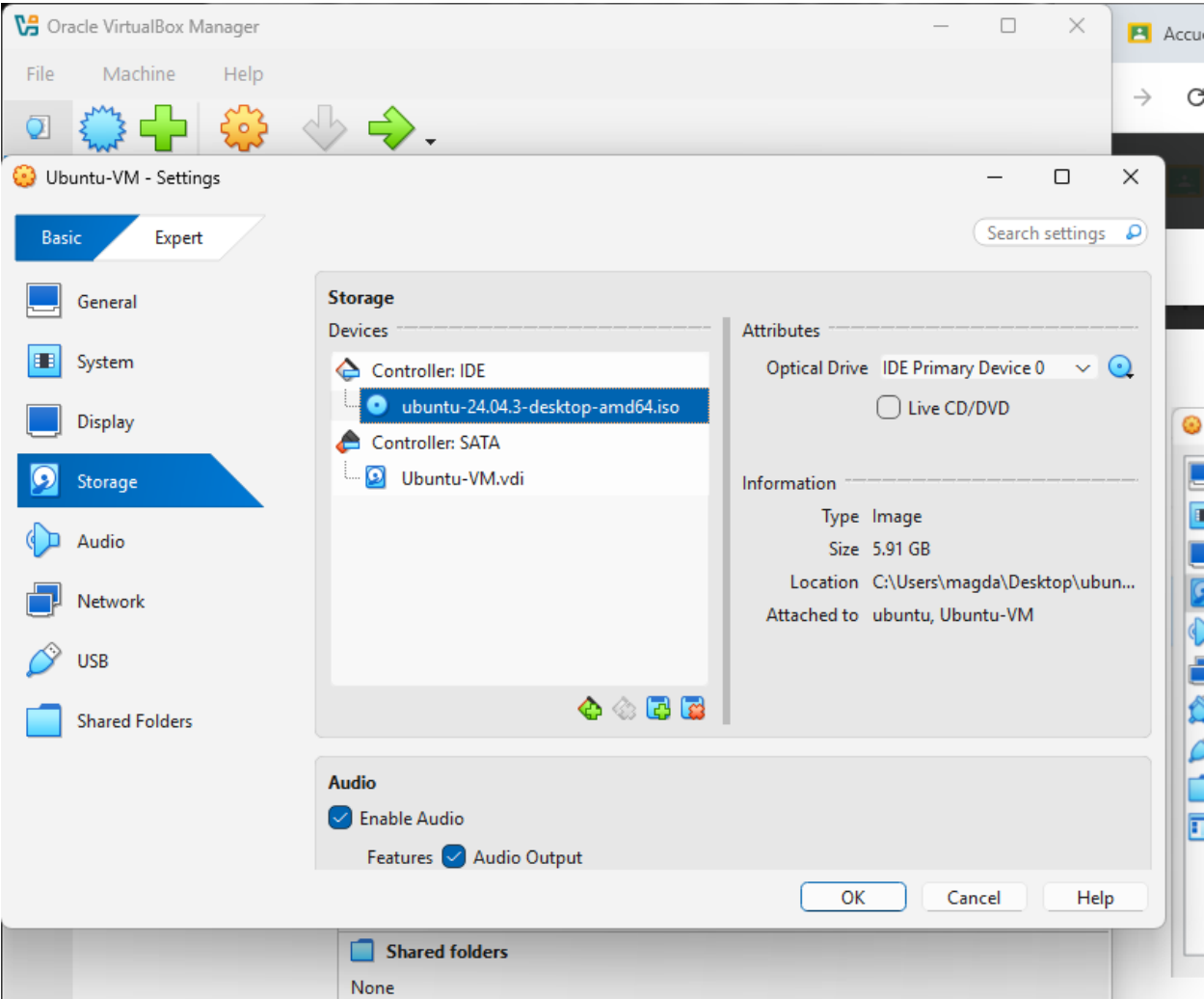
Installation de virtualBox

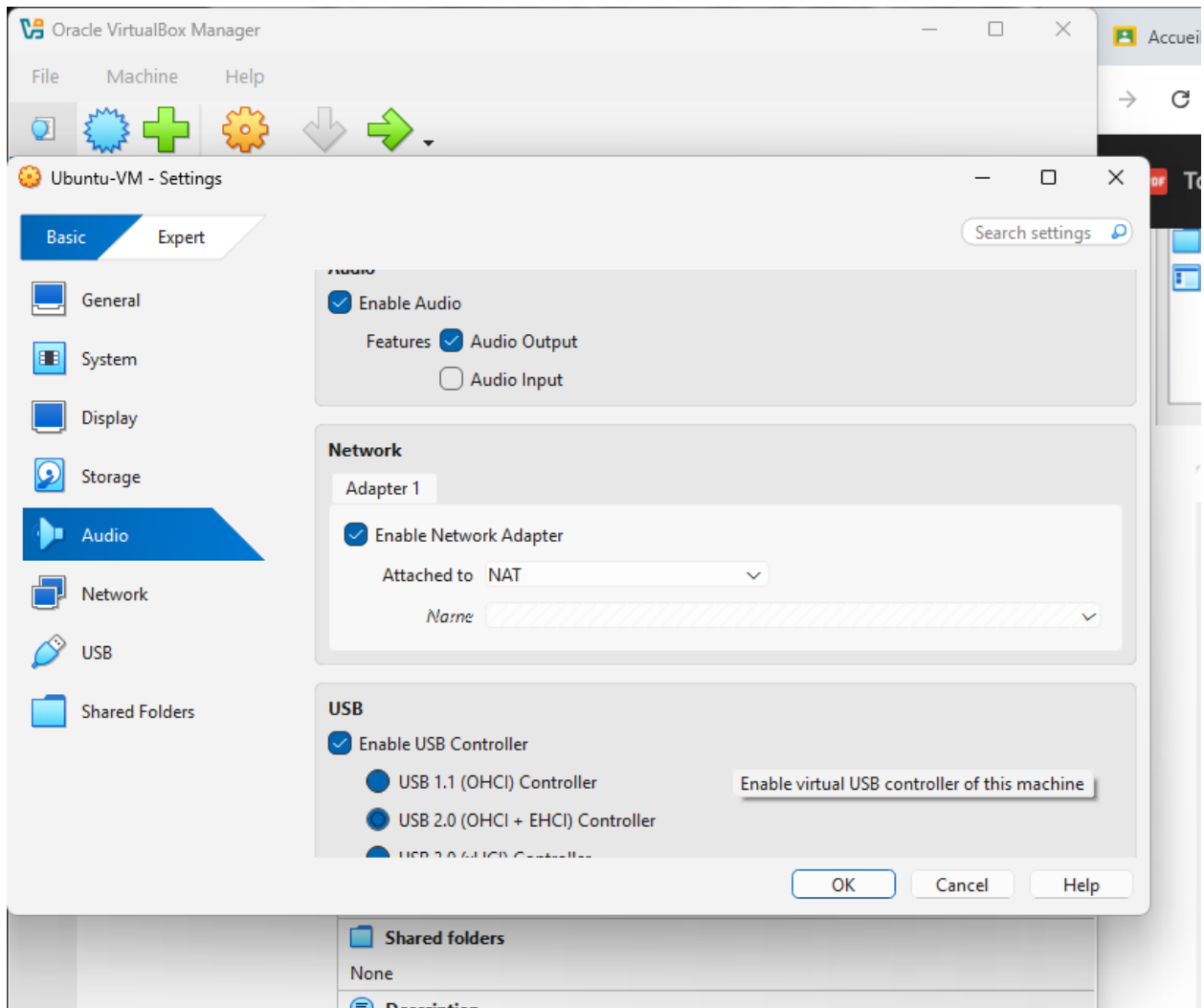


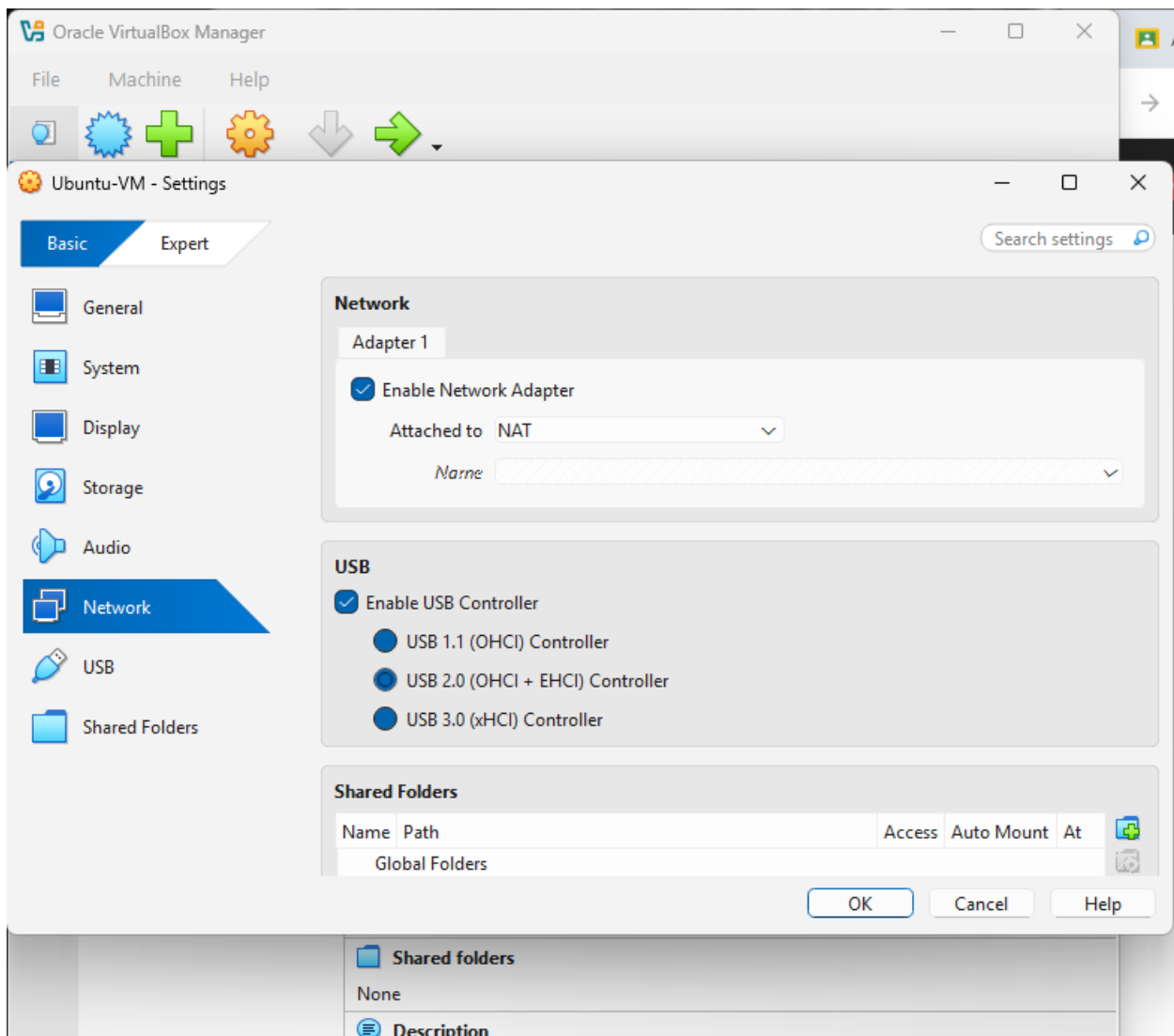
Creation d'une nouvelle machine virtuelle

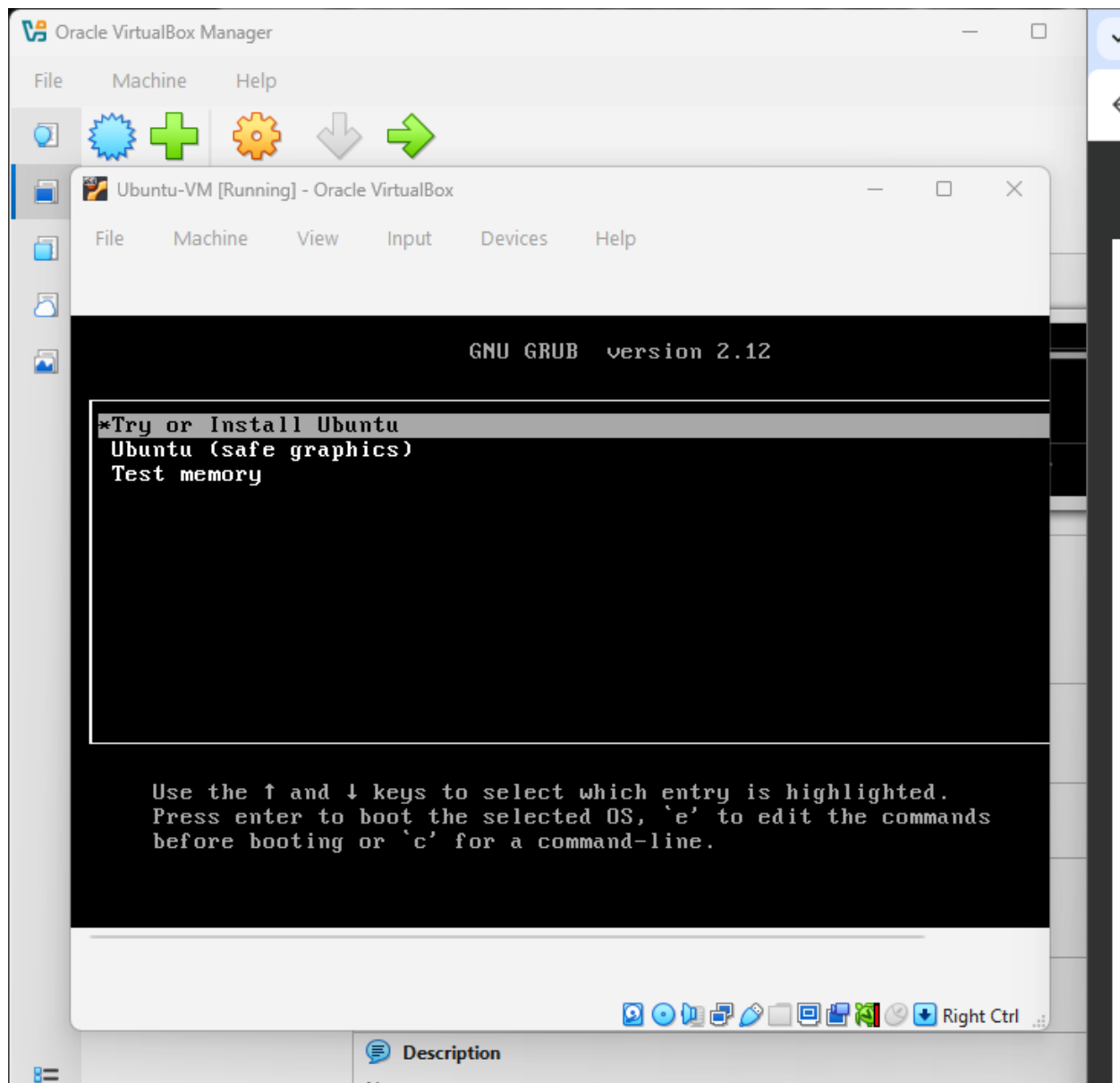


Configuration de la VM



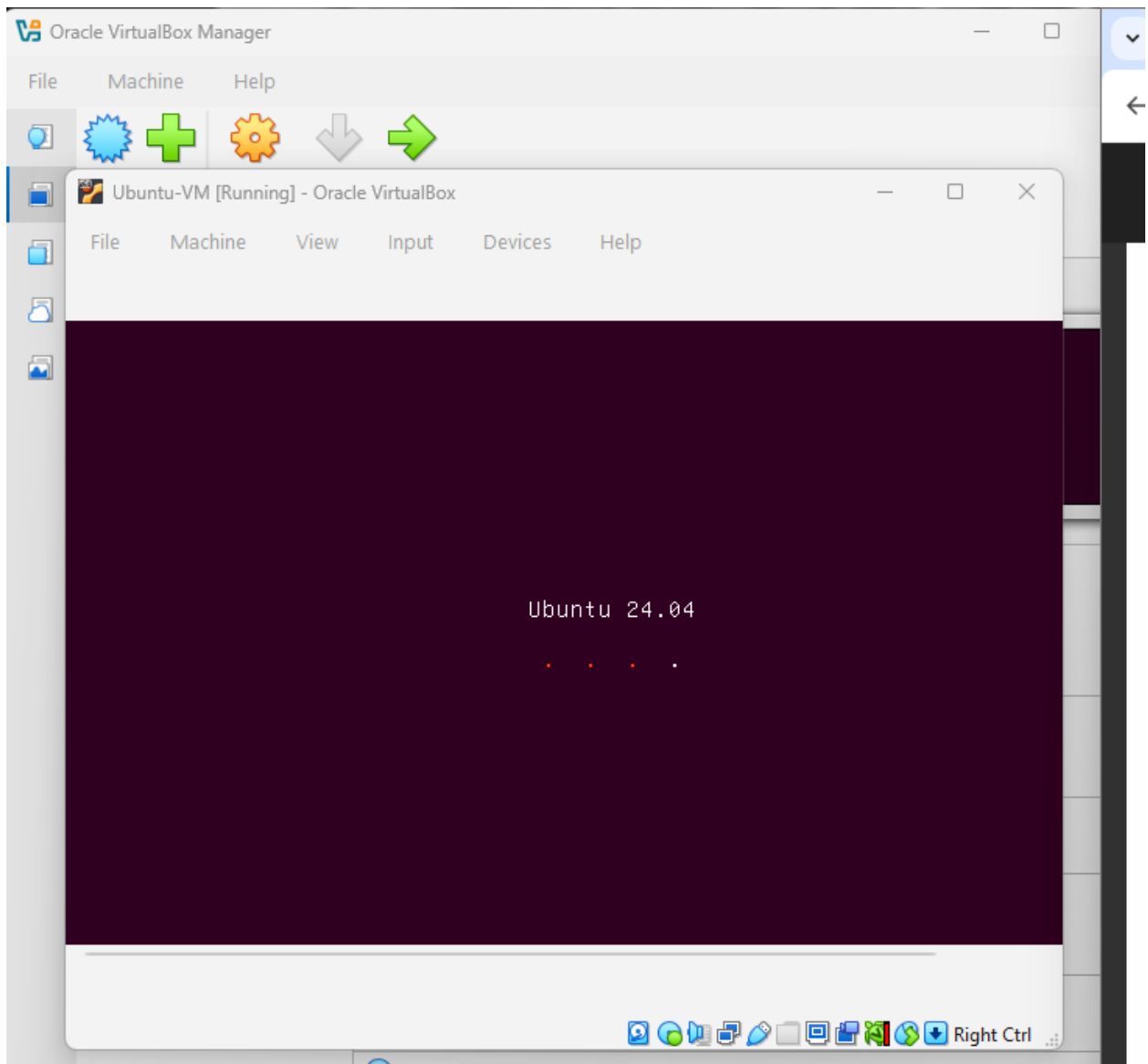


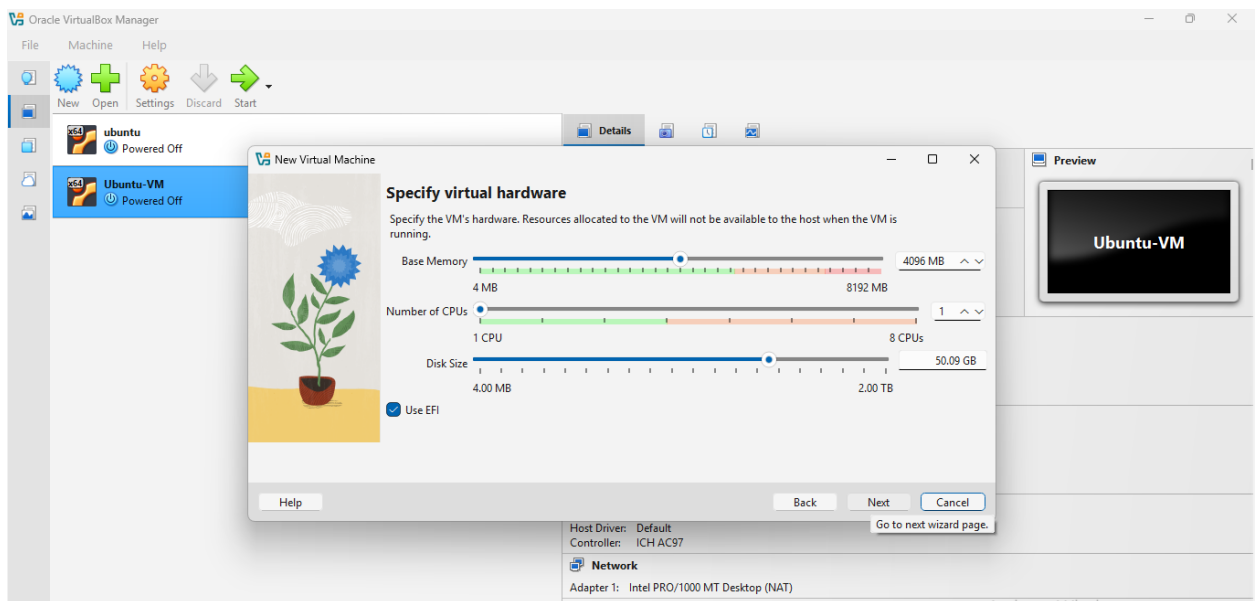
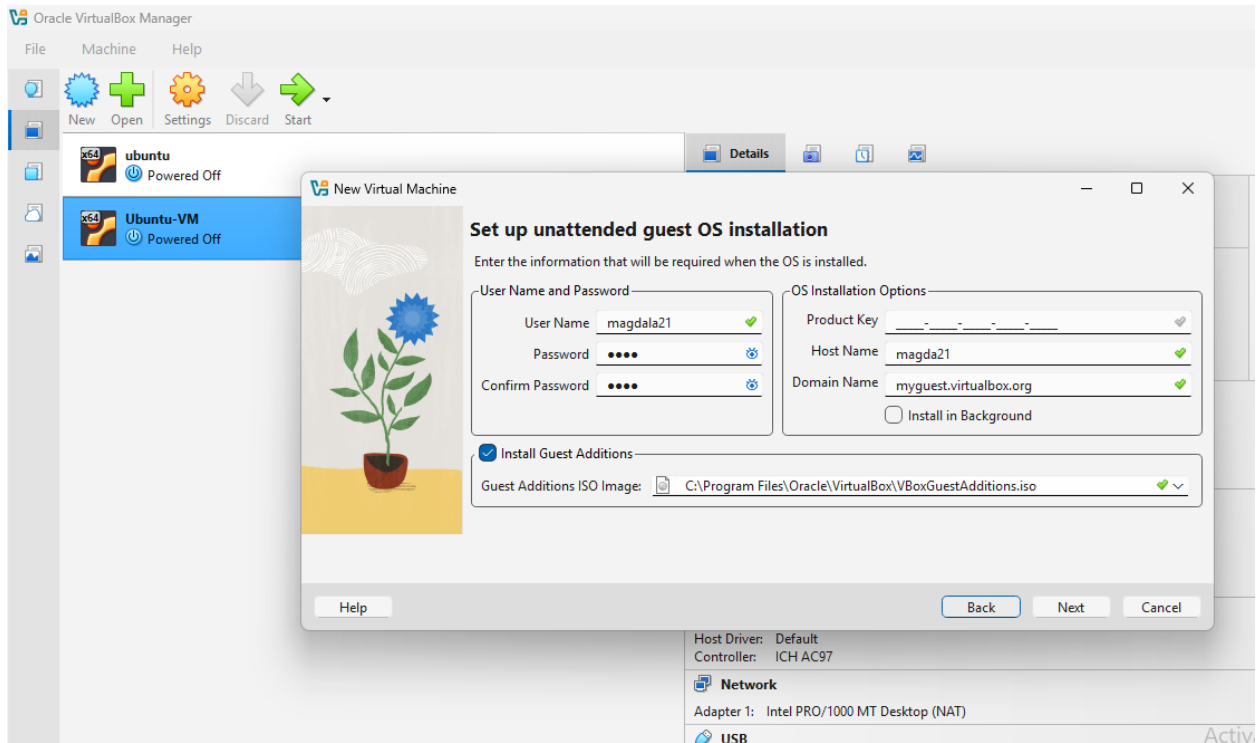




Installation d'Ubuntu







## Configuration post-installation

```
ubuntu@ubuntu: ~  
ubuntu@ubuntu:~$ sudo apt update  
Ign:1 cdrom://Ubuntu 24.04.3 LTS _Noble Numbat_ - Release amd64 (20250805.1) noble InRelease  
Hit:2 cdrom://Ubuntu 24.04.3 LTS _Noble Numbat_ - Release amd64 (20250805.1) noble Release  
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease  
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:5 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
0% [Working] 60.9 kB/  
Get:8 http://security.ubuntu.com/ubuntu noble-security/main i386 Packages [351 kB]  
Get:9 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1305 kB]  
Get:10 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [215 kB]  
Get:11 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]  
Get:12 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [9336 B]  
Get:13 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [906 kB]  
Get:14 http://security.ubuntu.com/ubuntu noble-security/universe i386 Packages [563 kB]  
Get:15 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [203 kB]  
Get:16 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]  
Get:17 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [19.4 kB]  
Get:18 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [2135 kB]  
Get:19 http://security.ubuntu.com/ubuntu noble-security/restricted i386 Packages [21.9 kB]  
Get:20 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [485 kB]  
Get:21 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]  
Get:22 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [500 B]  
Get:23 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [27.4 kB]  
Get:24 http://security.ubuntu.com/ubuntu noble-security/multiverse i386 Packages [6072 B]  
Get:25 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [5708 B]
```

```
Ubuntu-VM [Running] - Oracle VirtualBox  
Nov 6 20:25  
ubuntu@ubuntu: ~  
Building dependency tree... Done  
Reading state information... Done  
168 packages can be upgraded. Run 'apt list --upgradable' to see them.  
ubuntu@ubuntu:~$ sudo apt upgrade -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Calculating upgrade... Done  
The following package was automatically installed and is no longer required:  
libllvm19  
Use 'sudo apt autoremove' to remove it.  
The following NEW packages will be installed:  
libllvm20 linux-headers-6.14.0-35-generic linux-hwe-6.14-headers-6.14.0-35  
linux-hwe-6.14-tools-6.14.0-35 linux-image-6.14.0-35-generic  
linux-modules-6.14.0-35-generic linux-modules-extra-6.14.0-35-generic  
linux-tools-6.14.0-35-generic  
The following packages will be upgraded:  
bind9-dnsutils bind9-host bind9-libs bluez bluez-cups bluez-obexd cloud-init  
coreutils cups cups-bdd cups-client cups-common cups-core-drivers  
cups-daemon cups-ipp-utils cups-ppdc cups-server-common dconf-cli  
dconf-gsettings-backend dconf-service distro-info-data dpkg  
firmware-sof-signed fwupd gdm3 ghostscript gir1.2-gdm-1.0  
gir1.2-gst-plugins-base-1.0 gir1.2-gtk-4.0 gir1.2-javascriptcoregtk-4.1  
gir1.2-javascriptcoregtk-6.0 gir1.2-nm-1.0 gir1.2-udisks-2.0  
gir1.2-webkit-6.0 gir1.2-webkit2-4.1 gnome-shell-extension-desktop-icons-ng  
gstreamer1.0-alsa gstreamer1.0-gl gstreamer1.0-gtk3  
gstreamer1.0-plugins-base gstreamer1.0-plugins-base-apps  
gstreamer1.0-plugins-good gstreamer1.0-x libbluetooth3 libc-bin libc-dev-bin  
libc-devtools libc6 libc6-dbg libc6-dev libcups2t64 libcupsimage2t64  
libdconf1 libegl-mesa0 libfwupd2 libgbm1 libgdm1 libgl1-mesa-dri  
libglx-mesa0 libgs-common libgs10 libgs10-common libgstreamer-gl1.0-0  
libgstreamer-plugins-base1.0-0 libgstreamer-plugins-good1.0-0 libgtk-4-1  
libgtk-4-bin libgtk-4-common libgtk-4-media-gstreamer libgtk-4-0-11
```

Pour conclure, bien que j'ai pas tout saisi mais , avec cette belle experience que je viens de faire a propos de virtualBox et Ubuntu. Vu avec les difficultés que j'ai rencontrée avec Ubuntu , lors de la configuration post-installation qui m'a signaler que j'ai pas assez d'espace des que je venais de mettre a jour avec la partie SUDO APT Upgrage – y, je pensais que j'allais pas teminer mon travail quand même , j' ai trouver une moyen de se débarrasser de ce problème, afin de mettre fin avec ce travail et là j'ai fini par comprendre petit a petit tout ce que j'ai réaliser avec mon courage. Je souhaite après chaque travail que je découvre une autre vie entant informaticienne car les travaux dirigés m'aide beaucoup a comprendre ce cours après chaque étape . je suis satisfaite, avec compréhension , je pense que j'allais encore beaucoup plus loin.