



**IUS**  
INSTITUT  
UNIVERSITAIRE  
DES SCIENCES

## **FACULTÉ DES SCIENCES ET DES TECHNOLOGIES (FST)**

### **TD N°2 – ADMINISTRATION DES SYSTÈMES INFORMATIQUES I**

Préparé par Pierre Durell Naguiby BYRON

Niveau : L4

**Professeur : Mr I. Saint-Amour**

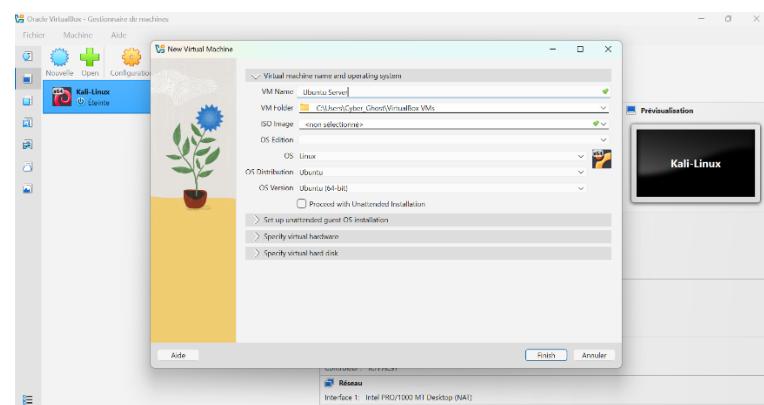
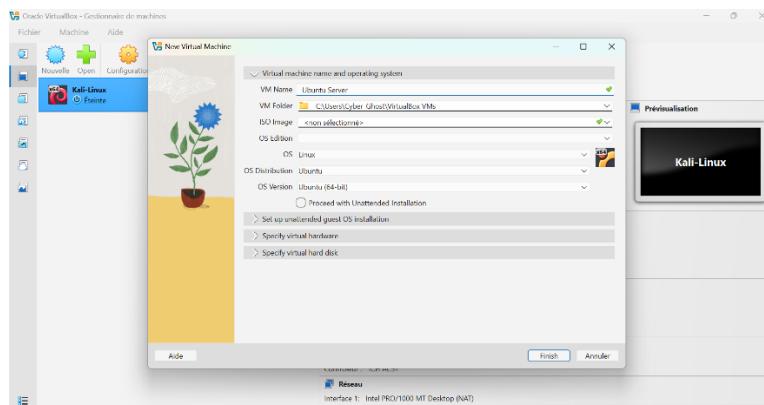
**Le 11/11/2025**

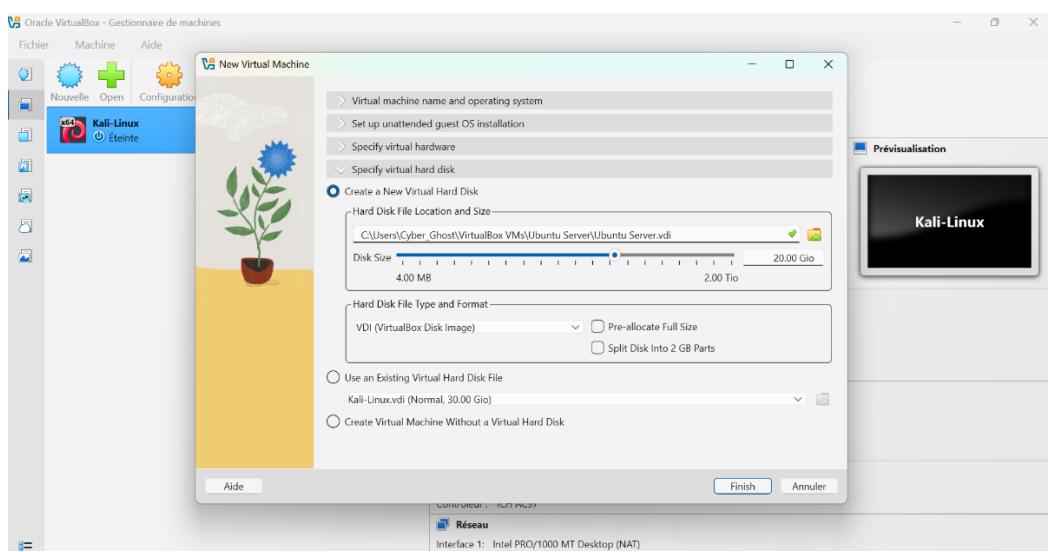
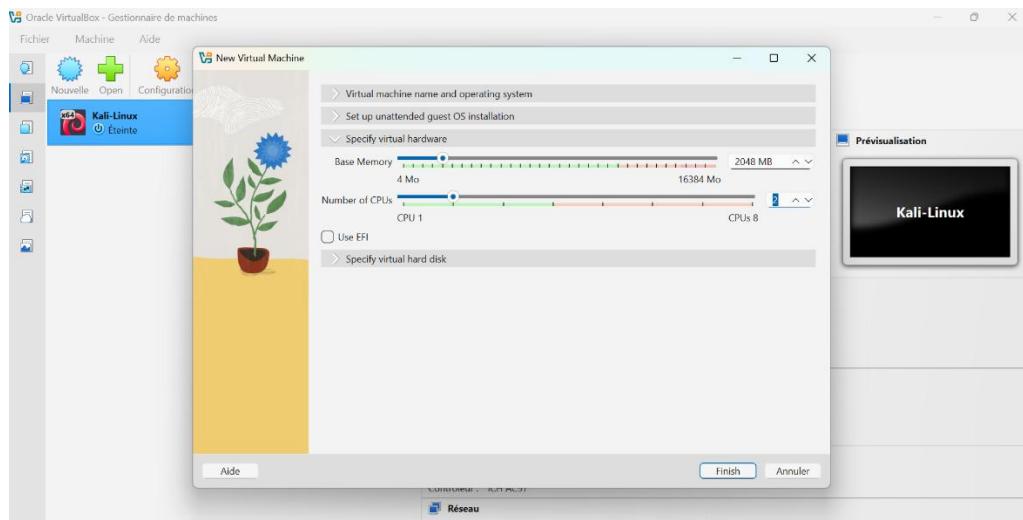
L'objectif de ce TD est de :

1. Installer Ubuntu Server dans une machine virtuelle VirtualBox.
2. Comprendre la configuration du matériel virtuel.
3. Réaliser les premières commandes d'administration.
4. Configurer le réseau et tester la connectivité.

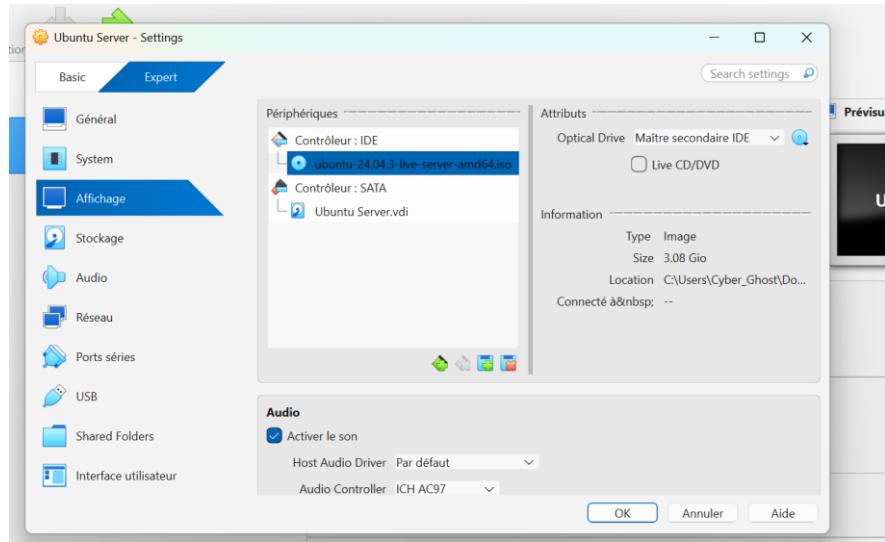
## **Étapes du TD :**

### **1.Création de la Machine Virtuelle**

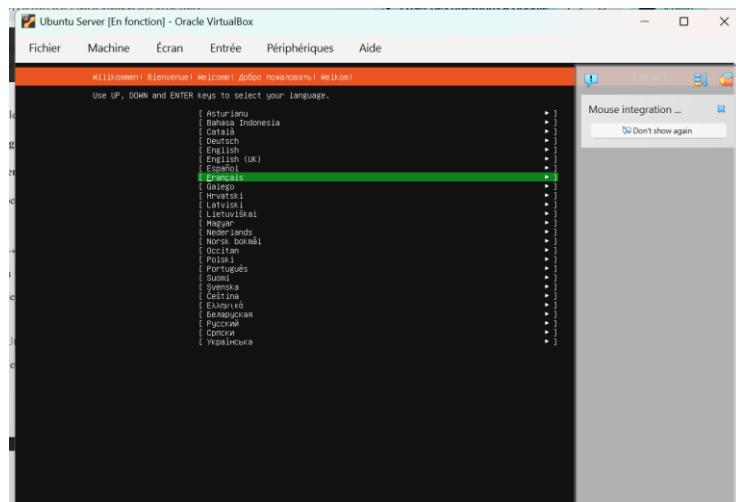


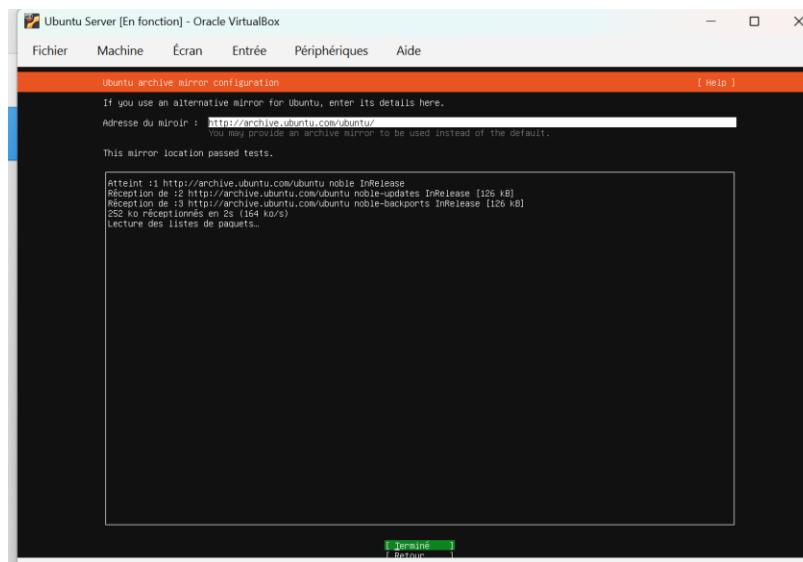
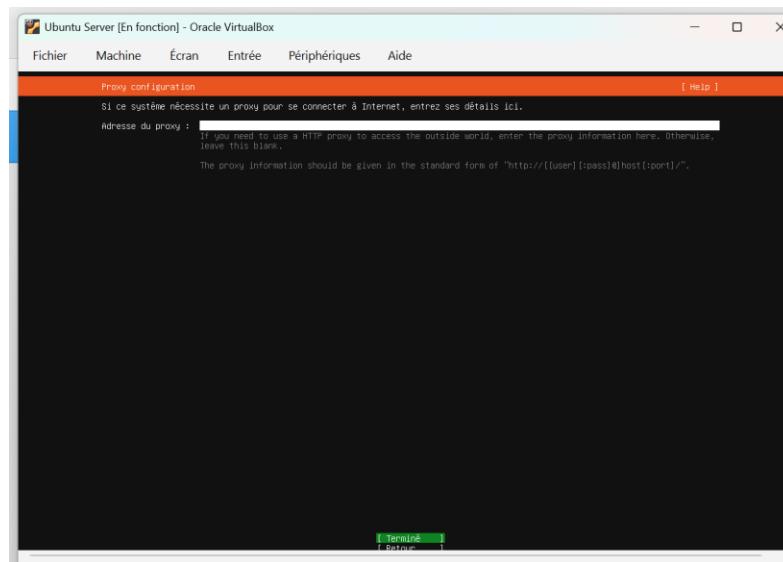
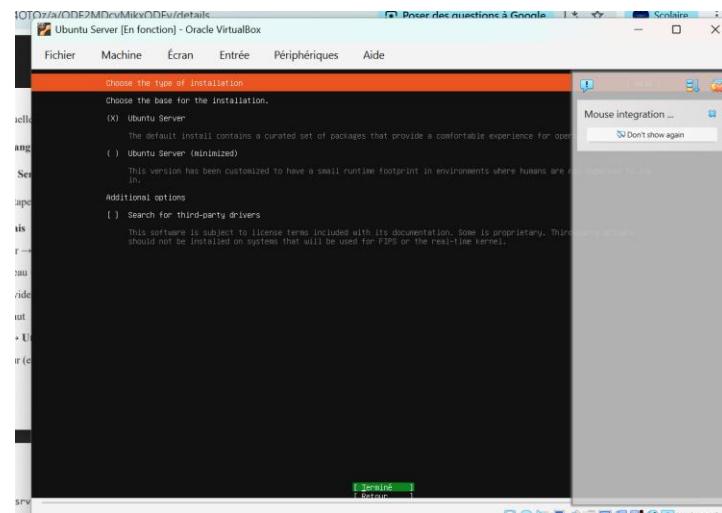


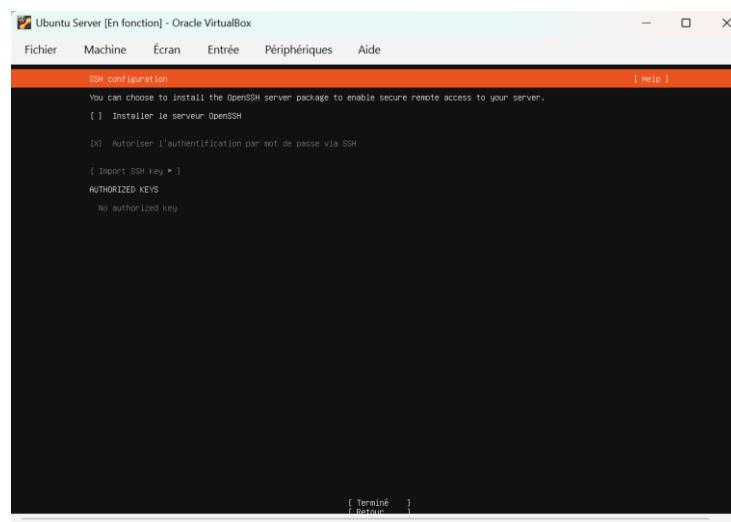
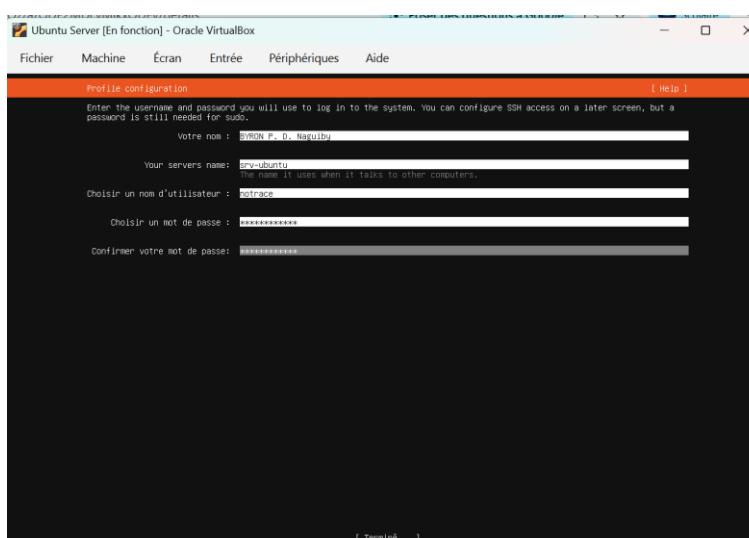
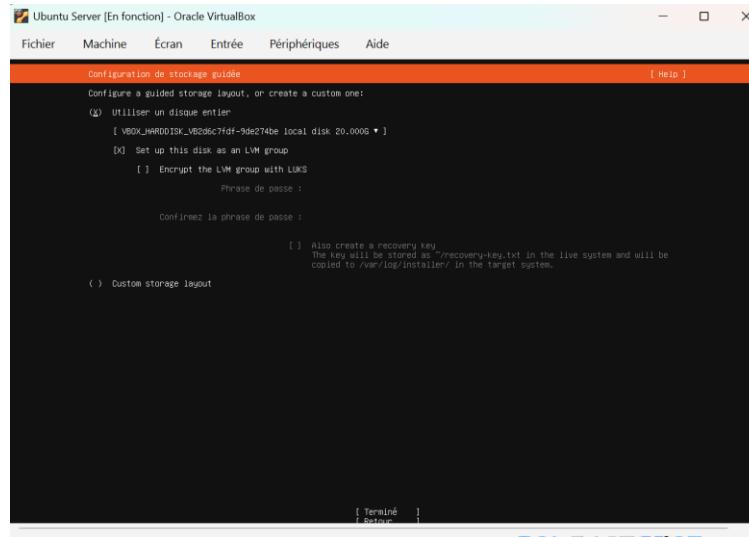
## 2. Montage de l'image ISO

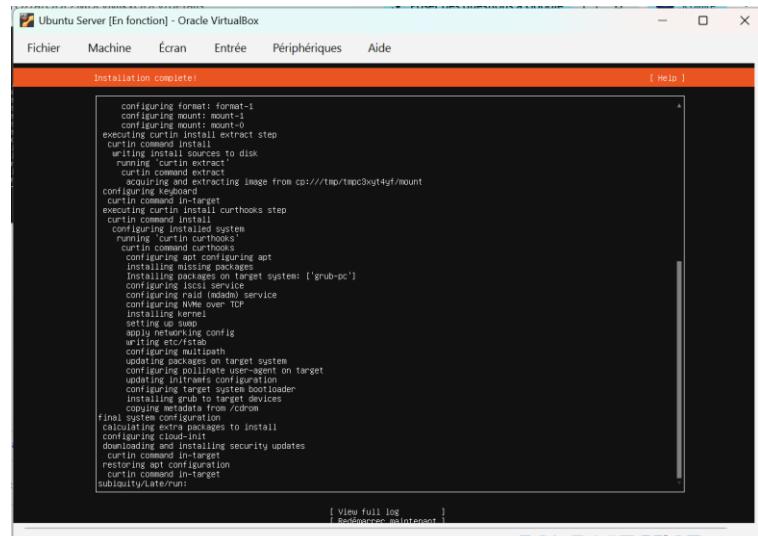
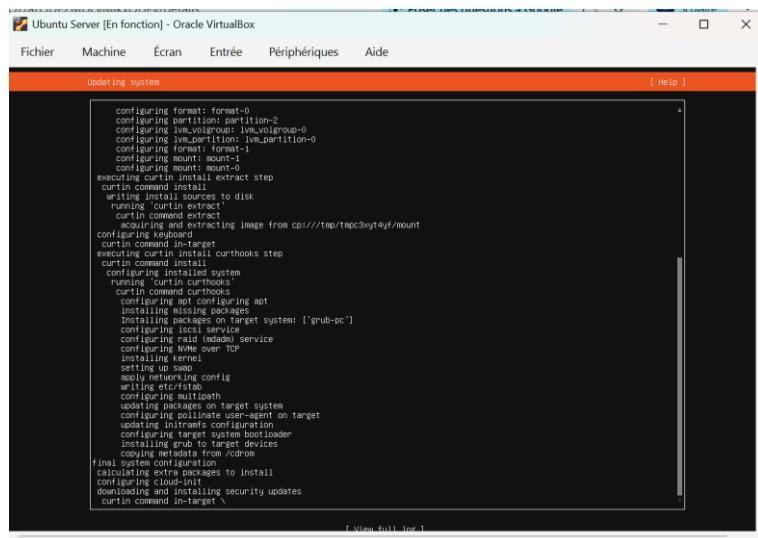
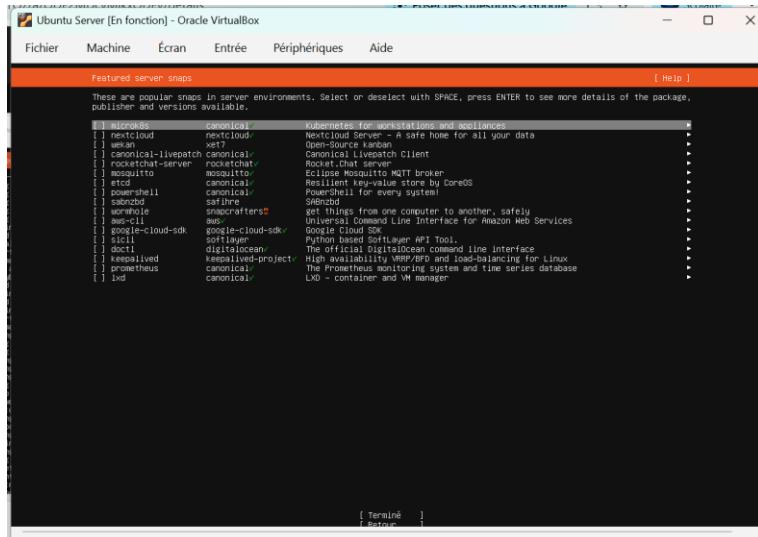


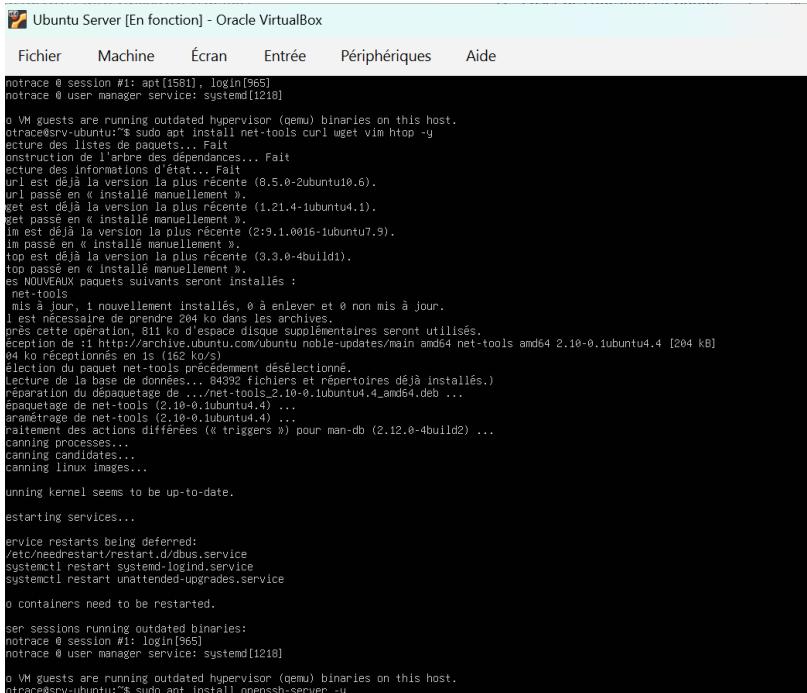
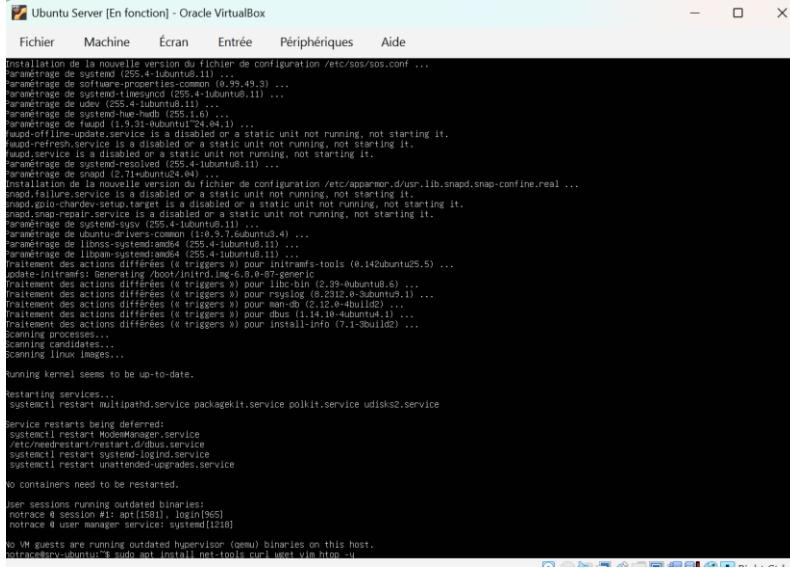
## 3. Installation d'Ubuntu Server, première connexion et vérification











```

notrace@srv-ubuntu:~$ ls a
l: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 brd 0.0.0.0 scope host lo
        valid_lft forever preferred_lft forever
        inet 10.0.2.15/16 brd 0.0.0.0 scope global dynamic enp0s3
            valid_lft 65355sec preferred_lft 65355sec
            inet6 fe80::1%enp0s3/64 brd fe80::ff:fe00%enp0s3 scope link
                valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:04:02:d5 brd ff:ffff:ffff:ffff:ffff:ffff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 65355sec preferred_lft 65355sec
        inet6 fe00::1%enp0s3/64 brd fe00::ff:fe00%enp0s3 scope link
            valid_lft forever preferred_lft forever
notrace@srv-ubuntu:~$ ssh-keygen -R 10.0.2.15
The authenticity of host '10.0.2.15 (10.0.2.15)' can't be established.
ED25519 key fingerprint is SHA256:UjvjlkP8CkZMcBrRXLc5J++063Uxs4sYR5r2YDSR+dA.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.2.15' (ED25519) to the list of known hosts.
notrace@10.0.2.15's password:
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-87-generic x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of mar. 11 nov. 2025 16:04:00 UTC

System load:          0.0
Usage of /:           45.3% of 9.75GB
Memory usage:         10%
Swap usage:           0%
Processes:            122
Users logged in:     1
IPv4 address for enp0s3: 10.0.2.15
IPv6 address for enp0s3: fd17:625c:f037:2:a00:27ff:fe04:2d5

La maintenance de sécurité étendue pour Applications n'est pas activée.

0 mise à jour peut être appliquée immédiatement.

Activez ESM Apps pour recevoir des futures mises à jour de sécurité supplémentaires.
Visitez https://ubuntu.com/esm ou exécutez : sudo pro status

notrace@srv-ubuntu:~$ 

```

## 4. Connexion SSH depuis la machine hôte

```

notrace@srv-ubuntu:~$ ls a
l: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 brd 0.0.0.0 scope host lo
        valid_lft forever preferred_lft forever
        inet 10.0.2.15/16 brd 0.0.0.0 scope global dynamic enp0s3
            valid_lft 65355sec preferred_lft 65355sec
            inet6 fe80::1%enp0s3/64 brd fe80::ff:fe00%enp0s3 scope link
                valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:04:02:d5 brd ff:ffff:ffff:ffff:ffff:ffff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic enp0s3
        valid_lft 65355sec preferred_lft 65355sec
        inet6 fe00::1%enp0s3/64 brd fe00::ff:fe00%enp0s3 scope link
            valid_lft forever preferred_lft forever
notrace@srv-ubuntu:~$ ssh-keygen -R 10.0.2.15
The authenticity of host '10.0.2.15 (10.0.2.15)' can't be established.
ED25519 key fingerprint is SHA256:UjvjlkP8CkZMcBrRXLc5J++063Uxs4sYR5r2YDSR+dA.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.2.15' (ED25519) to the list of known hosts.
notrace@10.0.2.15's password:
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-87-generic x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of mar. 11 nov. 2025 16:18:30 UTC

System load: 0.10          Memory usage: 9%   Processes: 102
Usage of /: 45.5% of 9.75GB Swap usage: 0%   Users logged in: 0

La maintenance de sécurité étendue pour Applications n'est pas activée.

0 mise à jour peut être appliquée immédiatement.

Activez ESM Apps pour recevoir des futures mises à jour de sécurité supplémentaires.
Visitez https://ubuntu.com/esm ou exécutez : sudo pro status

notrace@srv-ubuntu:~$ 

```

```

notrace@192.168.56.101 ~
Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\WINDOWS\system32> ssh notrace@192.168.56.101
The authenticity of host '192.168.56.101 (192.168.56.101)' can't be established.
ED25519 key fingerprint is SHA256:UjvjlkP8CkZMcBrRXLc5J++063Uxs4sYR5r2YDSR+dA.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.56.101' (ED25519) to the list of known hosts.
notrace@192.168.56.101's password:
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.8.0-87-generic x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of mar. 11 nov. 2025 16:16:18 UTC

System load: 0.14          Memory usage: 10%   Processes: 124
Usage of /: 45.6% of 9.75GB Swap usage: 0%   Users logged in: 1

La maintenance de sécurité étendue pour Applications n'est pas activée.

0 mise à jour peut être appliquée immédiatement.

Activez ESM Apps pour recevoir des futures mises à jour de sécurité supplémentaires.
Visitez https://ubuntu.com/esm ou exécutez : sudo pro status

Last login: Tue Nov 11 16:04:00 2025 from 10.0.2.15
notrace@192.168.56.101:~$ 

```

En conclusion, ce TD m'a permis d'installer Ubuntu Server dans une machine virtuelle VirtualBox, de comprendre la configuration du matériel virtuel, de réaliser les premières commandes d'administration et de configurer le réseau et tester la connectivité.

Auparavant, je n'ai rencontré aucun problème avec le processus mais en arrivant à la connexion SSH depuis la machine hôte ça n'a pas marché. Du coup, j'ai pu aller au virtualBox dans la configuration de la machine virtuelle j'ai pu accéder au réseau, j'ai enlevé le NAT à la place j'ai pris réseau privé. Et après j'ai pu accéder au serveur.