

# LINUX DHCP-DNS



Semifir

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59000 Lille.

# Objectifs de ce module

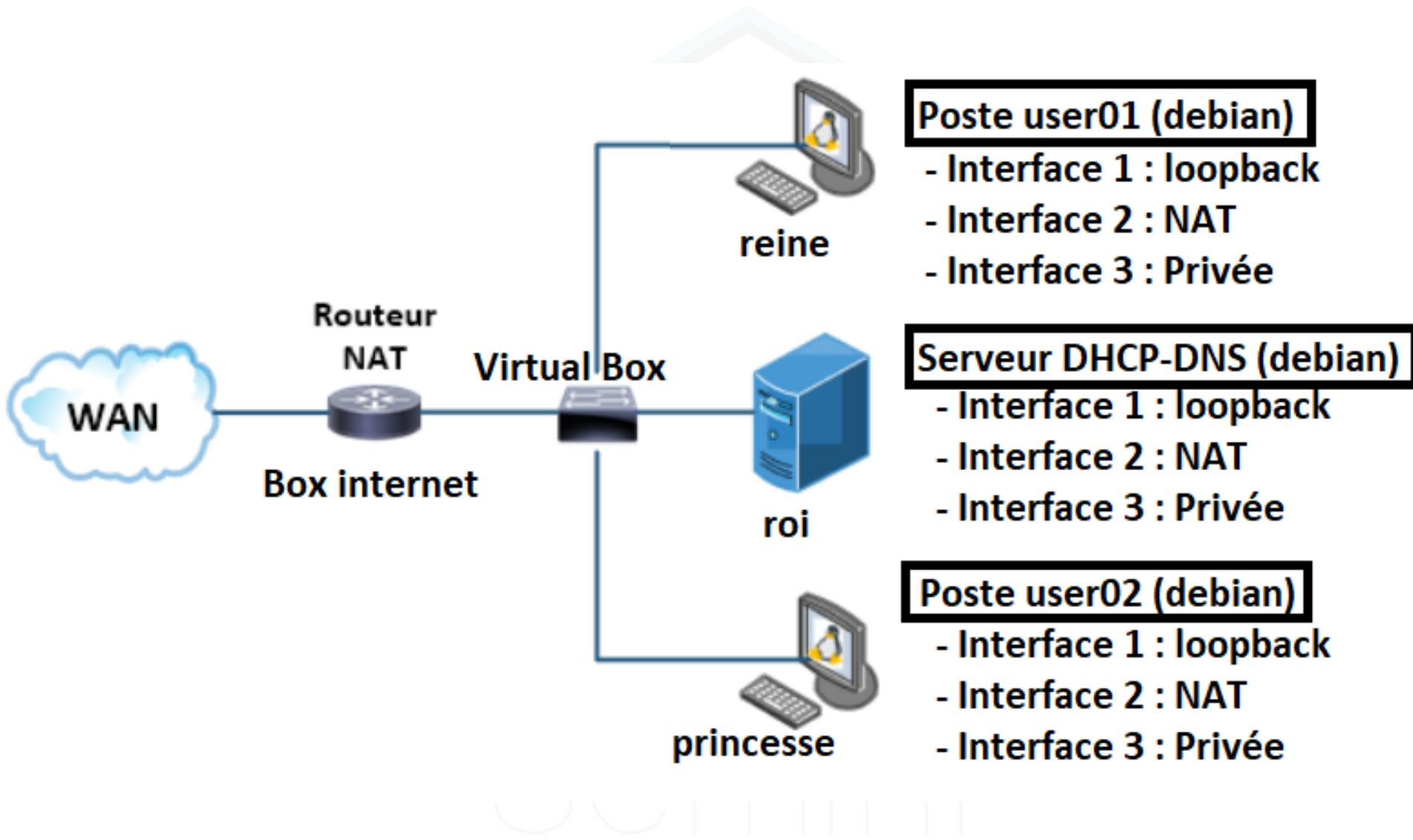
- ✓ Définir les prérequis pour l'implémentation de DHCP et DNS
  - ✓ Topologie réseau
  - ✓ Plan d'adressage
  - ✓ Identifiants
- ✓ Savoir préparer les enveloppes des machines virtuelles (serveur et postes client)
- ✓ Savoir installer et préparer un système d'exploitation (serveur et postes client)
- ✓ Savoir faire un snapshot

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# Prérequis



# Prérequis : Définir la topologie de notre réseau



# Prérequis : Définir un plan d'adressage

| Réseau : 192.168.4.0/24        |                 | Réservations   |         |   |               |
|--------------------------------|-----------------|----------------|---------|---|---------------|
|                                |                 | Poste Serveurs | OUI NON | ADRESSE MAC                             | ADRESSE IP    |
| Adresse début                  | 192.168.4.100   | user01         | OUI     | A compléter au moment de l'installation | 192.168.4.150 |
| Adresse de fin                 | 192.168.4.200   | user02         | NON     | A compléter au moment de l'installation | IP DHCP       |
| Masque                         | 255.255.255.0   |                |         |   |               |
| Durée du bail                  | 3600 secondes   |                |         |   |               |
| <b>Options DHCP d'étendue</b>  |                 |                |         |   |               |
| Nom                            | Valeur          |                |         |   |               |
| Serveur DHCP                   | 192.168.4.10    |                |         |   |               |
| Passerelle (PC)                | 192.168.4.1     |                |         | A compléter au moment de l'installation |               |
| Routeur NAT                    | Box internet    |                |         |   |               |
| <b>Options DHCP de serveur</b> |                 |                |         |   |               |
| Nom                            | Valeur          |                |         |   |               |
| Serveur DNS                    | 192.168.4.10    |                |         | Idem                                    |               |
| Domaine                        | formation.local |                |         |   |               |

# Prérequis : Définir les identifiants et mots de passe

## Serveur DHCP-DNS :

- Hostname : **srv-dhcp-dns**
- Compte root (login / password) : **root / root**
- Compte utilisateur (login / password) : **roi / matthieu** (votre prénom)

## Poste client user01 :

- Hostname : **poste-user01**
- Compte root (login / password) : **root / root**
- Compte utilisateur (login / password) : **reine / matthieu** (votre prénom)

## Poste client user02 :

- Hostname : **poste-user02**
- Compte root (login / password) : **root / root**
- Compte utilisateur (login / password) : **princesse / matthieu** (votre prénom)

# Prérequis : Si problèmes avec Hyper-V

## Si Hyper-V activé :

Voici les fonctionnalités qui doivent être **désactivées** :

- **Hyper-v**
- **Plateforme de l'hyperviseur Windows**
- **Plateforme de l'ordinateur virtuel**

Cela nécessite un redémarrage, **si certains ont docker d'installé** sur leur machine, il vous demandera au redémarrage si vous voulez activer Hyper-v pour l'utiliser, il faut bien penser **à refuser** sinon cela réactivera la fonctionnalité.

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# Préparation des enveloppes VMs (x3)



# Préparation des enveloppes VMs (x3)

Pour commencer, nous allons télécharger l'ISO de notre système d'exploitation, à savoir Linux Debian :

<https://www.debian.org/index.fr.html>

## LA COMMUNAUTÉ

Debian est une communauté de personnes !



Les acteurs

Qui sommes-nous et que faisons-nous

## LE SYSTÈME D'EXPLOITATION

Debian est un système d'exploitation libre complet !



Téléchargement



Pourquoi Debian

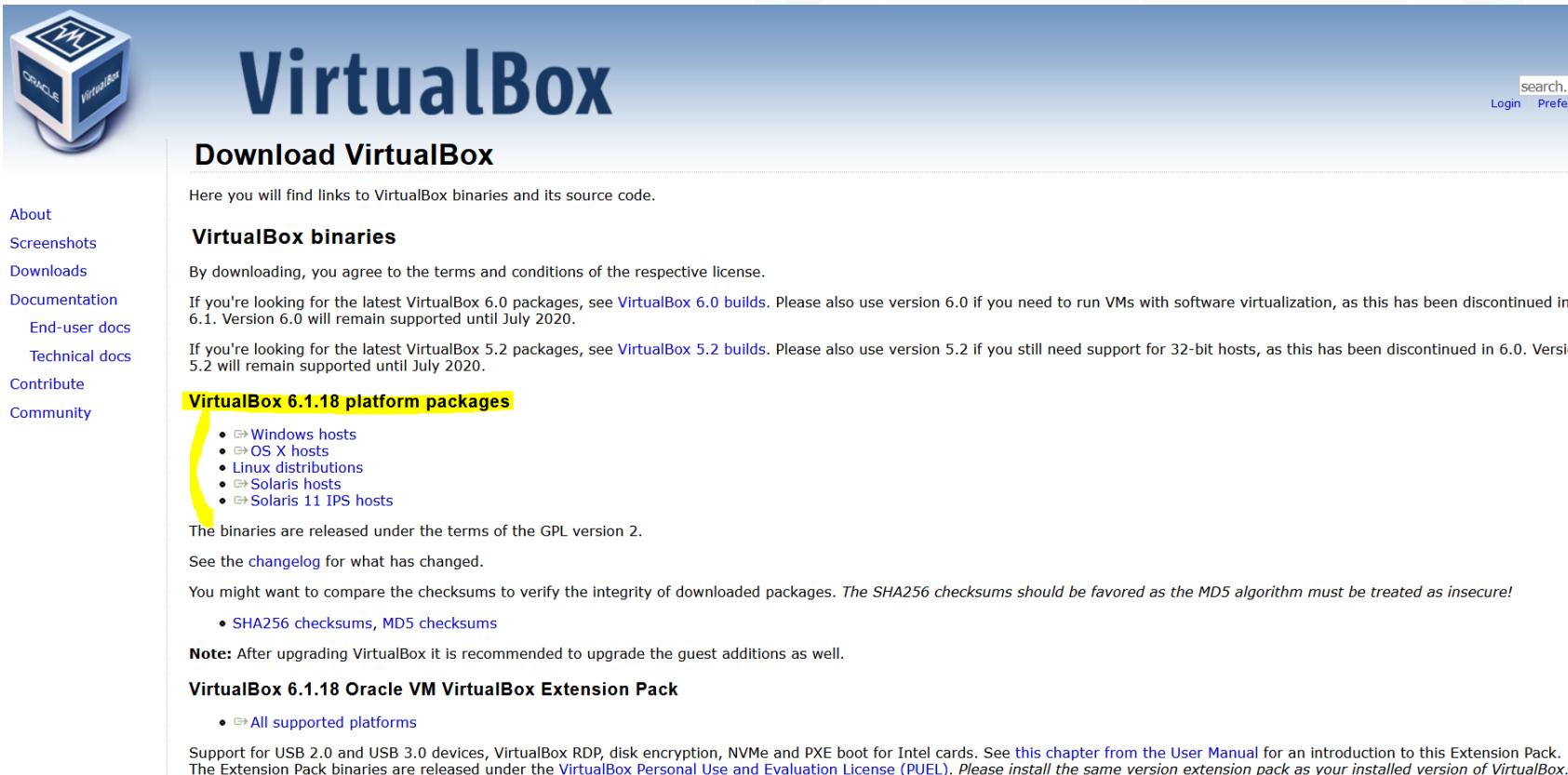
Qu'est-ce qui rend Debian particulier et qui fait que vous devriez l'utiliser

Lien direct : <https://cdimage.debian.org/debian-cd/current/amd64/iso-cd/debian-10.7.0-amd64-netinst.iso>

# Préparation des enveloppes VMs (x3)

Ensuite, nous allons télécharger et installer VirtualBox qui nous permettra de créer les enveloppes VMs :

<https://www.virtualbox.org/wiki/Downloads>



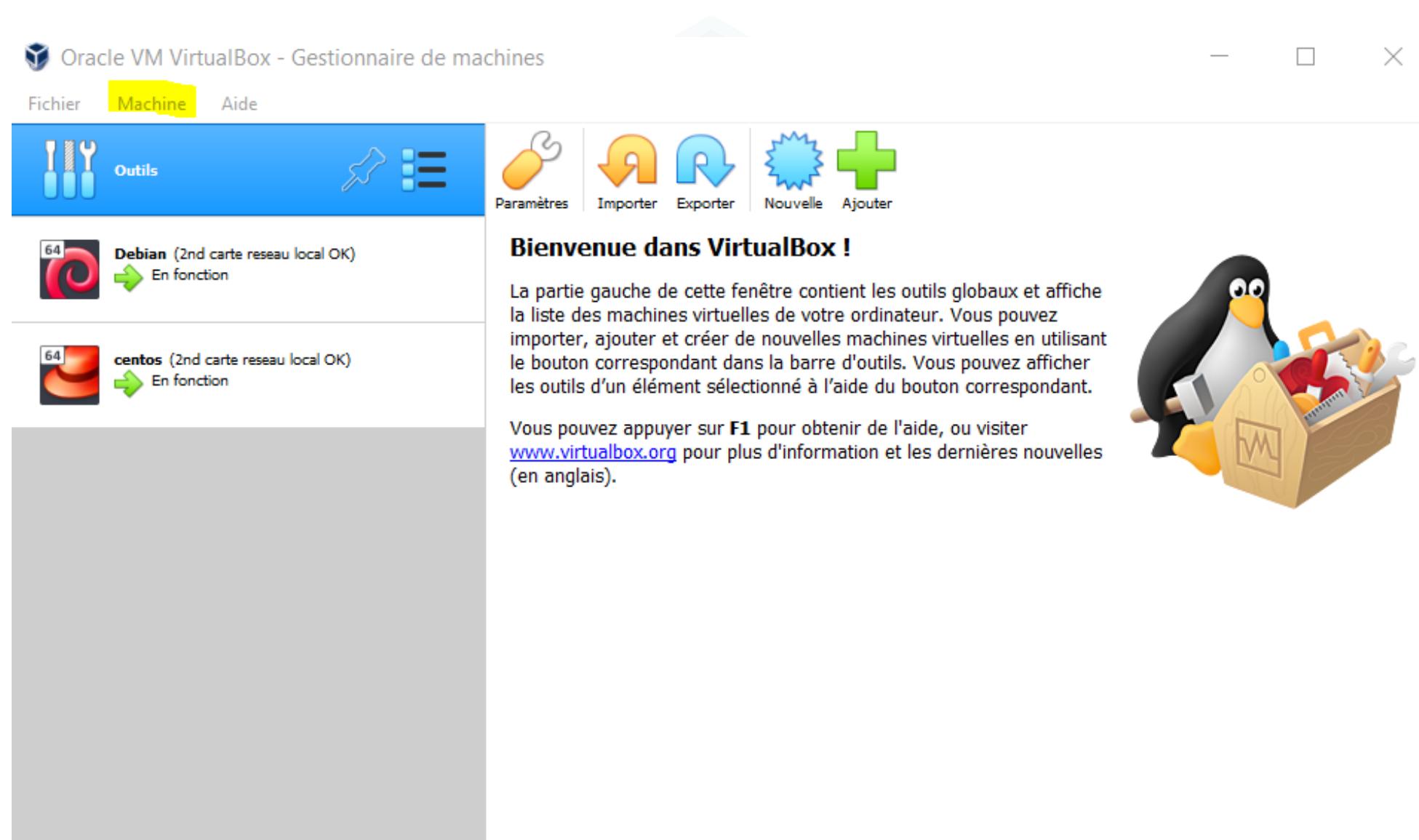
The screenshot shows the official VirtualBox download page. At the top left is the Oracle VirtualBox logo. The main title is "VirtualBox". Below it is a section titled "Download VirtualBox" with the sub-instruction "Here you will find links to VirtualBox binaries and its source code.". A vertical sidebar on the left contains links: "About", "Screenshots", "Downloads", "Documentation", "End-user docs", "Technical docs", "Contribute", and "Community". A yellow arrow points from the text "Choisir le bon fichier en fonction de votre système d'exploitation." to the "VirtualBox 6.1.18 platform packages" section. This section lists supported platforms: "Windows hosts", "OS X hosts", "Linux distributions", "Solaris hosts", and "Solaris 11 IPS hosts". Below this, a note states: "The binaries are released under the terms of the GPL version 2." and "See the [changelog](#) for what has changed." A note about checksums follows: "You might want to compare the checksums to verify the integrity of downloaded packages. *The SHA256 checksums should be favored as the MD5 algorithm must be treated as insecure!*" It includes links to "SHA256 checksums" and "MD5 checksums". A note about guest additions follows: "Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well." Finally, there is a section for the "VirtualBox 6.1.18 Oracle VM VirtualBox Extension Pack" with a link to "All supported platforms". A note at the bottom states: "Support for USB 2.0 and USB 3.0 devices, VirtualBox RDP, disk encryption, NVMe and PXE boot for Intel cards. See [this chapter from the User Manual](#) for an introduction to this Extension Pack. The Extension Pack binaries are released under the [VirtualBox Personal Use and Evaluation License \(PUEL\)](#). Please install the same version extension pack as your installed version of VirtualBox."

Choisir le bon fichier en fonction de votre système d'exploitation.

# Enveloppe VM Serveur DHCP-DNS



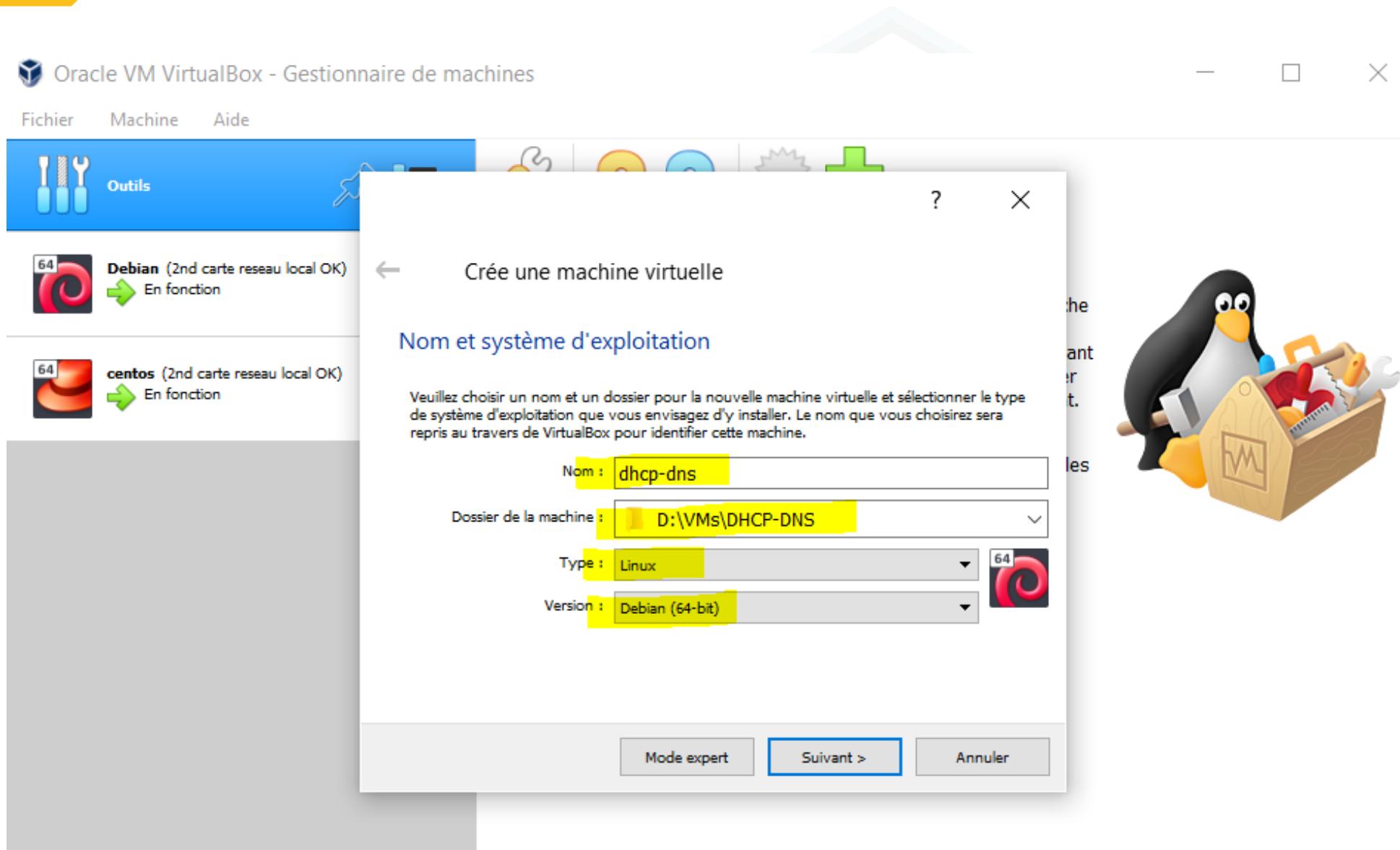
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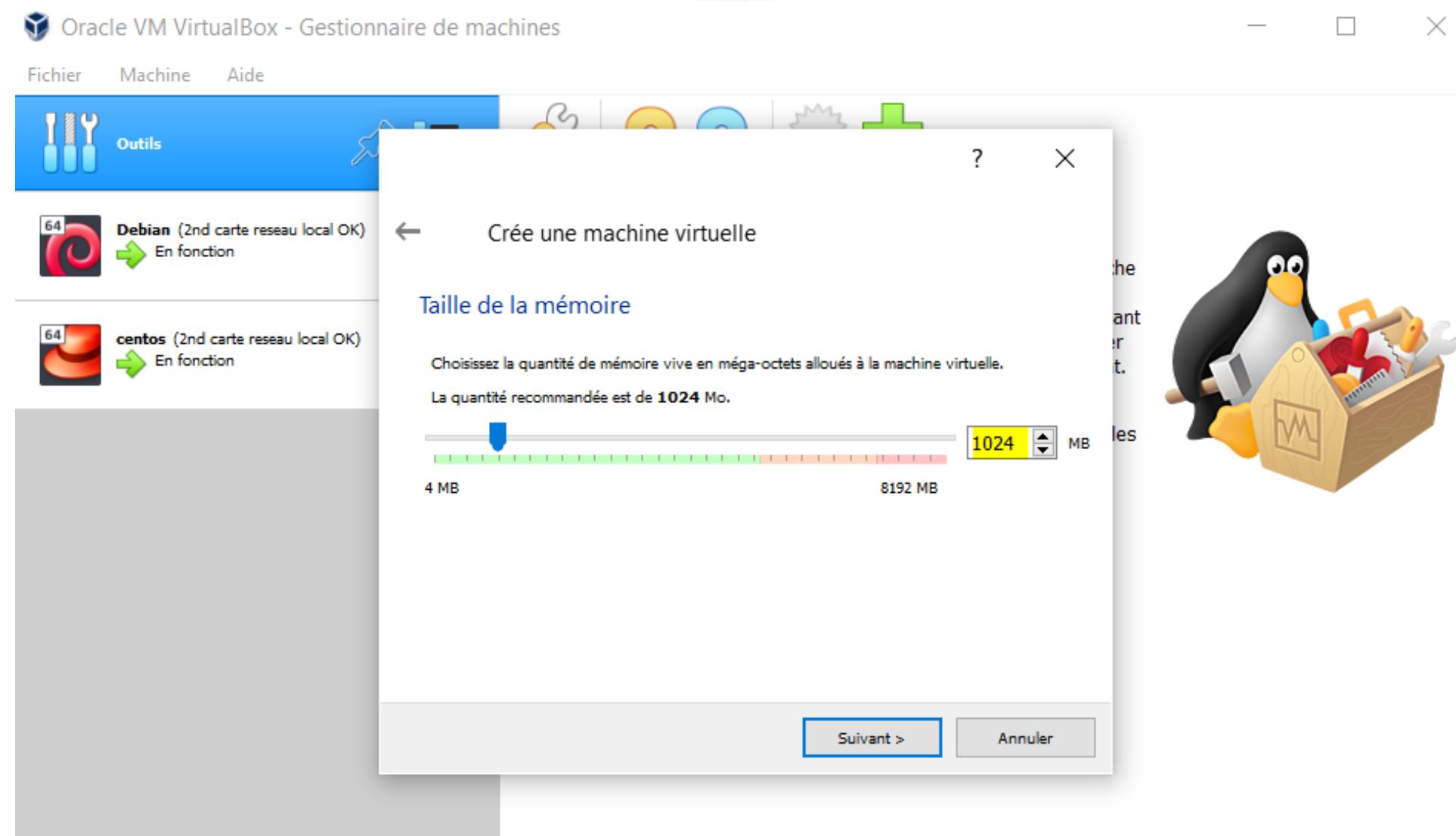
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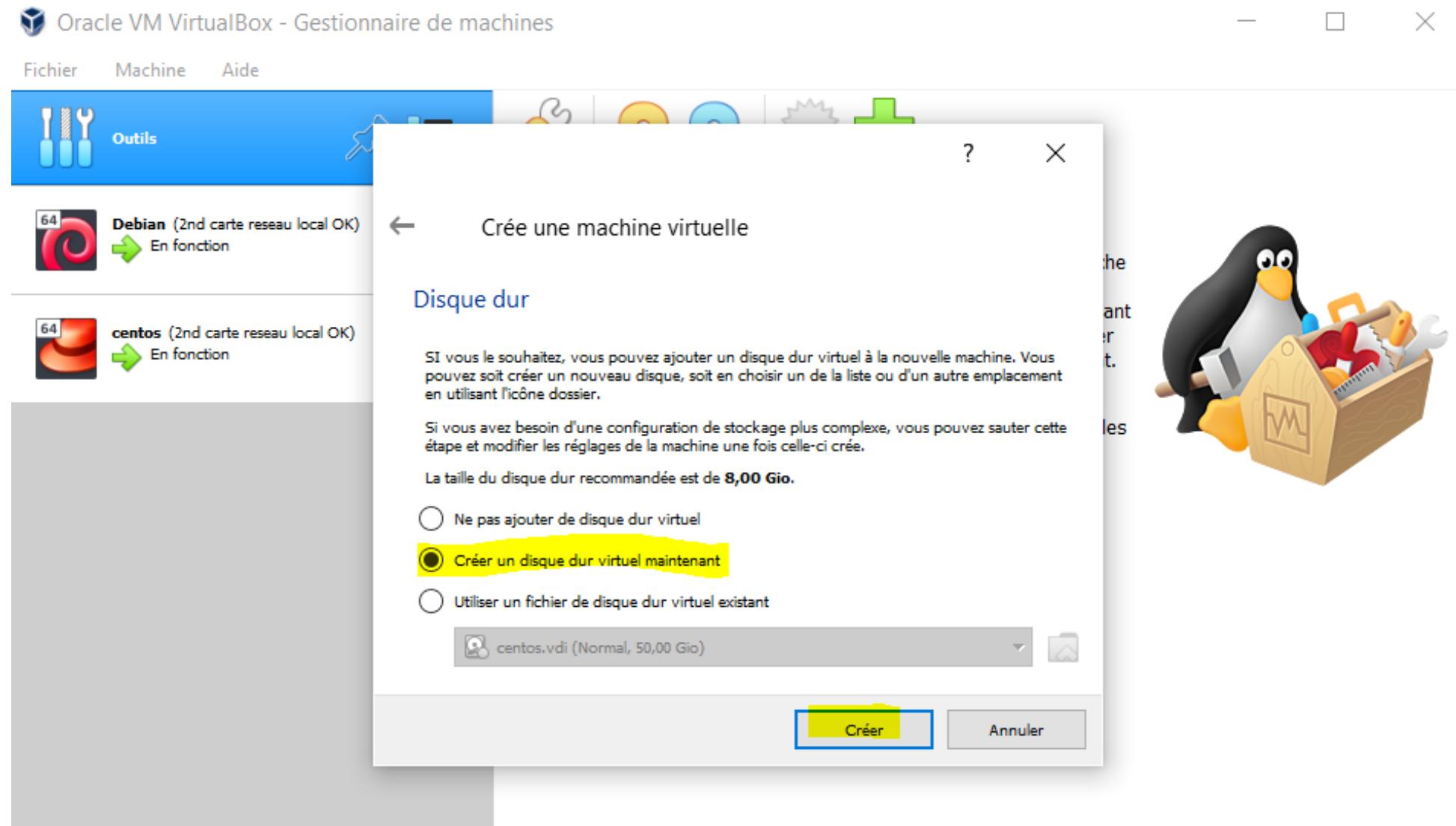
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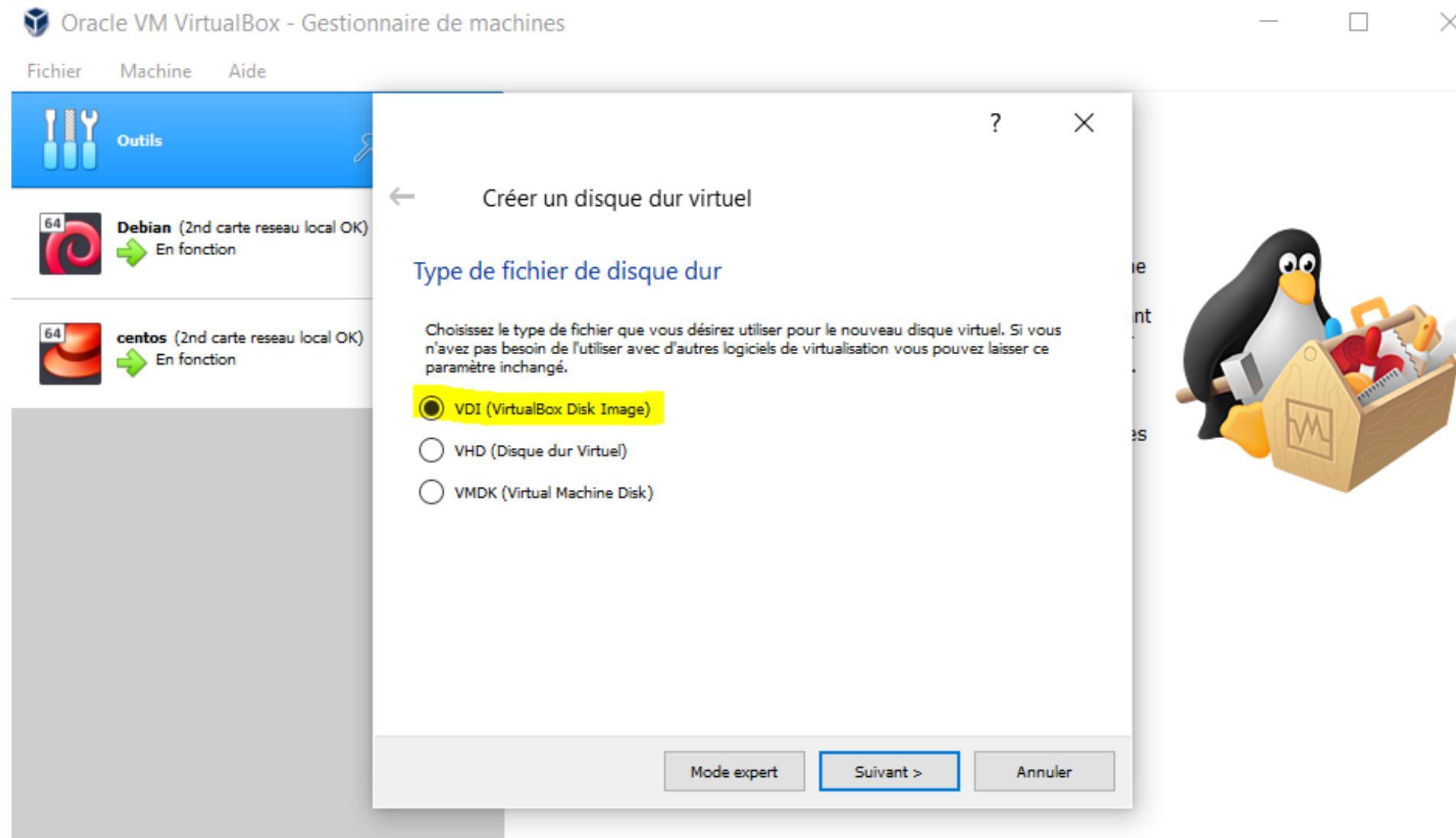
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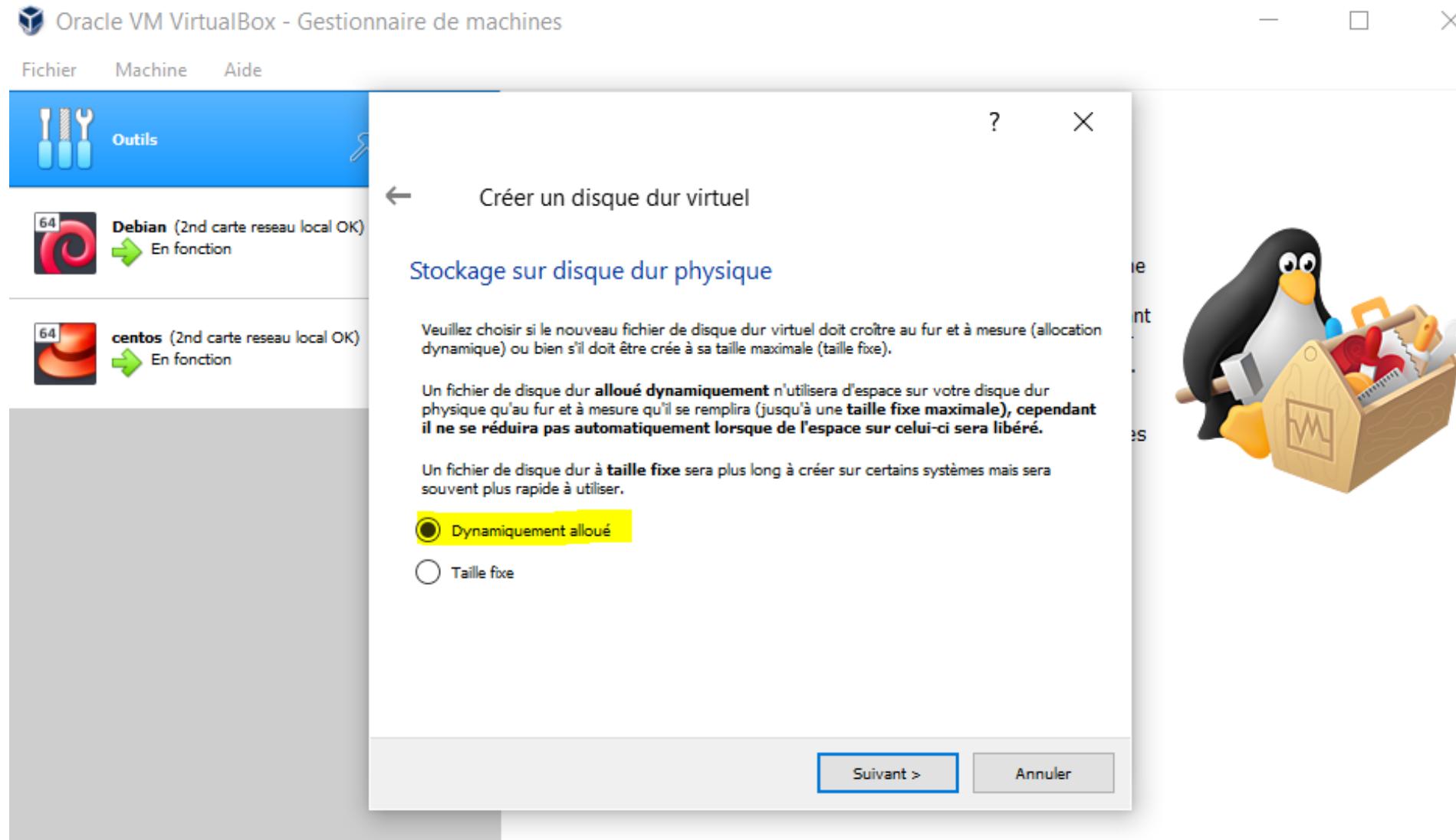
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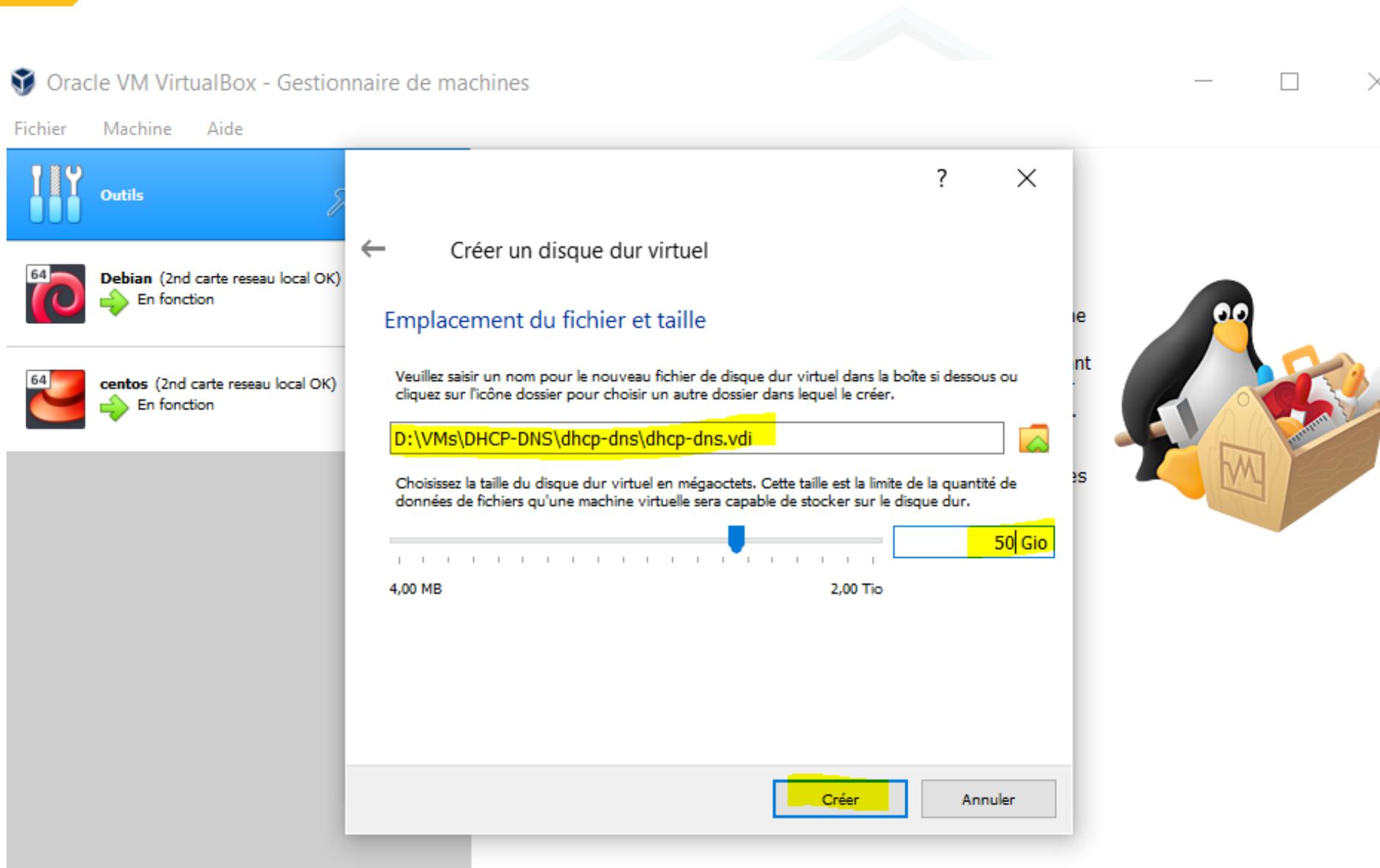
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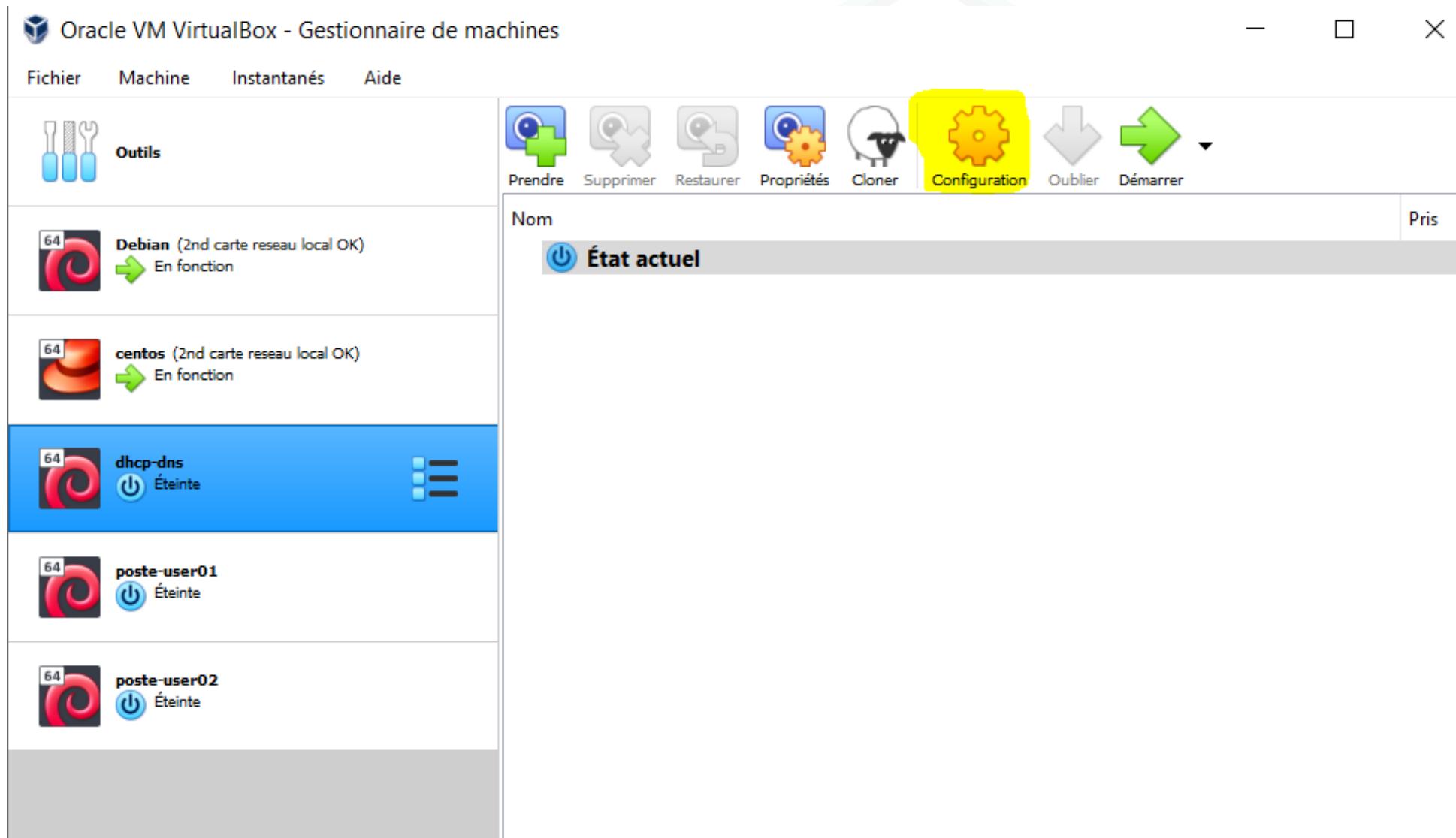
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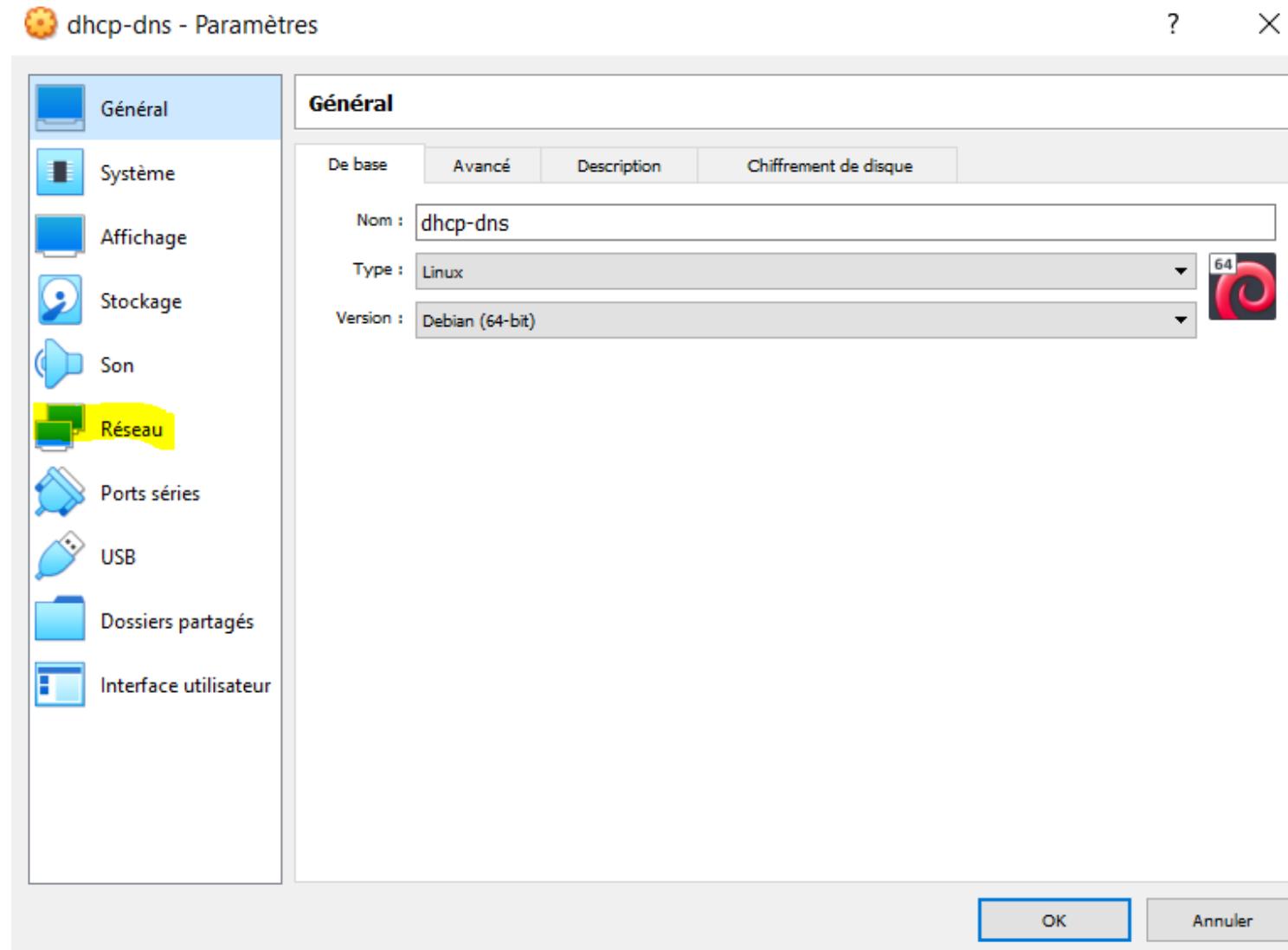
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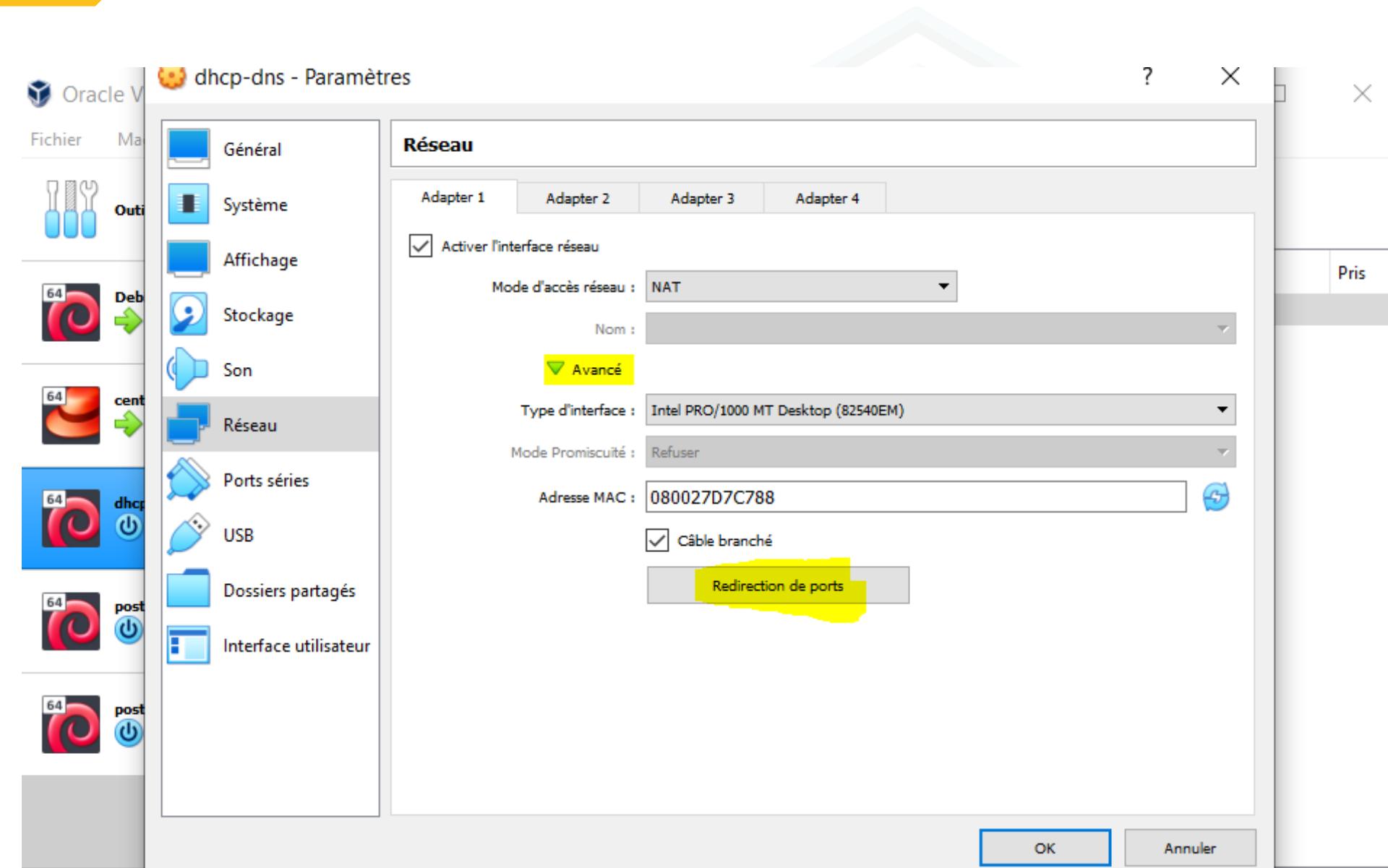
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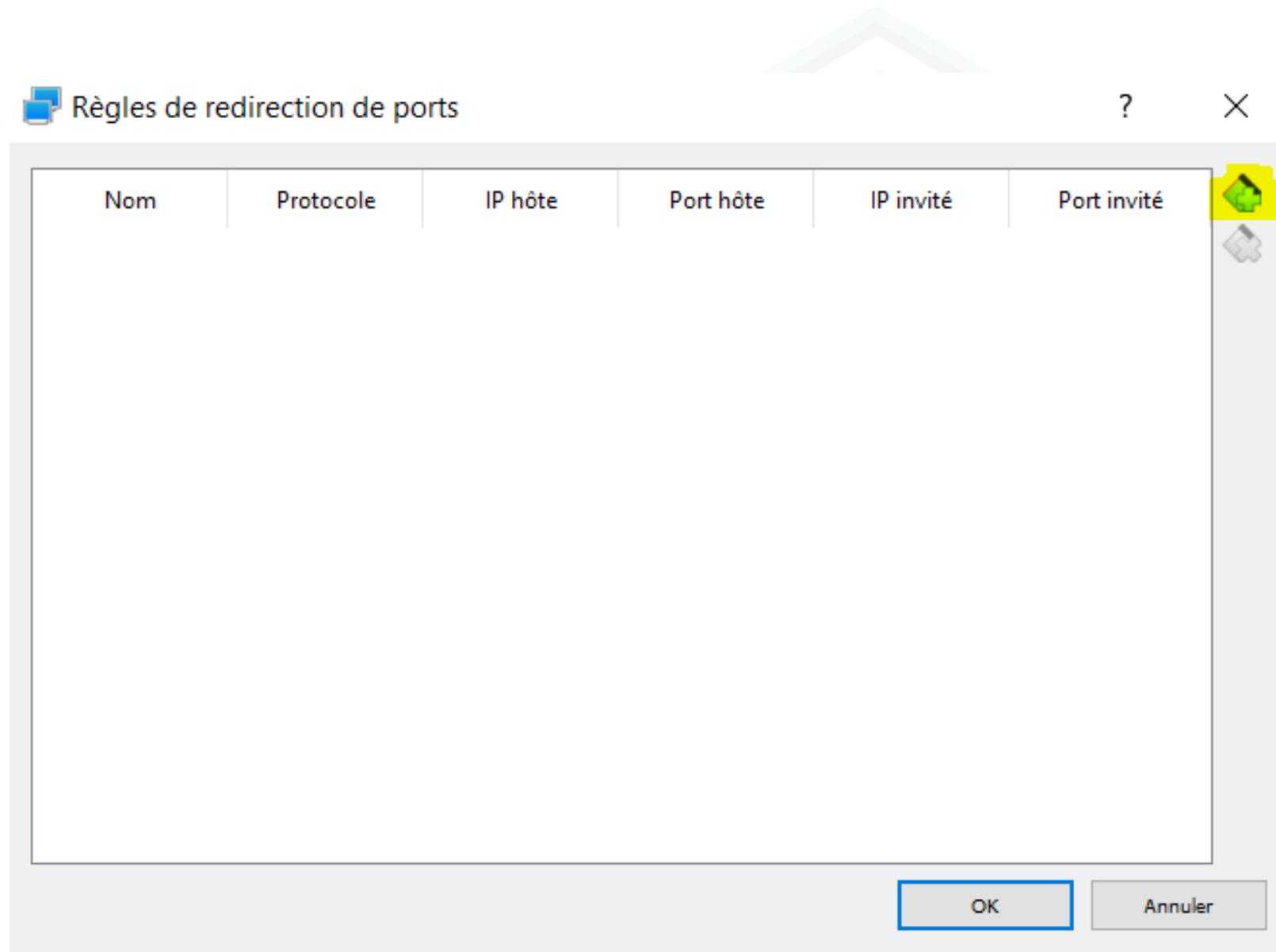
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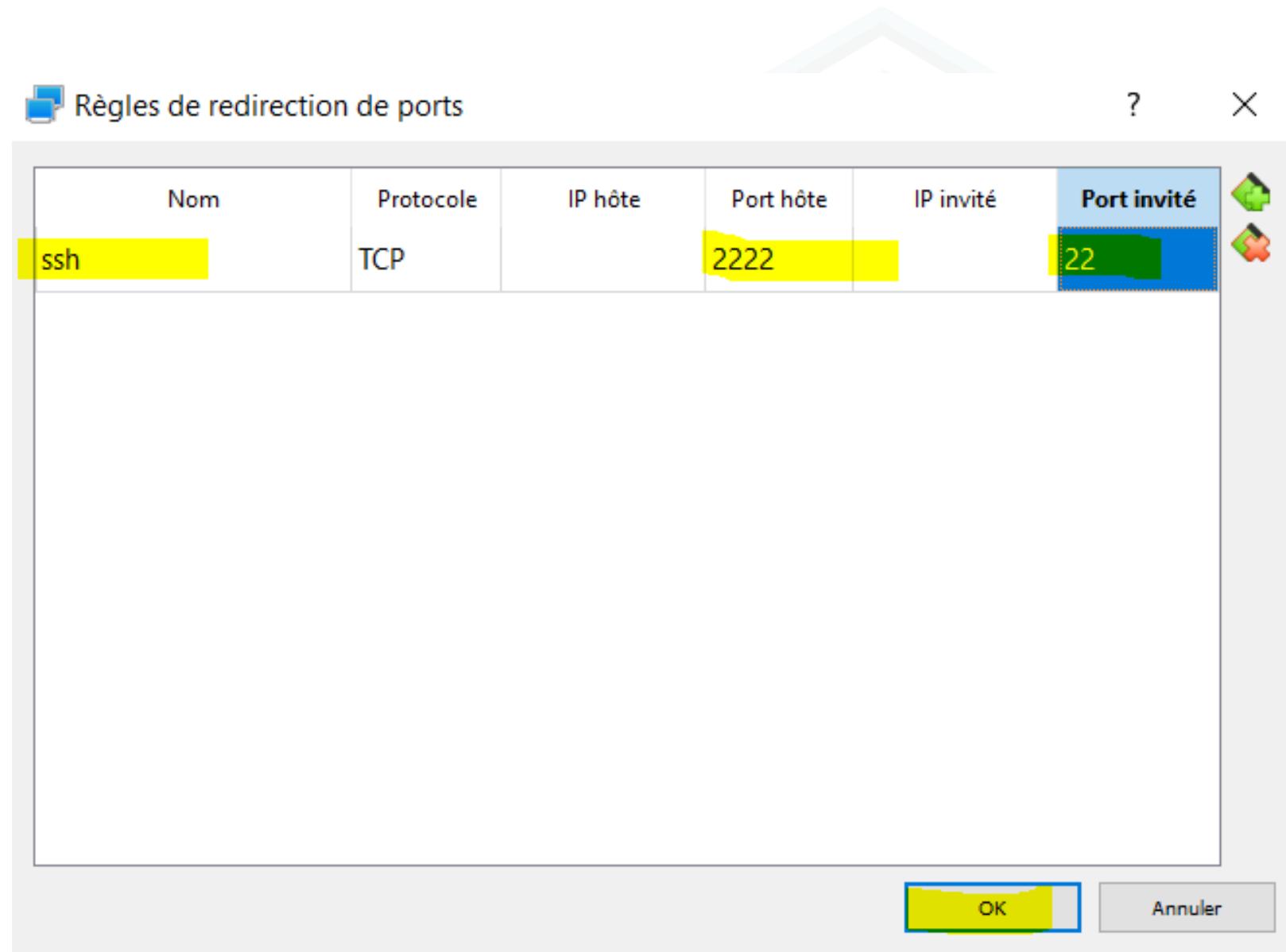
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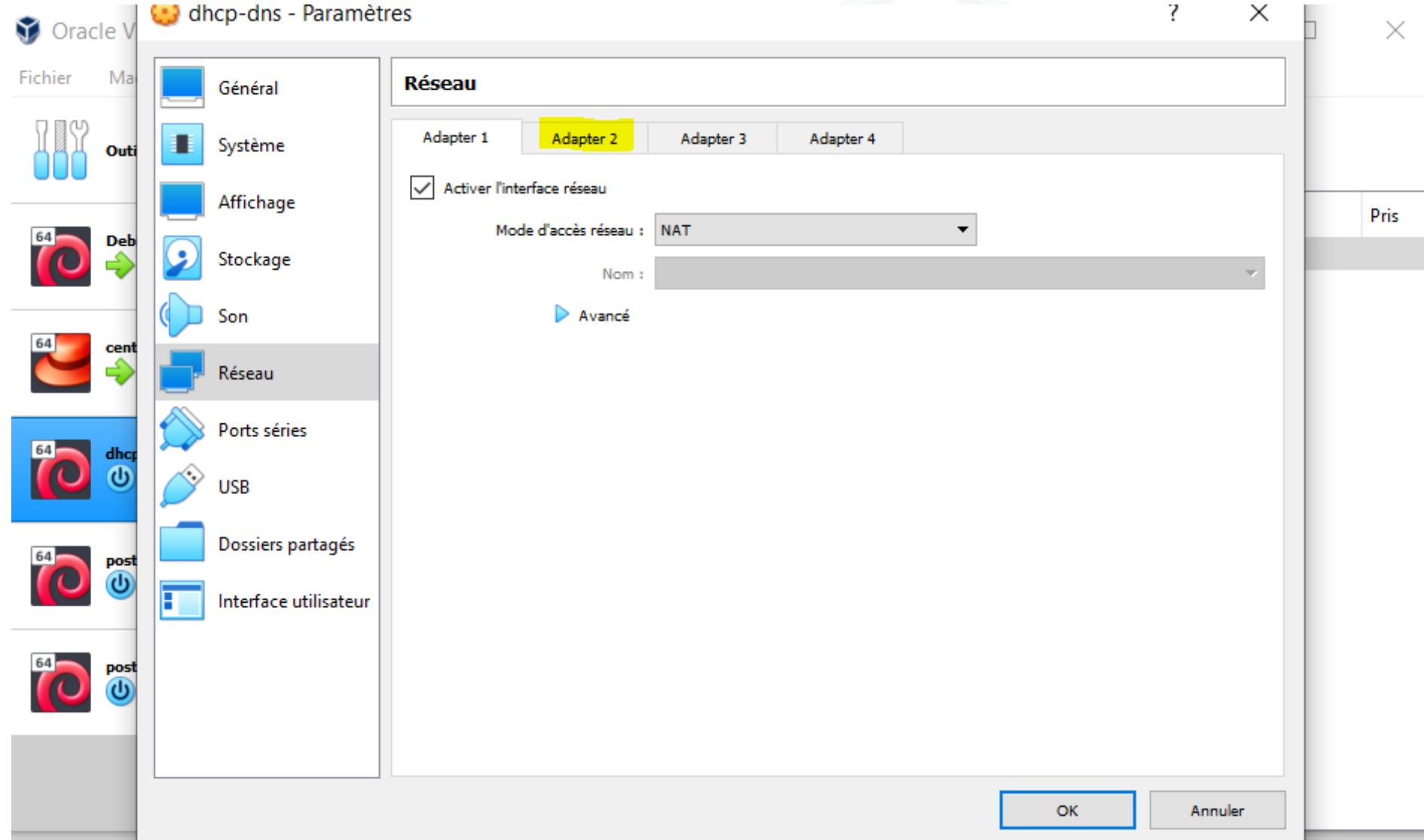
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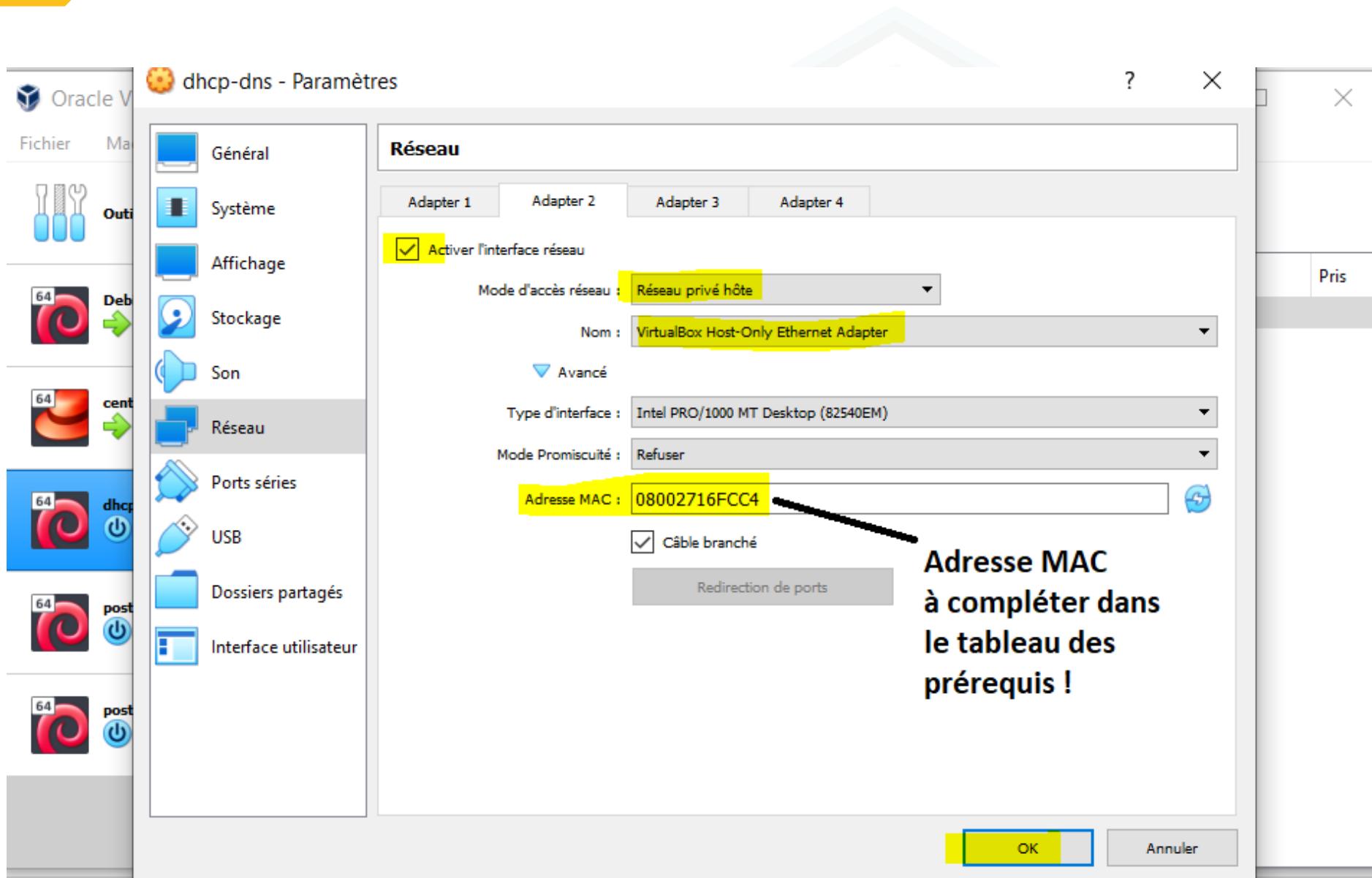
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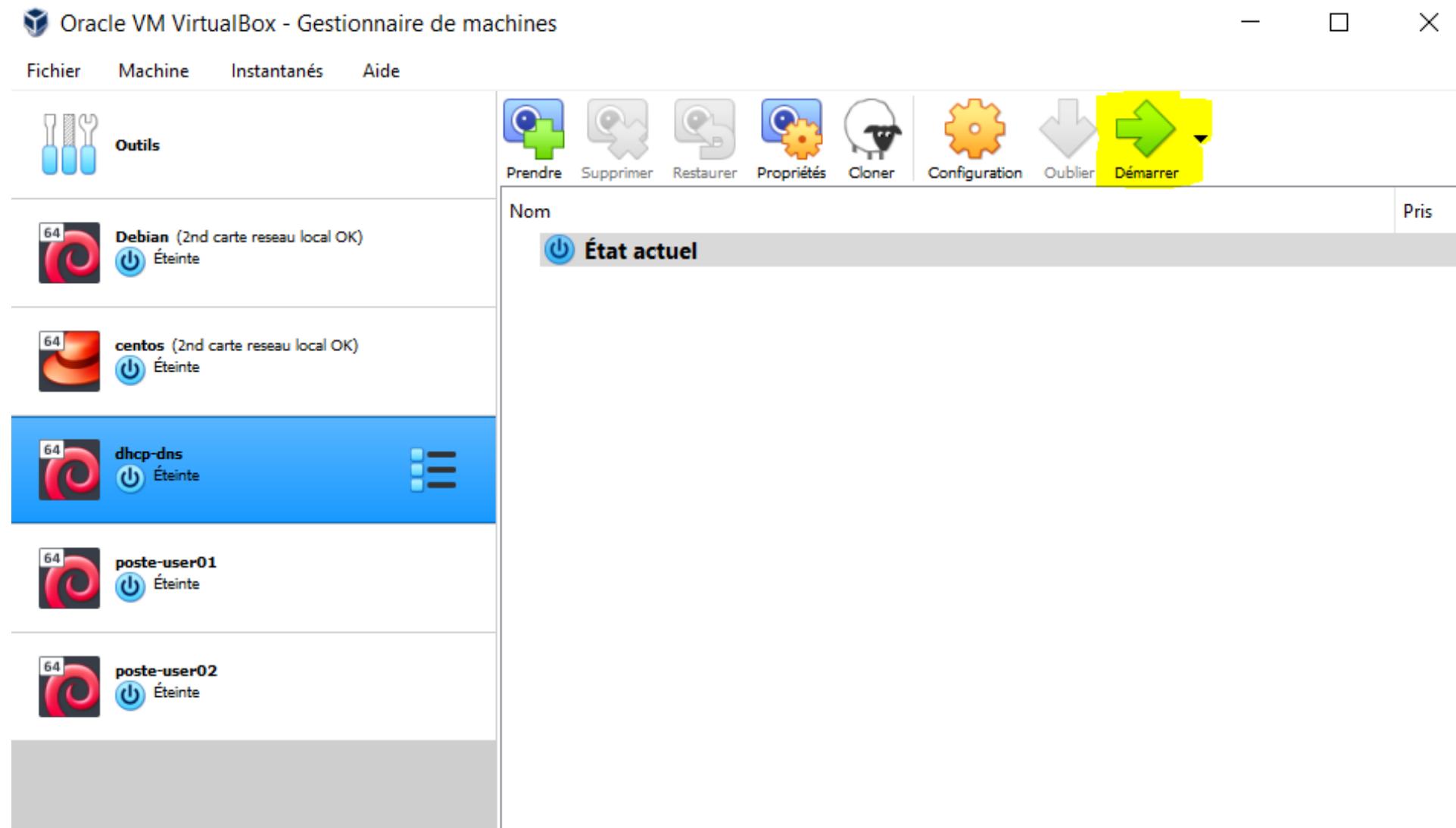
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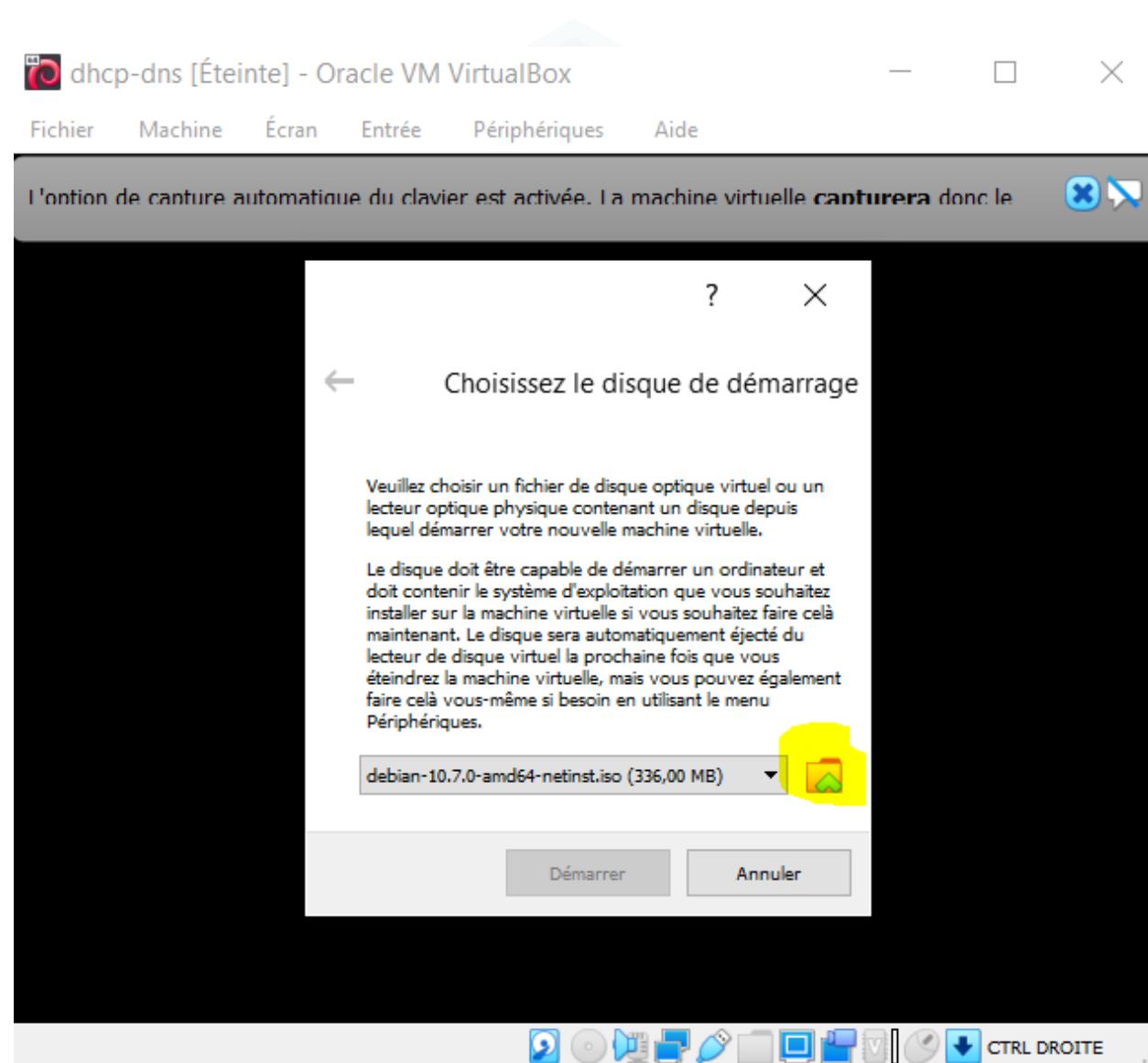
# Prérequis : Définir le plan d'adressage (MAJ)

| Réseau : 192.168.4.0/24        |                 | Réservations   |         |   |               |
|--------------------------------|-----------------|----------------|---------|---|---------------|
|                                |                 | Poste Serveurs | OUI NON | ADRESSE MAC                             | ADRESSE IP    |
| Adresse début                  | 192.168.4.100   | user01         | OUI     | A compléter au moment de l'installation | 192.168.4.150 |
| Adresse de fin                 | 192.168.4.200   | user02         | NON     | A compléter au moment de l'installation | IP DHCP       |
| Masque                         | 255.255.255.0   |                |         |   |               |
| Durée du bail                  | 3600 secondes   |                |         |   |               |
| <b>Options DHCP d'étendue</b>  |                 |                |         |   |               |
| <b>Nom</b>                     | <b>Valeur</b>   |                |         |   |               |
| Serveur DHCP                   | 192.168.4.10    |                |         | 08:00:27:16:FC:C4                       |               |
| Passerelle (PC)                | 192.168.4.1     |                |         |   |               |
| Routeur NAT                    | Box internet    |                |         |   |               |
| <b>Options DHCP de serveur</b> |                 |                |         |   |               |
| <b>Nom</b>                     | <b>Valeur</b>   |                |         |   |               |
| Serveur DNS                    | 192.168.4.1     |                |         | Idem                                    |               |
| Domaine                        | formation.local |                |         |   |               |

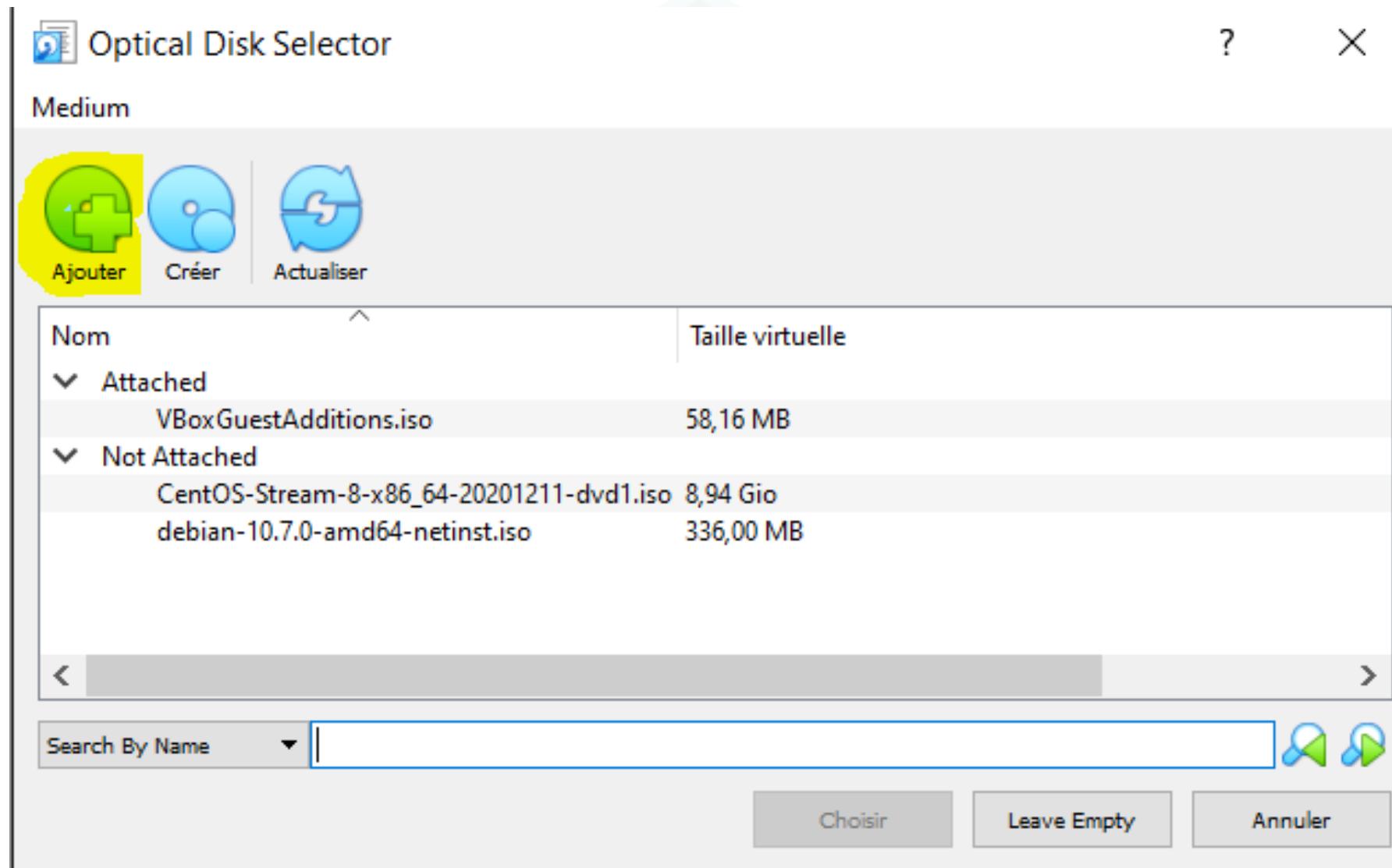
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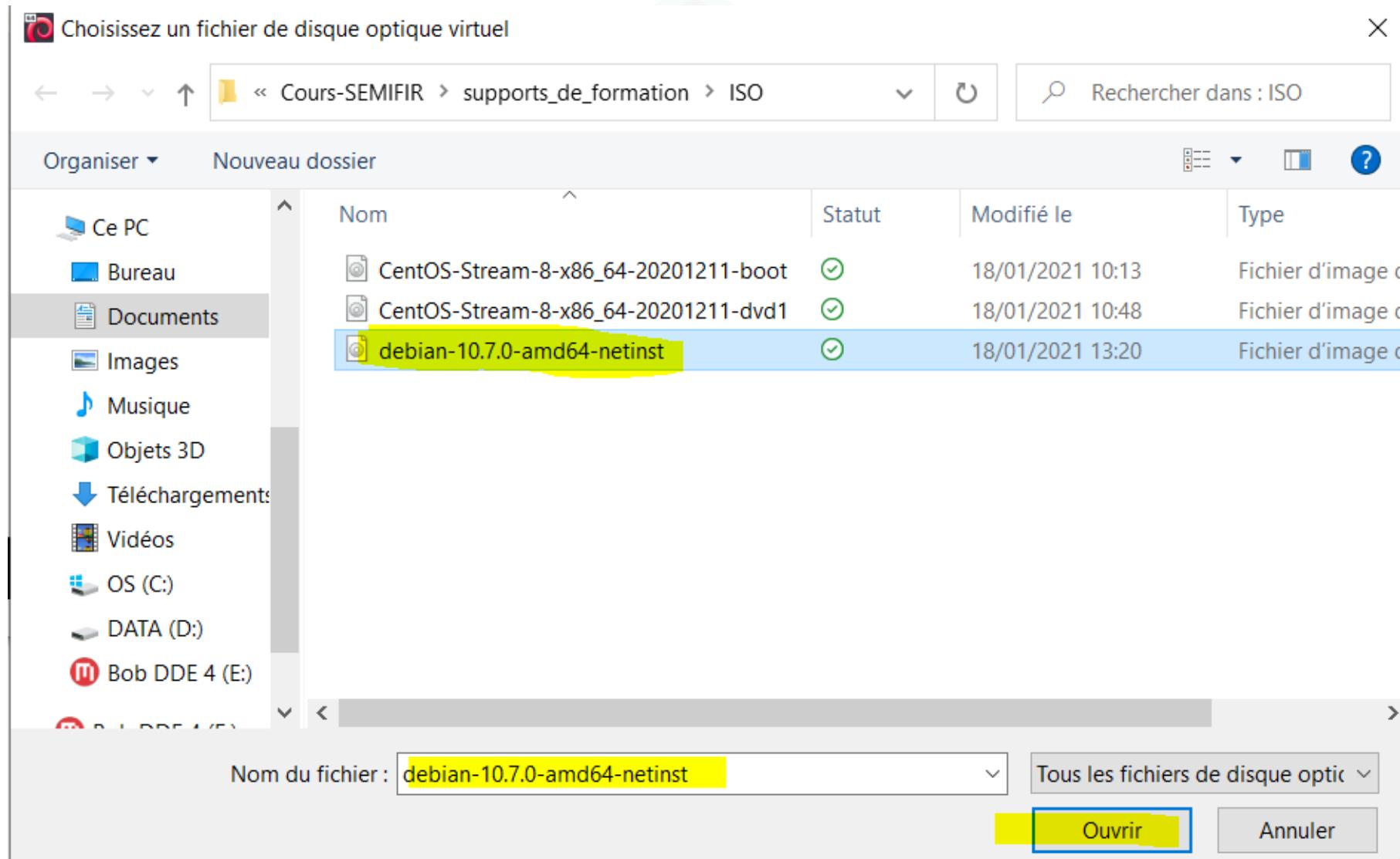
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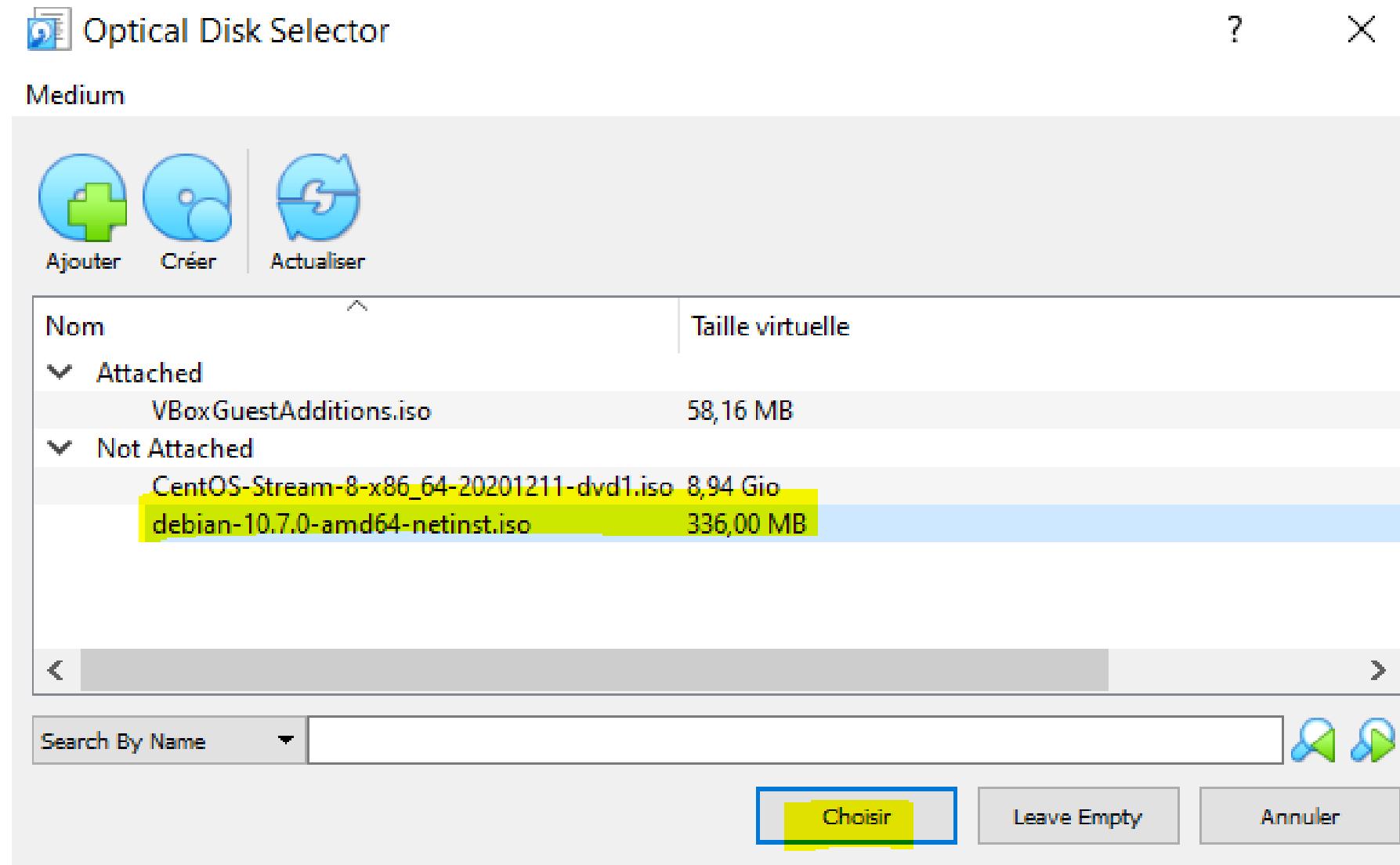
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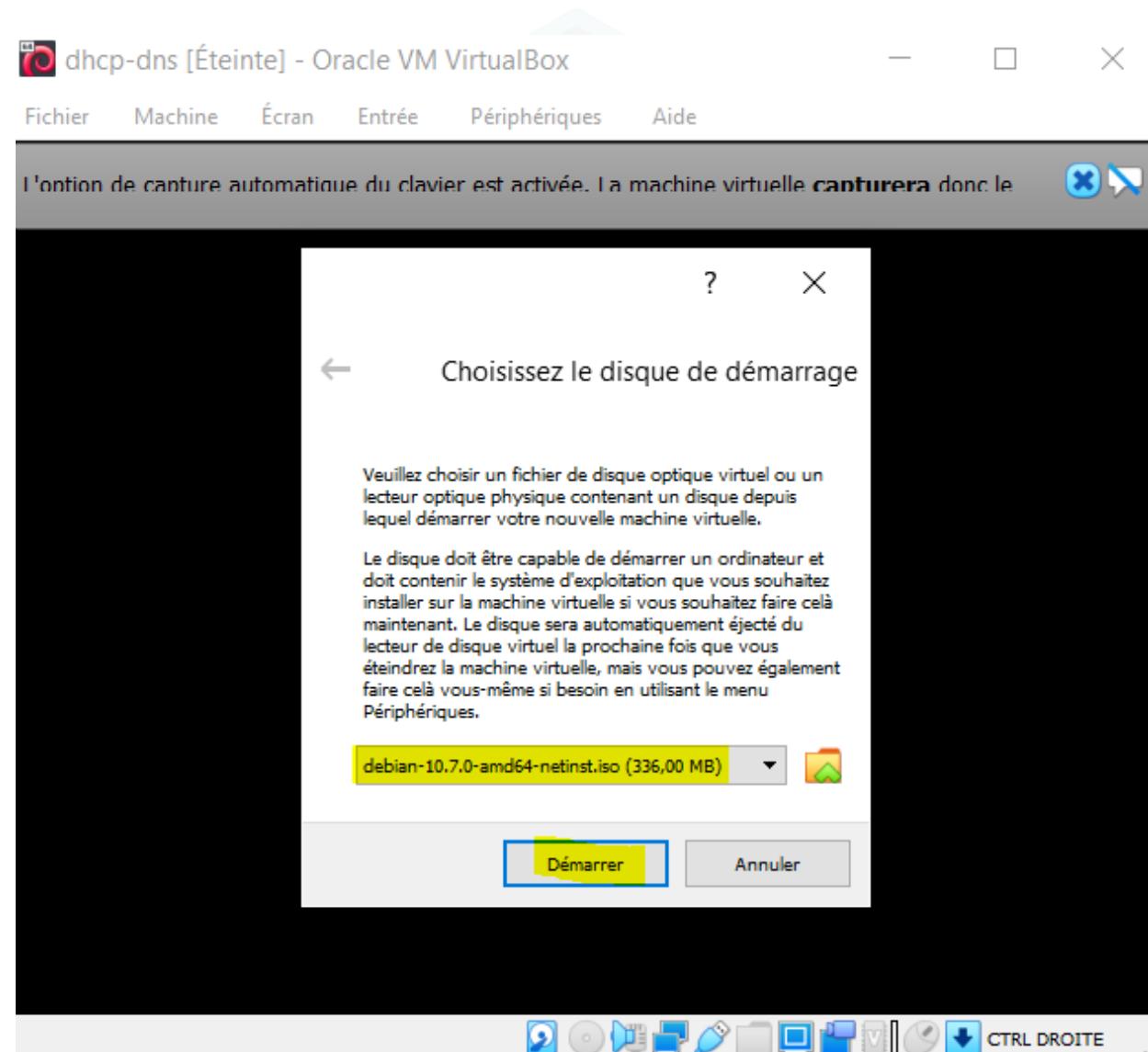
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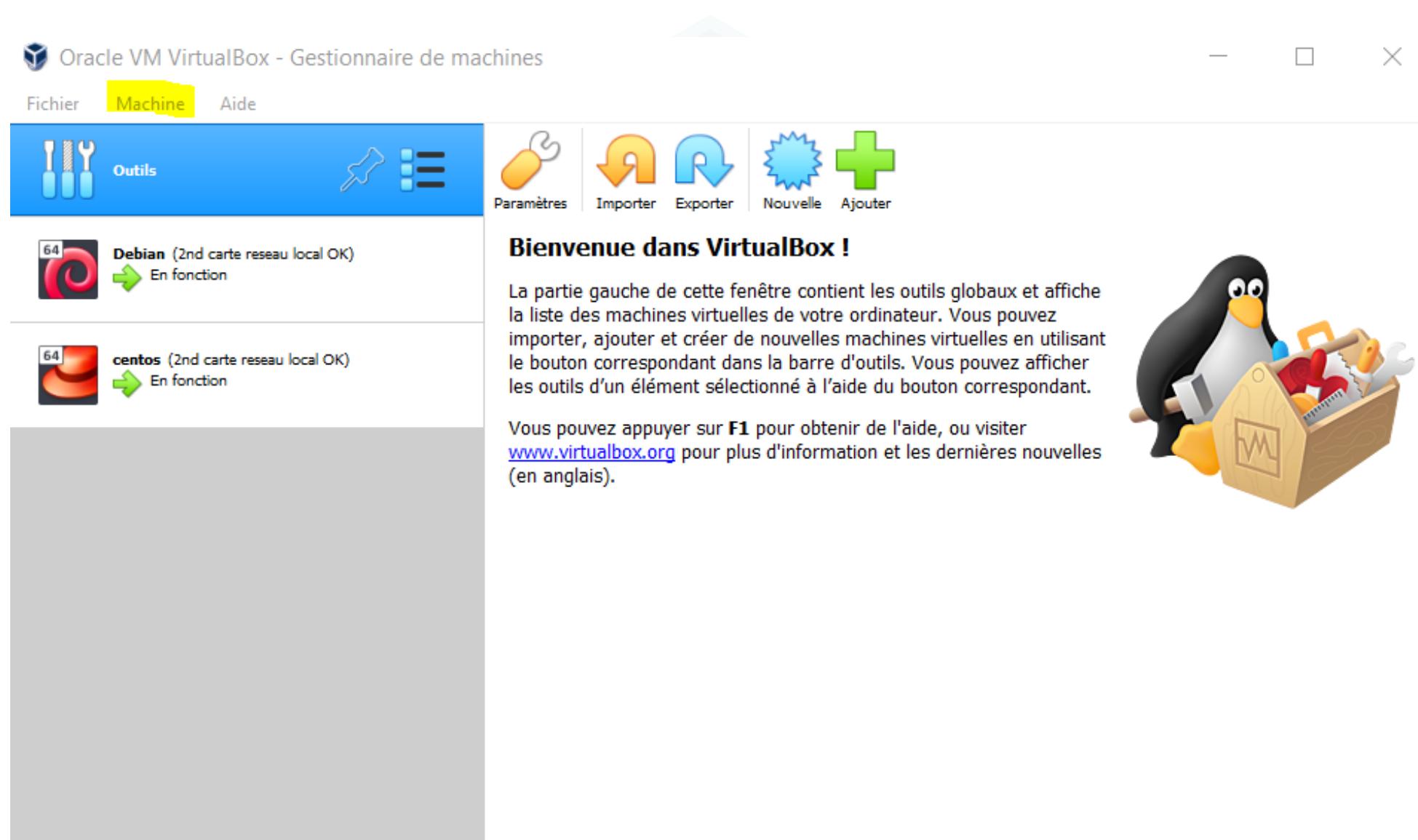
# Préparation des enveloppes VMs (x3) : serveur DHCP-DNS



A top-down photograph of a light-colored wooden desk. On the desk, from left to right, is a dark smartphone, a white laptop with its screen closed, a white keyboard, a white computer mouse, a white mug filled with dark coffee, and a single chocolate muffin in a paper liner. A small portion of a blue pencil is visible on the far left edge.

# Enveloppe VM Poste client user01

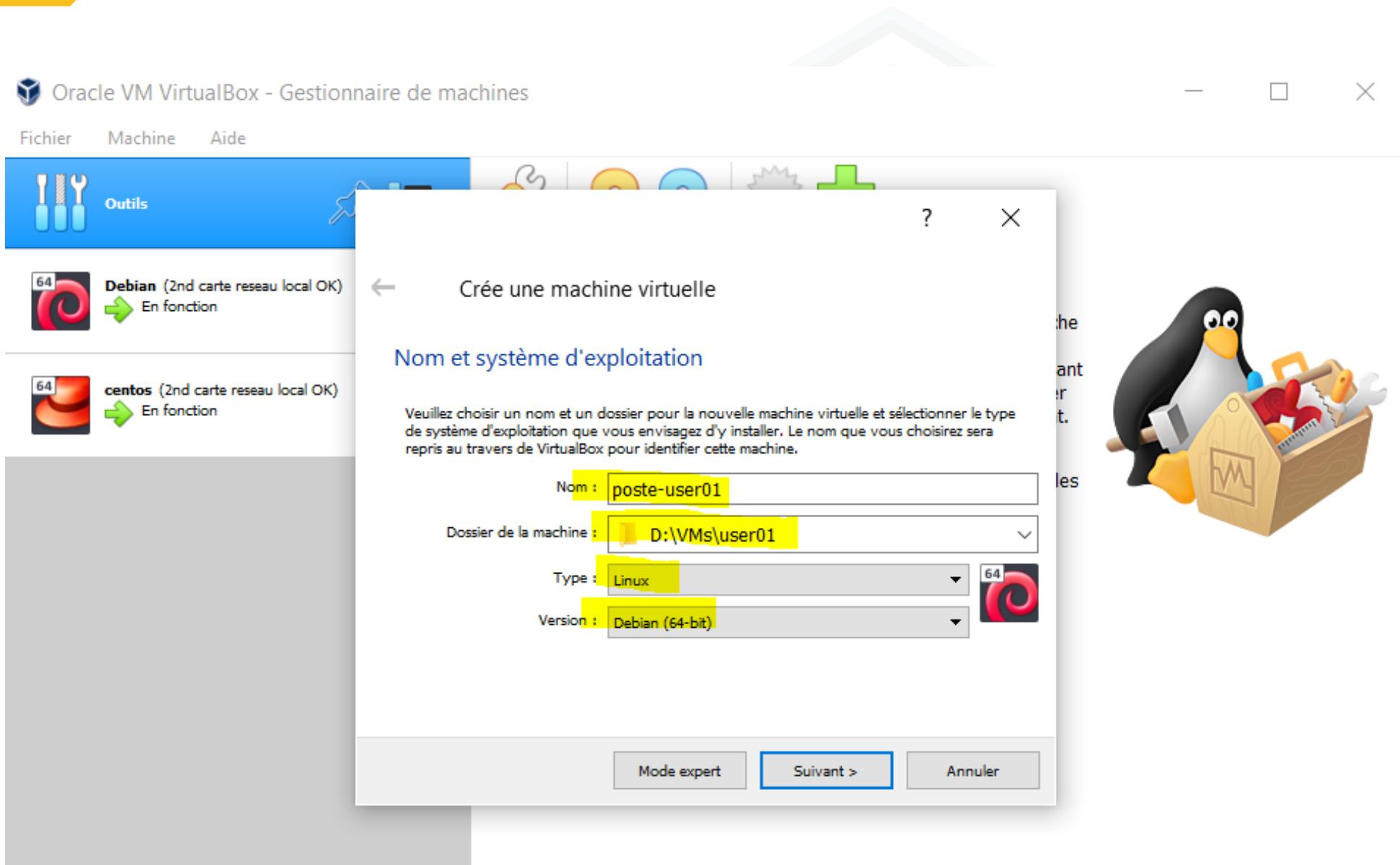
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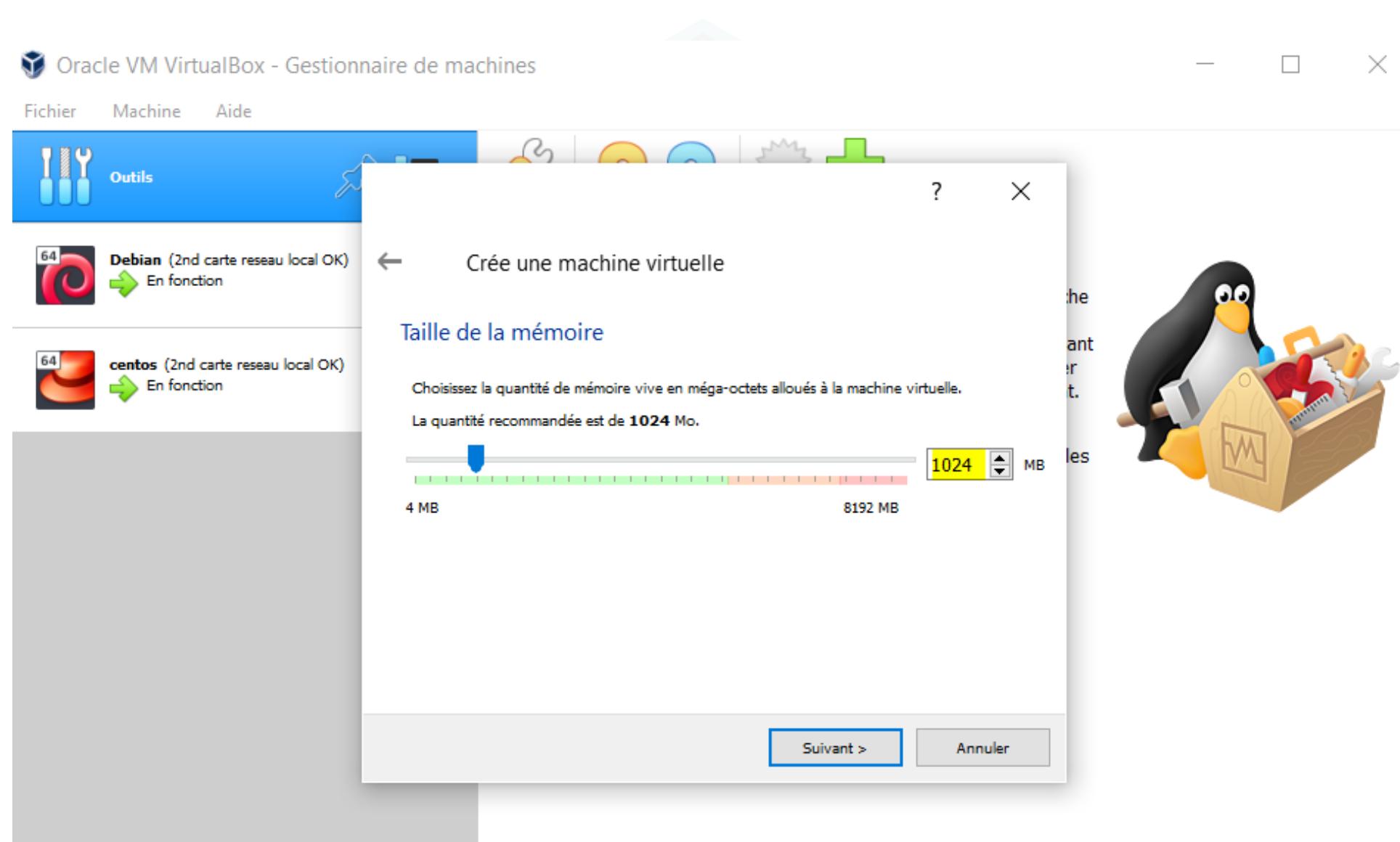
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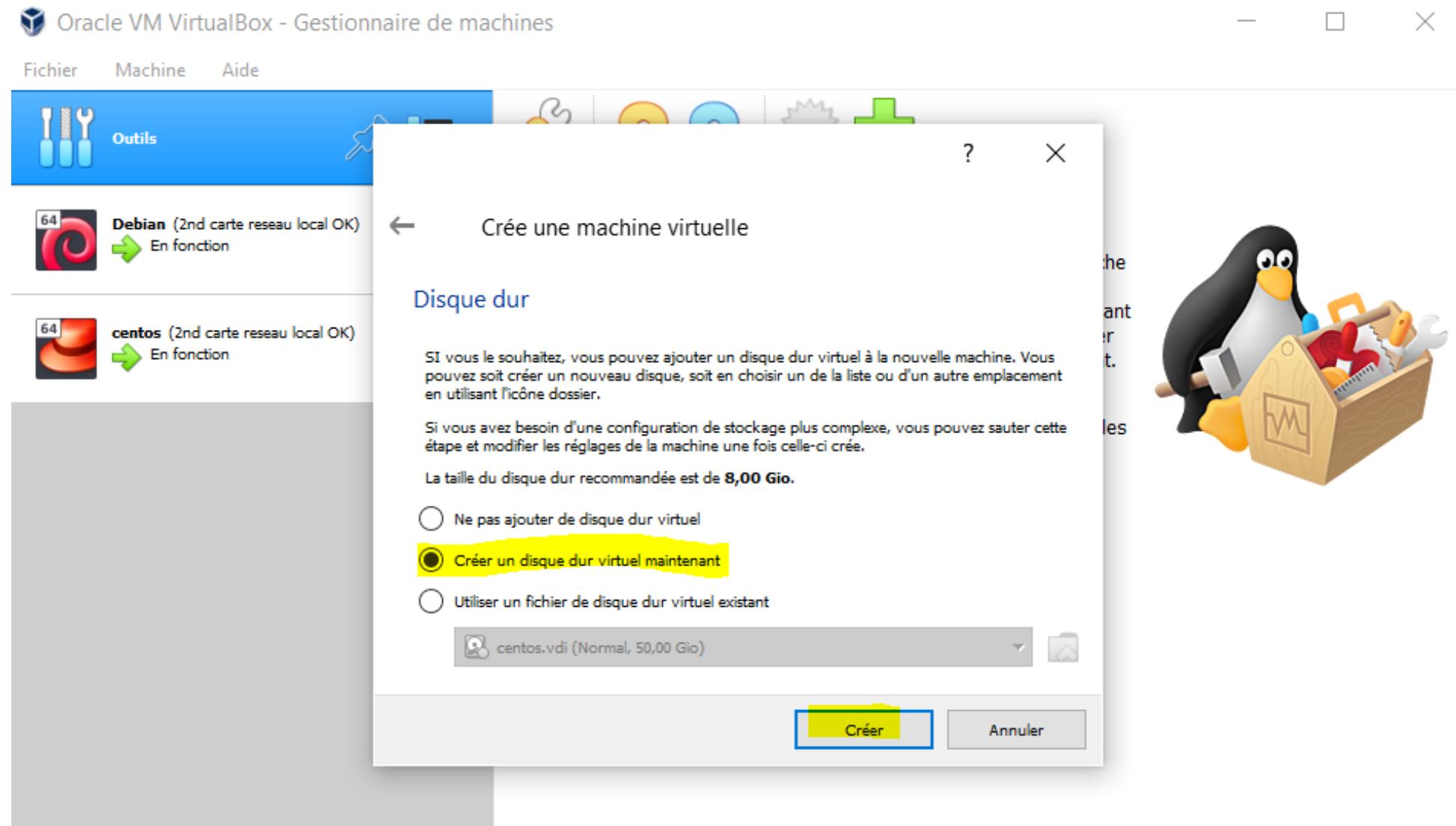
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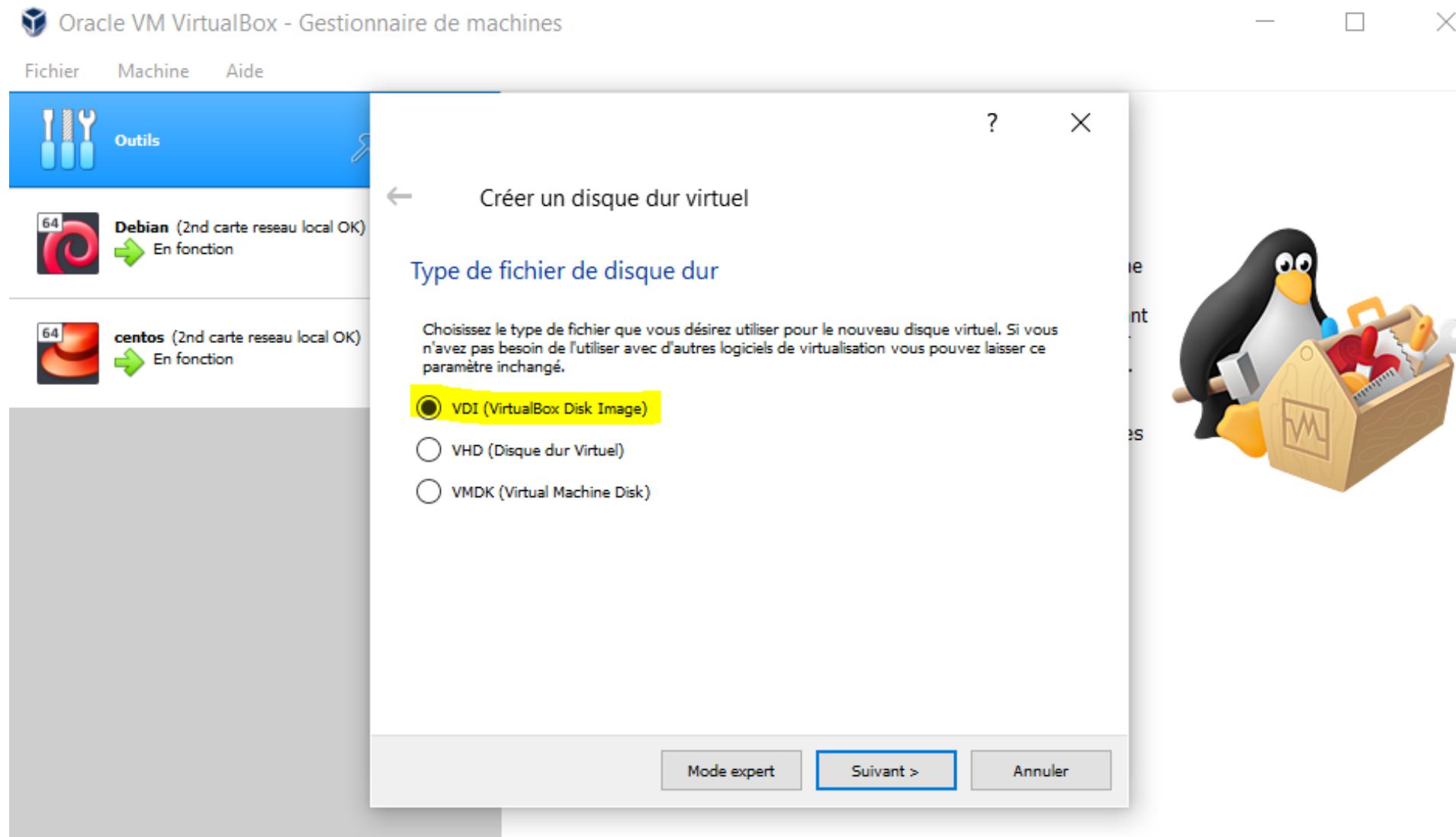
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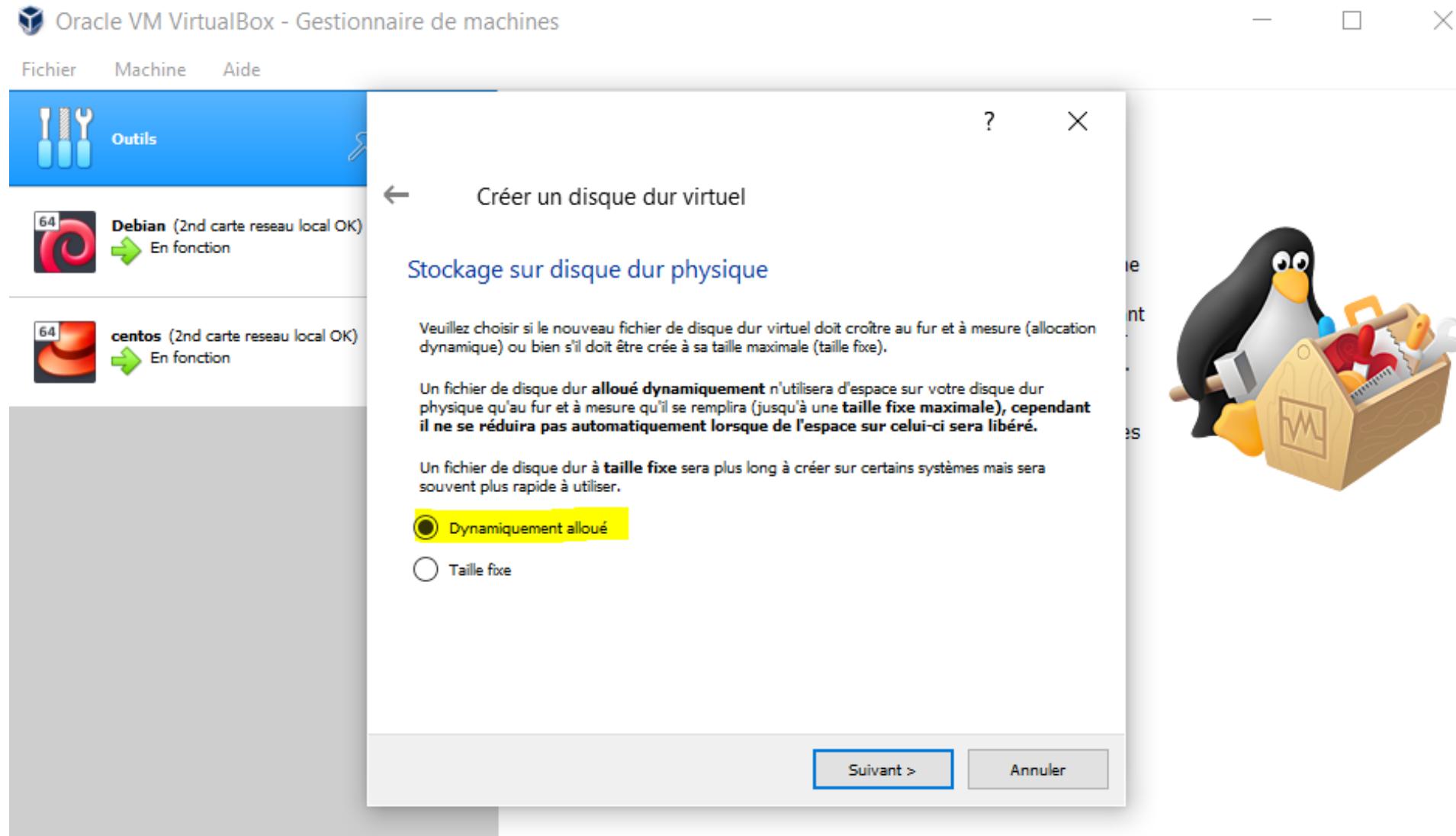
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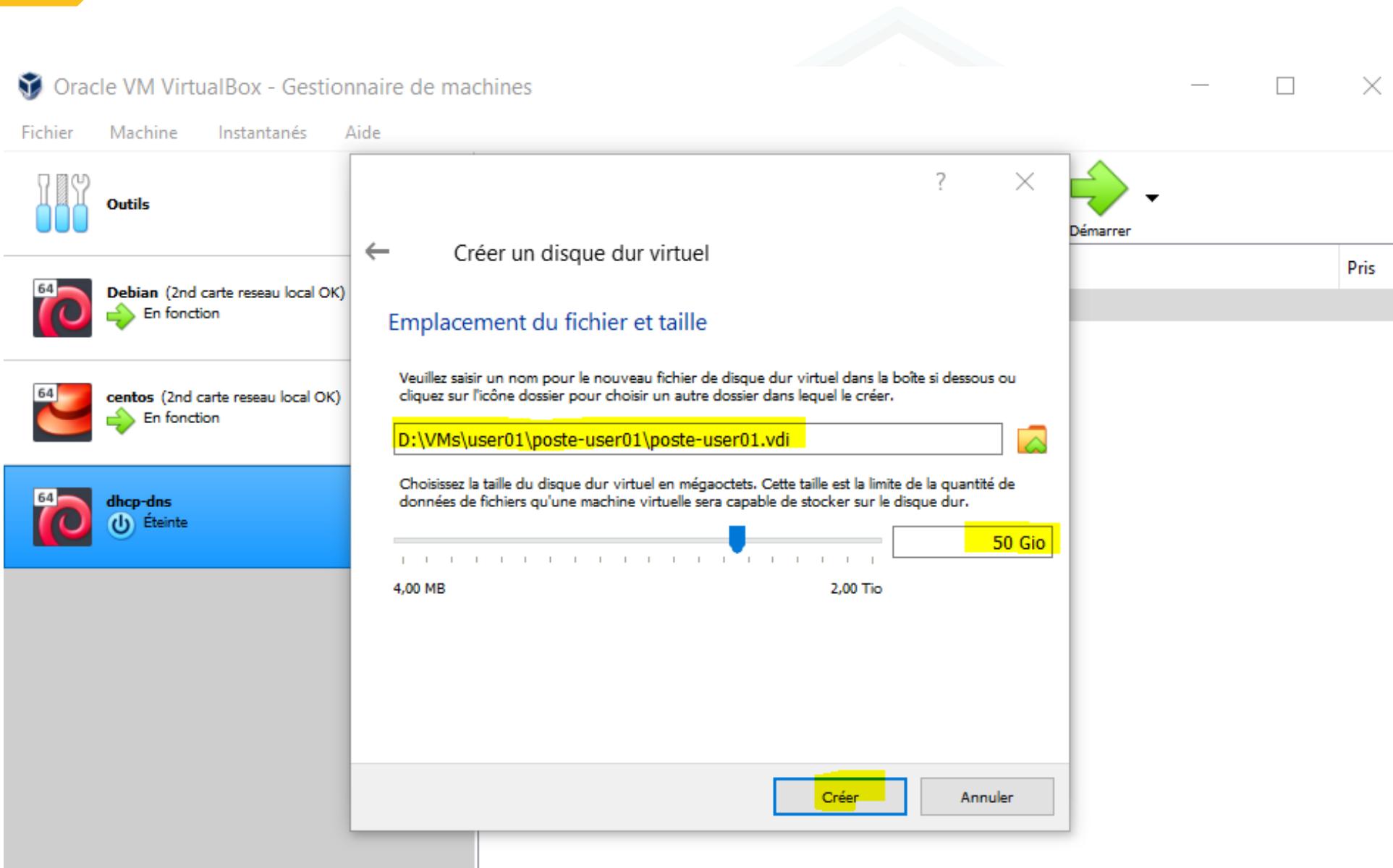
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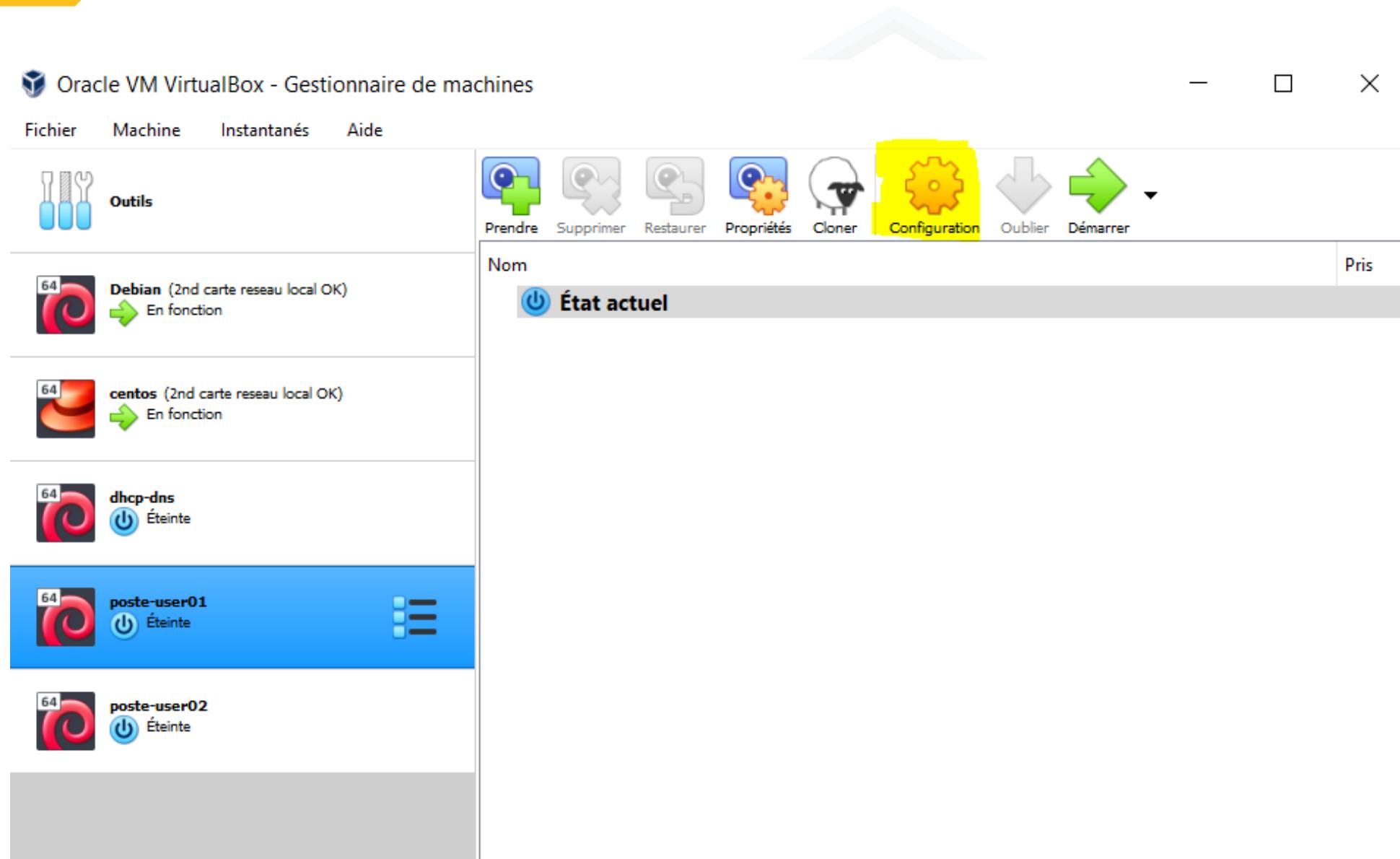
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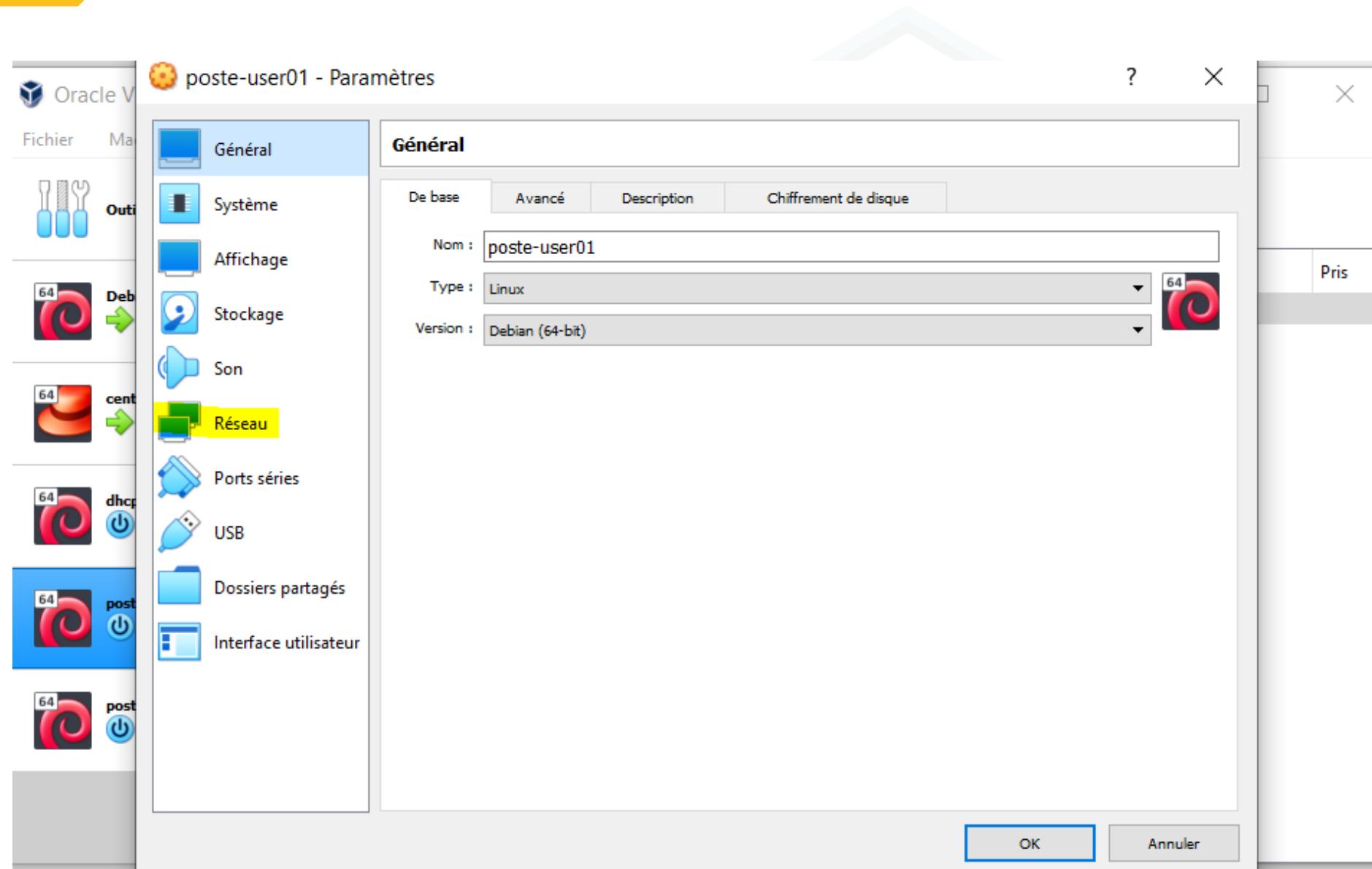
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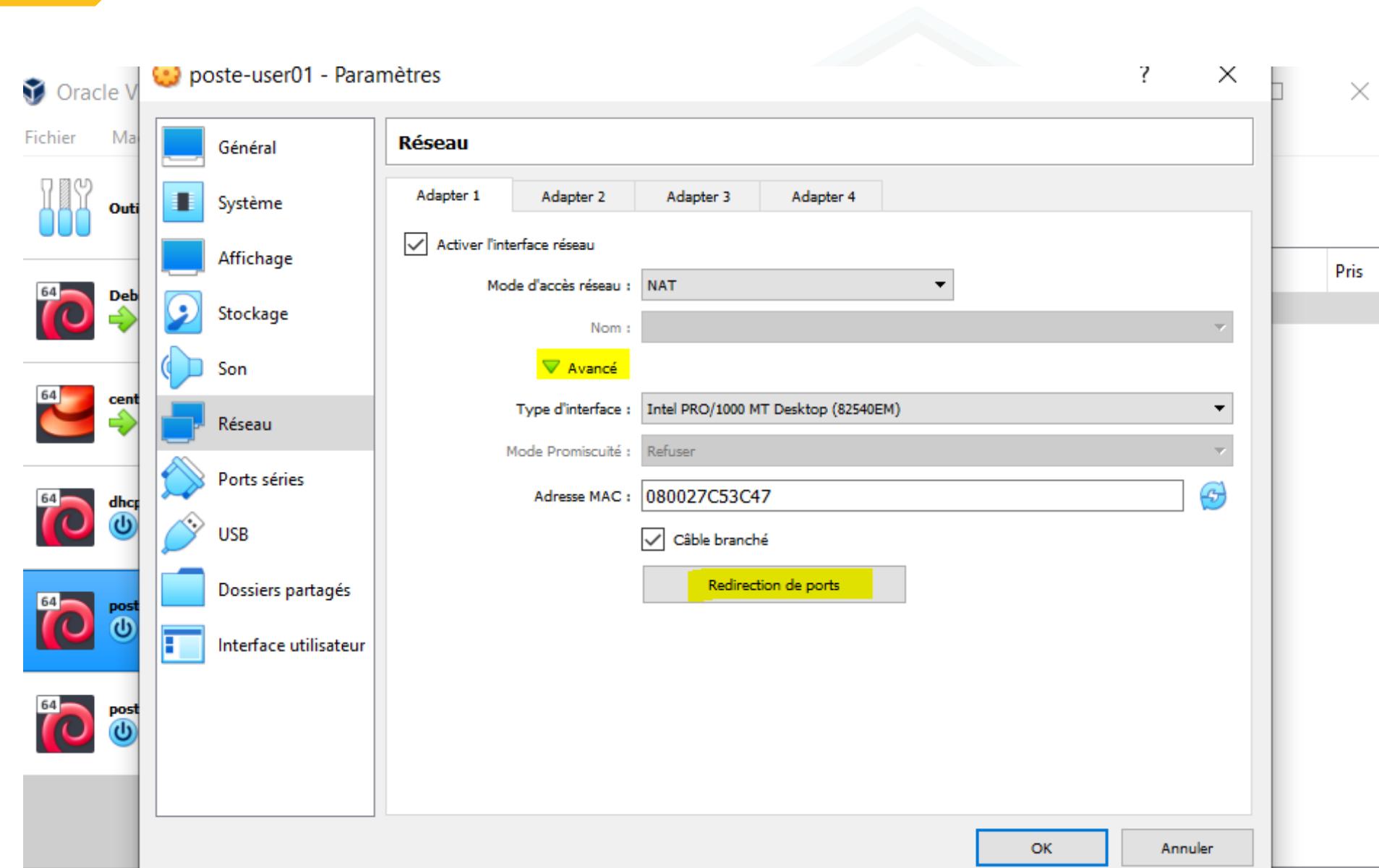
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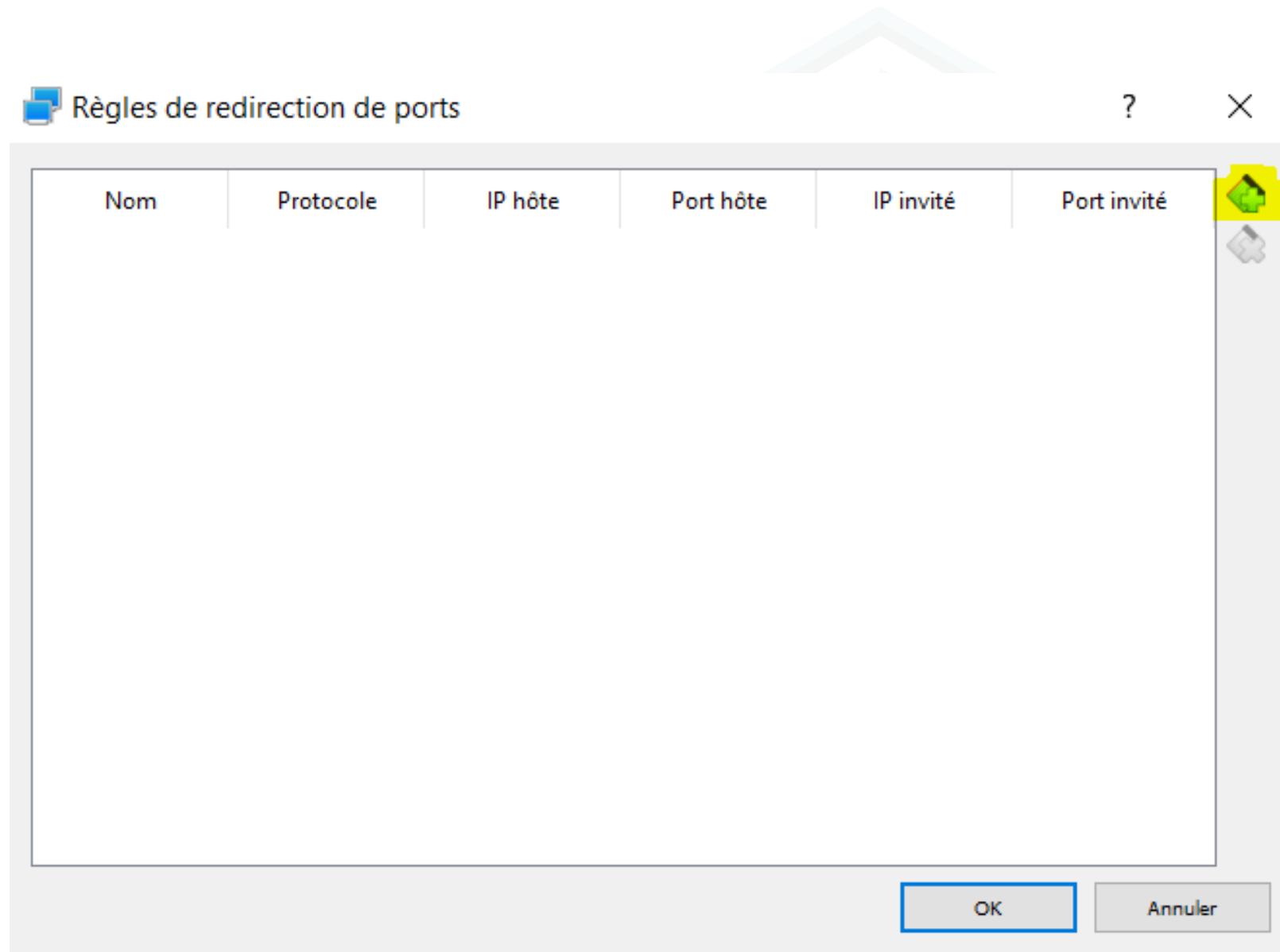
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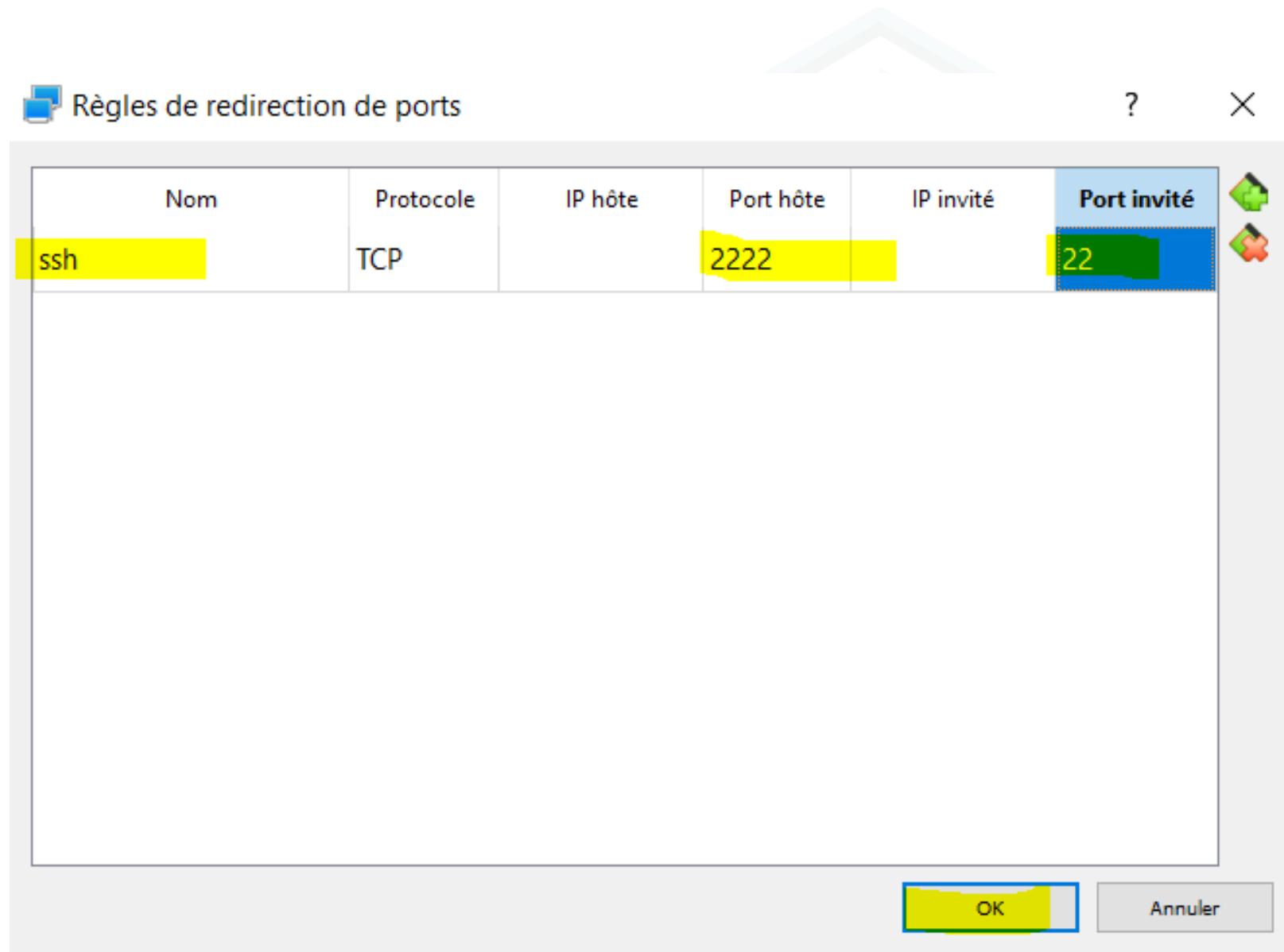
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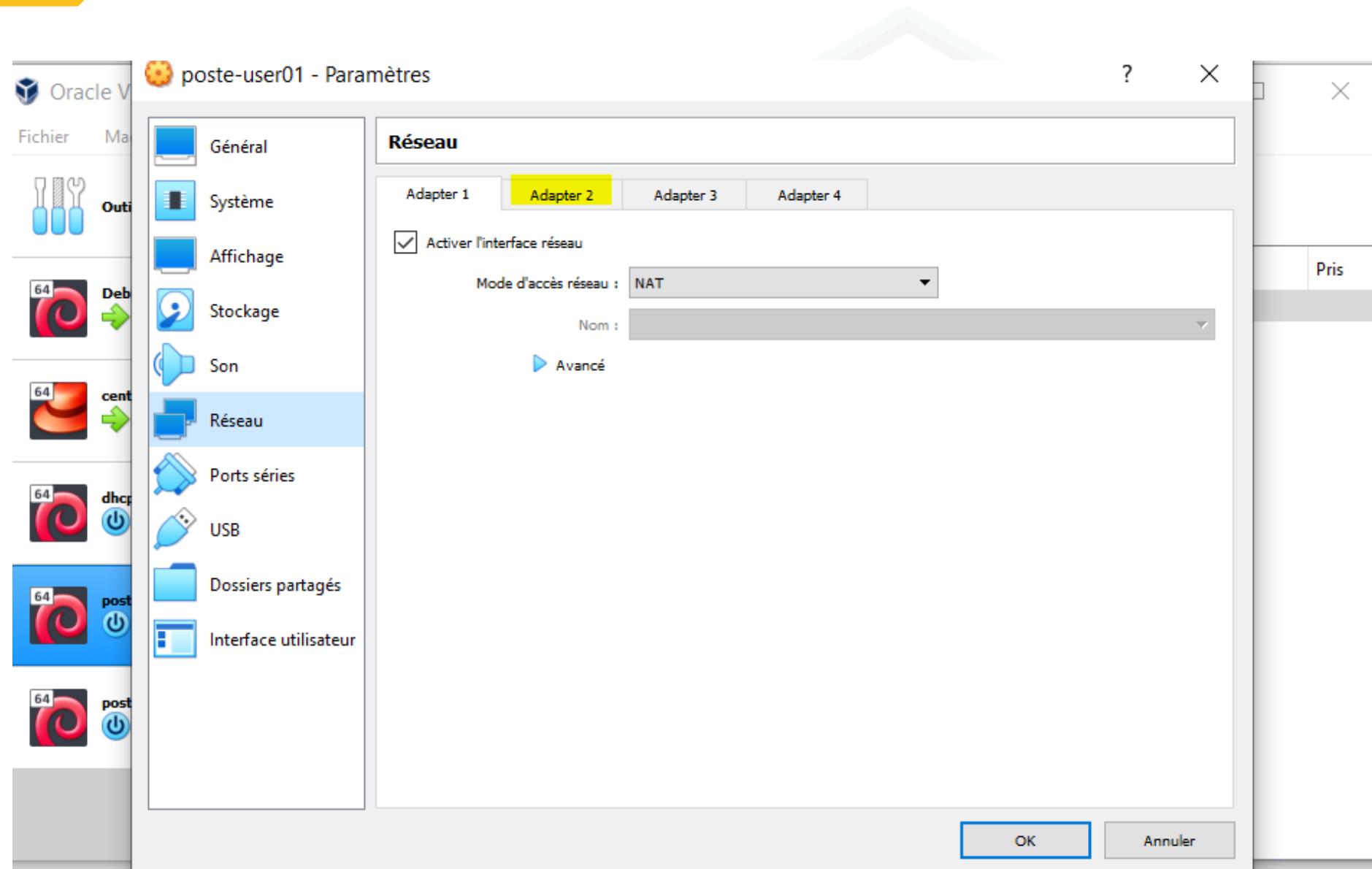
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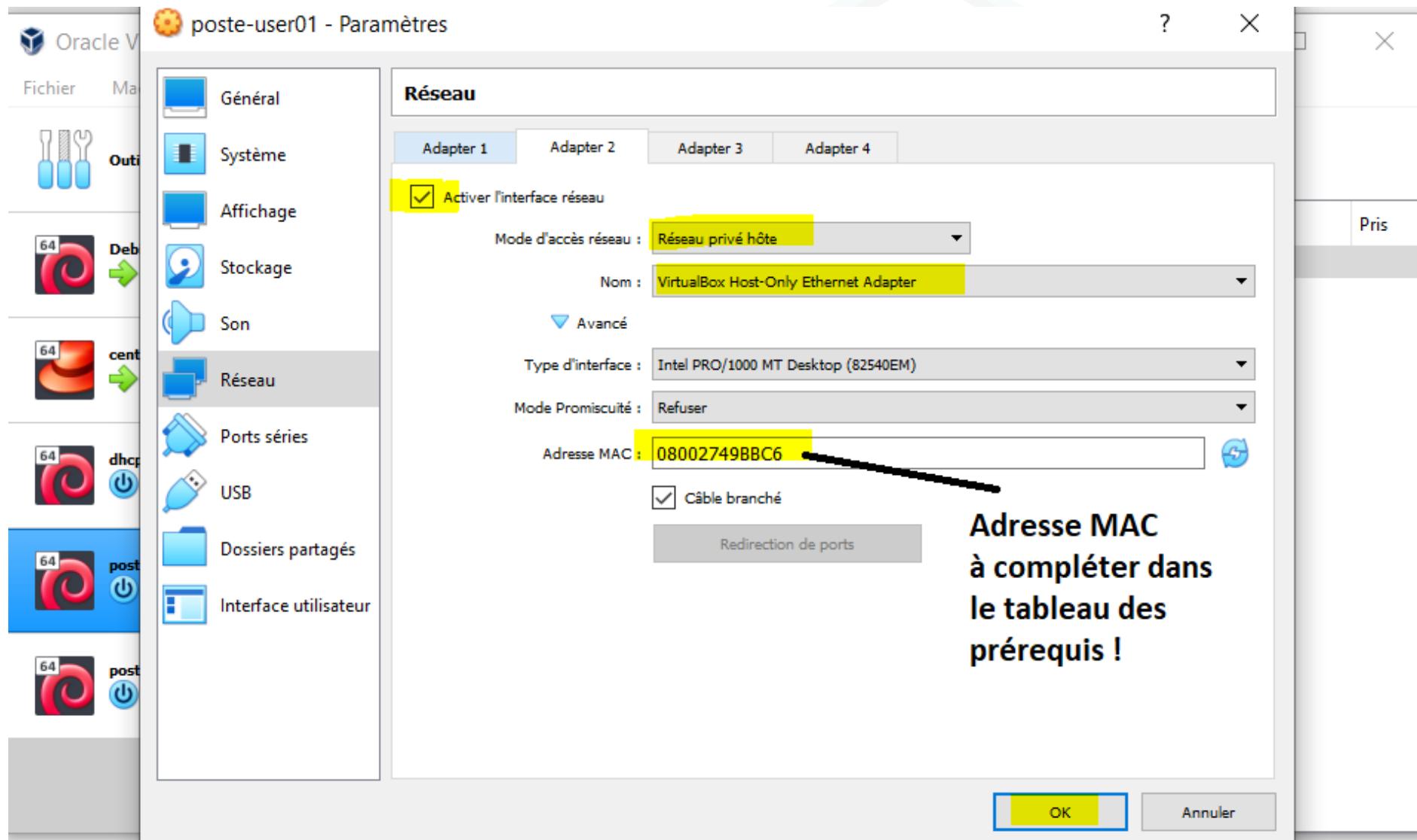
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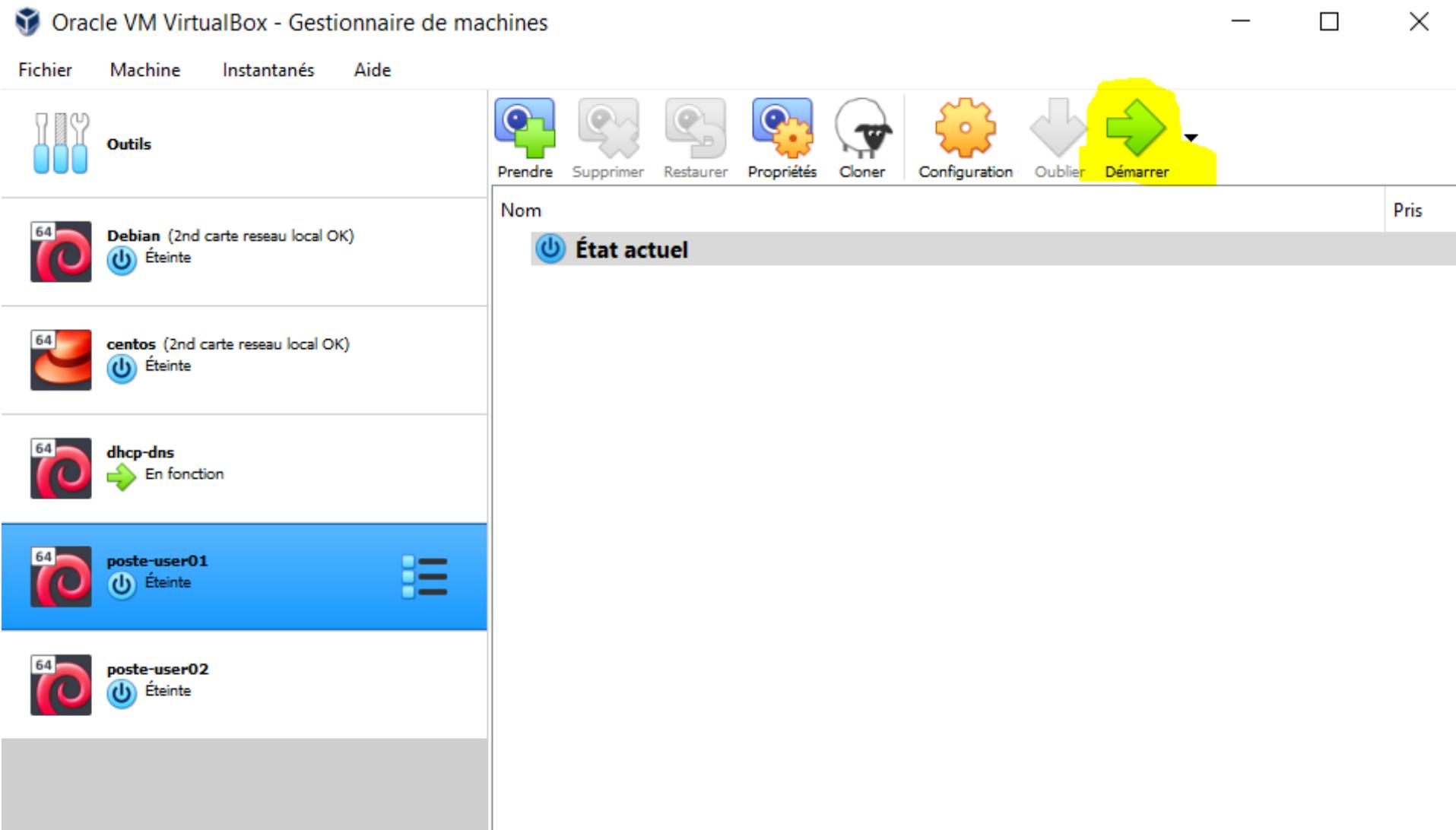
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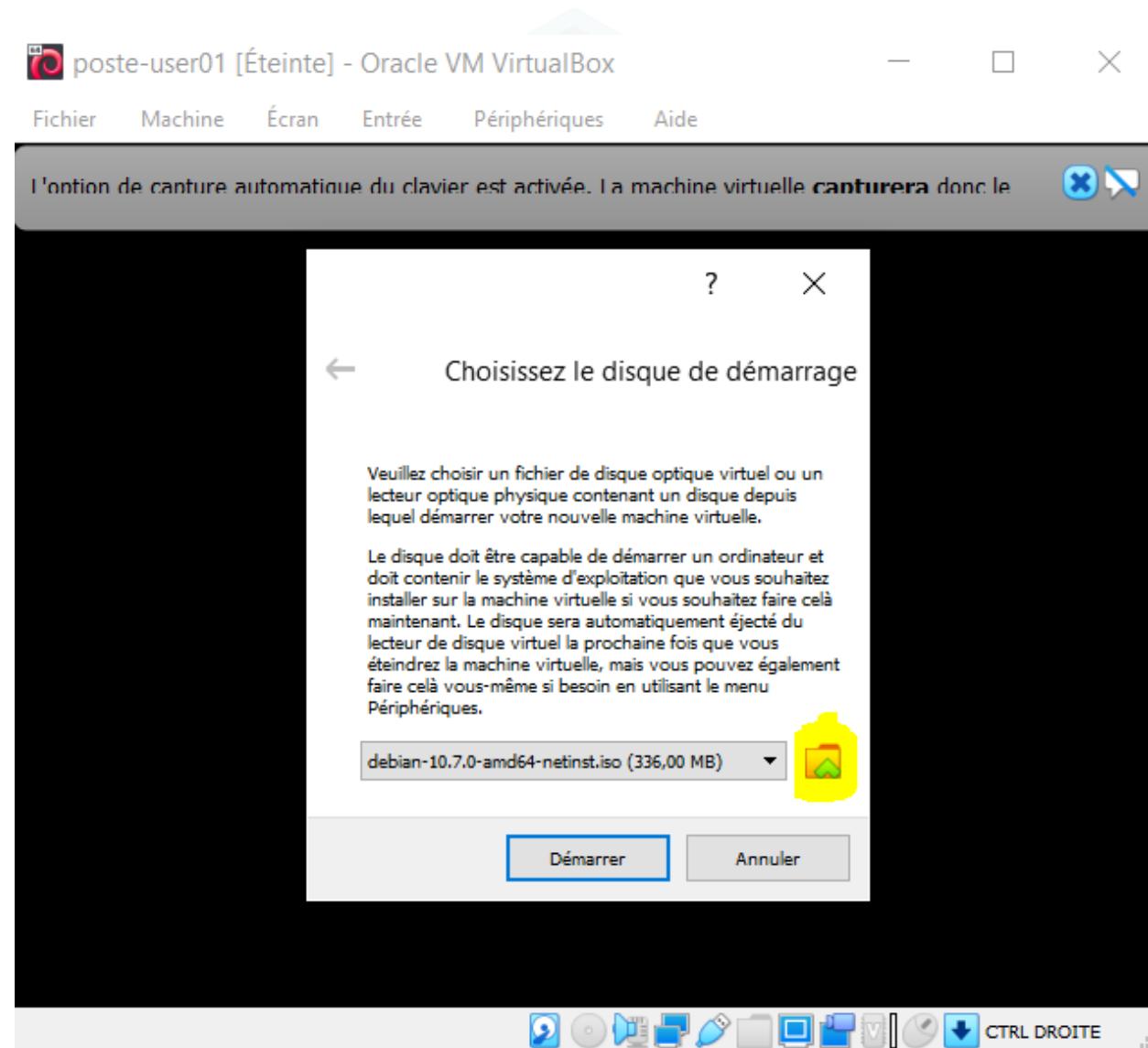
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|--------------------------------|-----------------|----------------|---------|---|---------------|
|                                |                 | Poste Serveurs | OUI NON | ADRESSE MAC                             | ADRESSE IP    |
| Adresse début                  | 192.168.4.100   | user01         | OUI     | 08:00:27:49:BB:C6                       | 192.168.4.150 |
| Adresse de fin                 | 192.168.4.200   | user02         | NON     | A compléter au moment de l'installation | IP DHCP       |
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| Nom                            | Valeur          |                |         |   |               |
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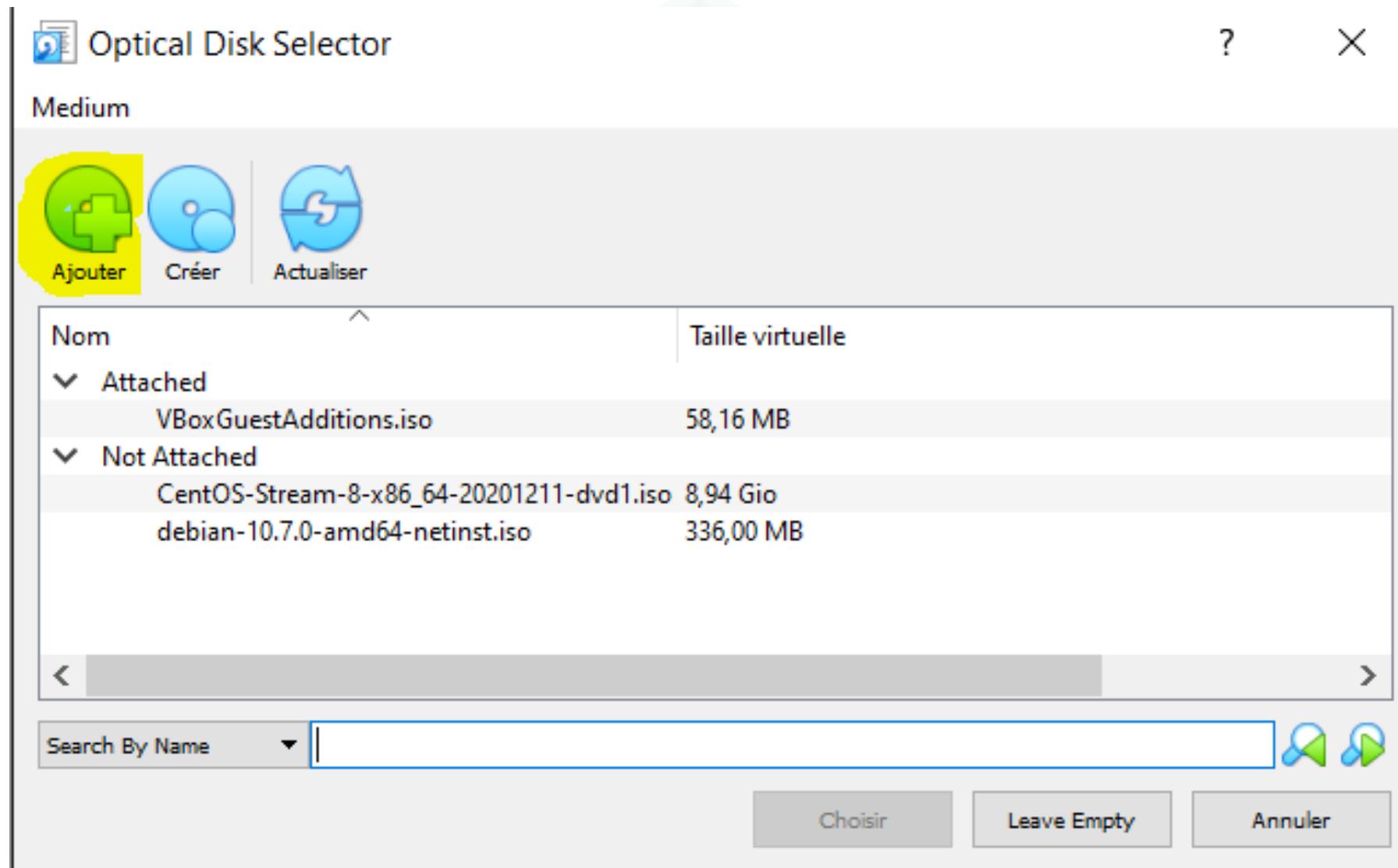
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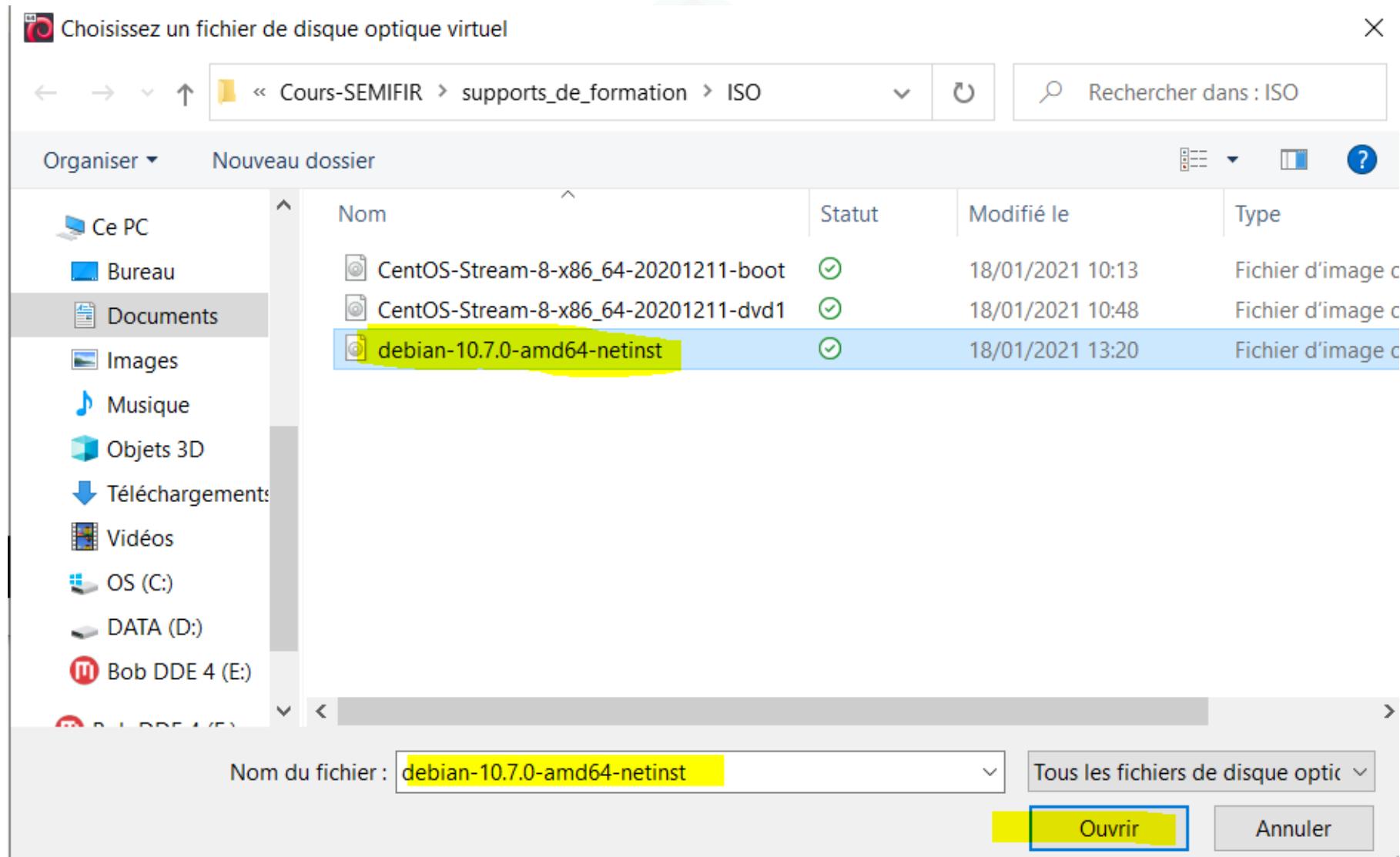
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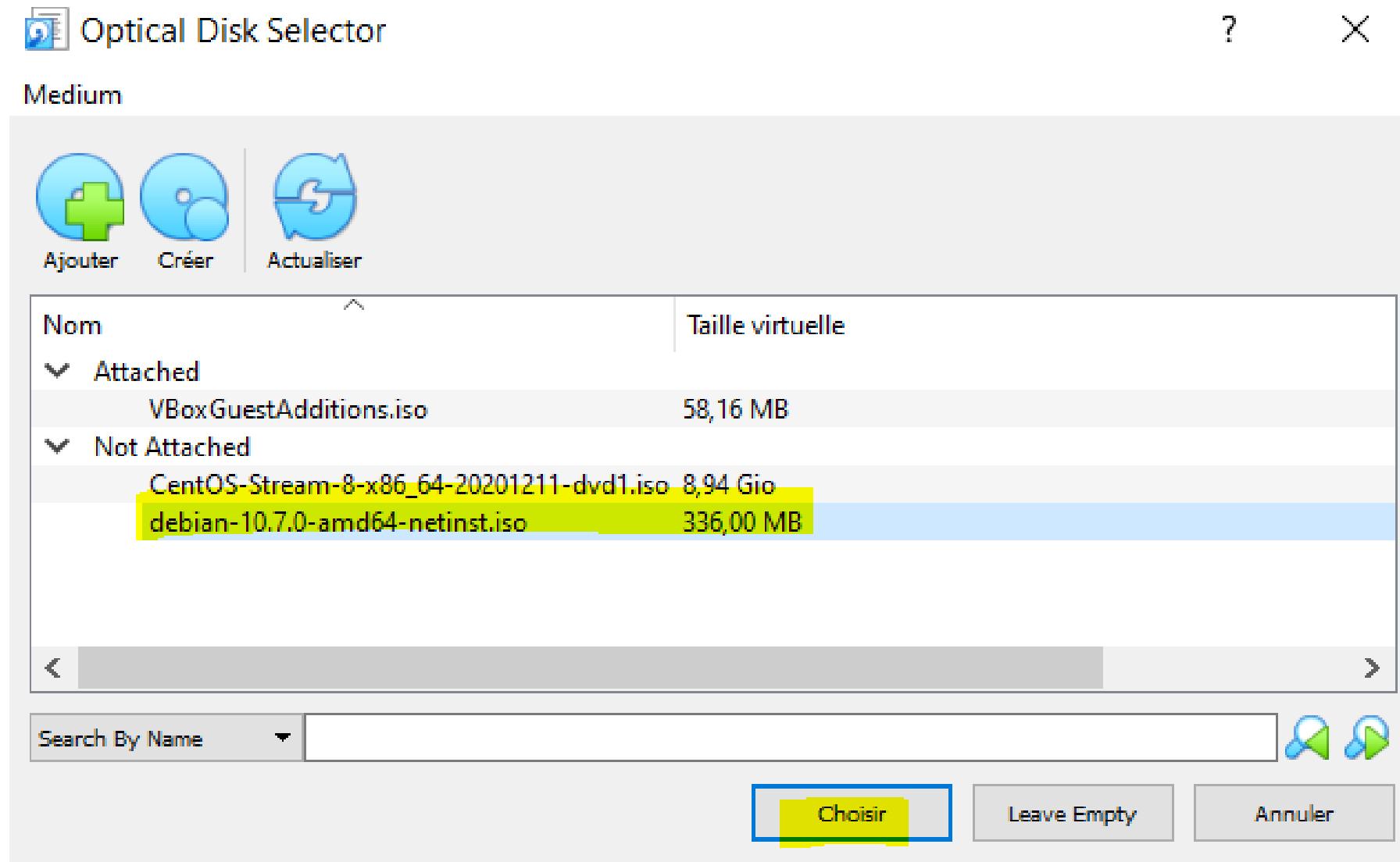
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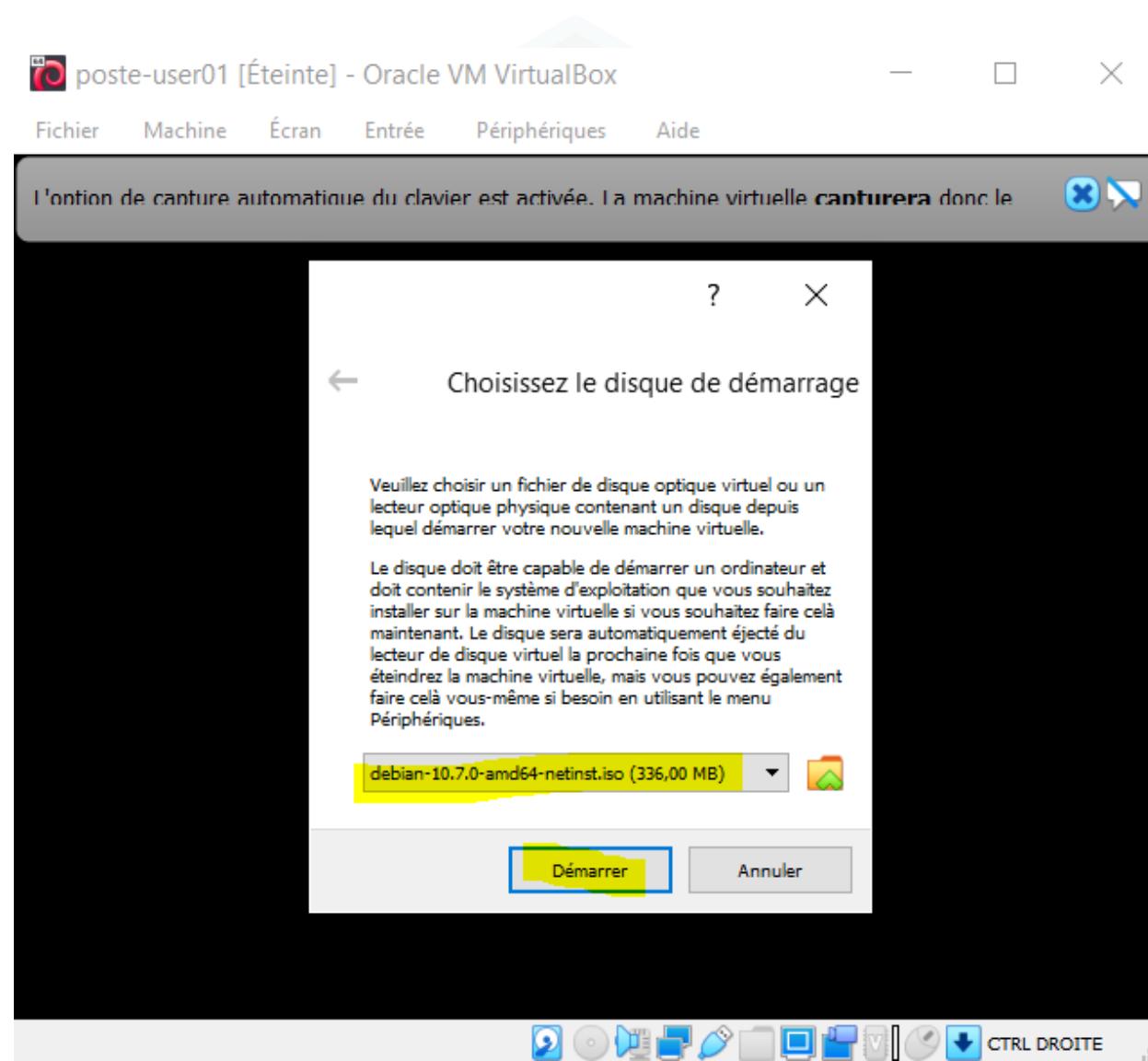
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# Enveloppe VM Poste client user02

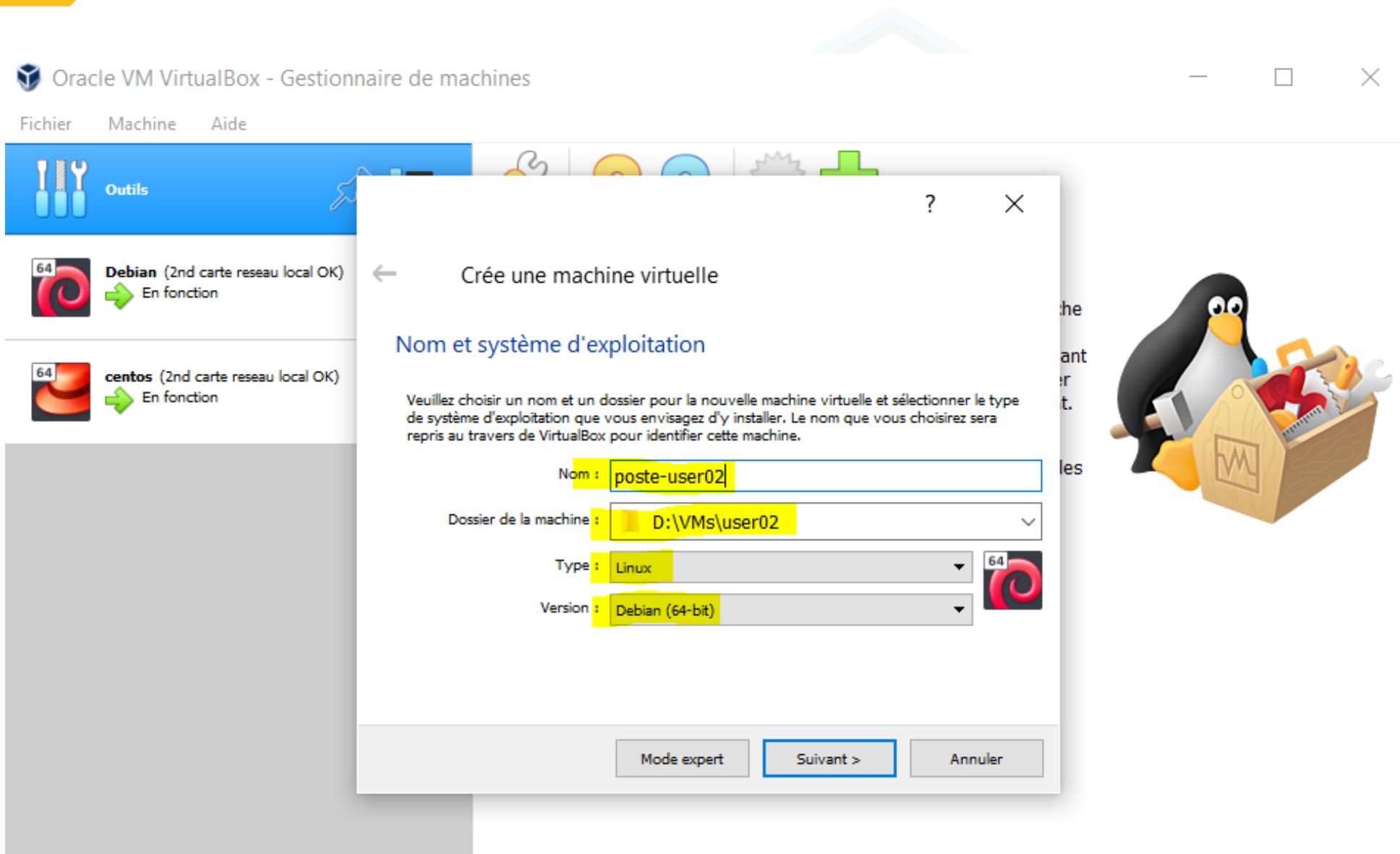
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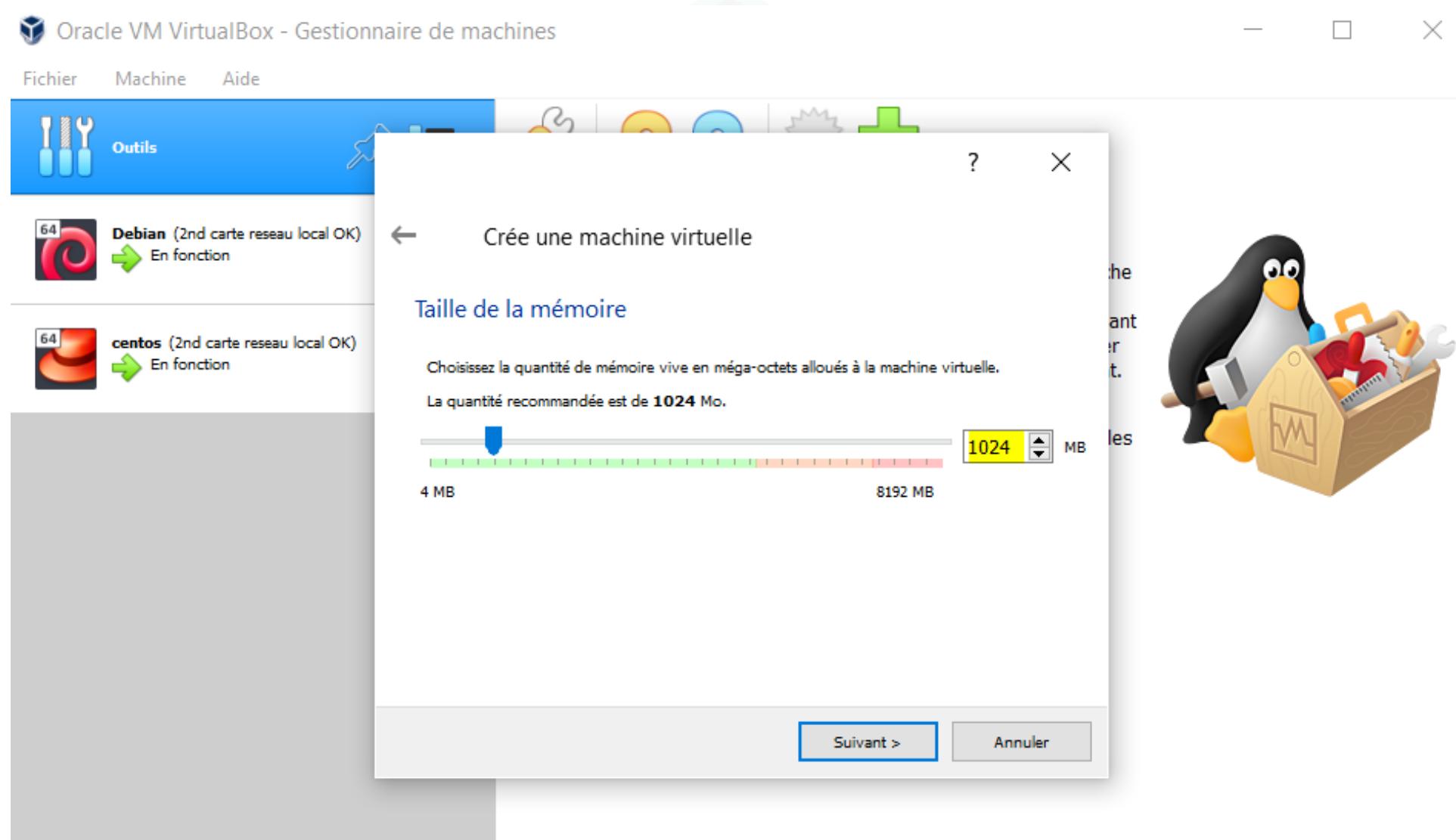
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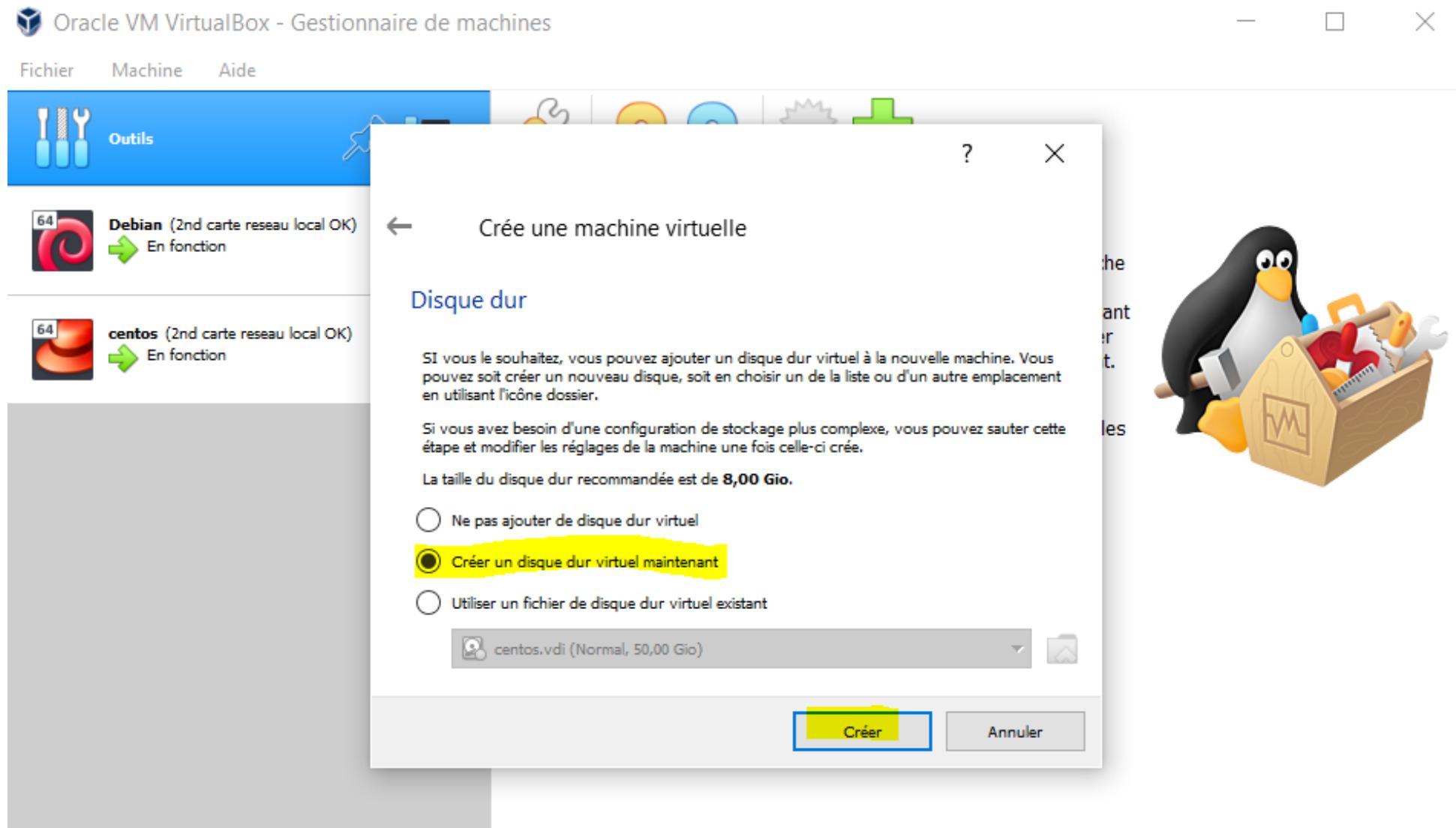
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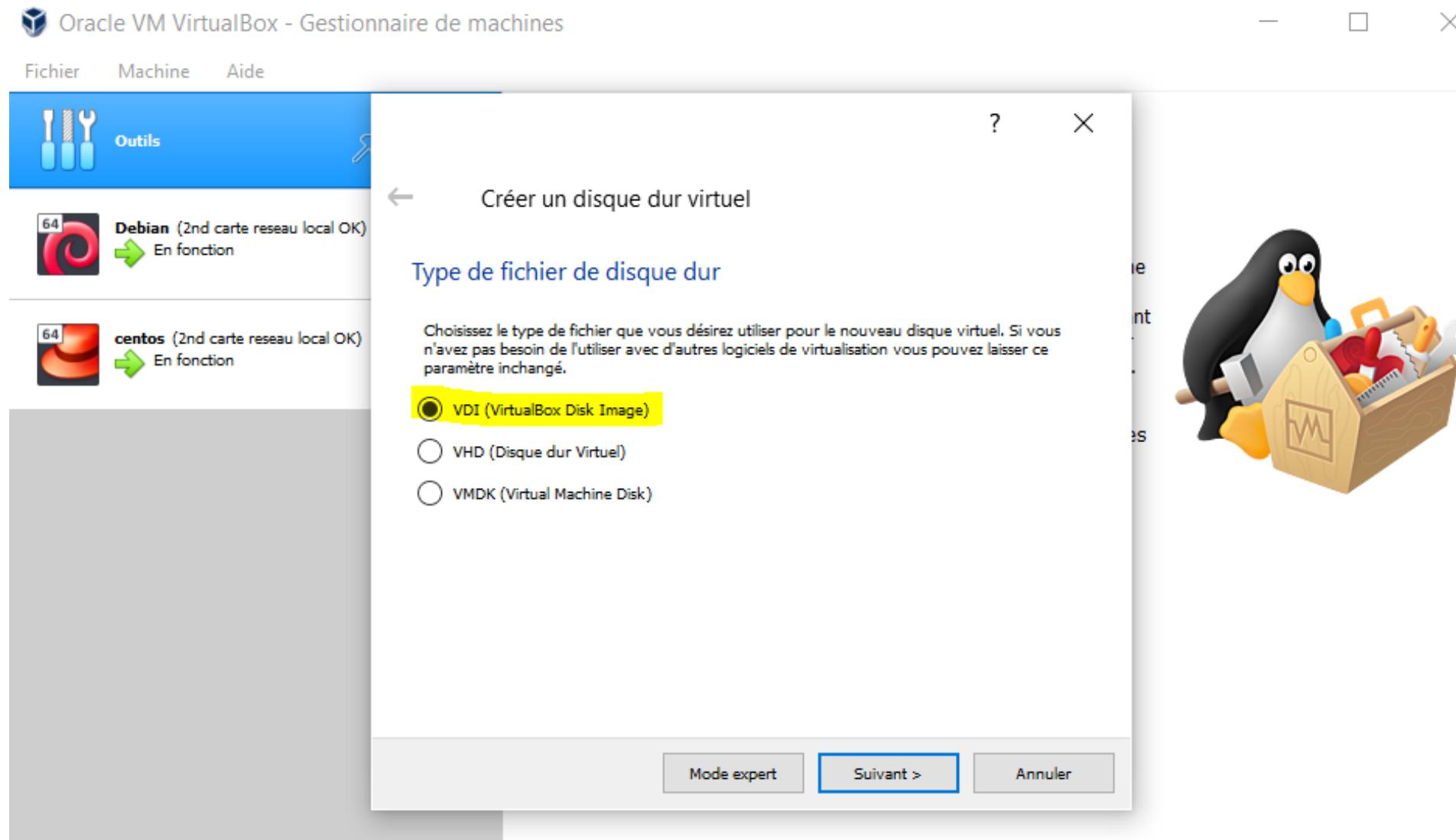
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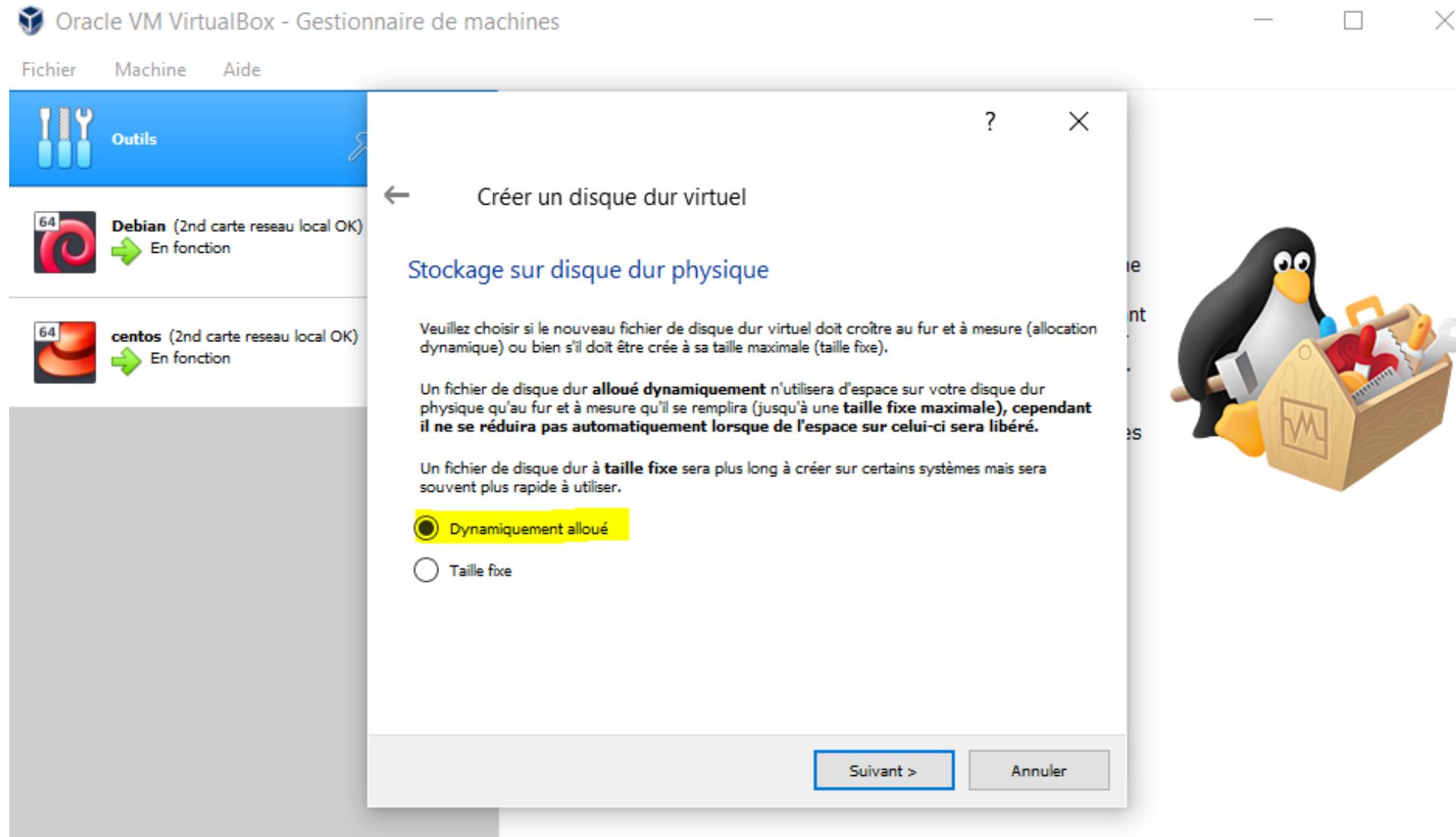
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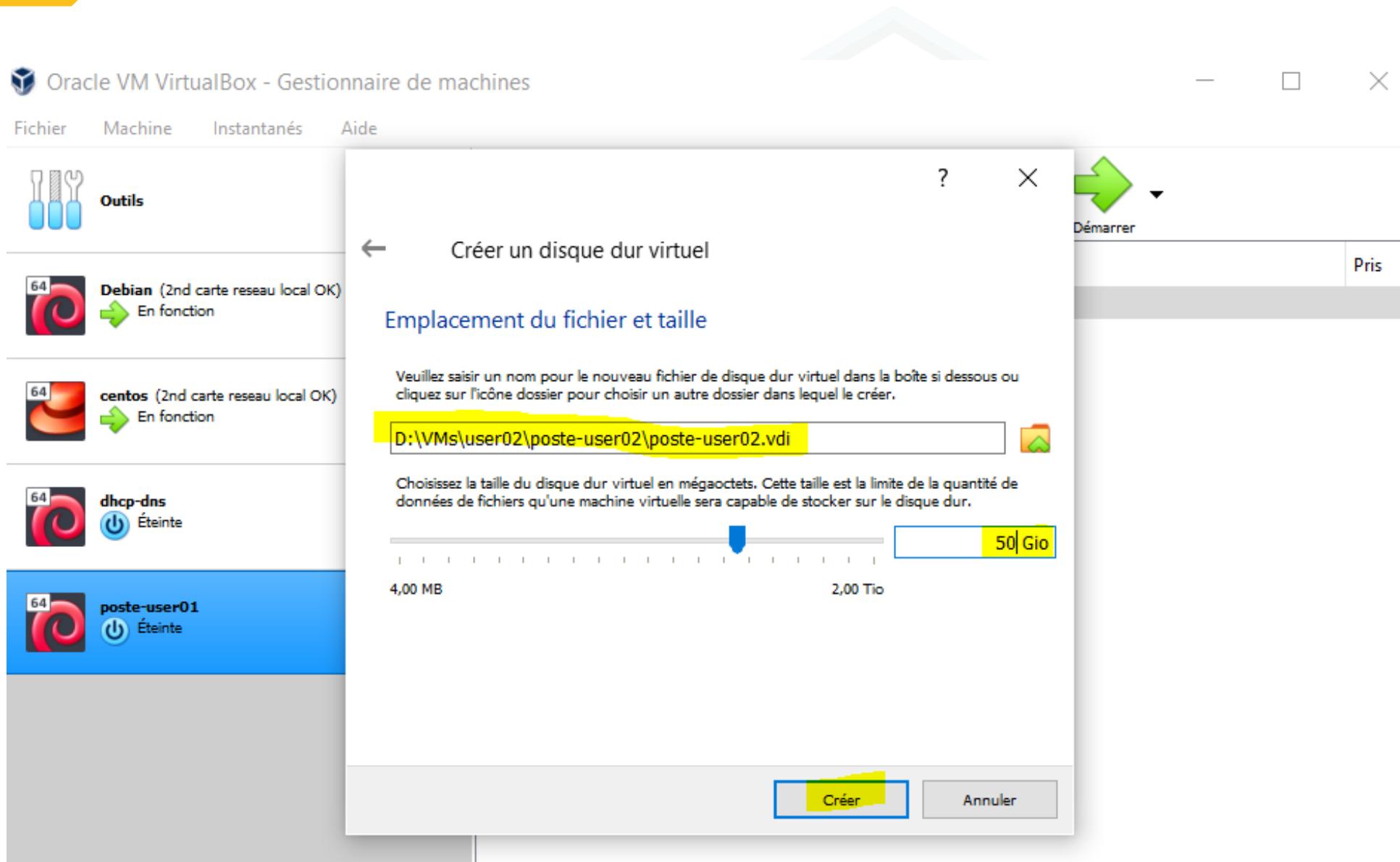
# Préparation des enveloppes VMs (x3) : poste client user02



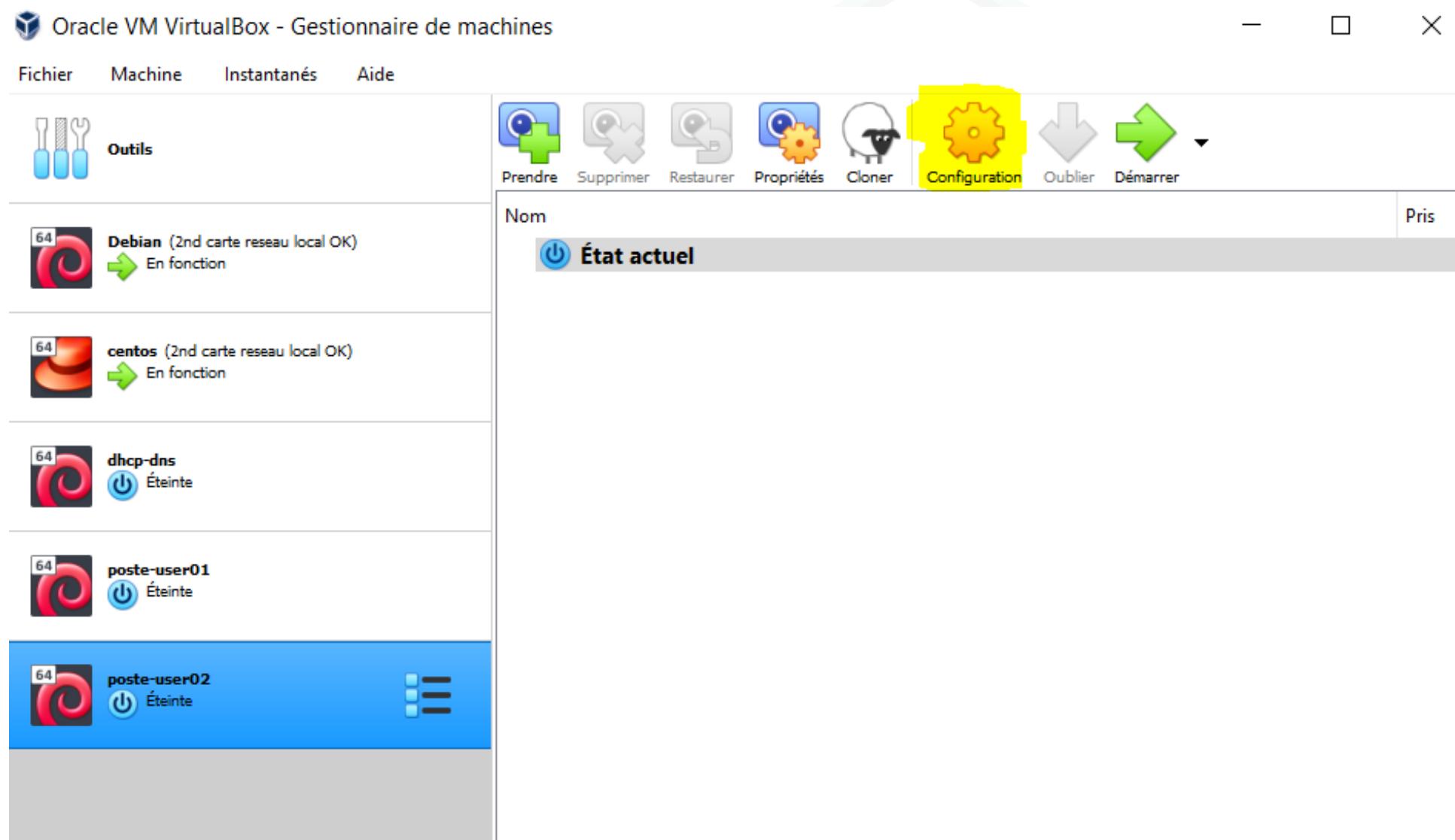
# Préparation des enveloppes VMs (x3) : poste client user02



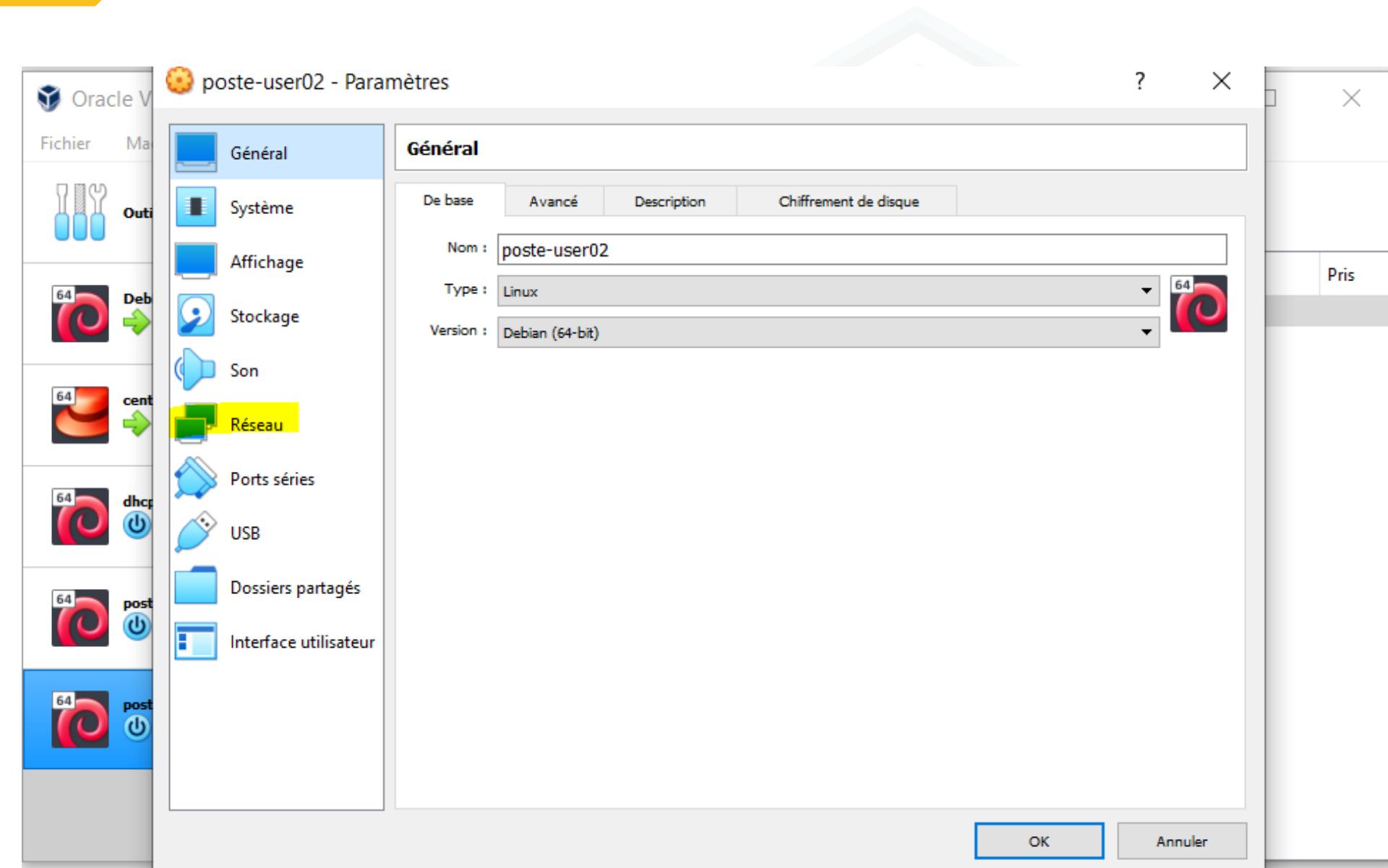
# Préparation des enveloppes VMs (x3) : poste client user02



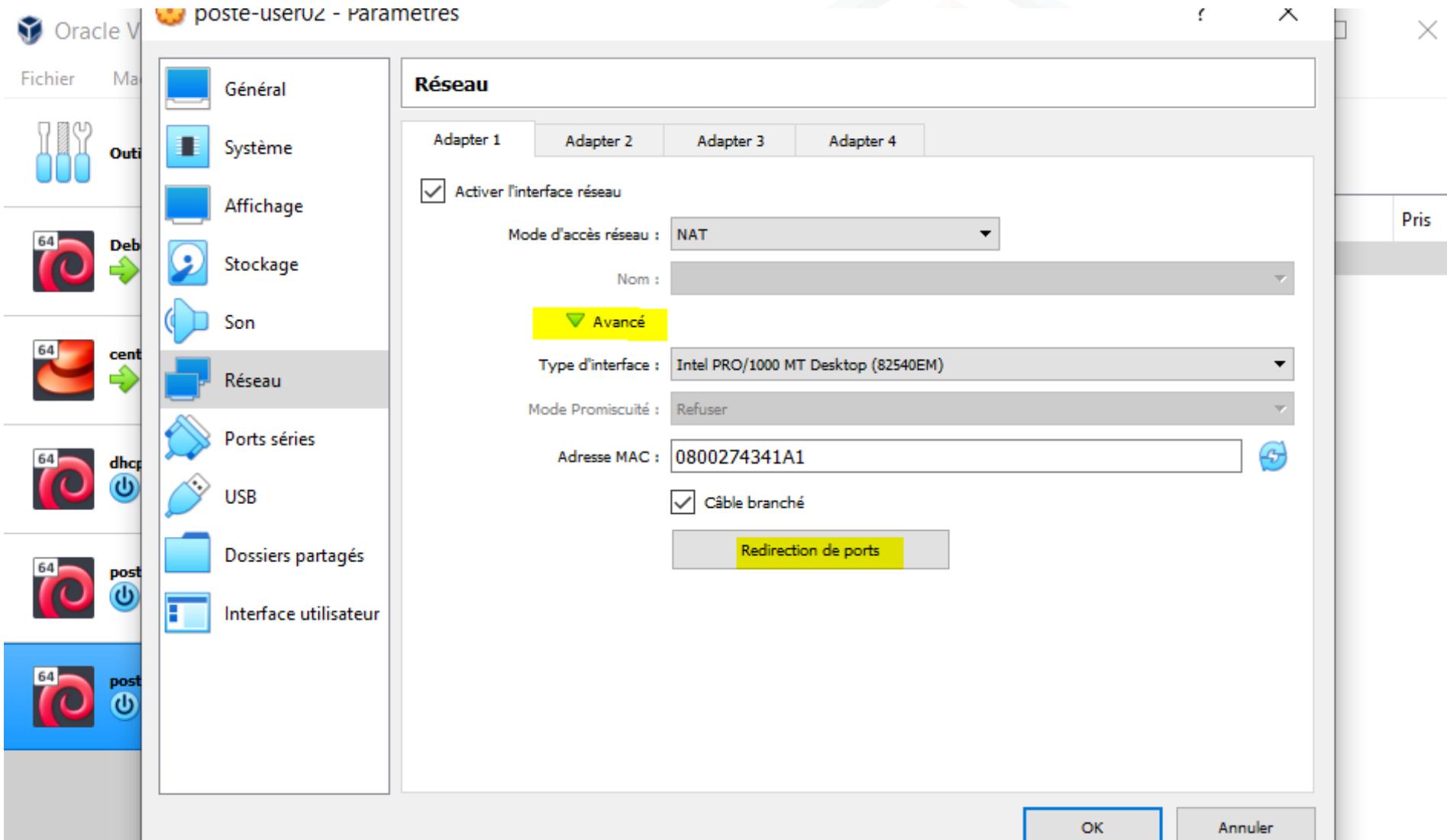
# Préparation des enveloppes VMs (x3) : poste client user02



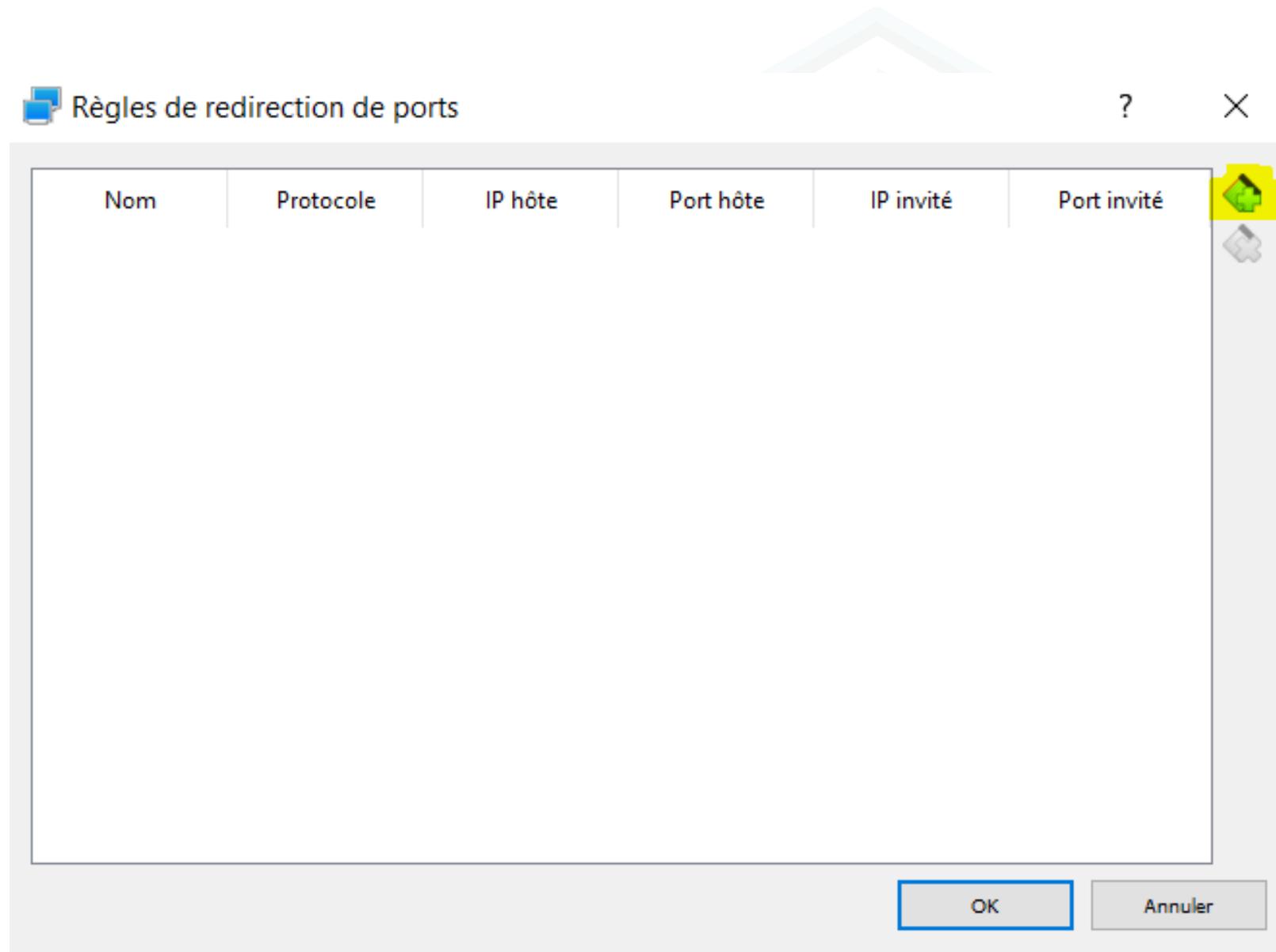
# Préparation des enveloppes VMs (x3) : poste client user02



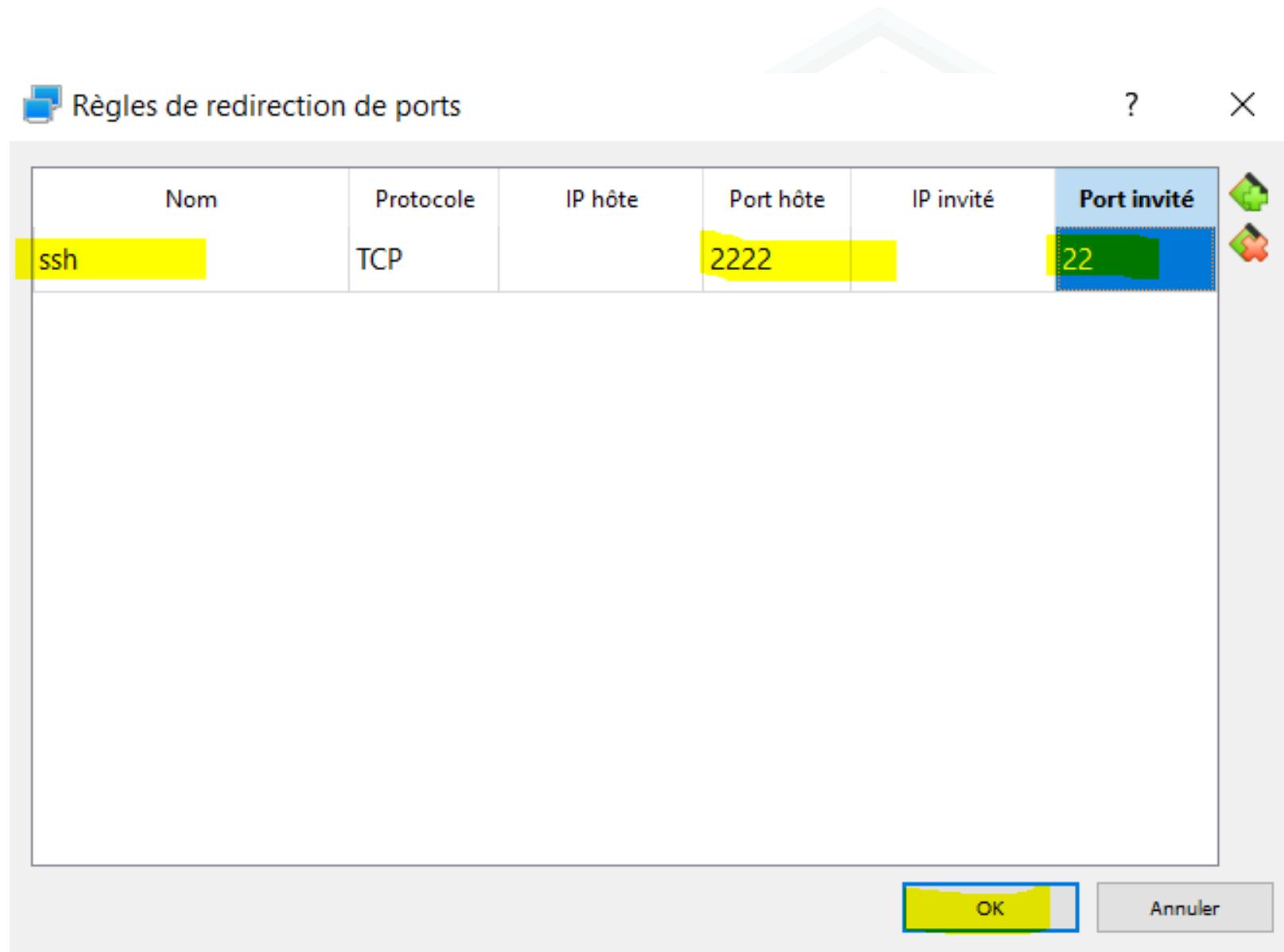
# Préparation des enveloppes VMs (x3) : poste client user02



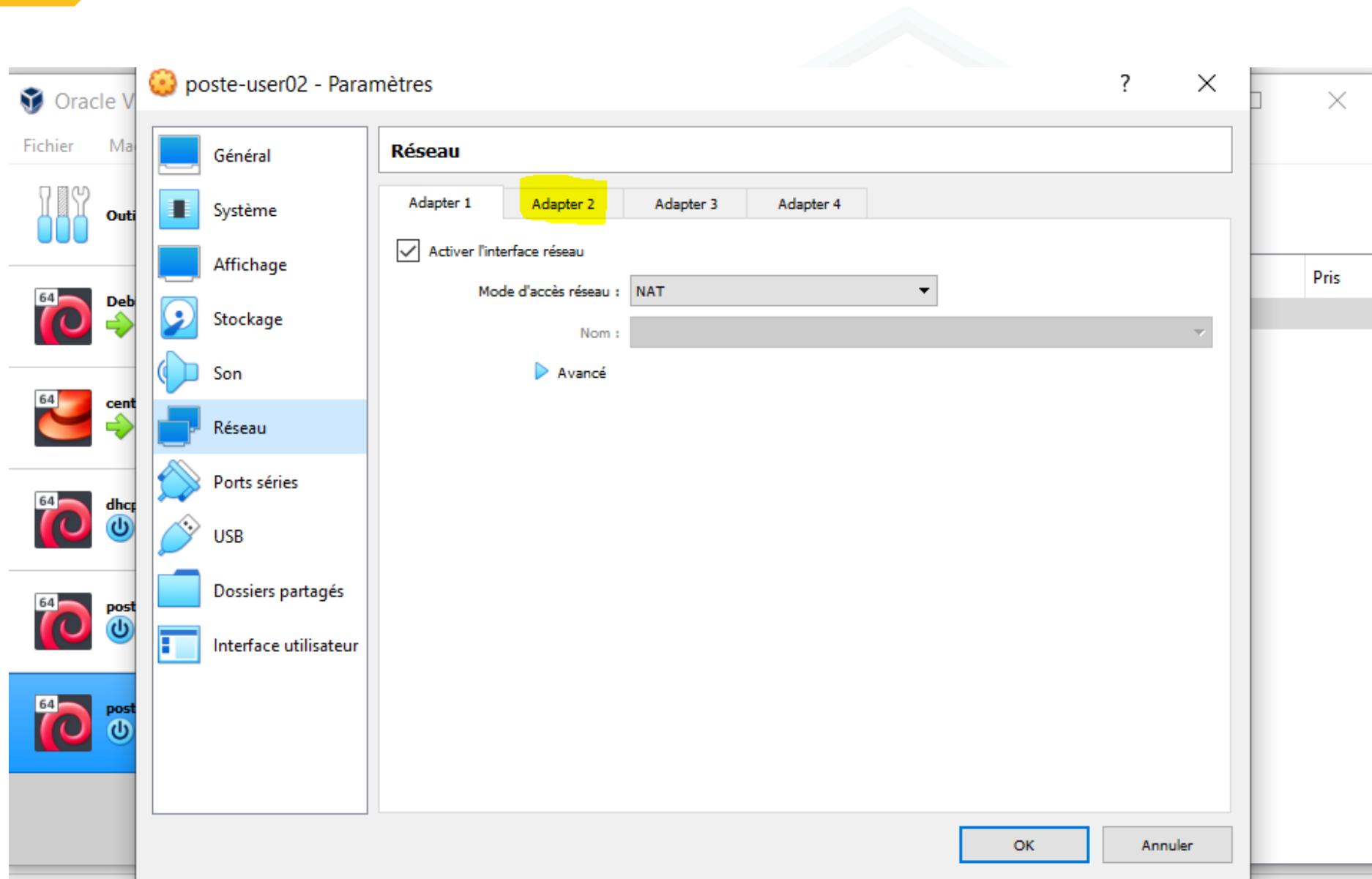
# Préparation des enveloppes VMs (x3) : poste client user02



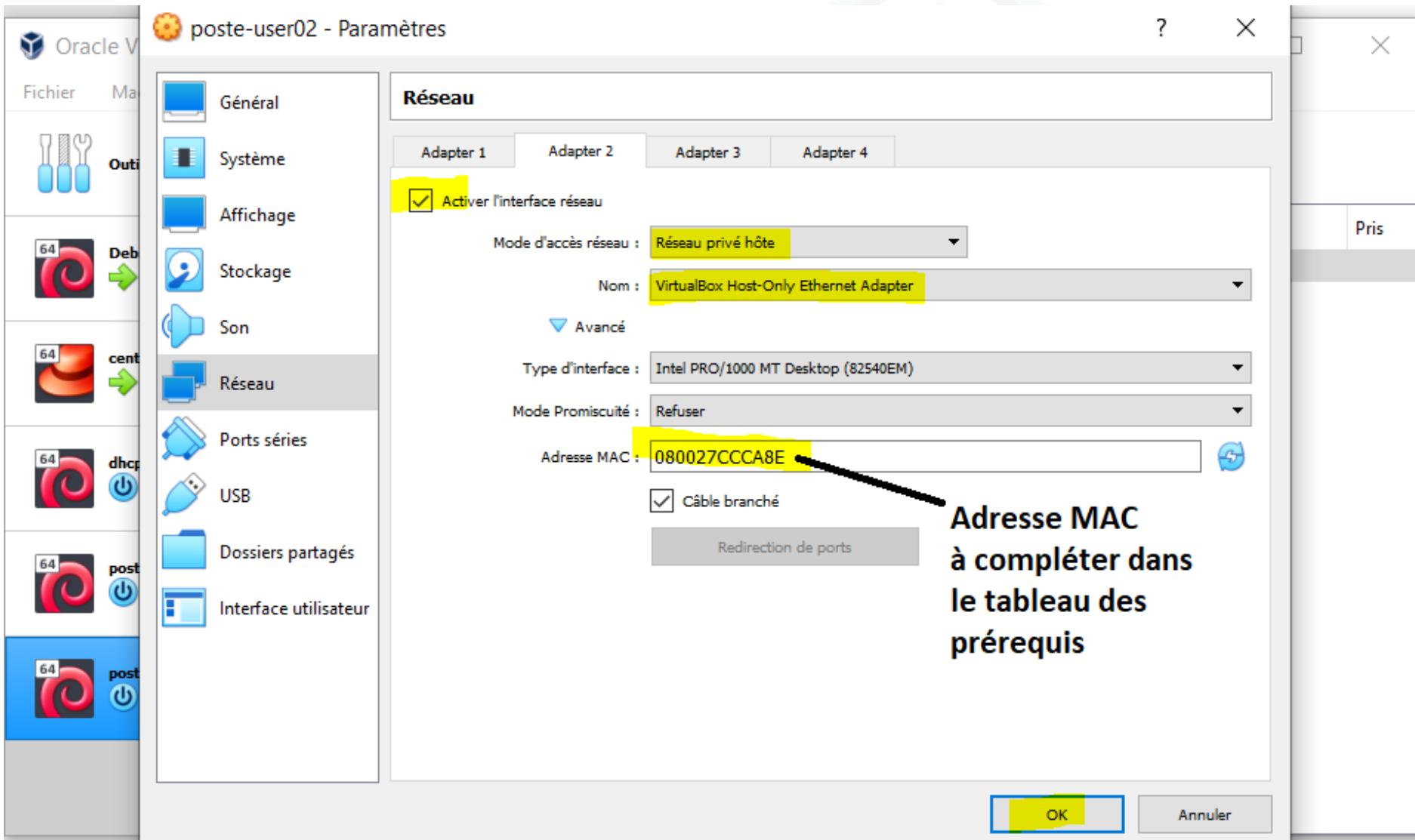
# Préparation des enveloppes VMs (x3) : poste client user02



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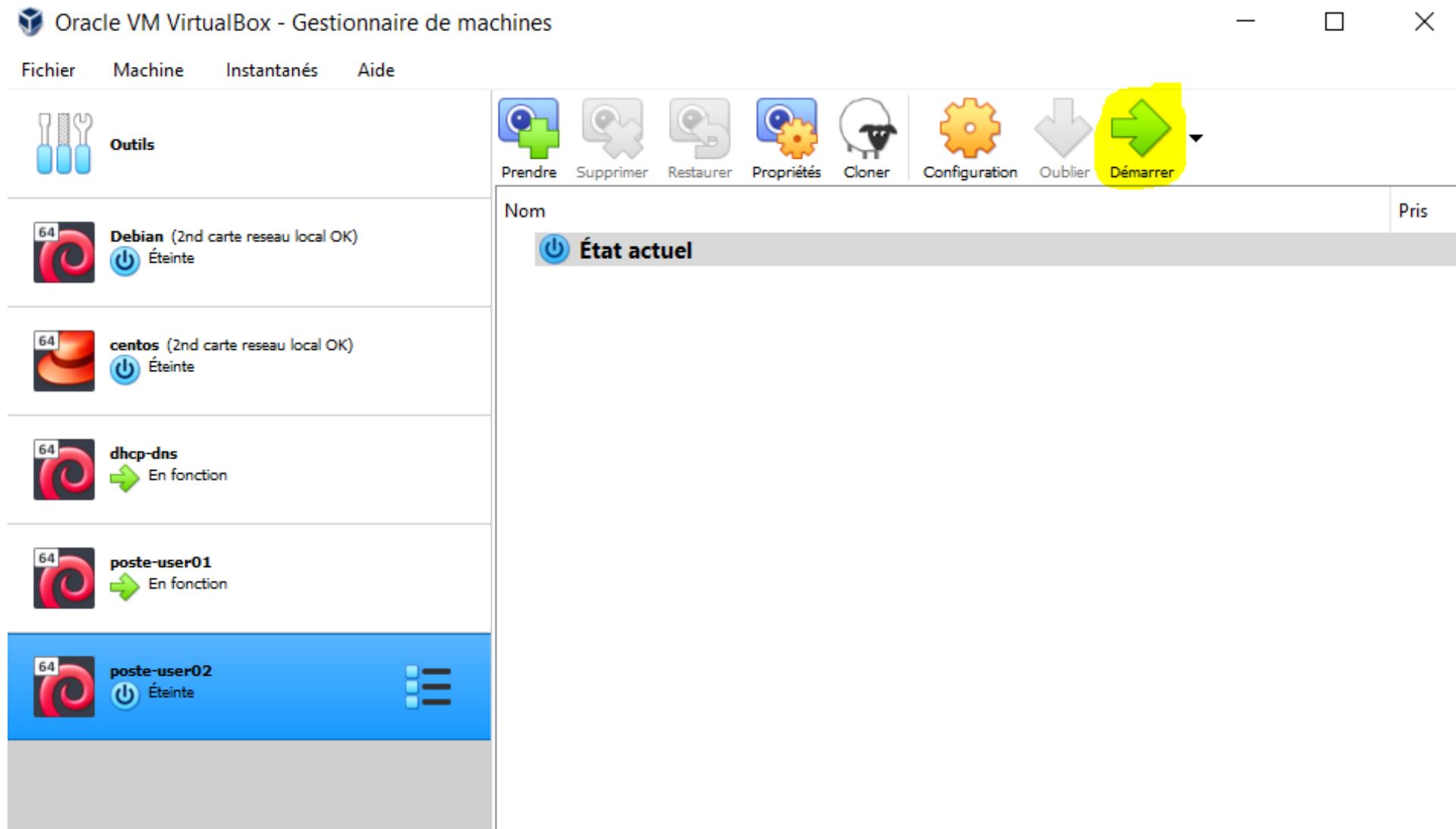
# Préparation des enveloppes VMs (x3) : poste client user02



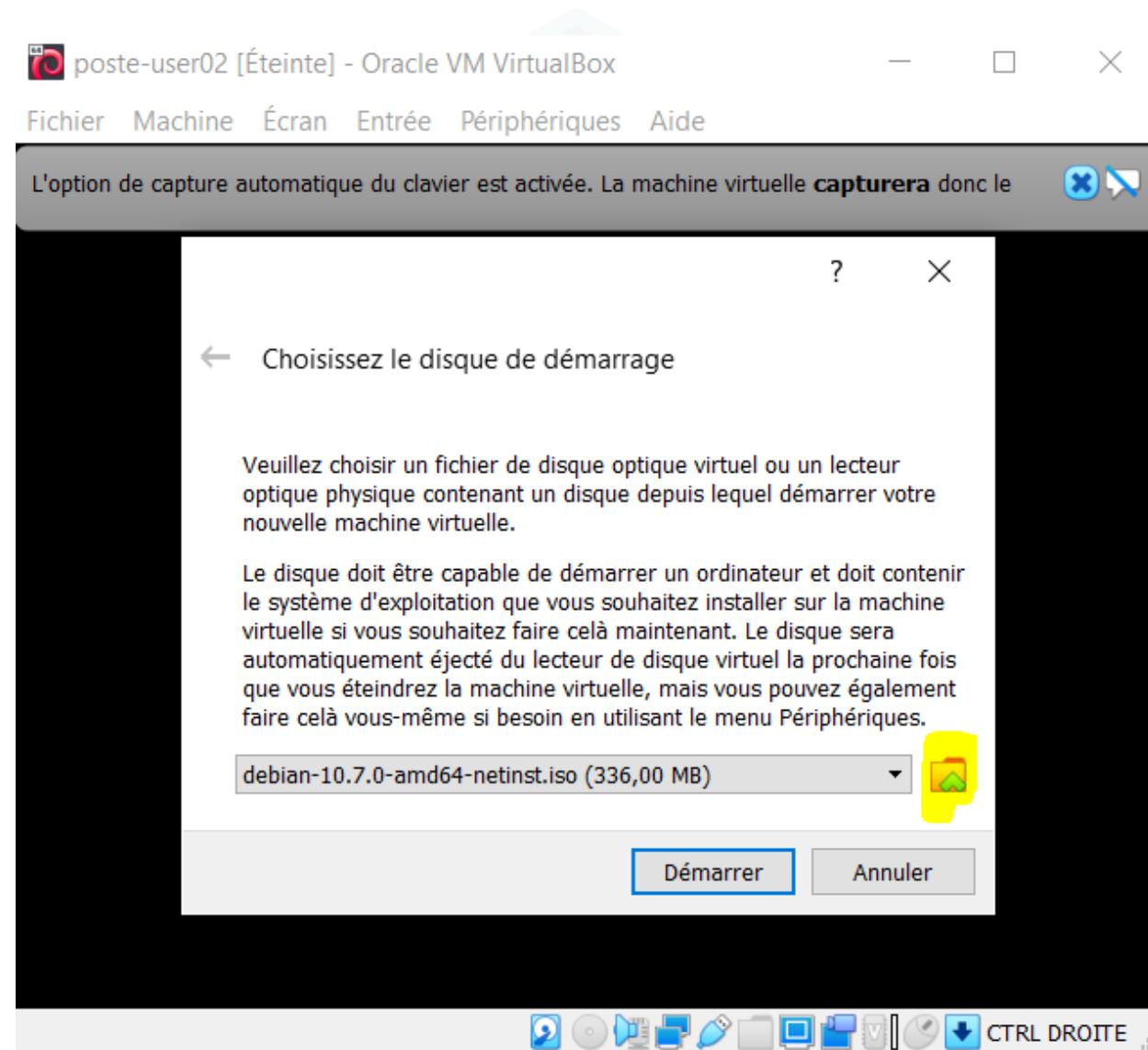
# Prérequis : Définir le plan d'adressage (MAJ)

| Réseau : 192.168.4.0/24        |                 | Réservations   |         |                   |               |
|--------------------------------|-----------------|----------------|---------|-------------------|---------------|
|                                |                 | Poste Serveurs | OUI NON | ADRESSE MAC       | ADRESSE IP    |
| Adresse début                  | 192.168.4.100   | user01         | OUI     | 08:00:27:49:BB:C6 | 192.168.4.150 |
| Adresse de fin                 | 192.168.4.200   | user02         | NON     | 08:00:27:CC:CA:8E | IP DHCP       |
| Masque                         | 255.255.255.0   |                |         |                   |               |
| Durée du bail                  | 3600 secondes   |                |         |                   |               |
| <b>Options DHCP d'étendue</b>  |                 |                |         |                   |               |
| Nom                            | Valeur          |                |         |                   |               |
| Serveur DHCP                   | 192.168.4.10    |                |         |                   |               |
| Passerelle (PC)                | 192.168.4.1     |                |         | 08:00:27:16:FC:C4 |               |
| Routeur NAT                    | Box internet    |                |         |                   |               |
| <b>Options DHCP de serveur</b> |                 |                |         |                   |               |
| Nom                            | Valeur          |                |         |                   |               |
| Serveur DNS                    | 192.168.4.1     |                |         |                   | Idem          |
| Domaine                        | formation.local |                |         |                   |               |

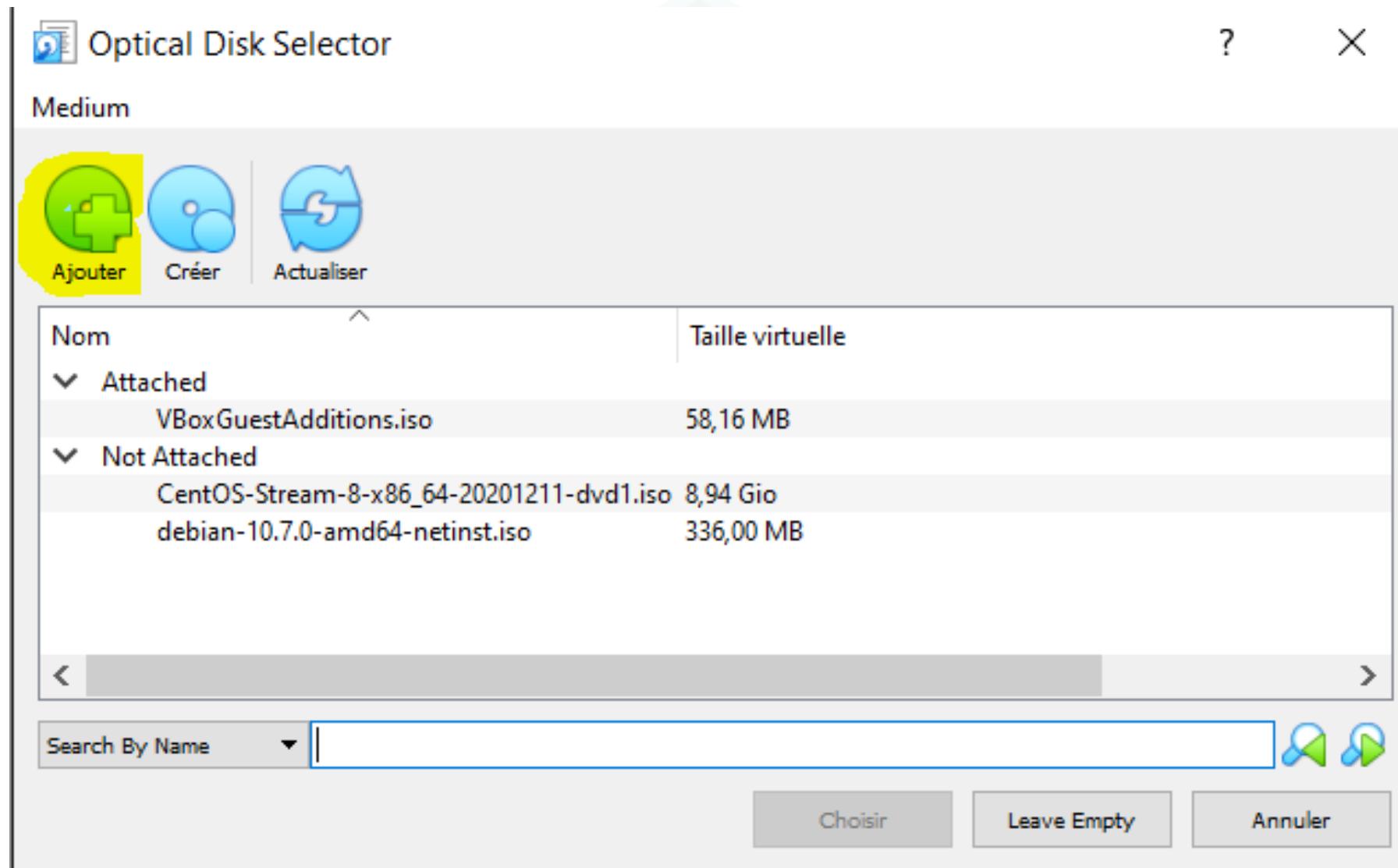
# Préparation des enveloppes VMs (x3) : poste client user02



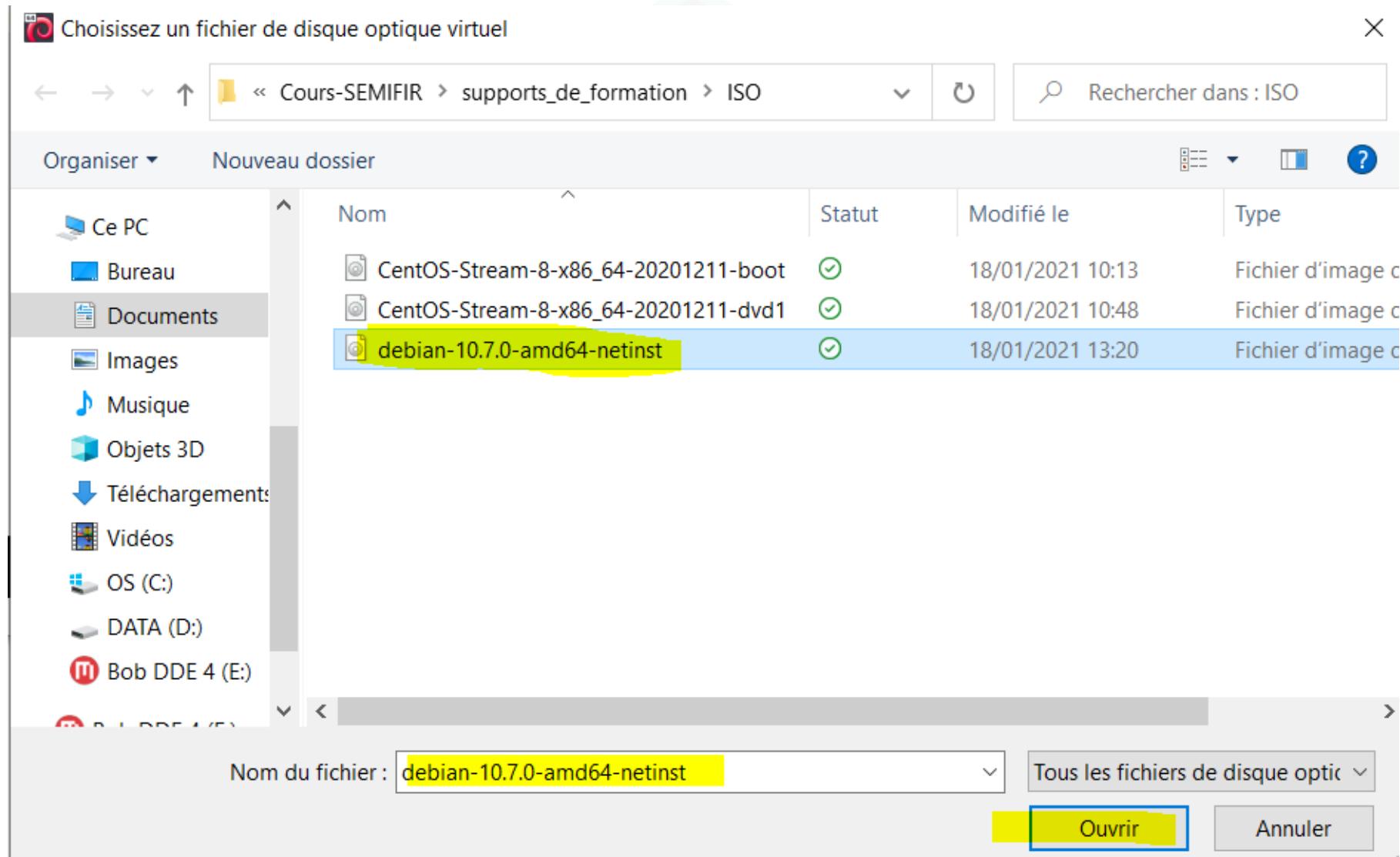
# Préparation des enveloppes VMs (x3) : poste client user02



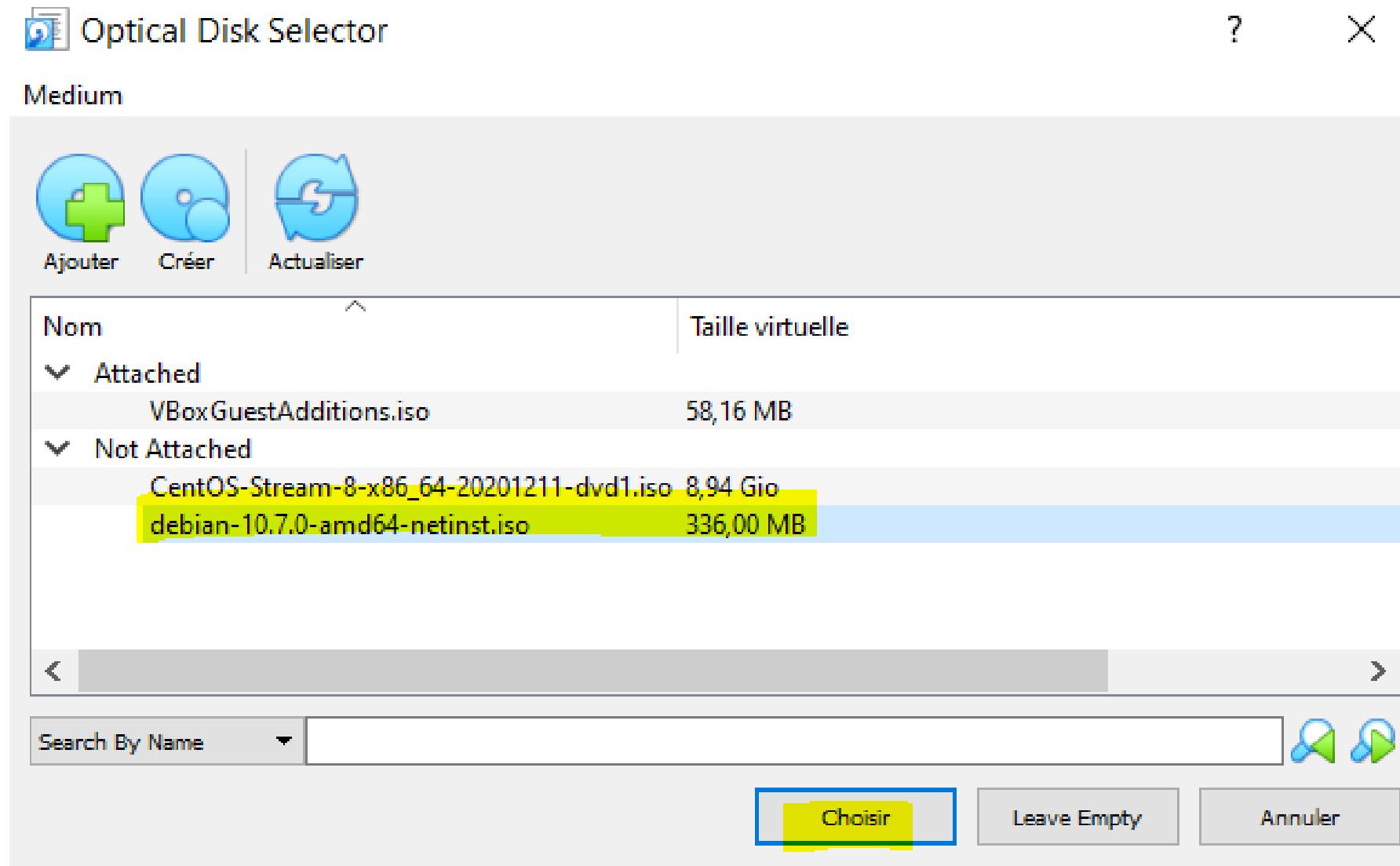
# Préparation des enveloppes VMs (x3) : poste client user02



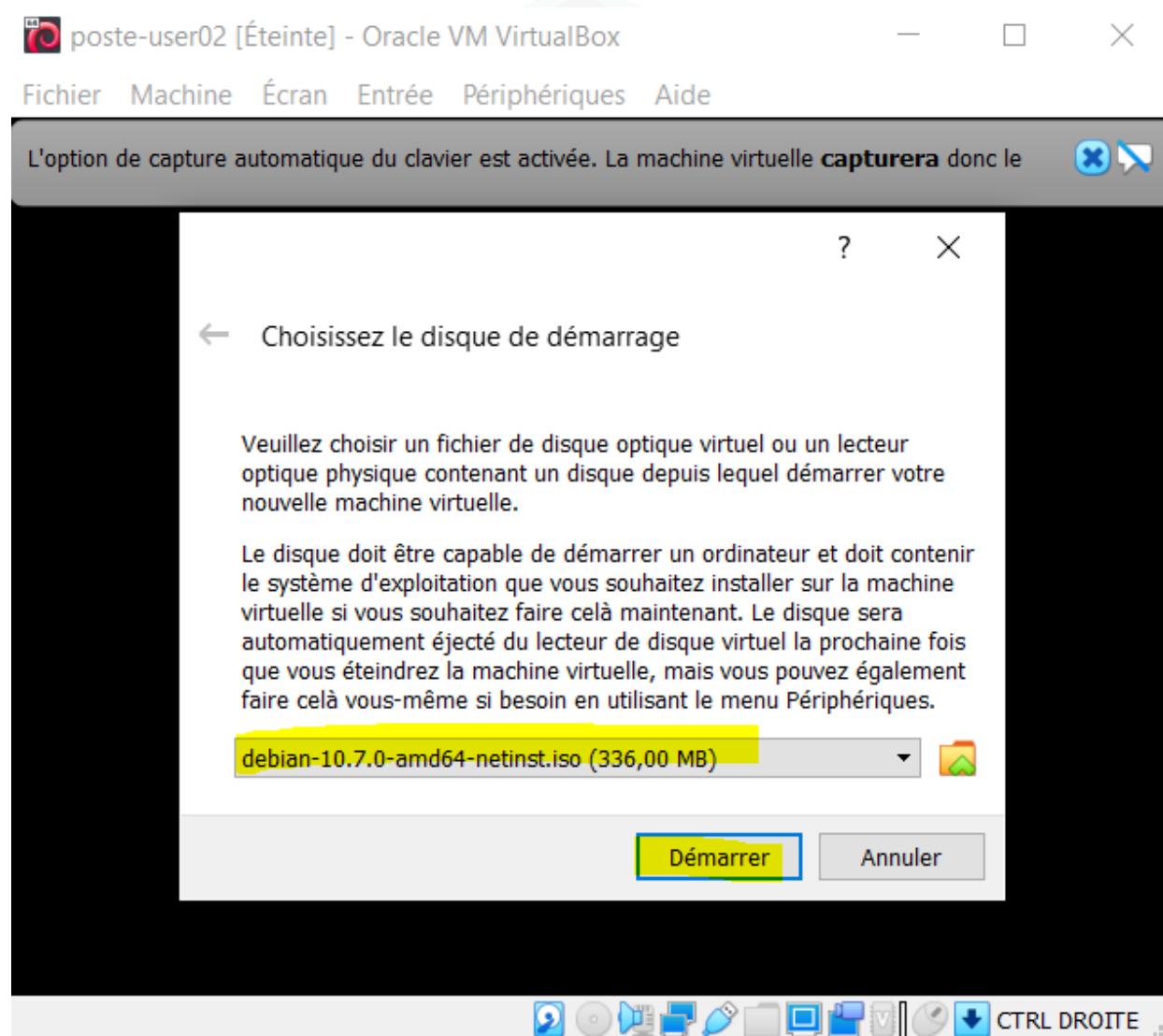
# Préparation des enveloppes VMs (x3) : poste client user02



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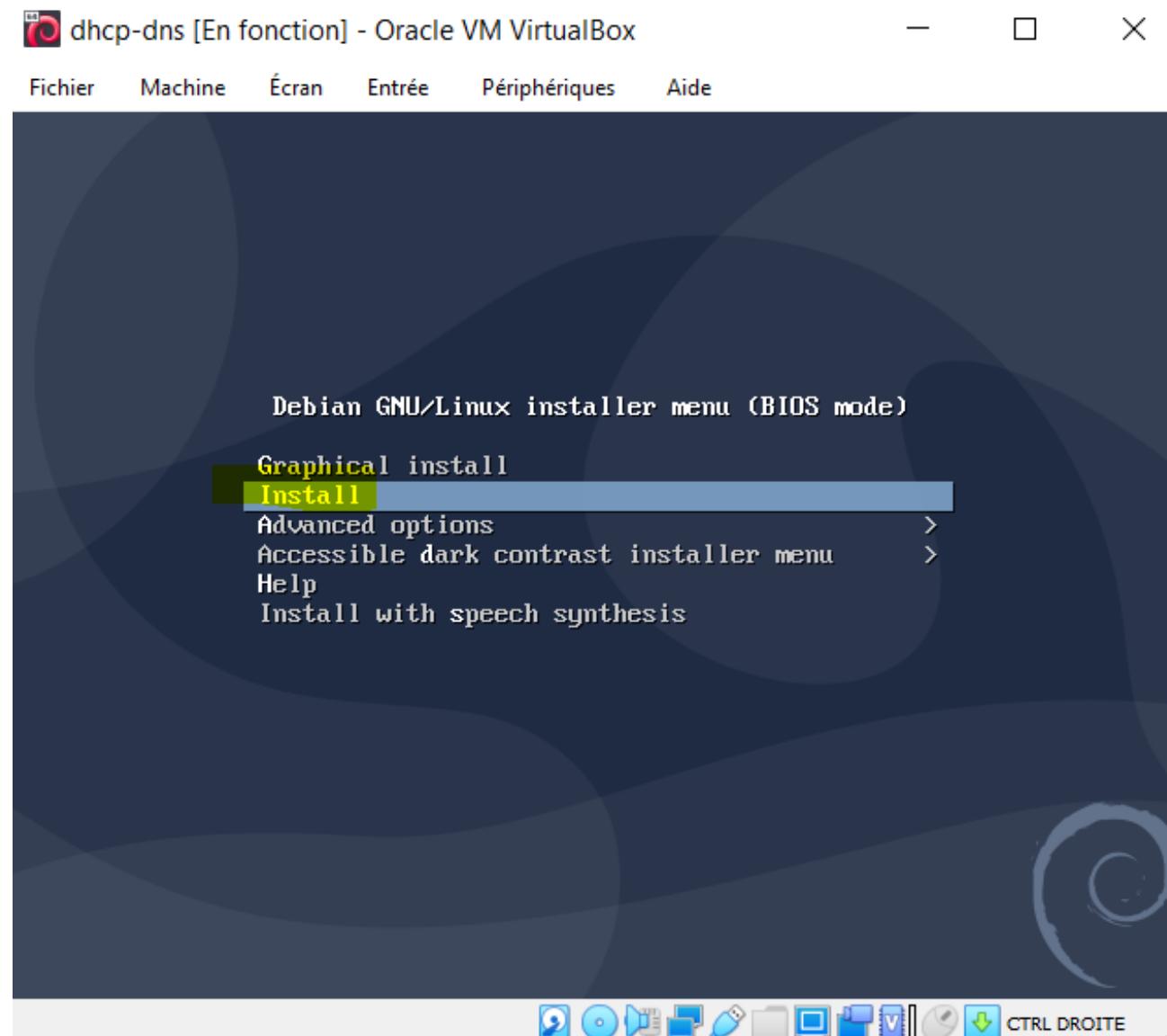
# Installation de l'OS dans les enveloppes VMs (x3)



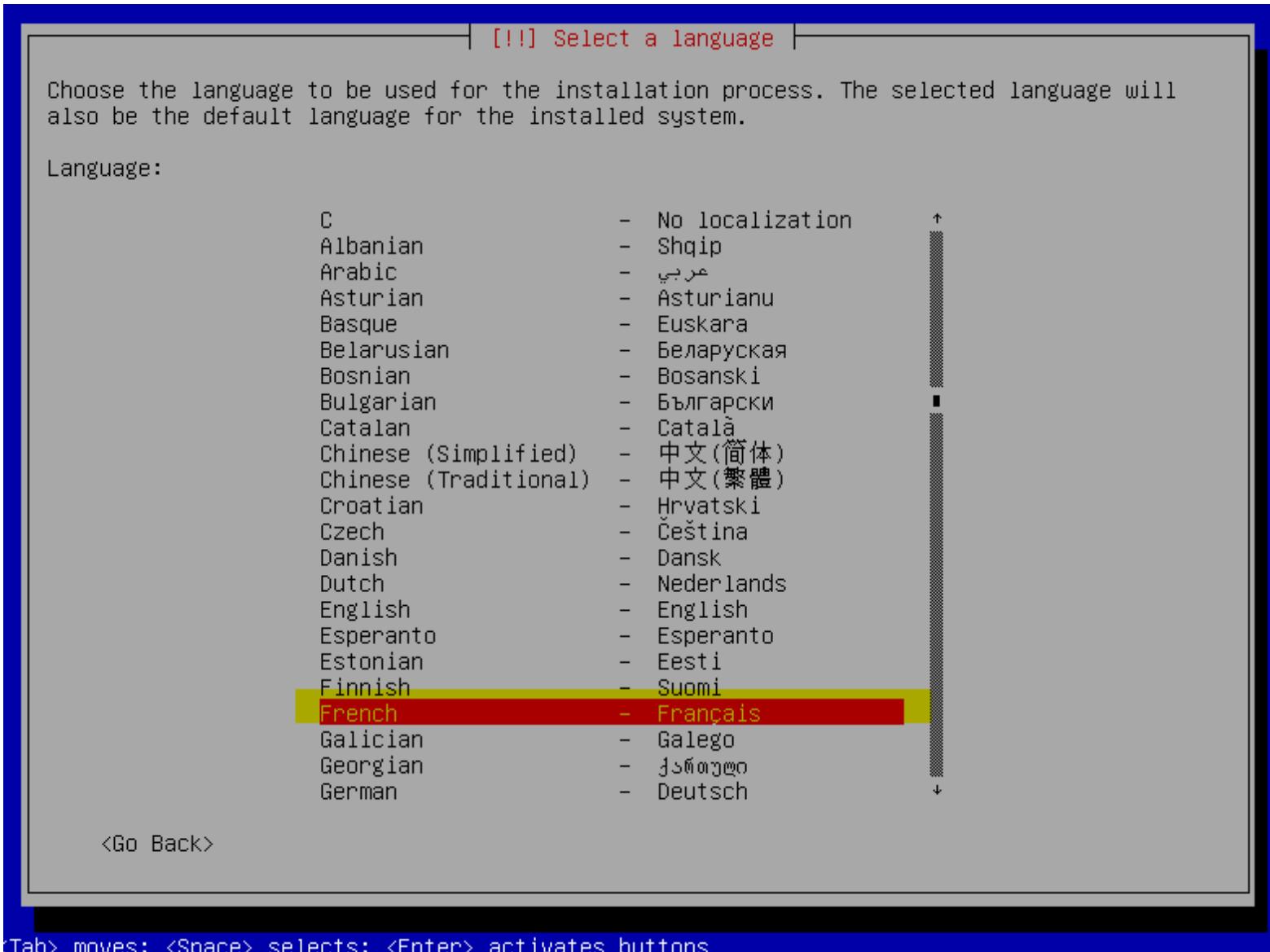
# Installation OS Serveur DHCP-DNS



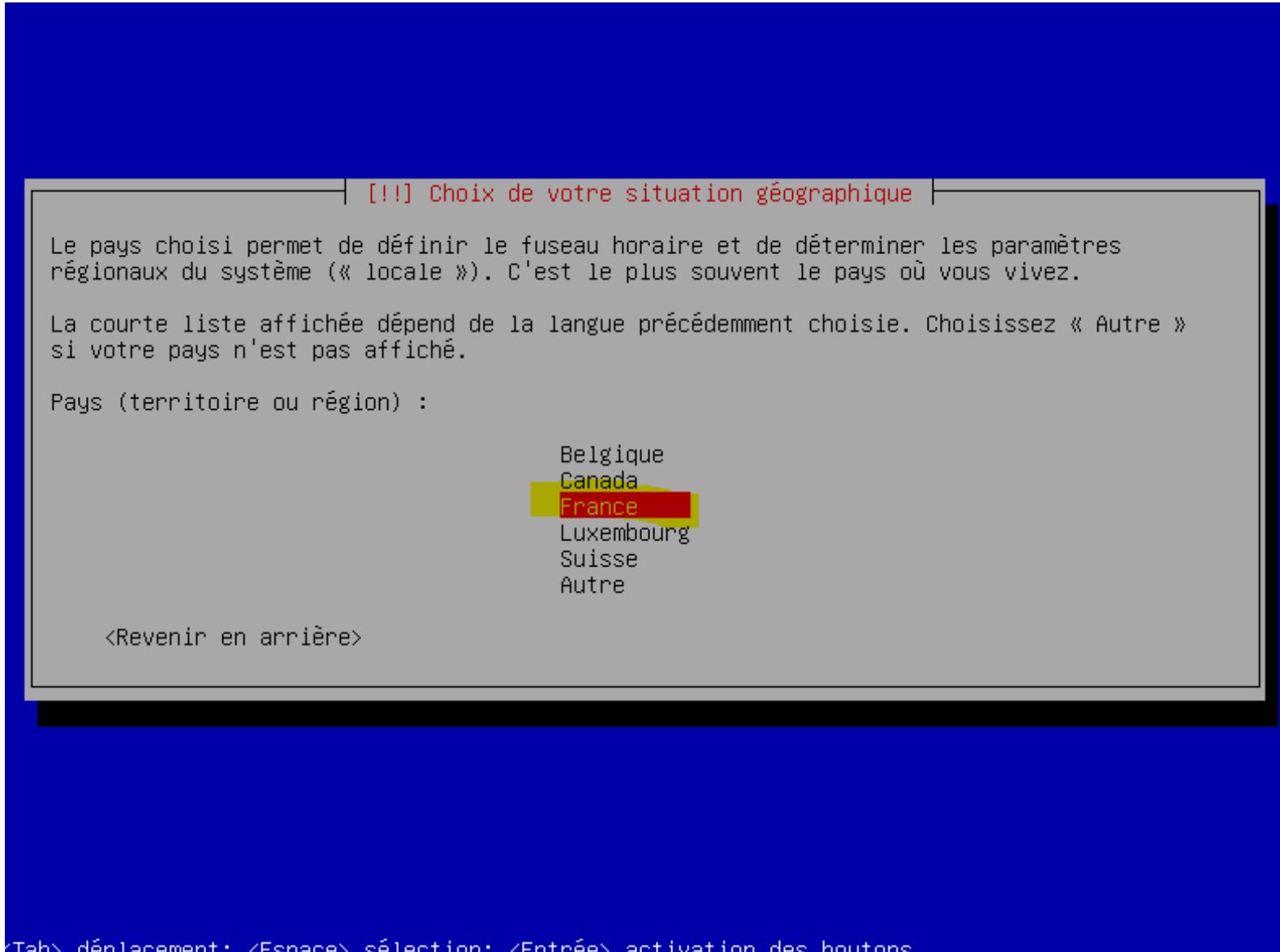
# Installation OS (x3) : serveur DHCP-DNS (roi)



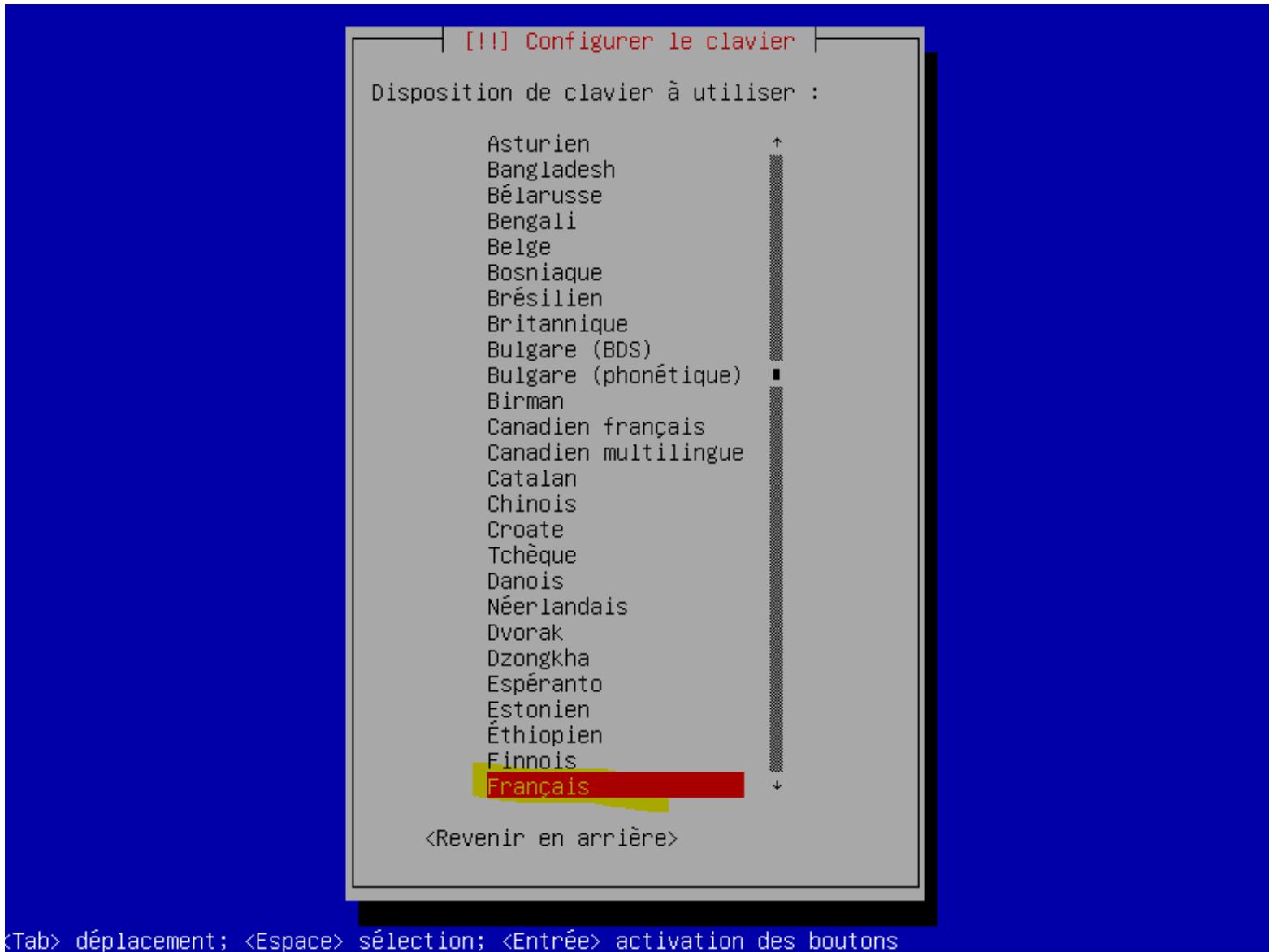
# Installation OS (x3) : serveur DHCP-DNS (roi)



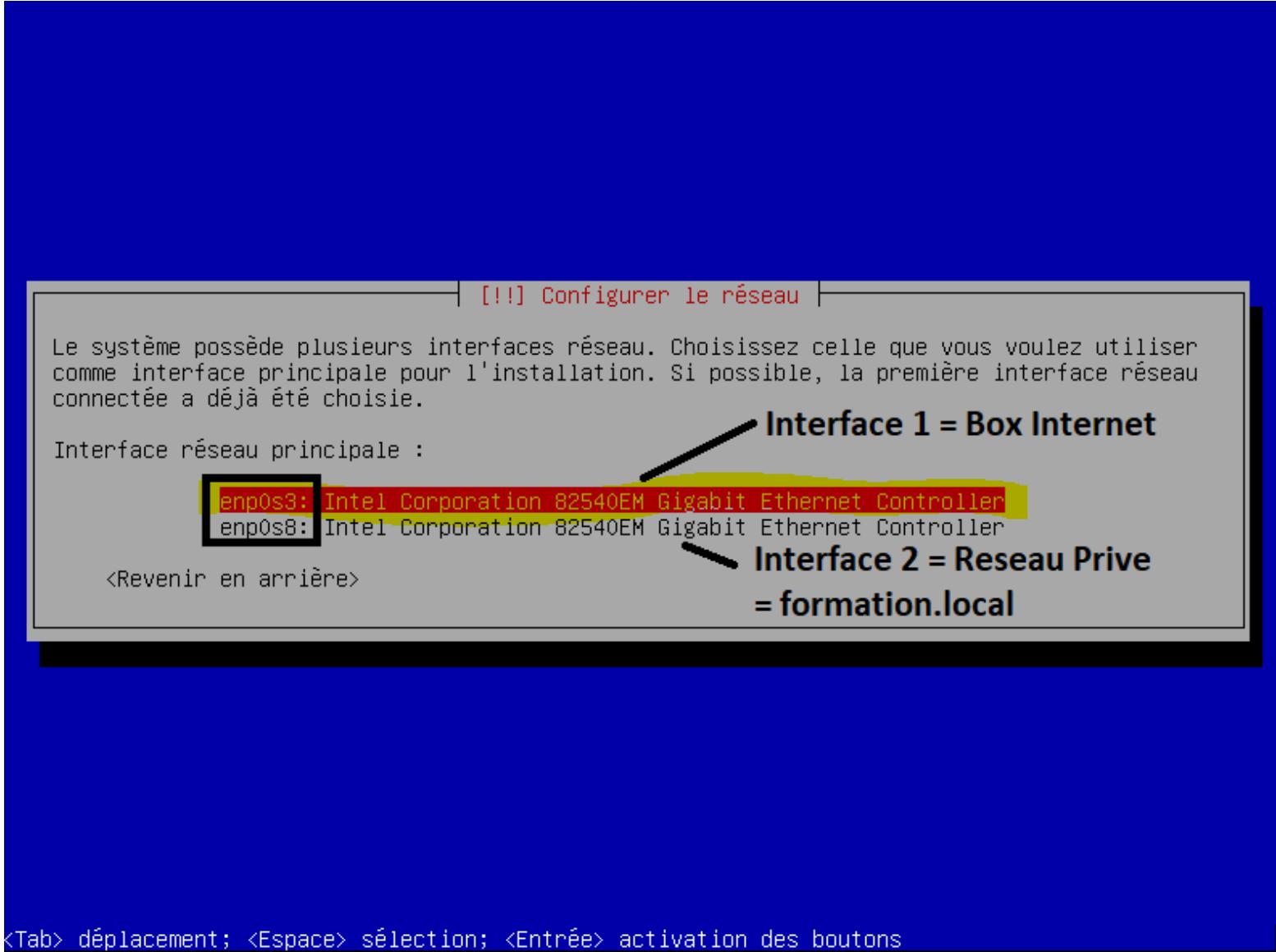
# Installation OS (x3) : serveur DHCP-DNS (roi)



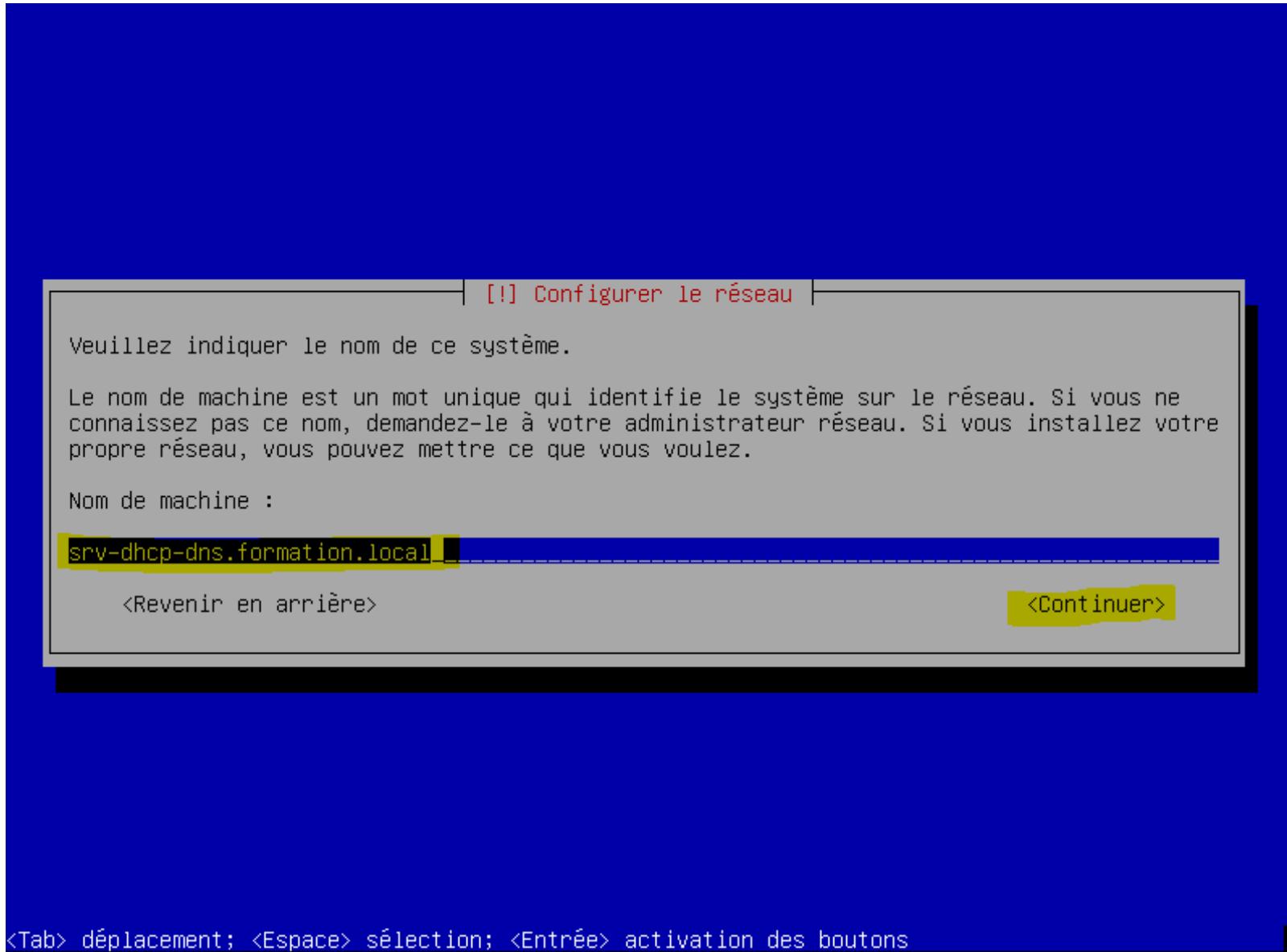
# Installation OS (x3) : serveur DHCP-DNS (roi)



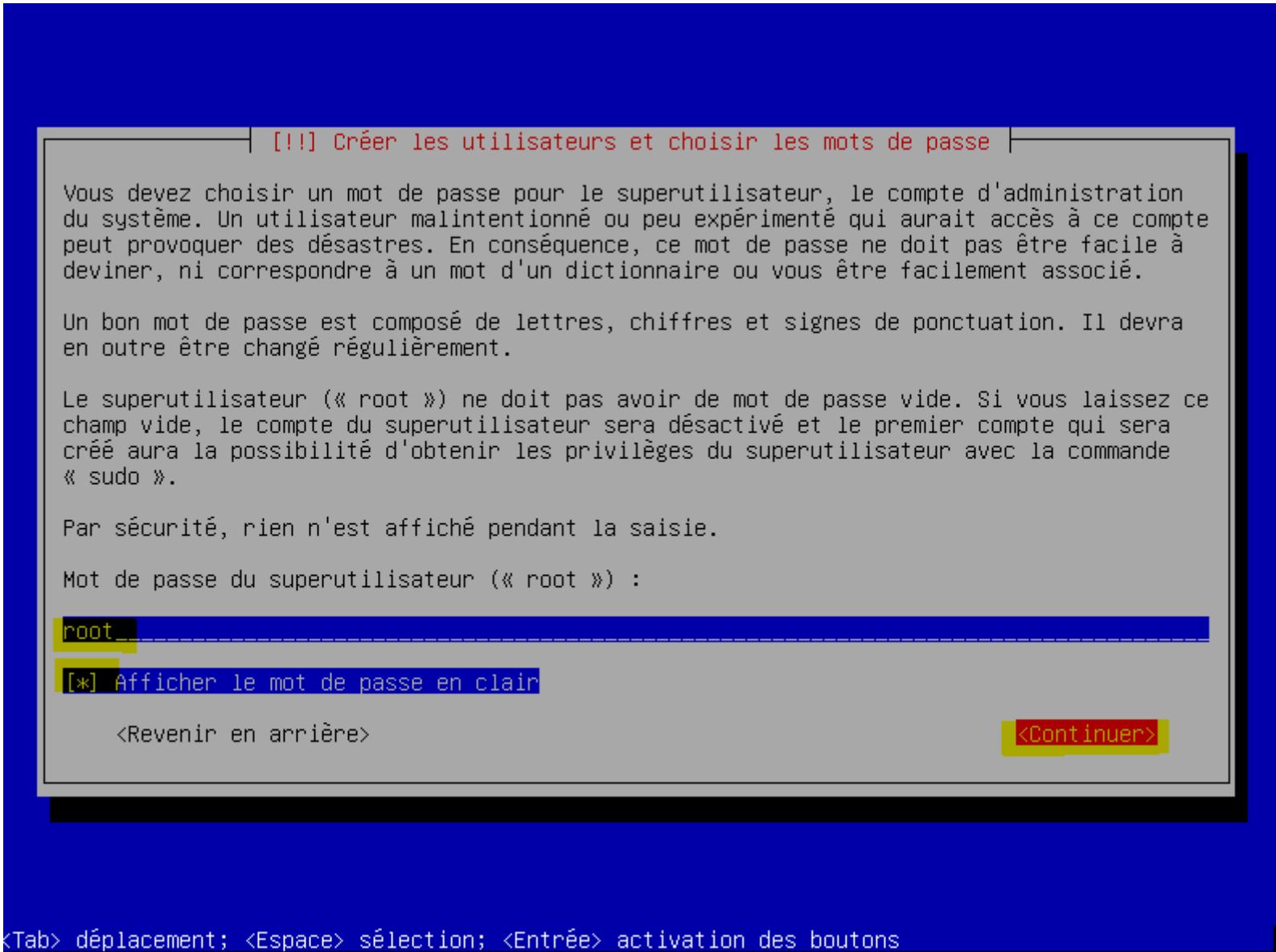
# Installation OS (x3) : serveur DHCP-DNS (roi)



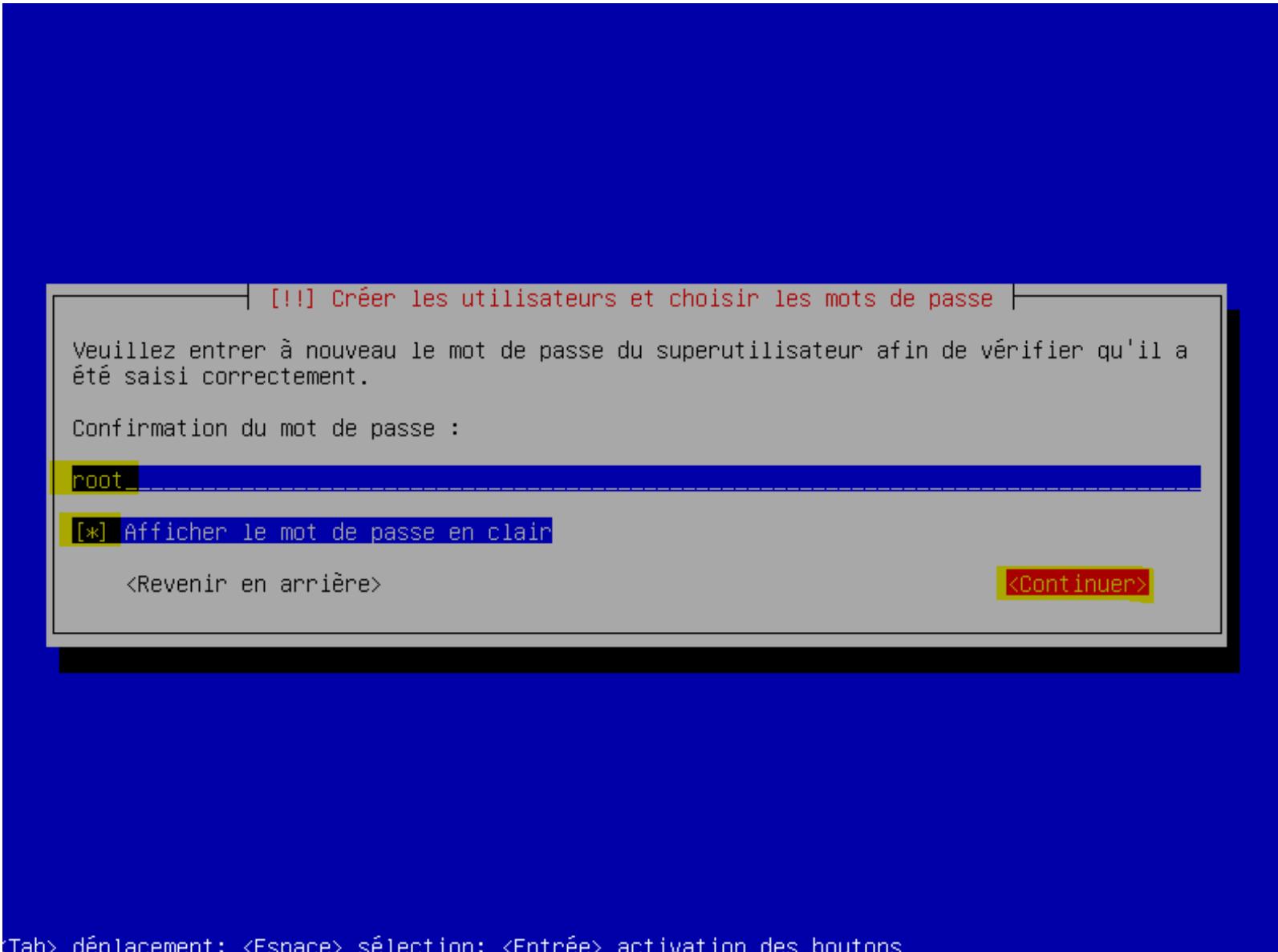
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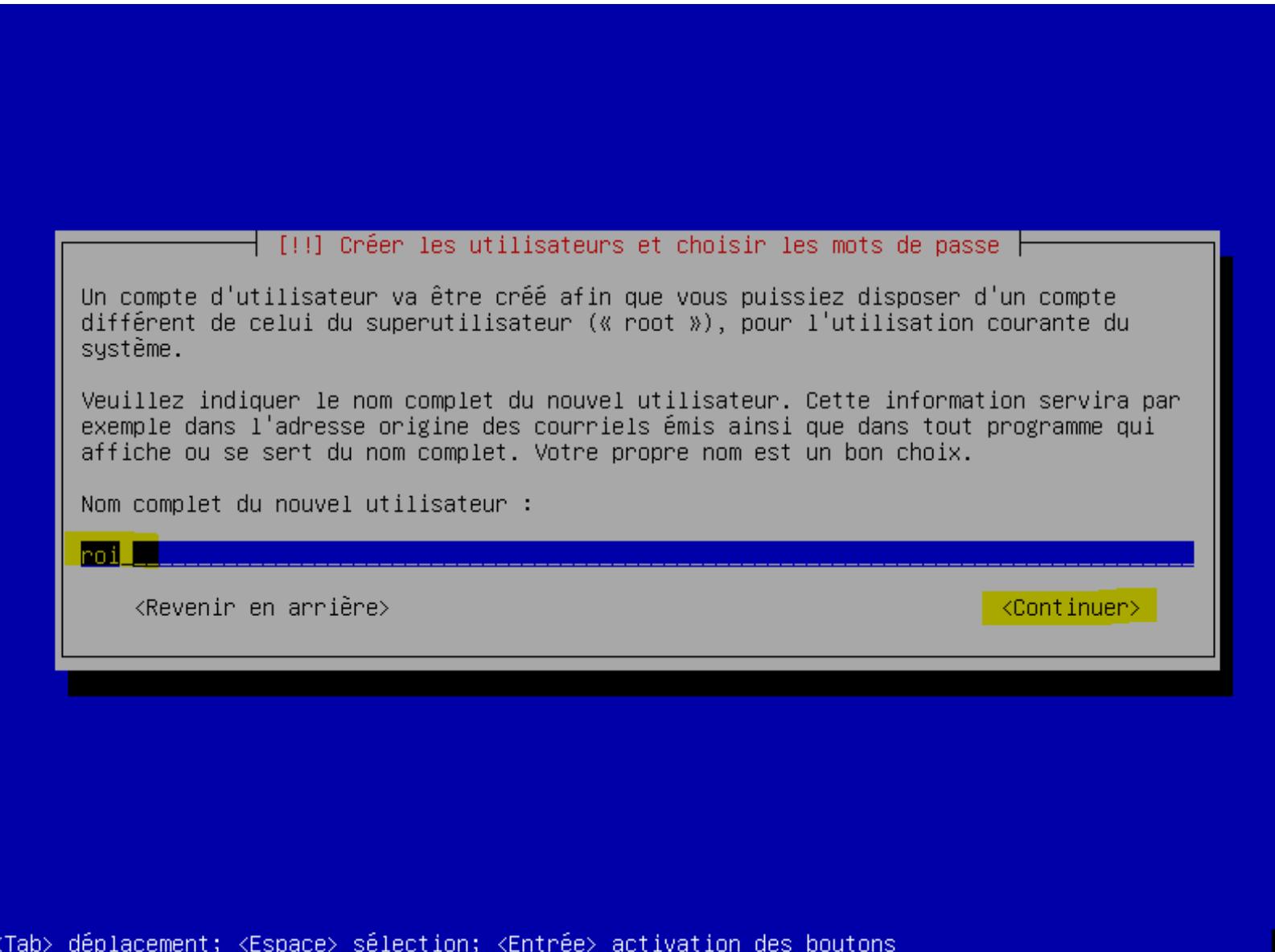
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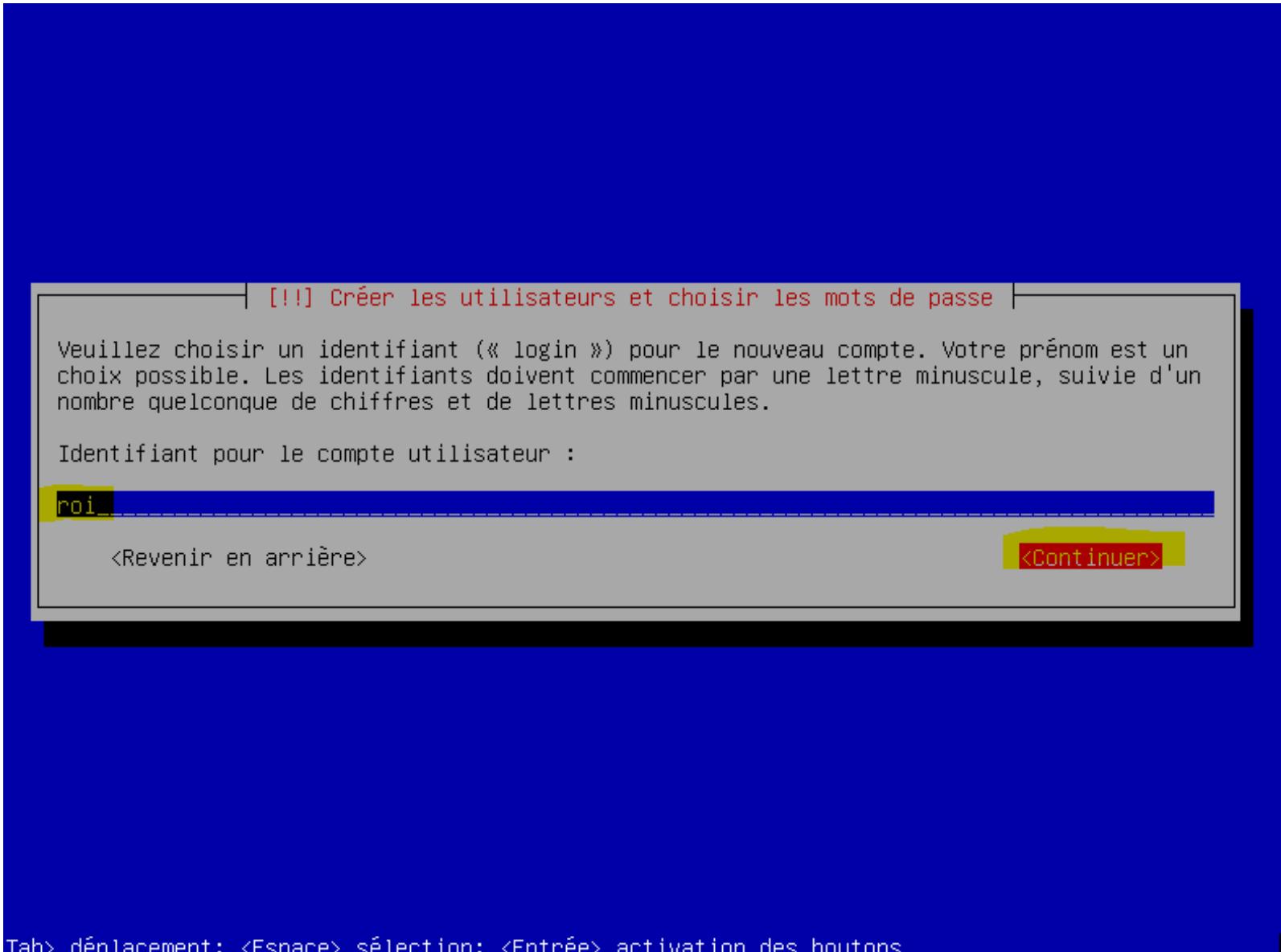
# Installation OS (x3) : serveur DHCP-DNS (roi)



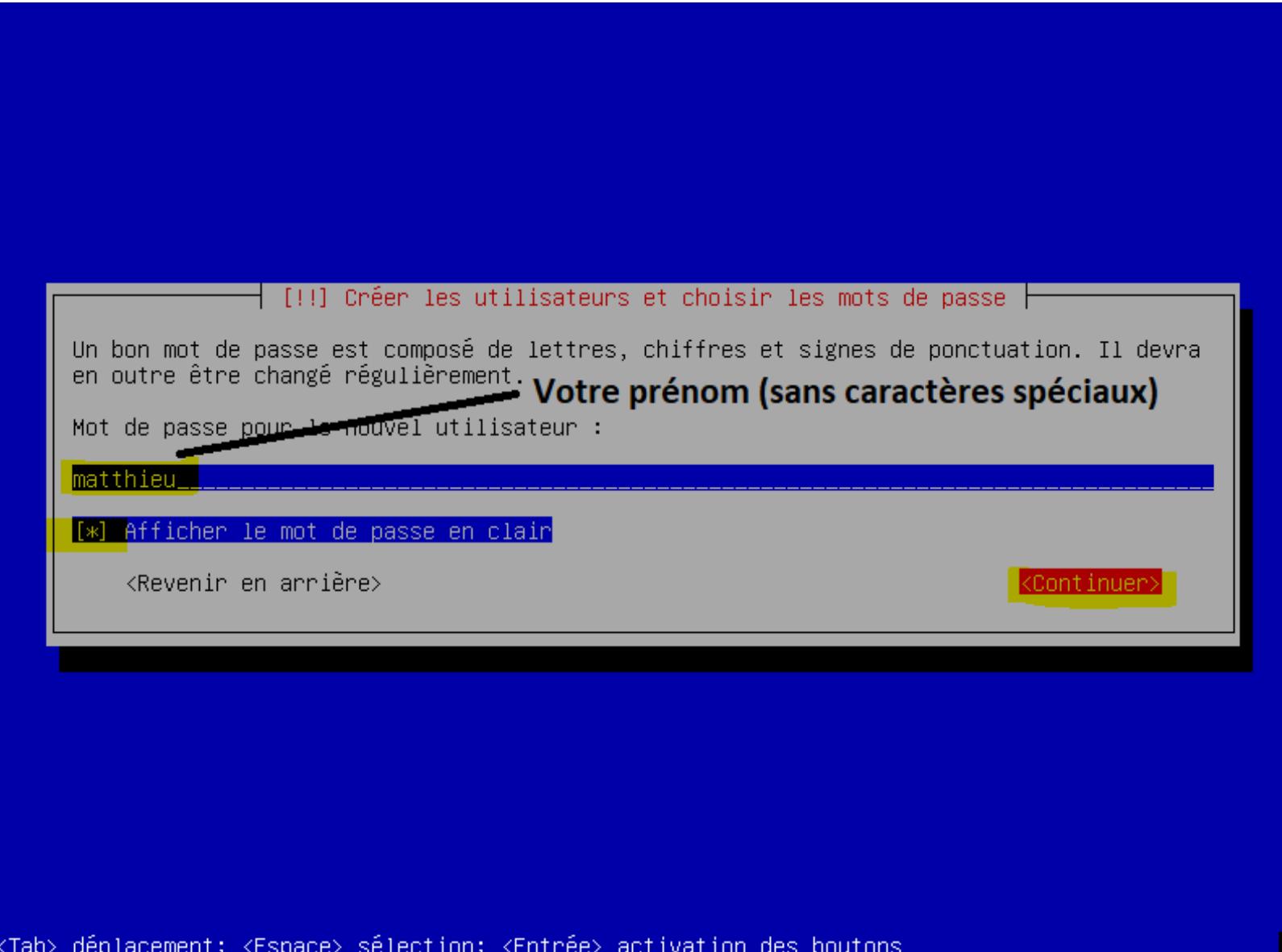
# Installation OS (x3) : serveur DHCP-DNS (roi)



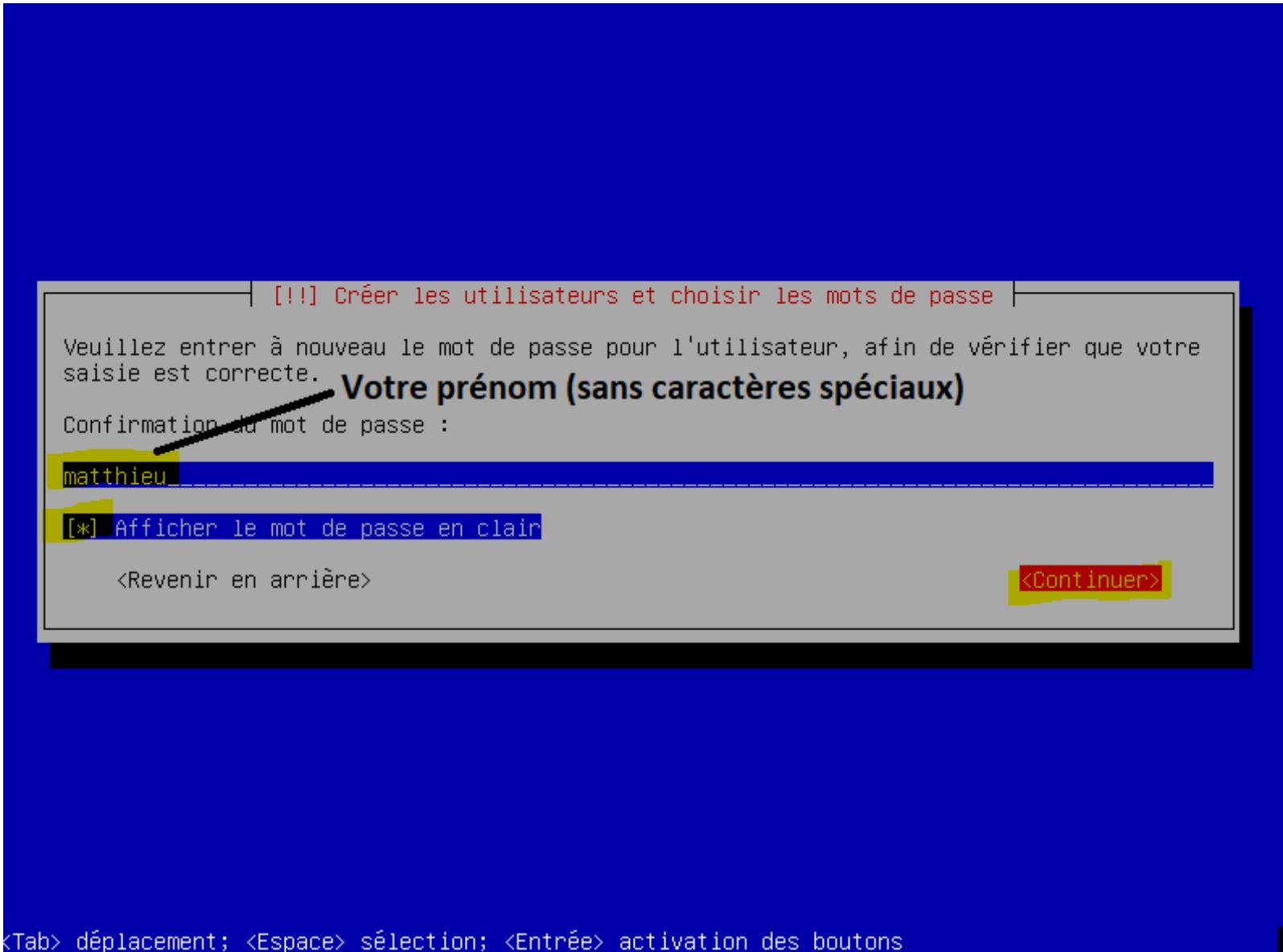
# Installation OS (x3) : serveur DHCP-DNS (roi)



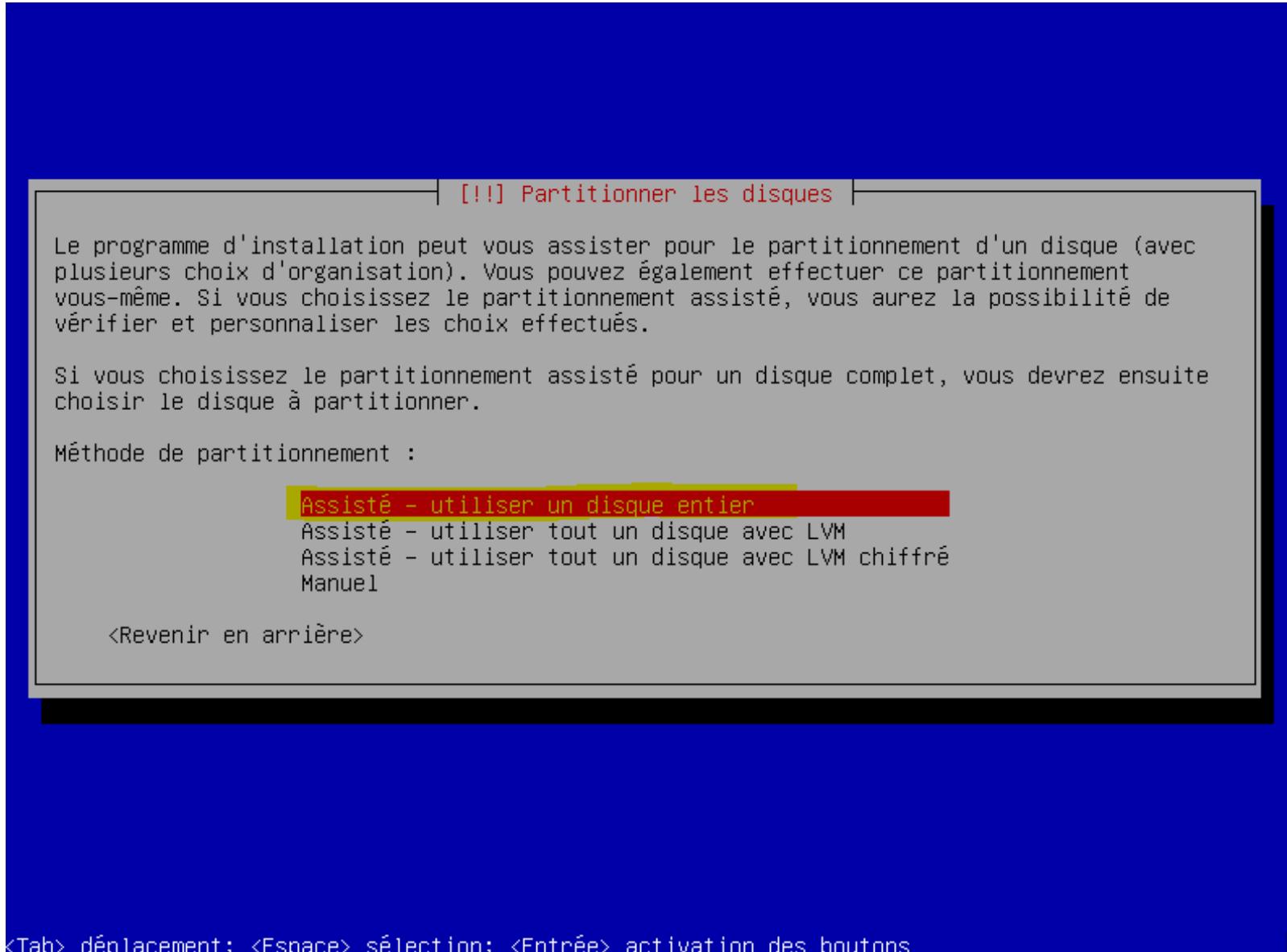
# Installation OS (x3) : serveur DHCP-DNS (roi)



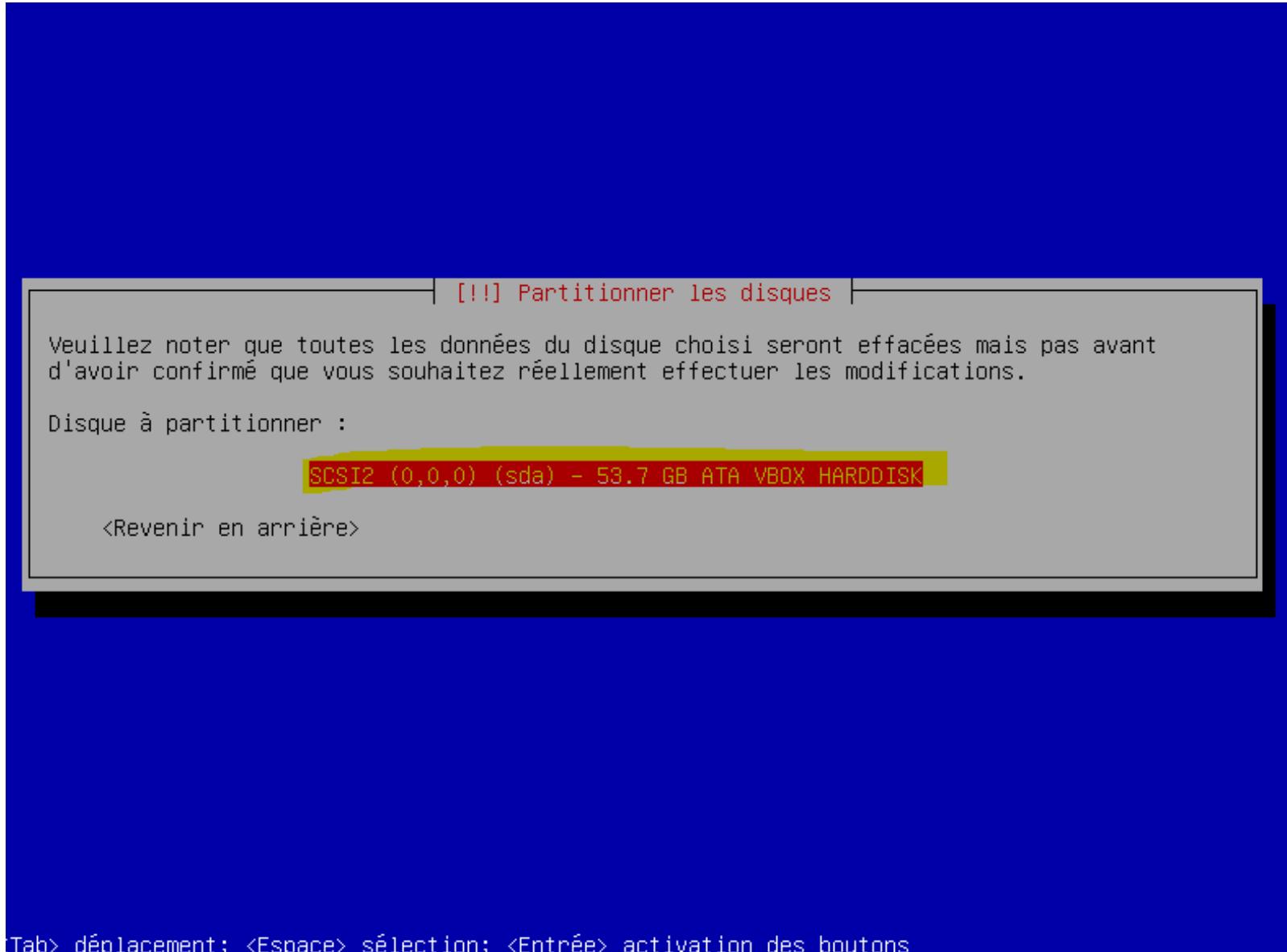
# Installation OS (x3) : serveur DHCP-DNS (roi)



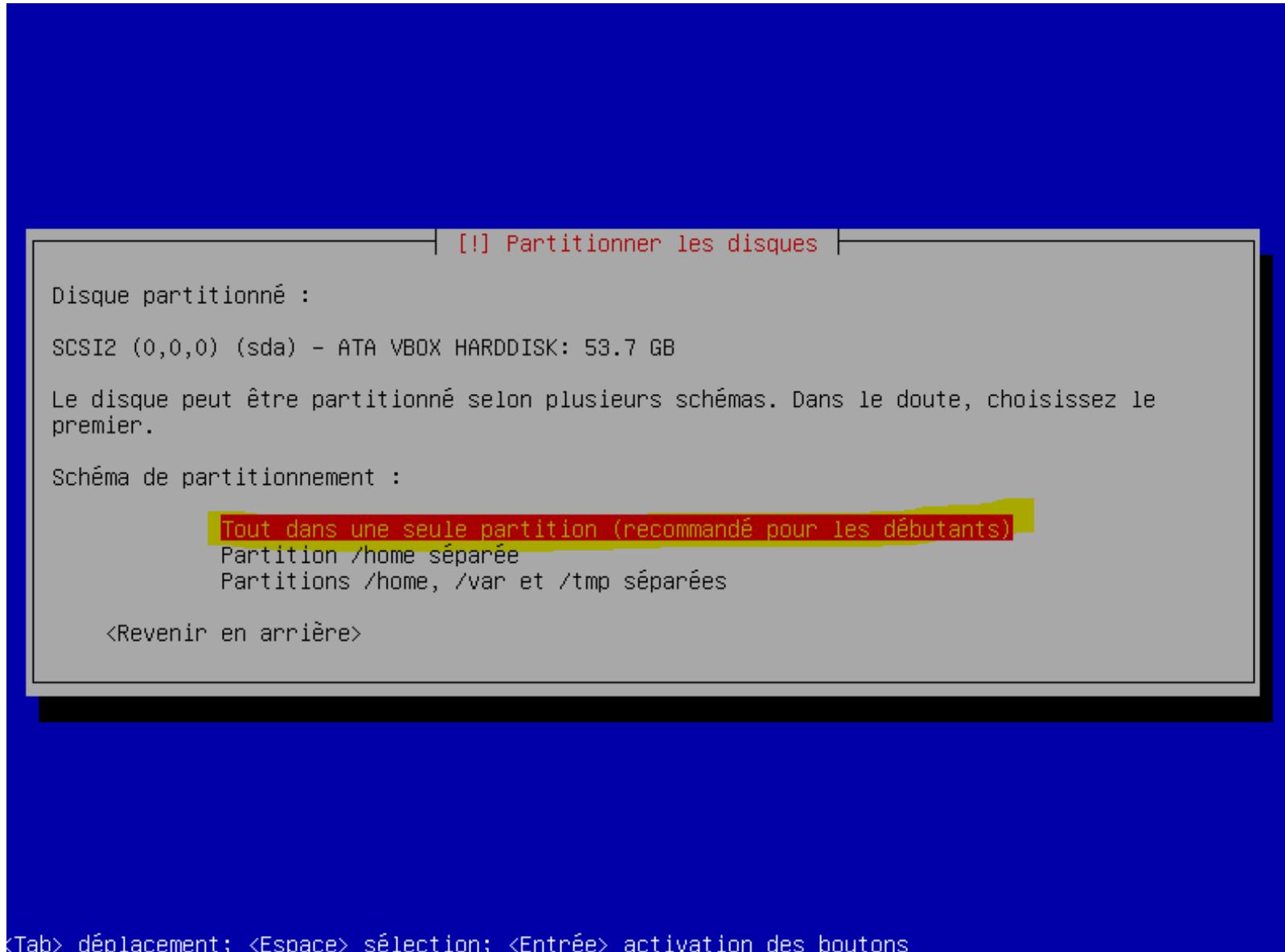
# Installation OS (x3) : serveur DHCP-DNS (roi)



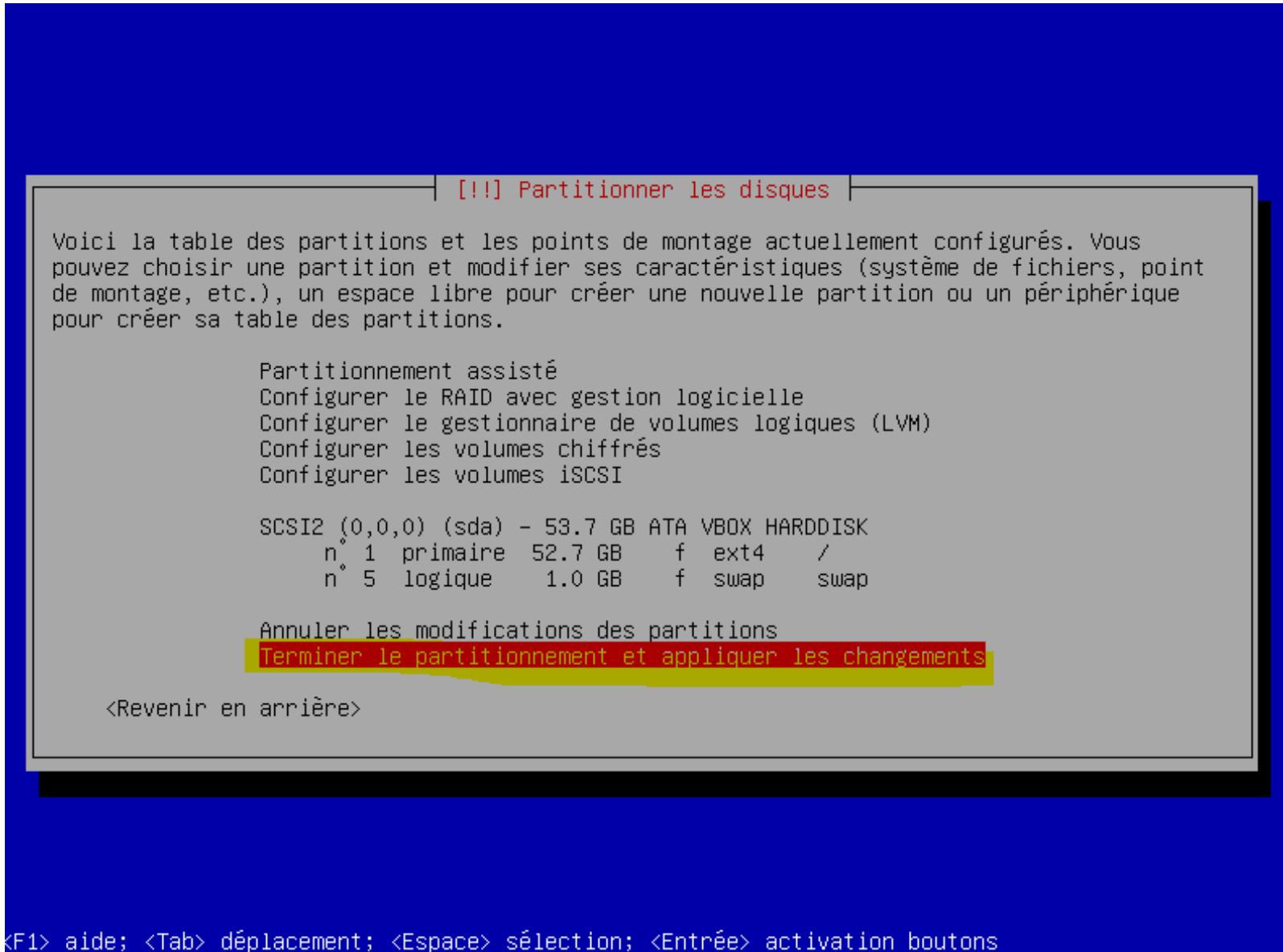
# Installation OS (x3) : serveur DHCP-DNS (roi)



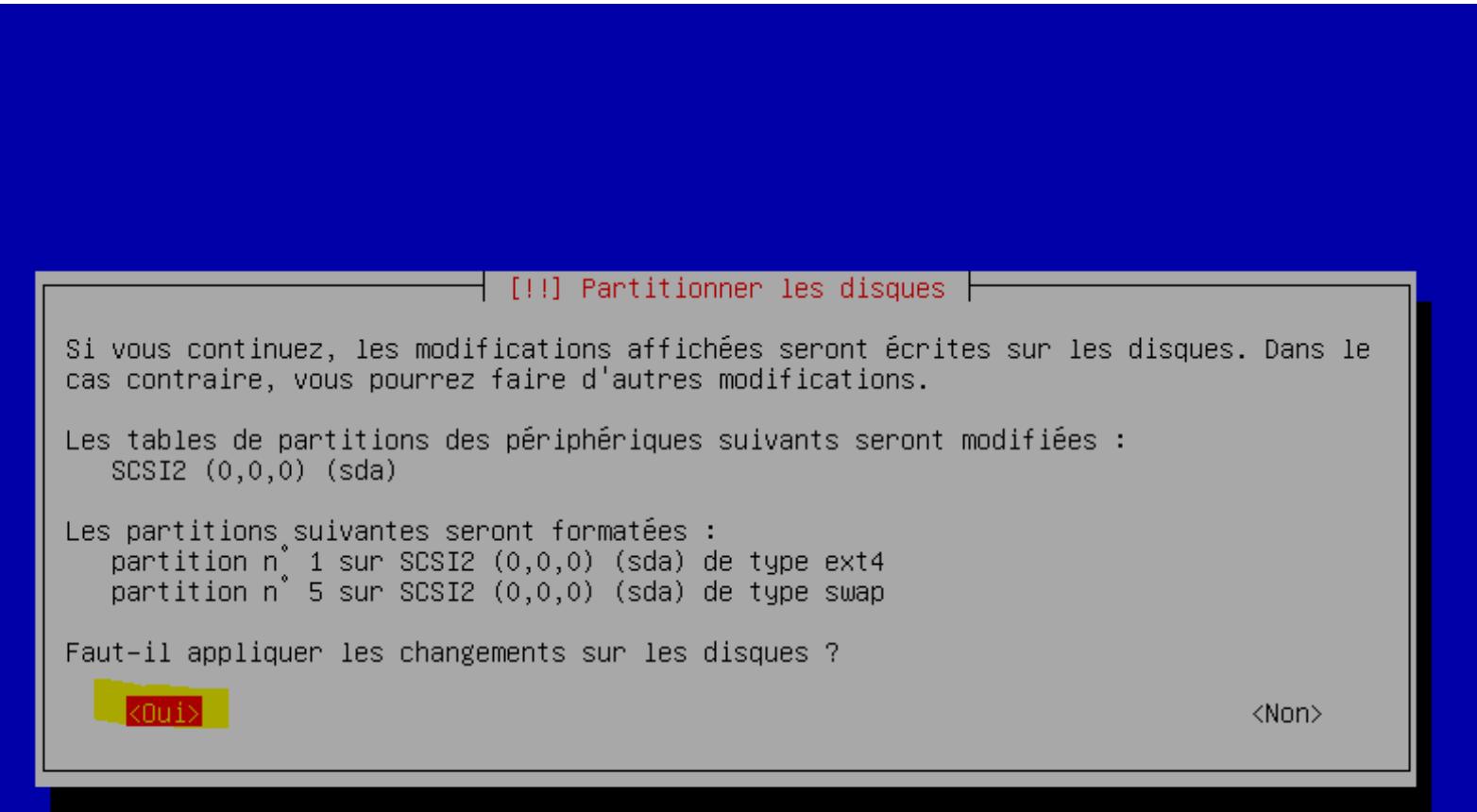
# Installation OS (x3) : serveur DHCP-DNS (roi)



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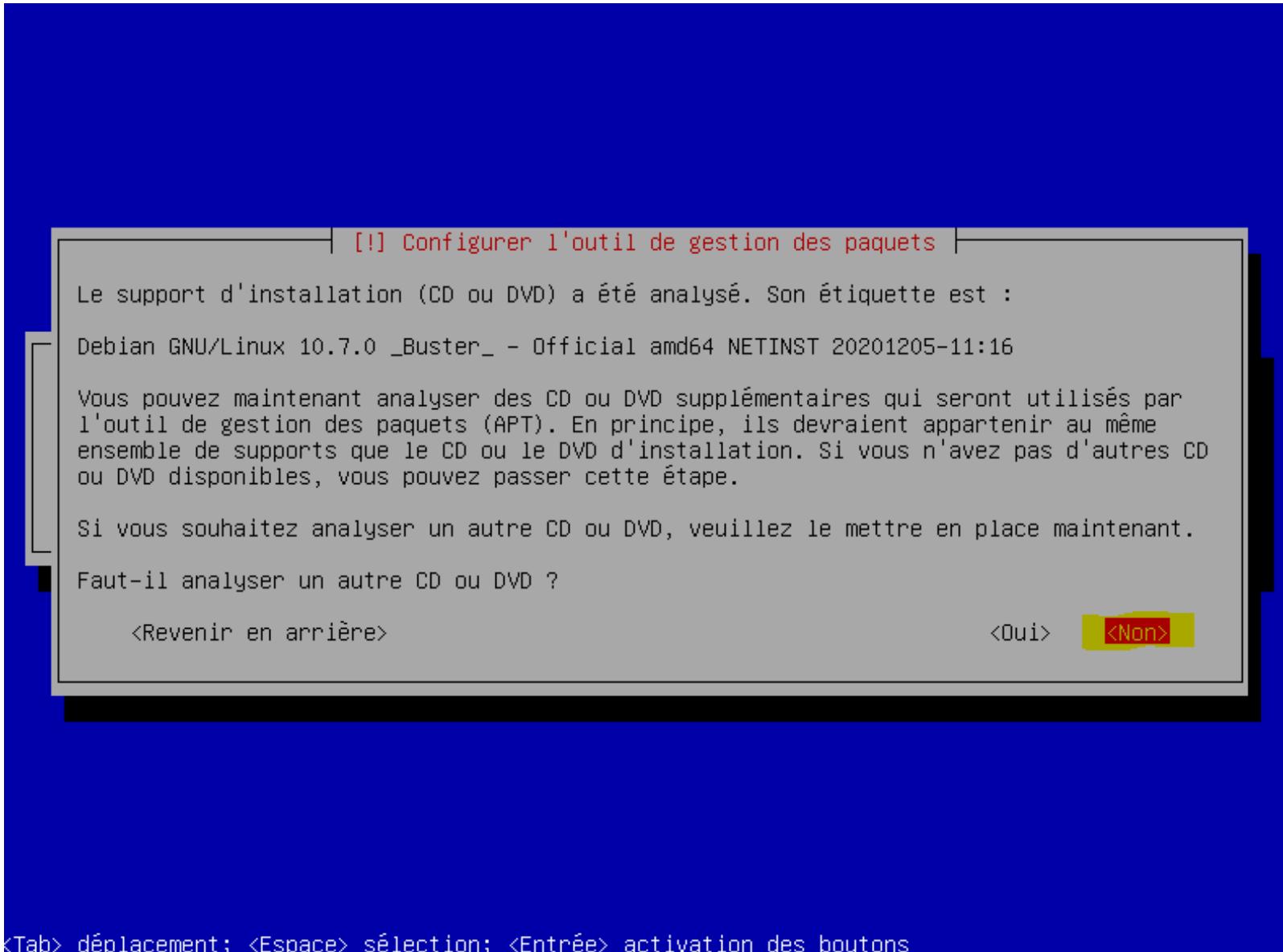


# Installation OS (x3) : serveur DHCP-DNS (roi)

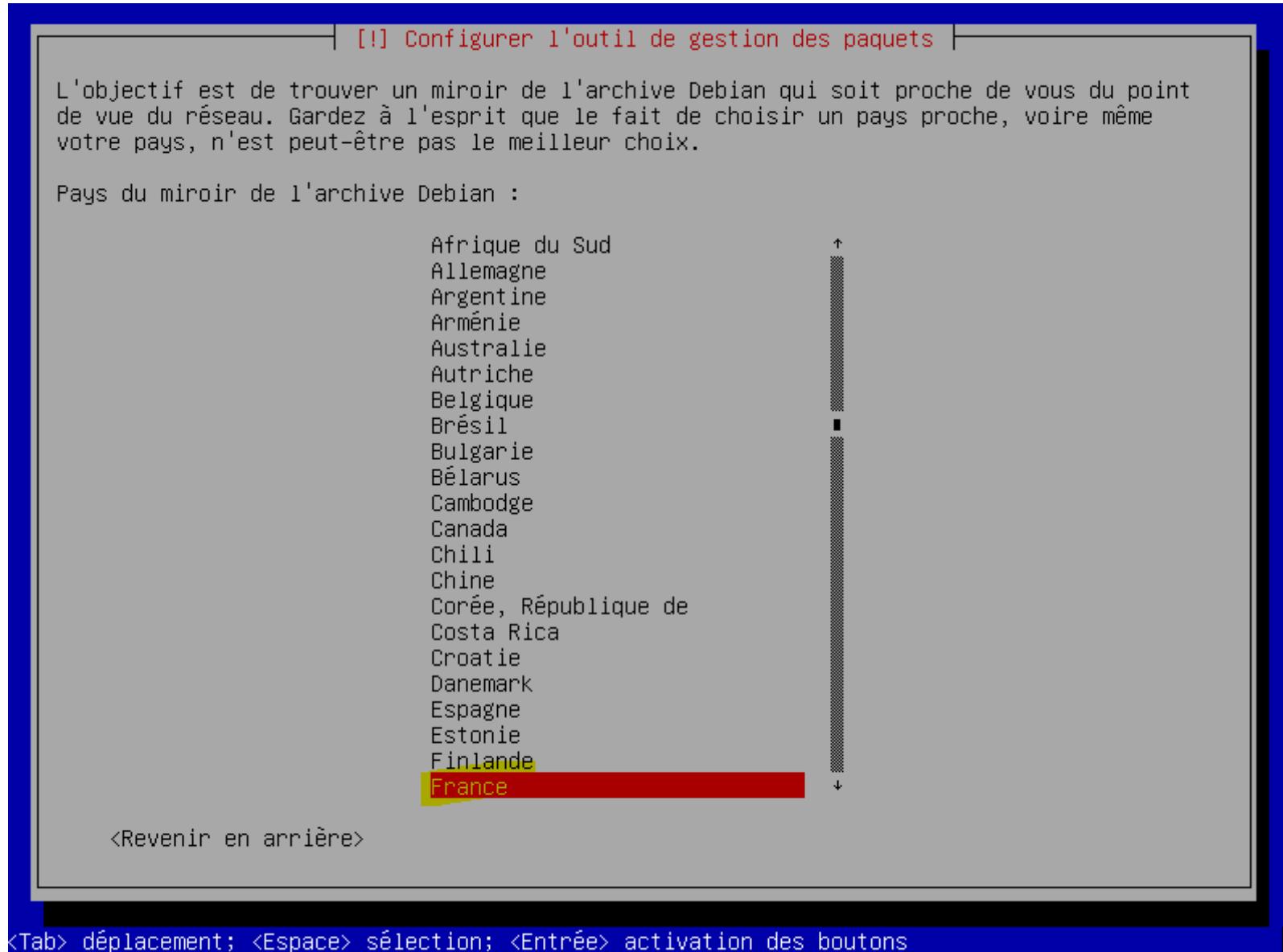


<Tab> déplacement; <Espace> sélection; <Entrée> activation des boutons

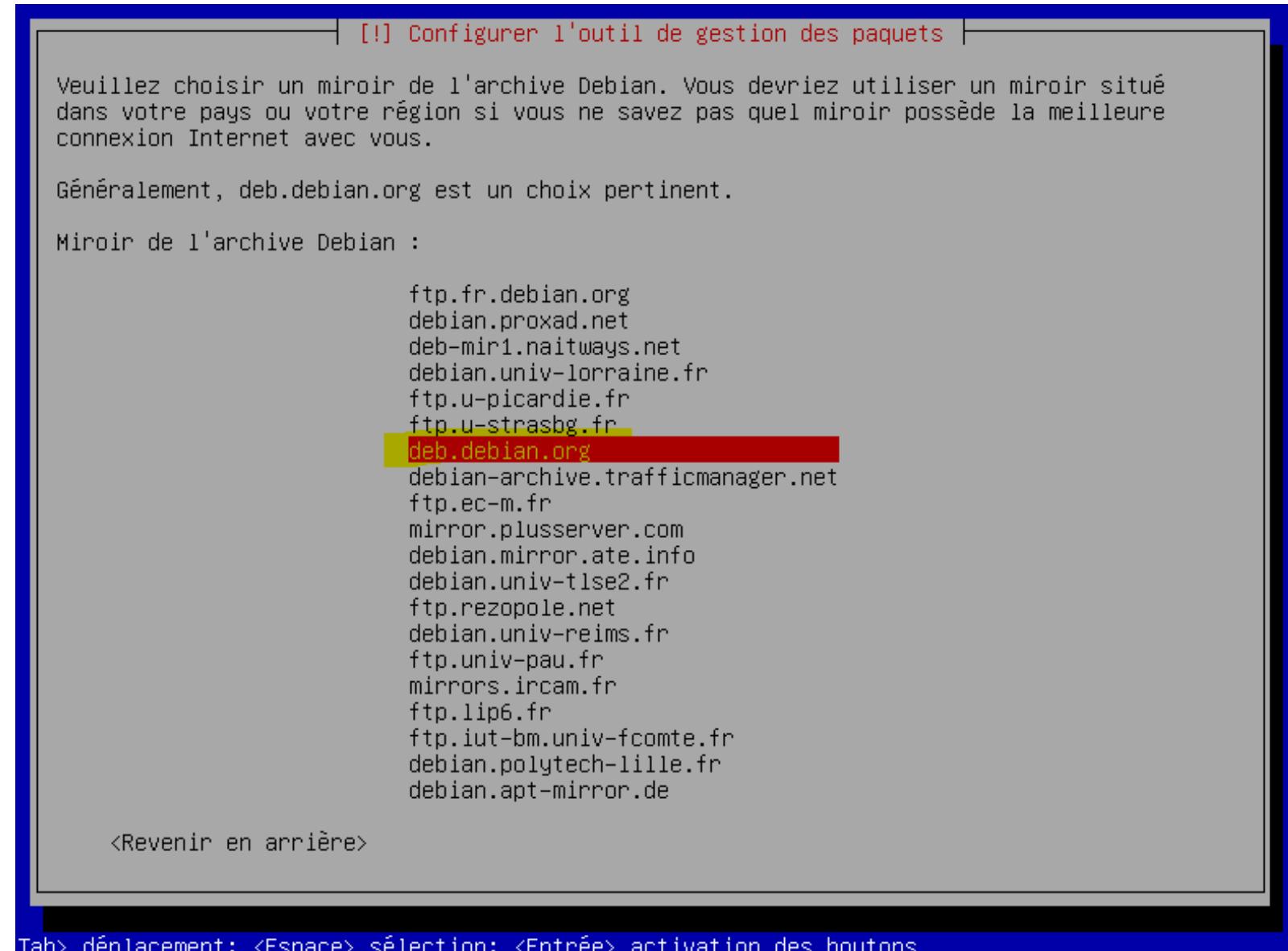
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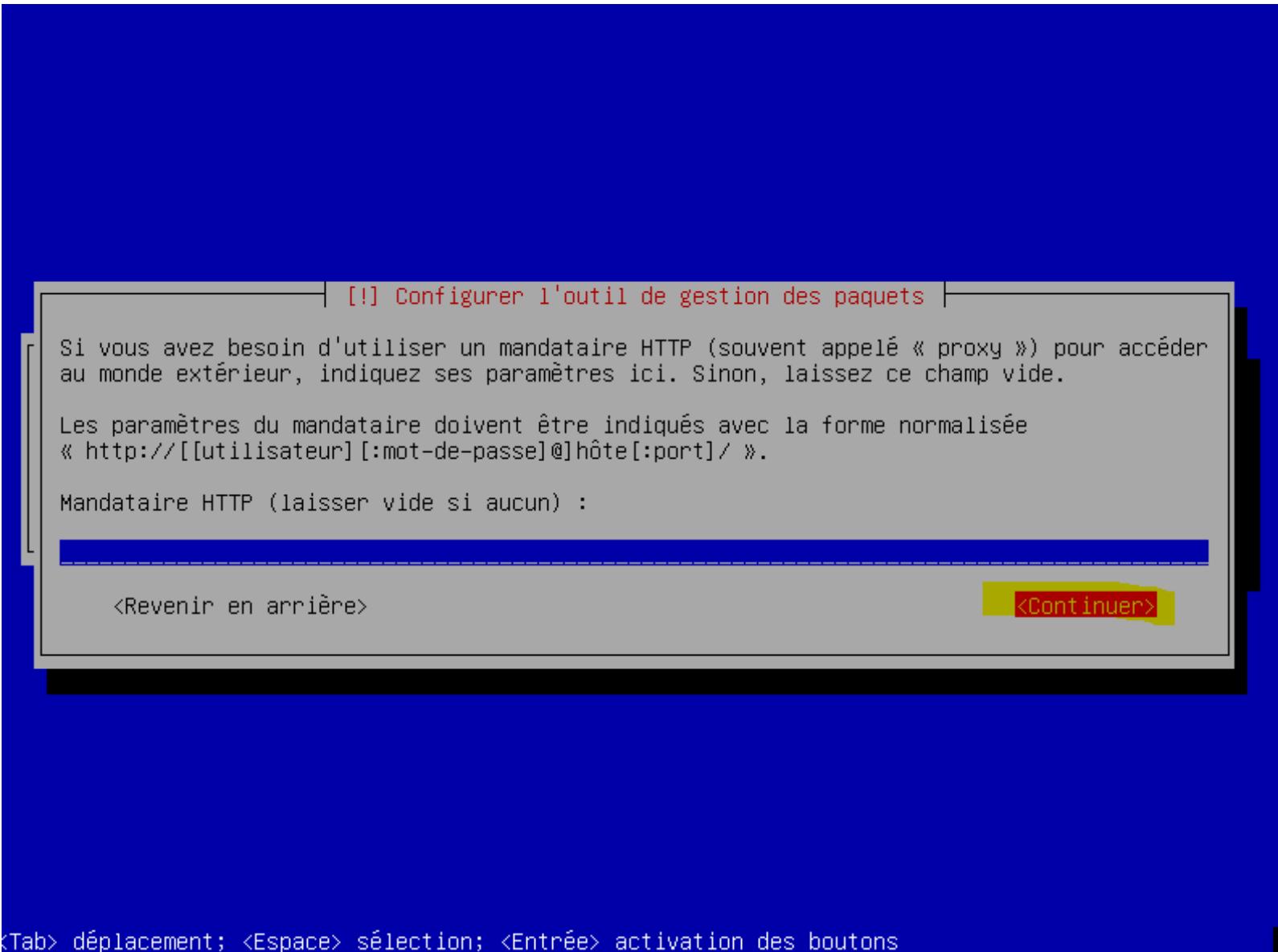
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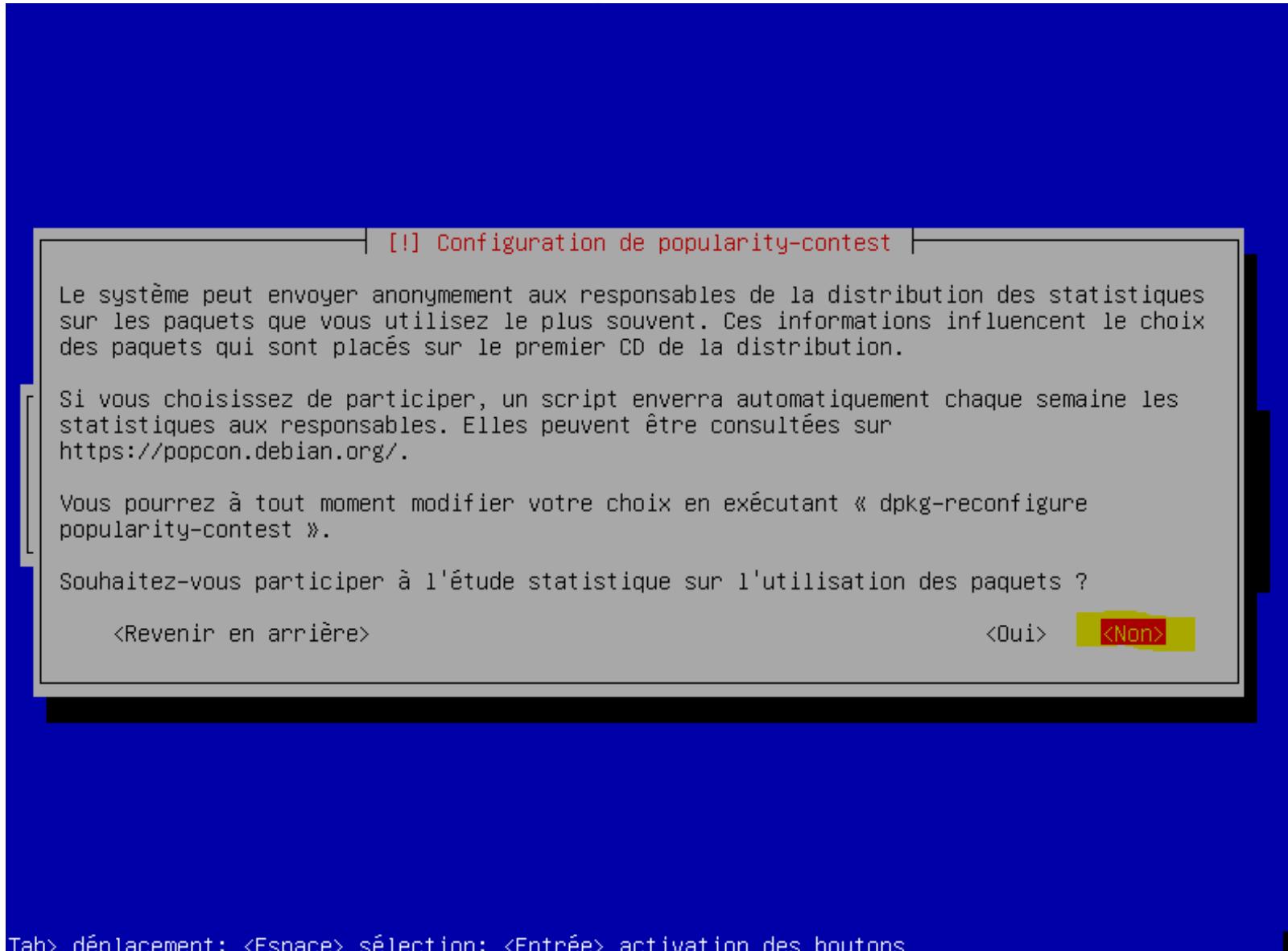
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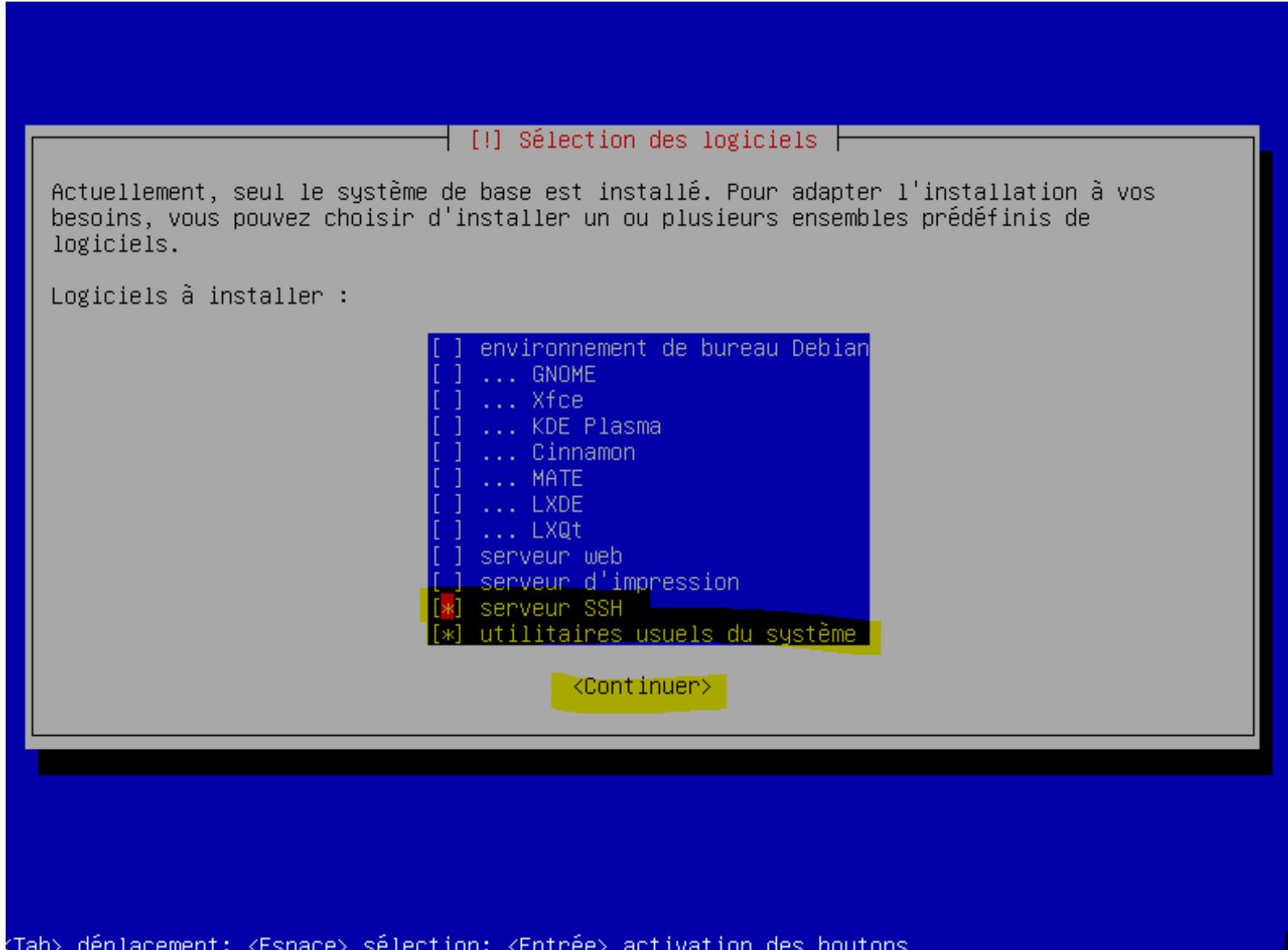
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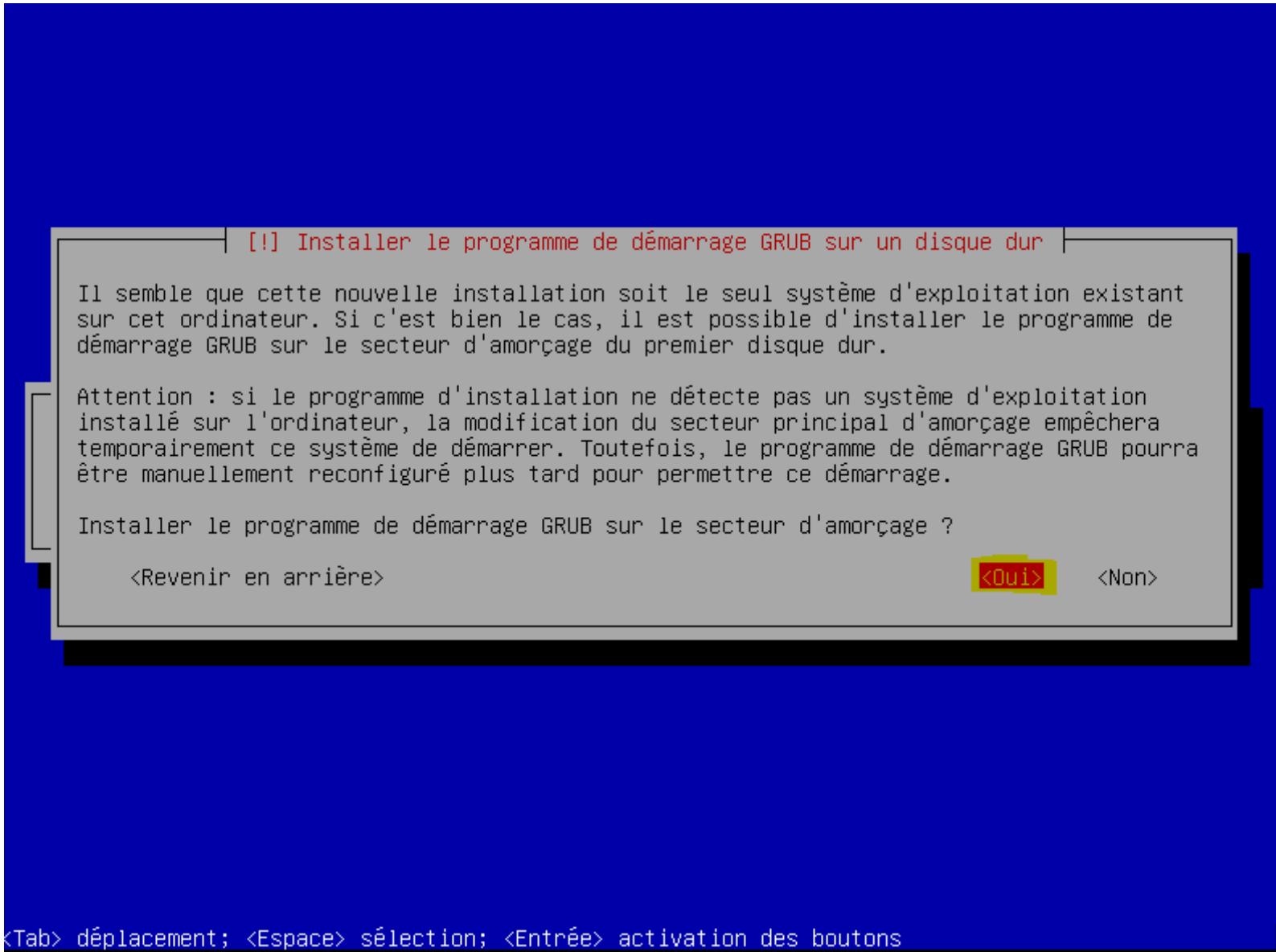
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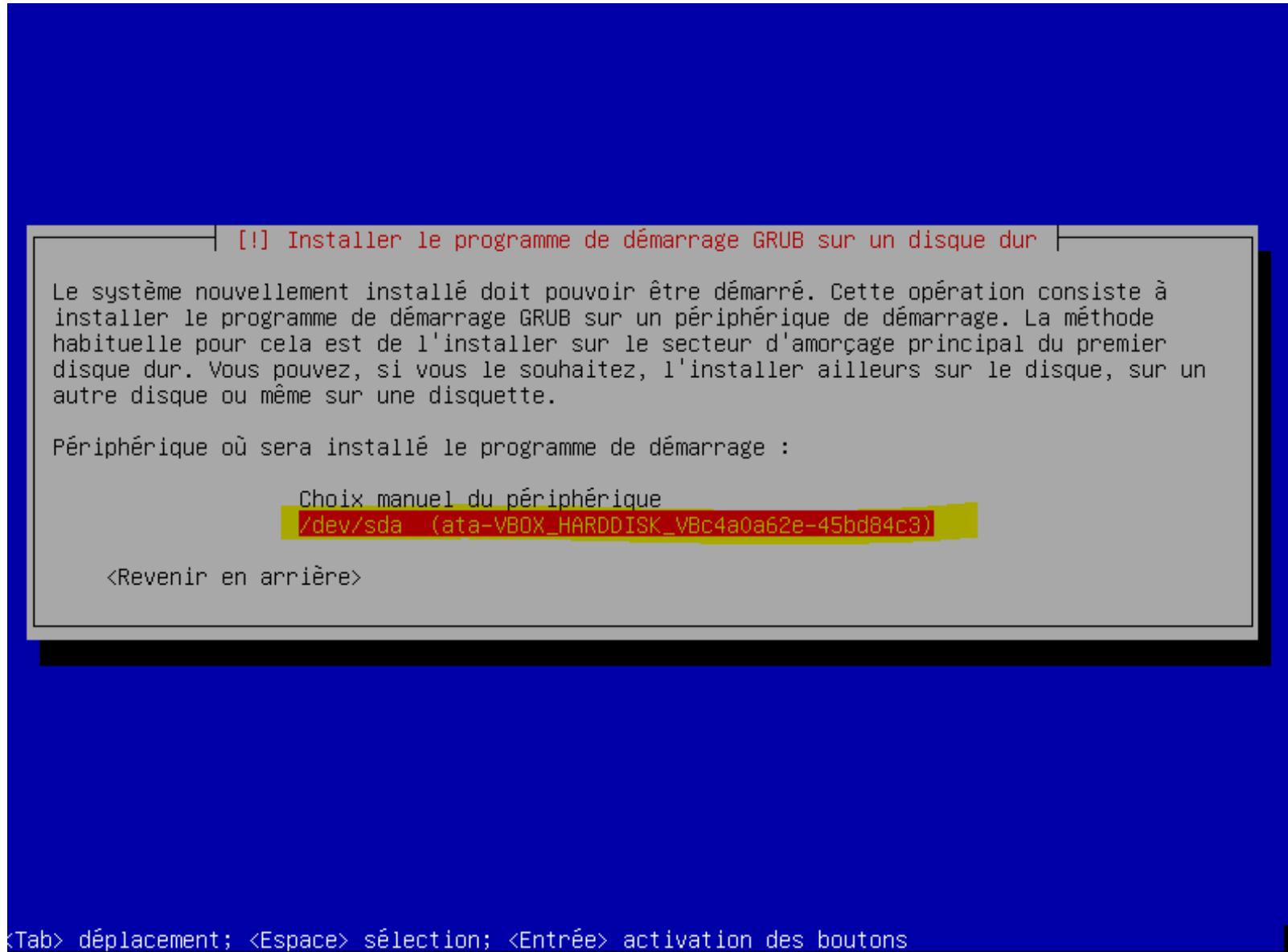
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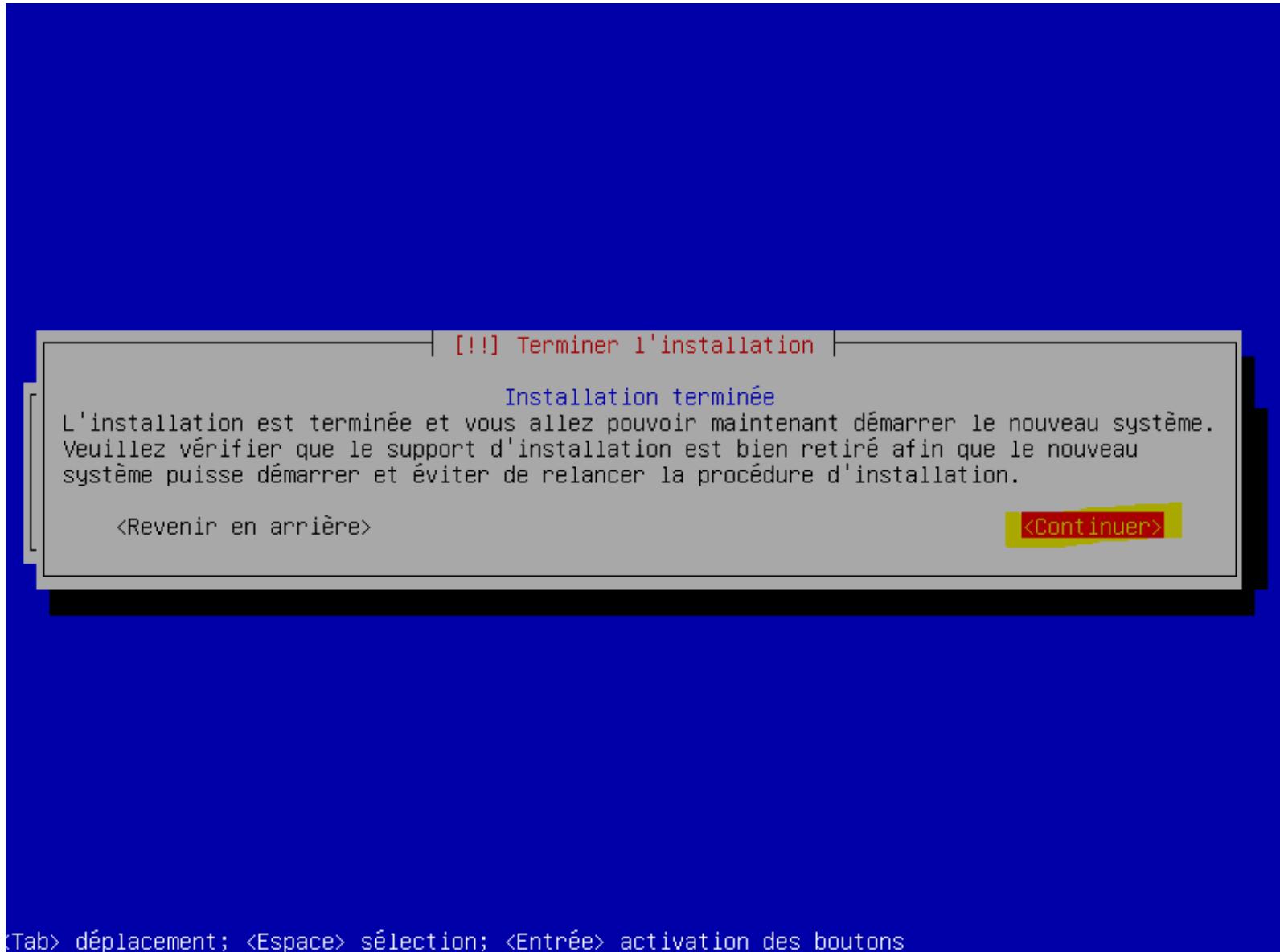
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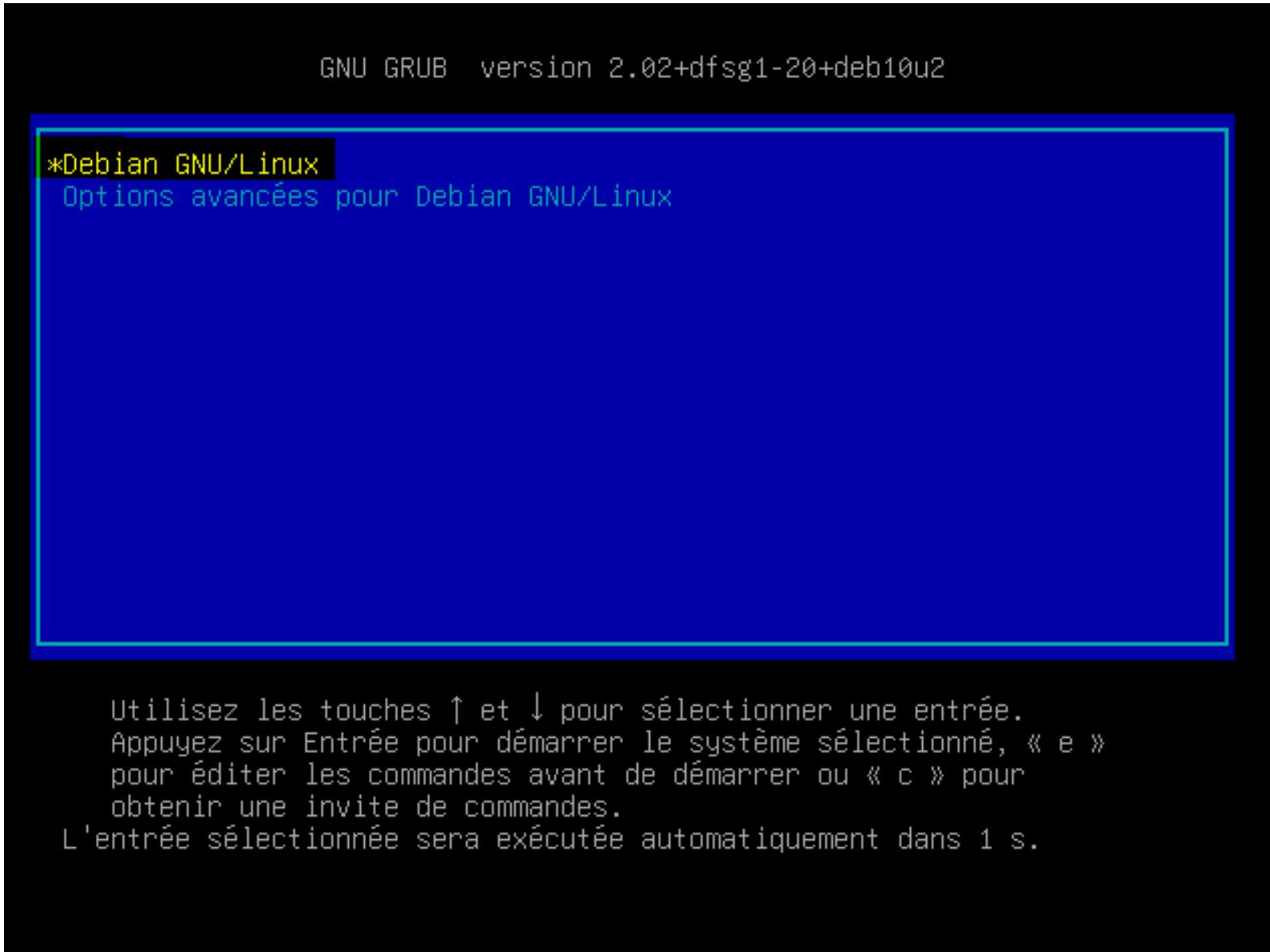
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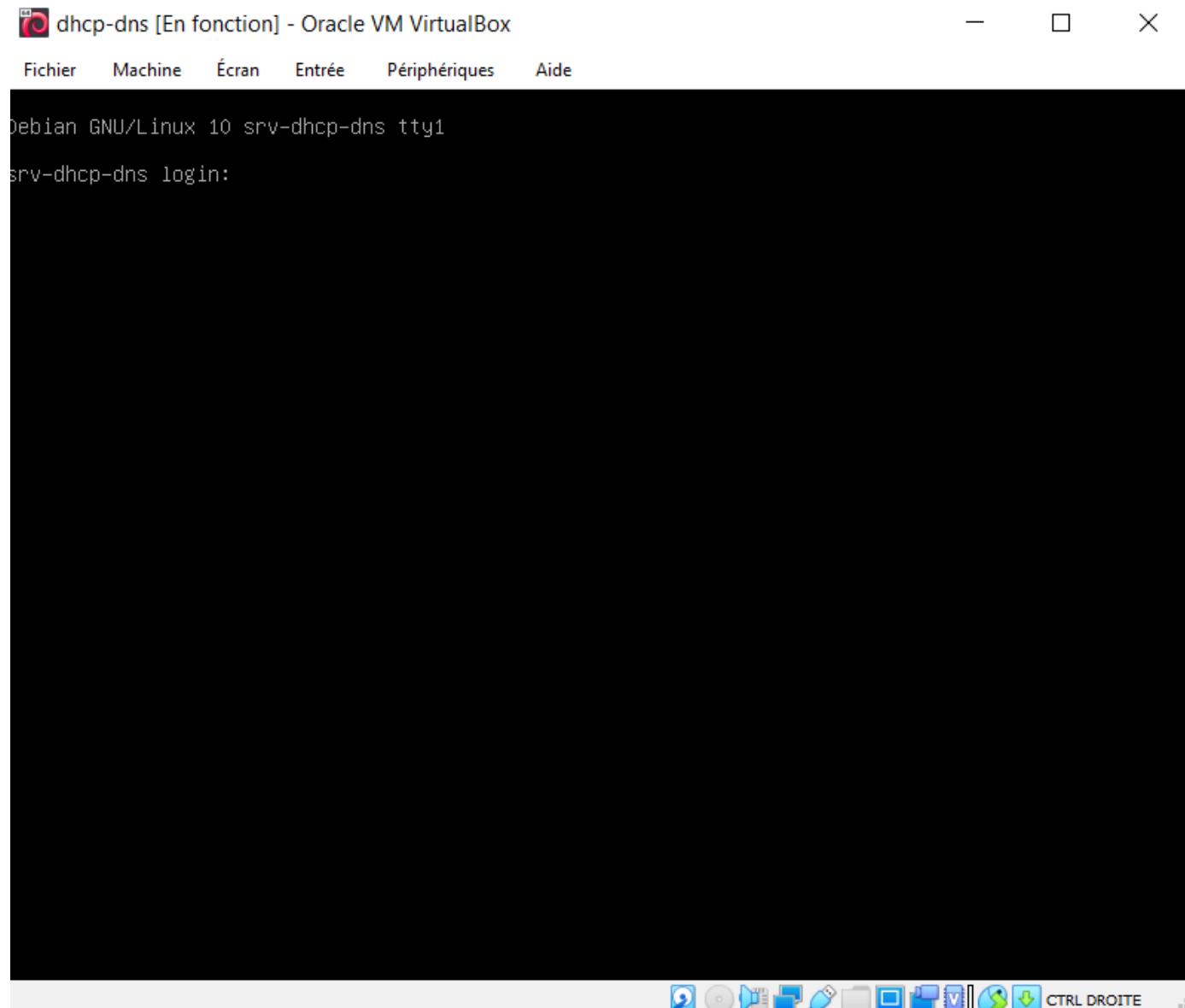
# Installation OS (x3) : serveur DHCP-DNS (roi)



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```
Debian GNU/Linux 10 srv-dhcp-dns tty1

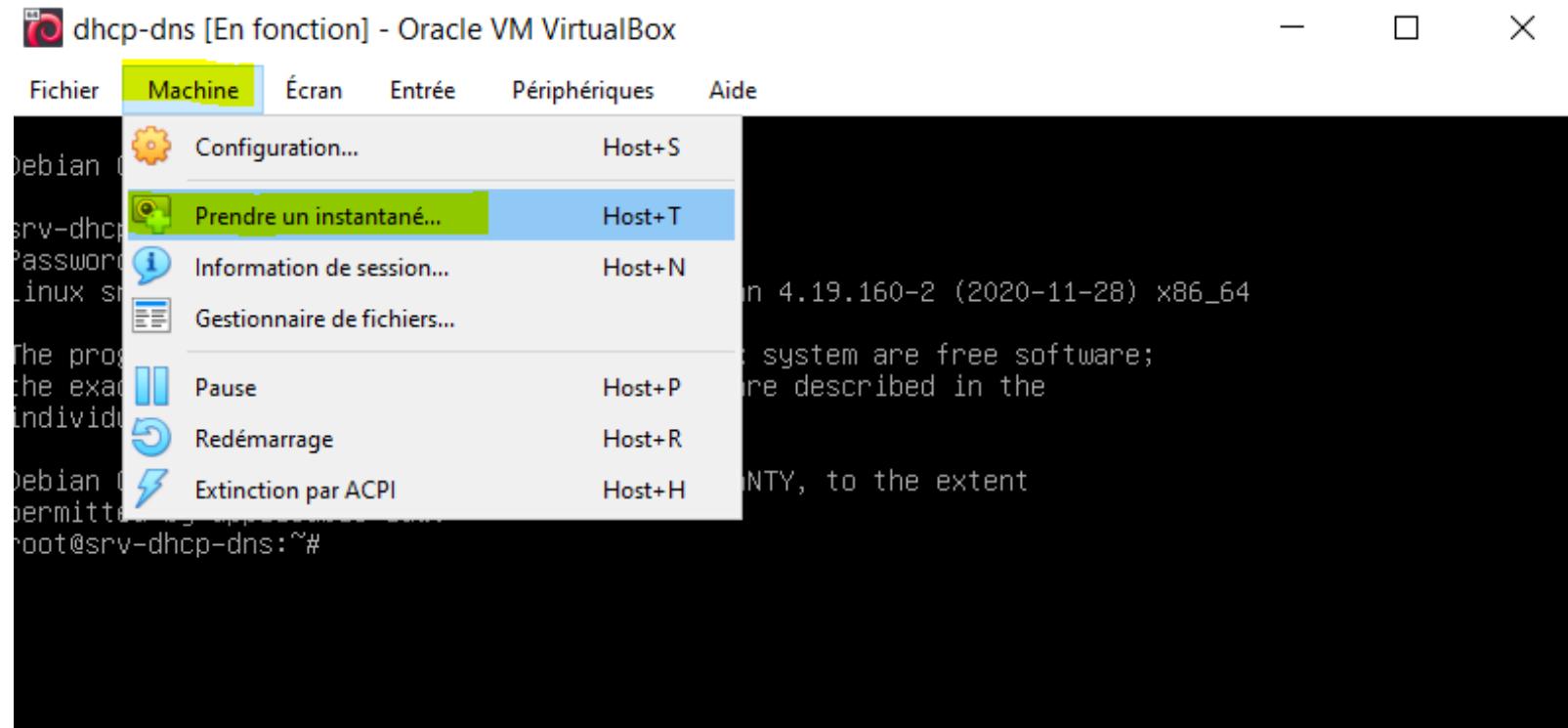
srv-dhcp-dns login: root
Password:
Linux srv-dhcp-dns 4.19.0-13-amd64 #1 SMP Debian 4.19.160-2 (2020-11-28) x86_64

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@srv-dhcp-dns:~# _
```

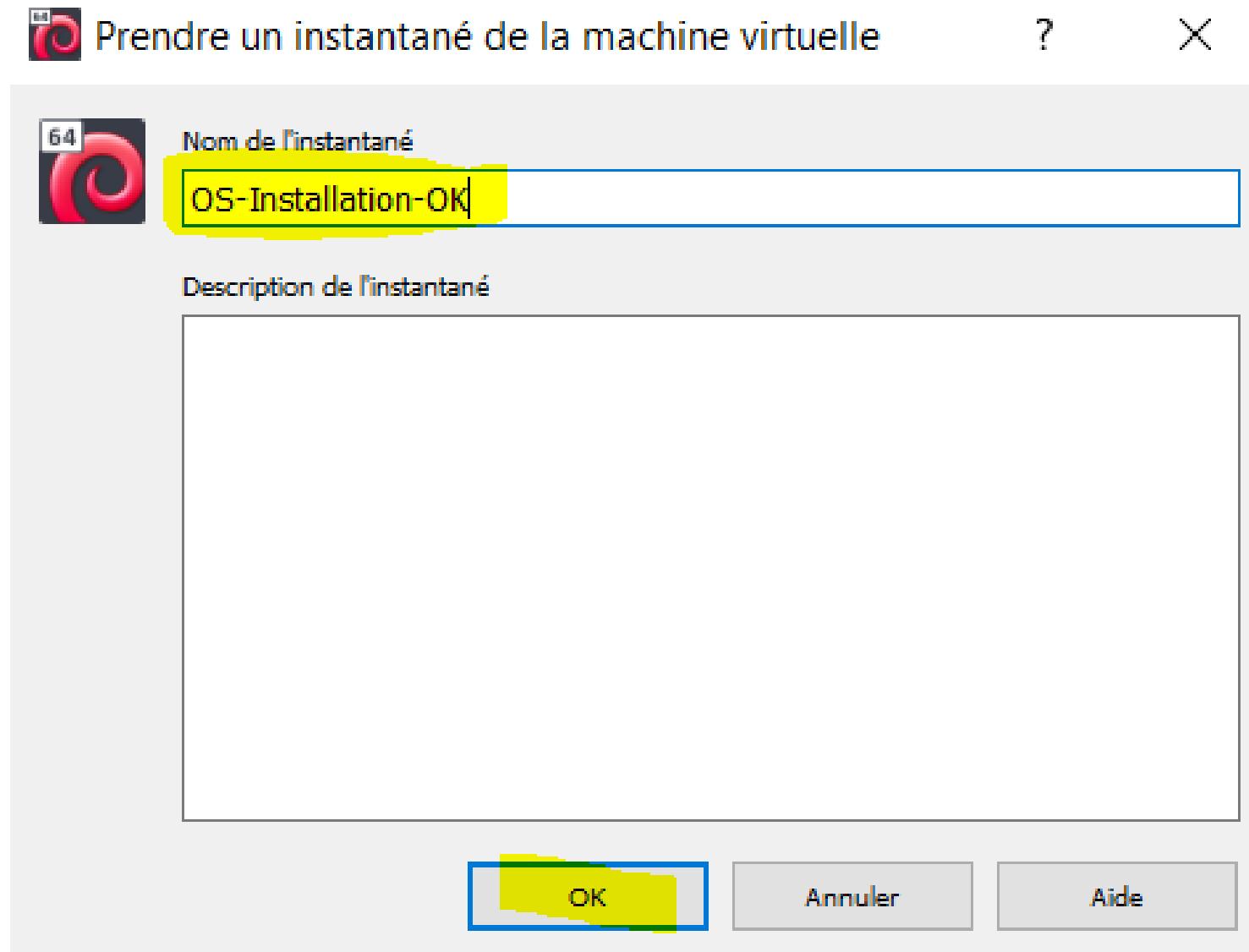
Semifir

# Installation OS (x3) : serveur DHCP-DNS (roi)



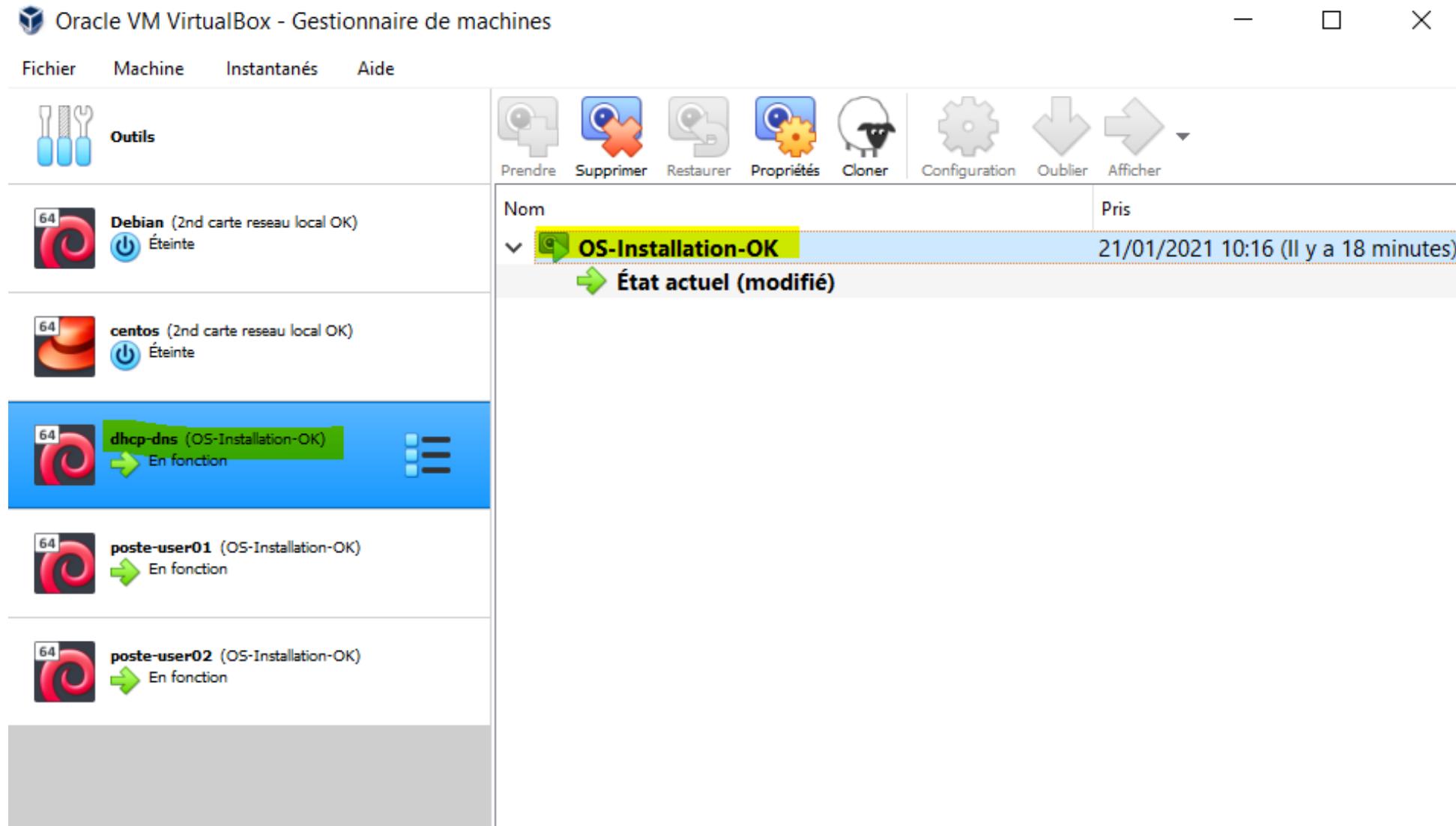
Semifir

# Installation OS (x3) : serveur DHCP-DNS (roi)



En cas de problème  
(crash ou autres de votre VM)  
pendant le TD, ce « snapshot »  
vous permet de revenir au début  
de votre configuration sans passer  
par la case réinstallation des paramètres  
et système d'exploitation.

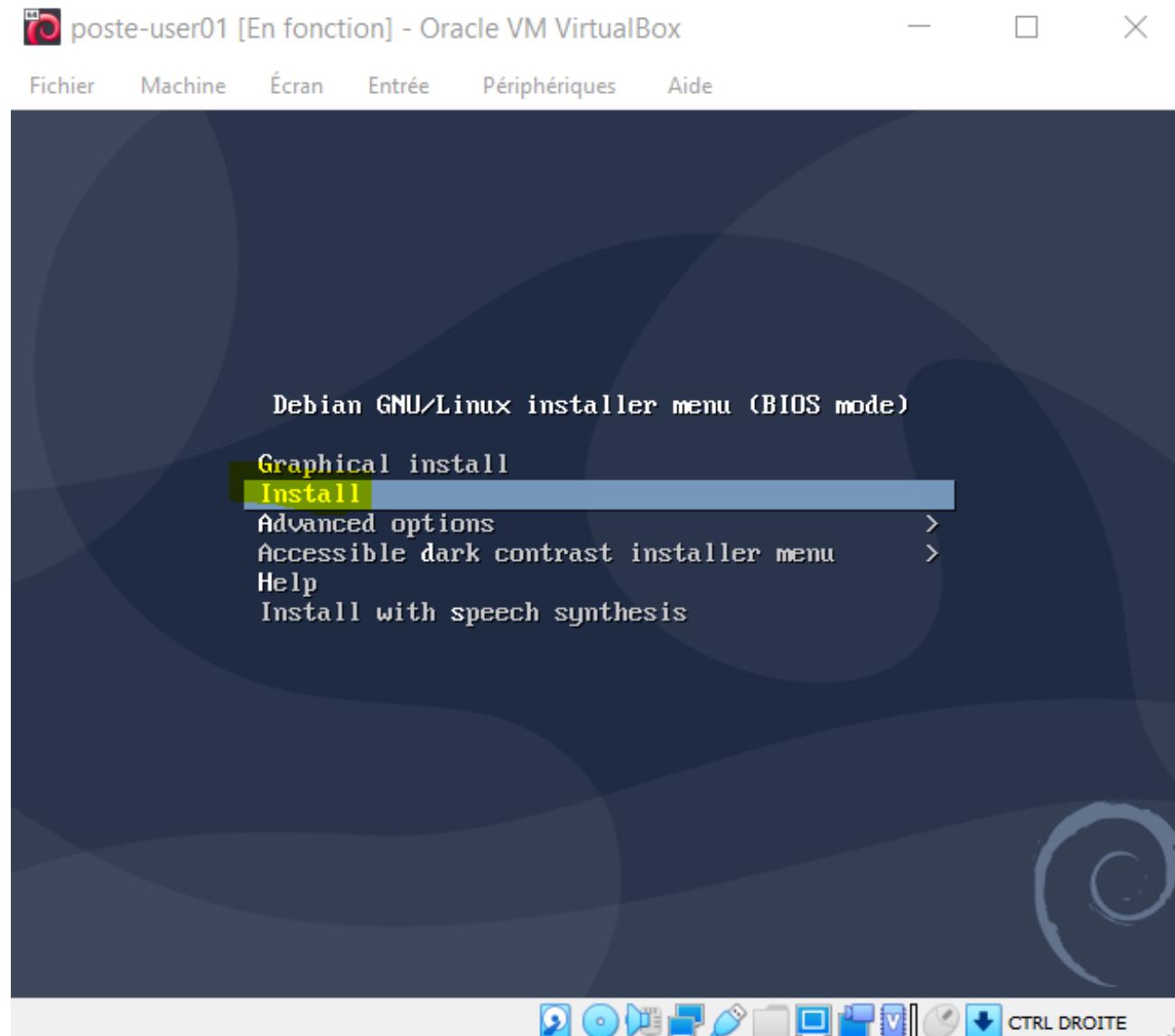
# Installation OS (x3) : serveur DHCP-DNS (roi)



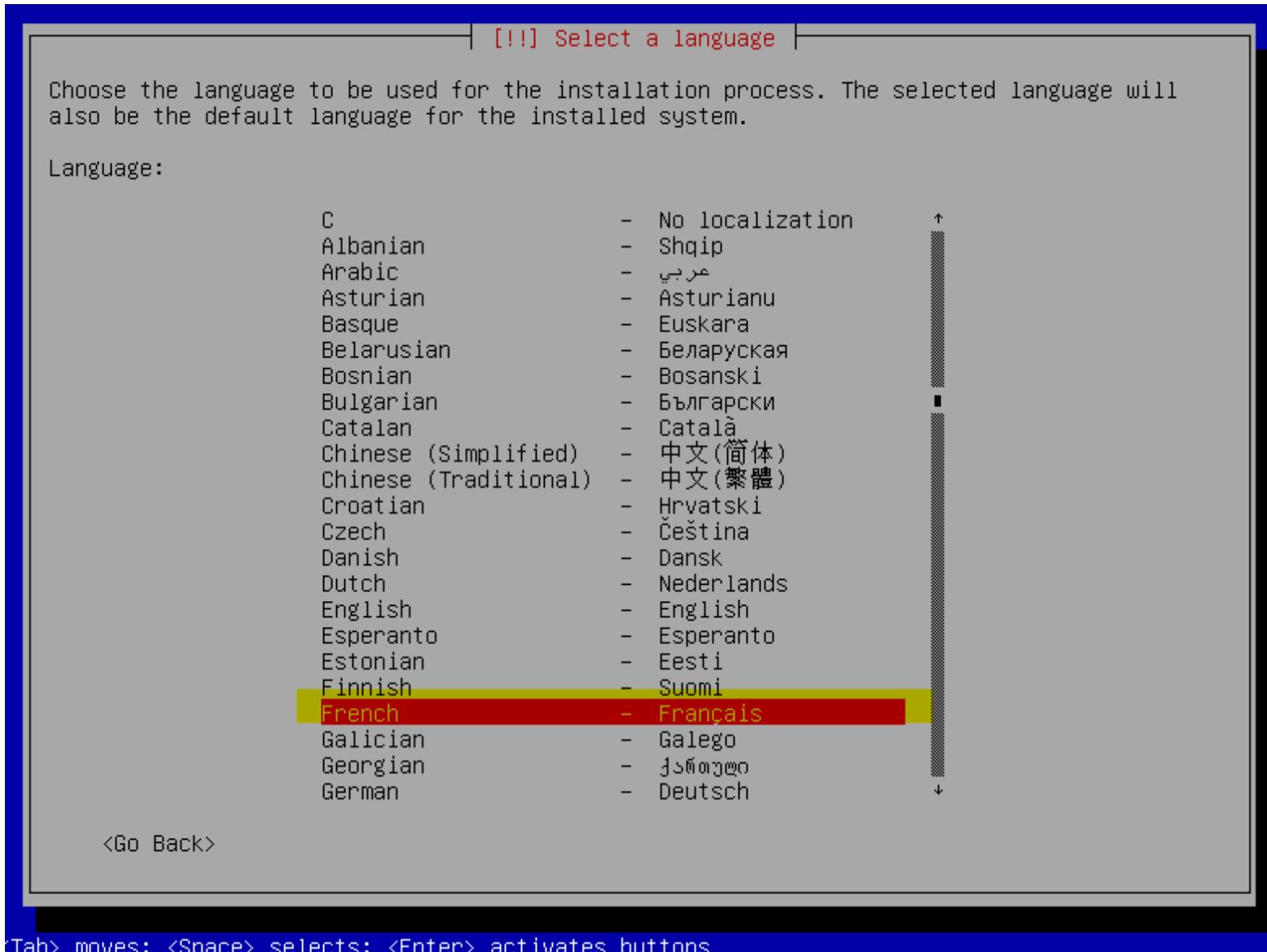
# Installation Poste client user01



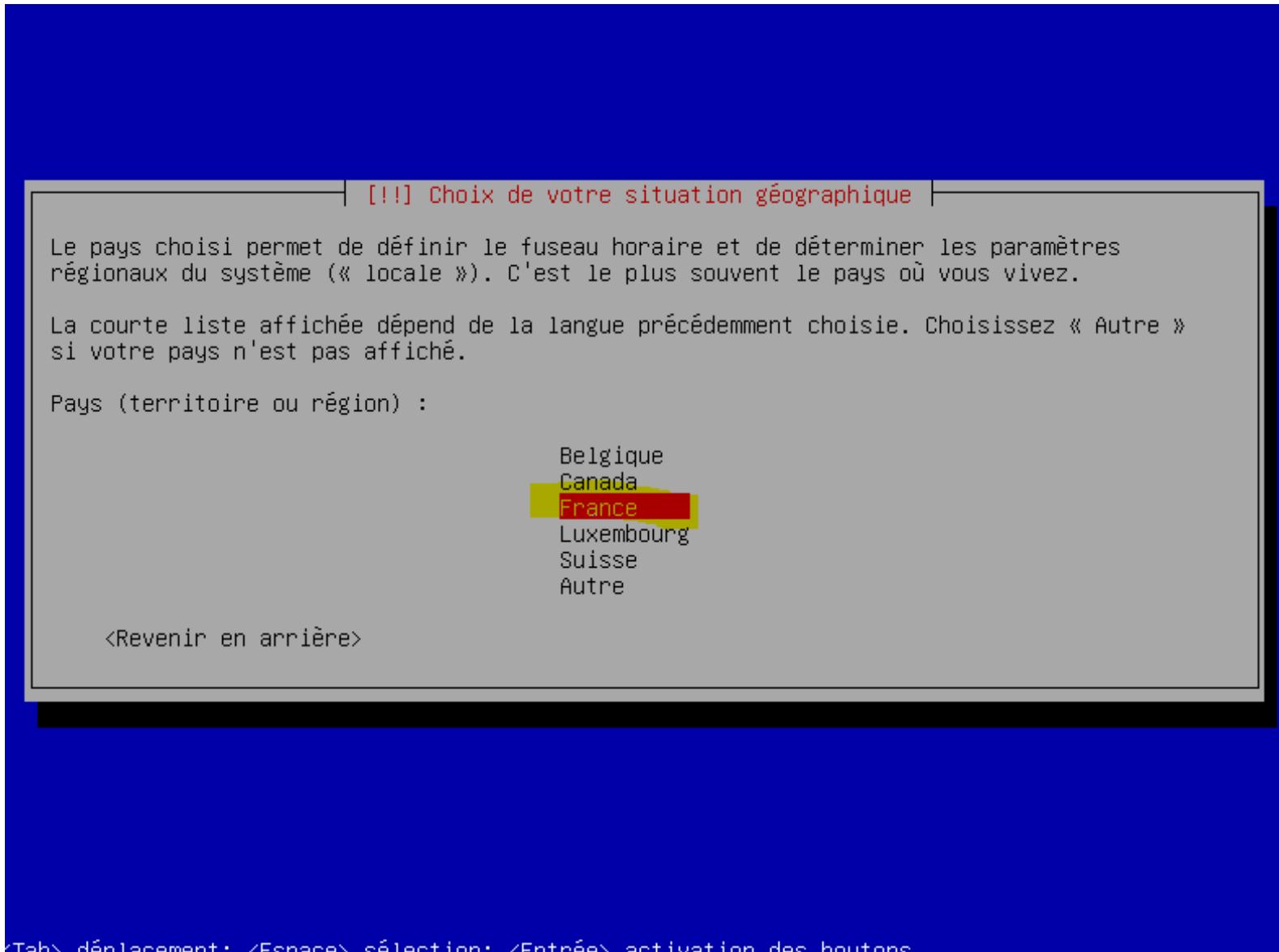
# Installation OS (x3) : poste client user01 (reine)



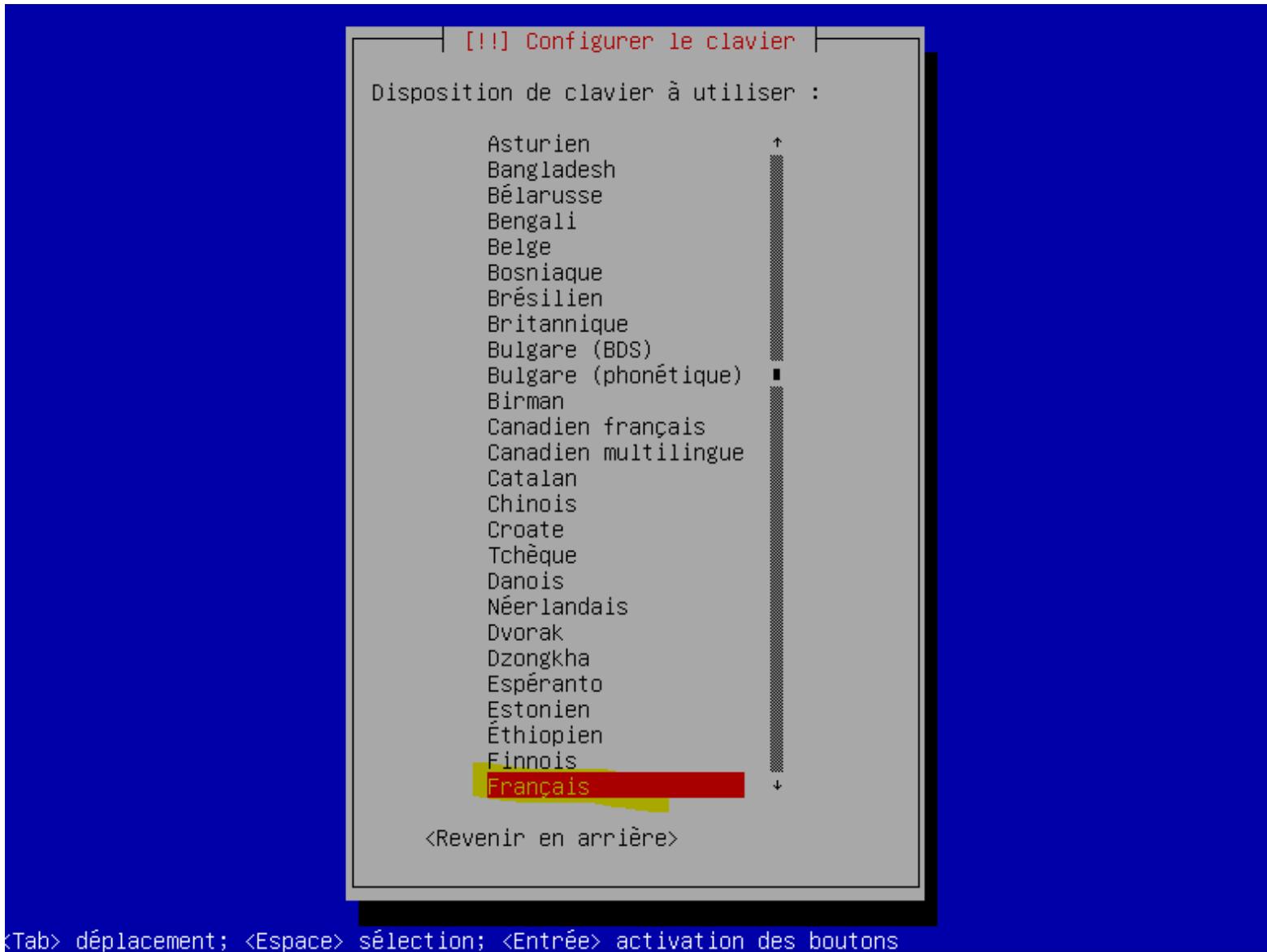
# Installation OS (x3) : poste client user01 (reine)



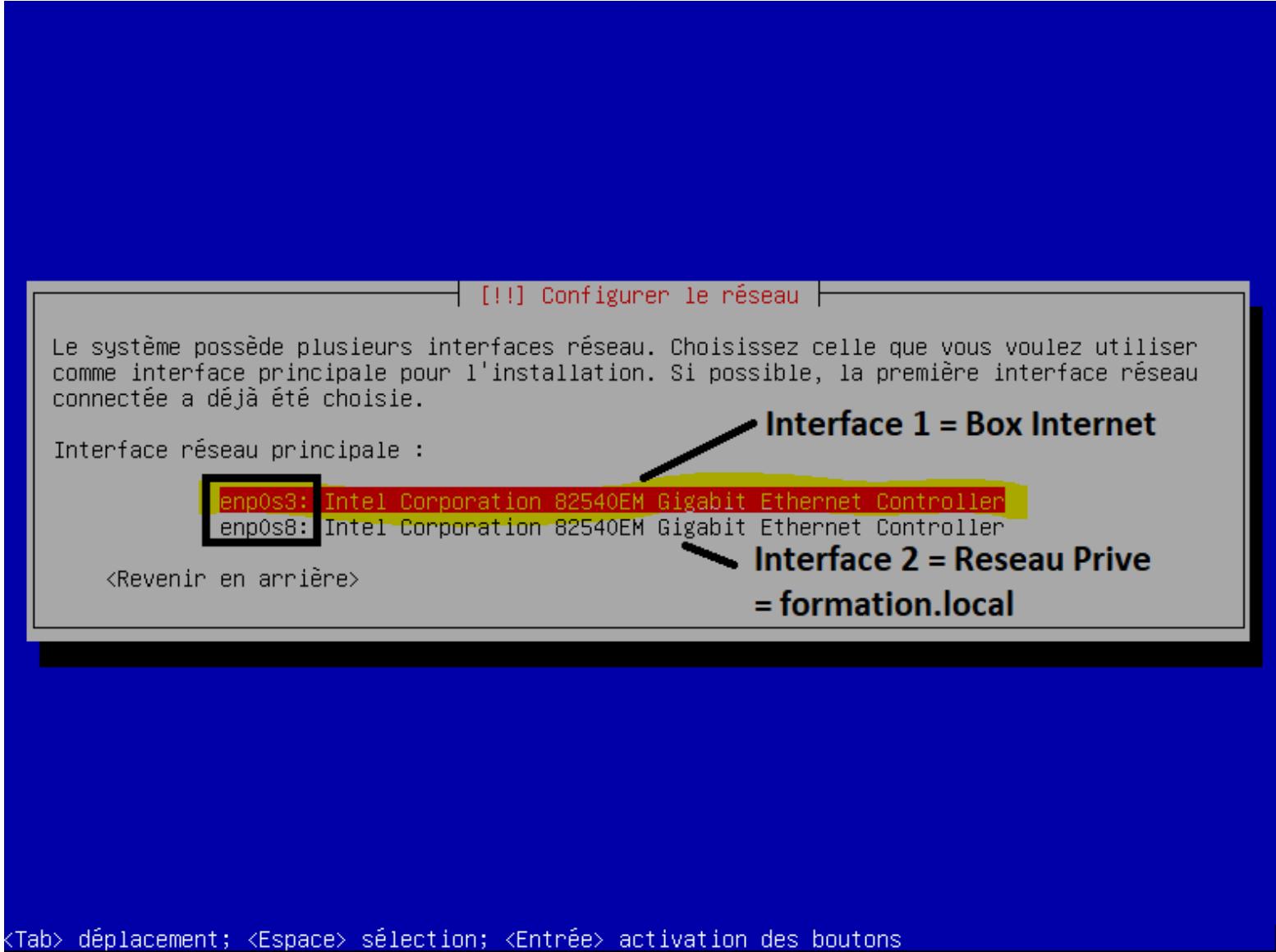
# Installation OS (x3) : poste client user01 (reine)



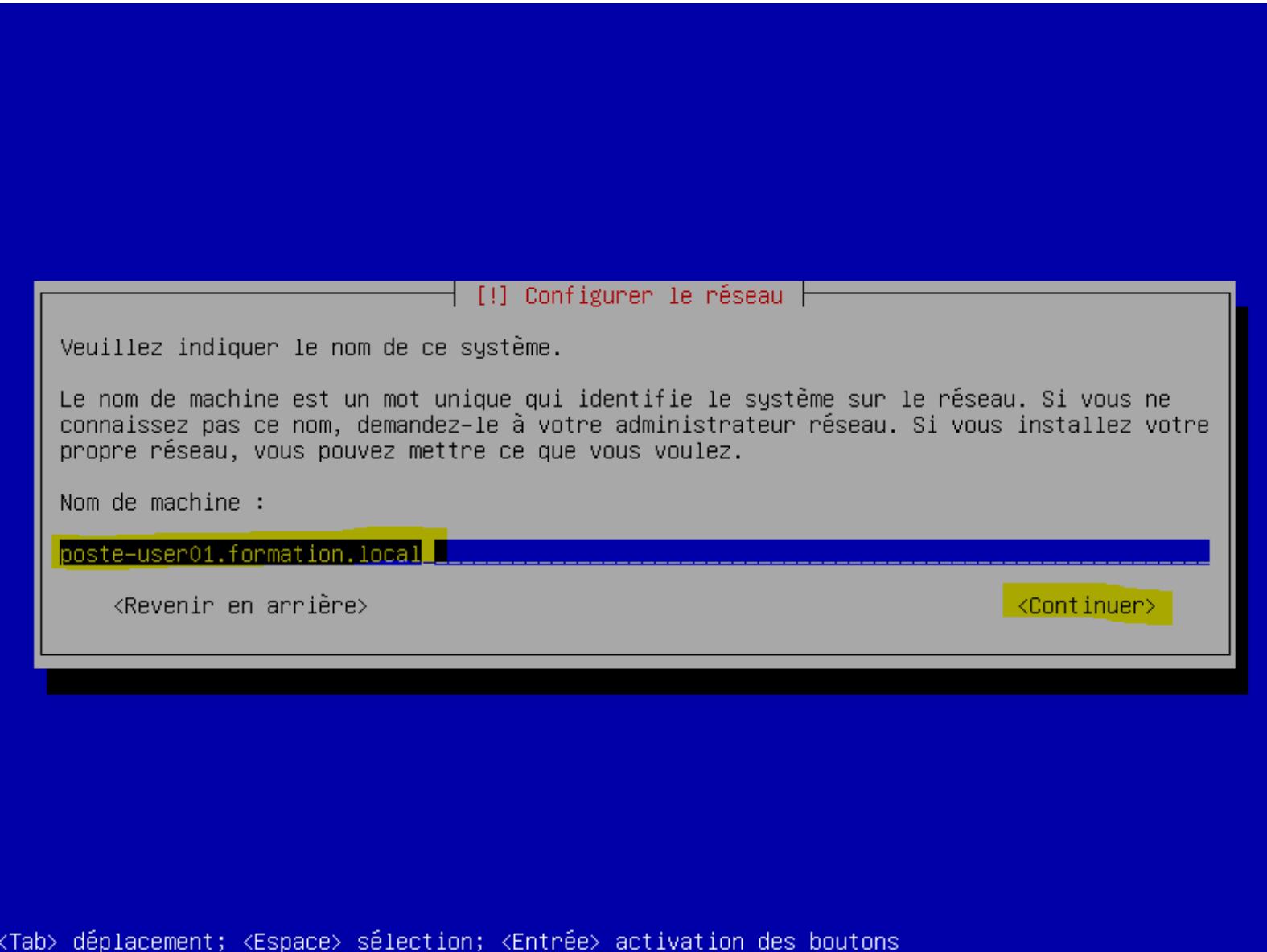
# Installation OS (x3) : poste client user01 (reine)



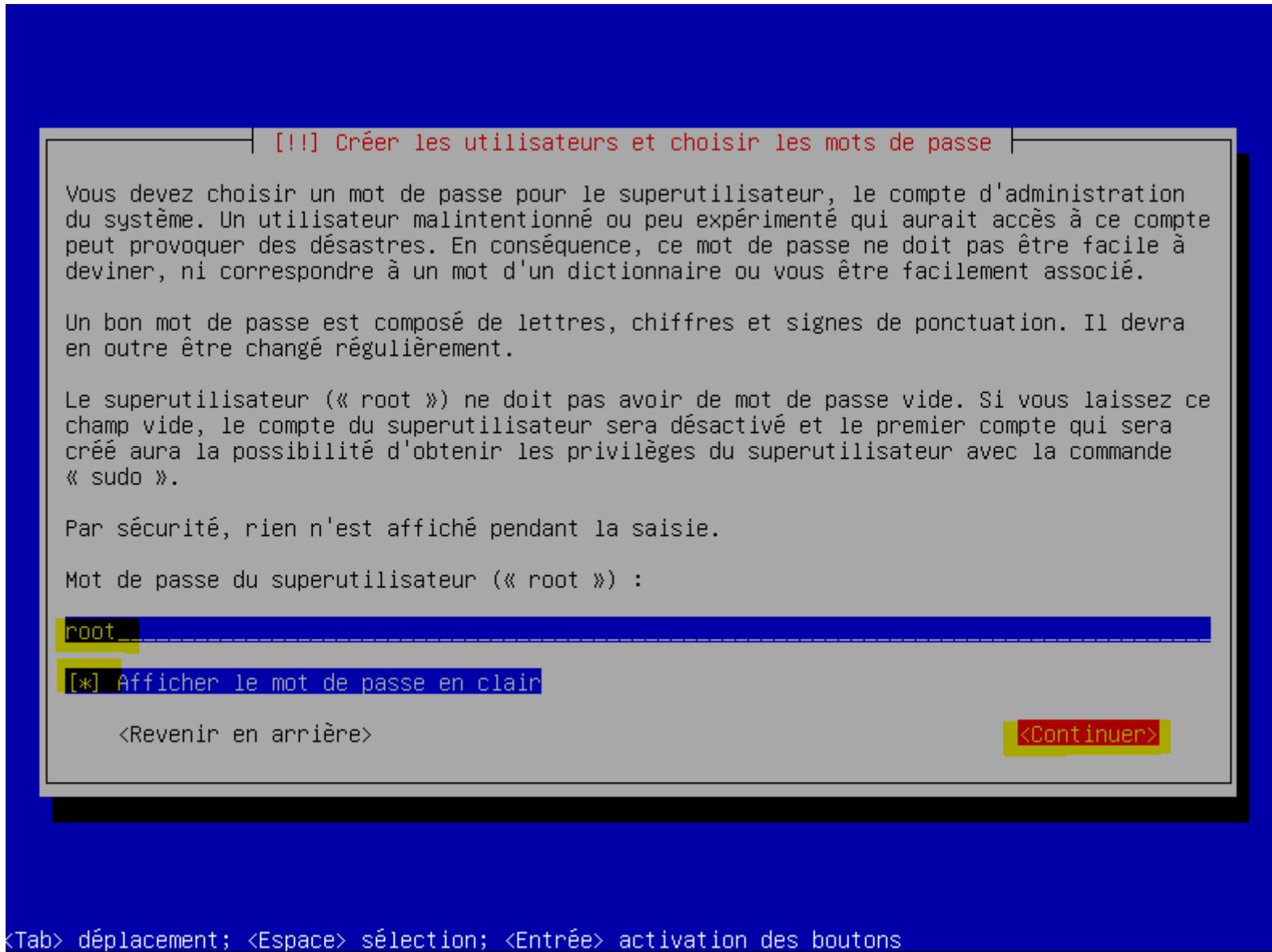
# Installation OS (x3) : poste client user01 (reine)



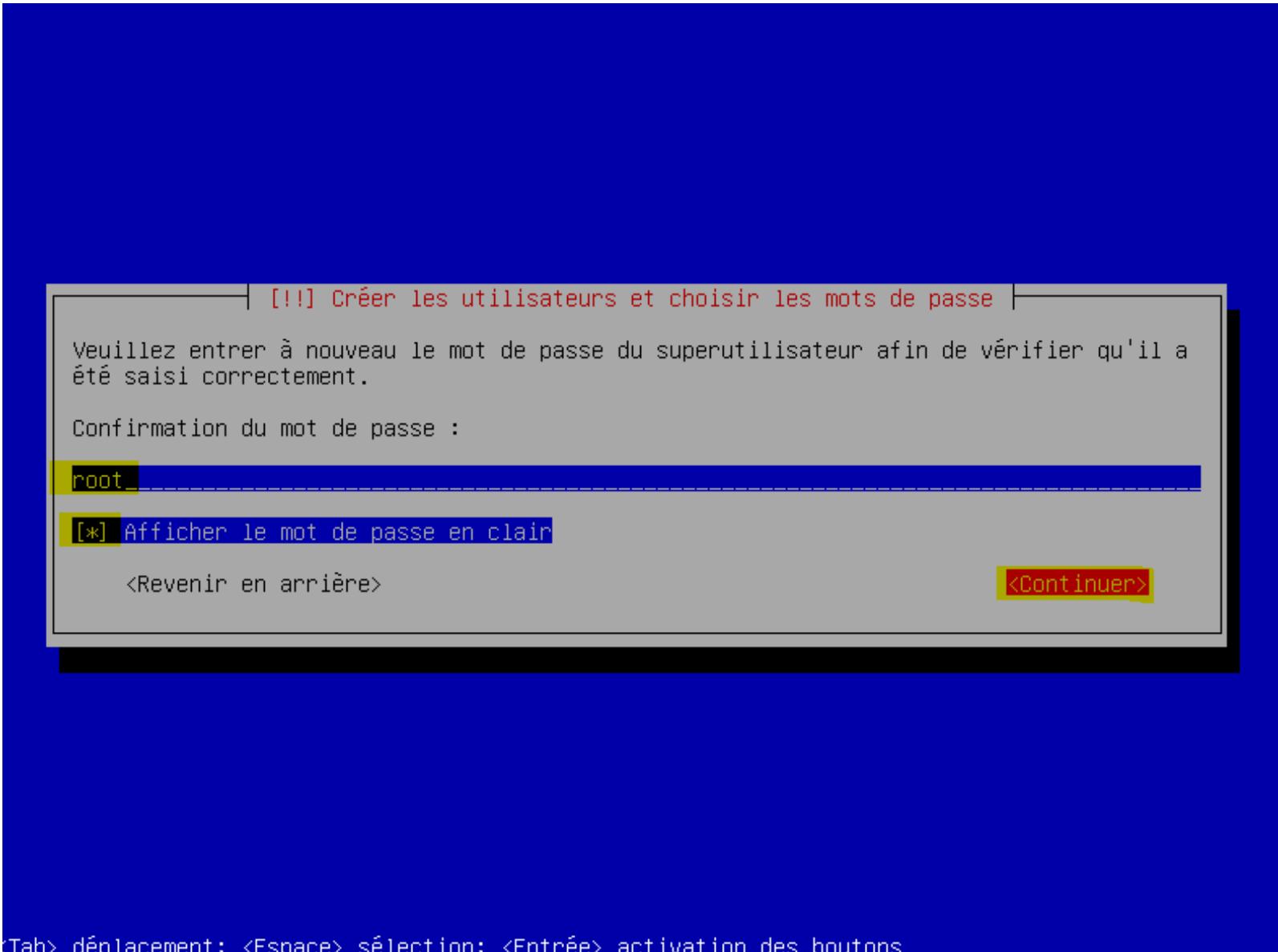
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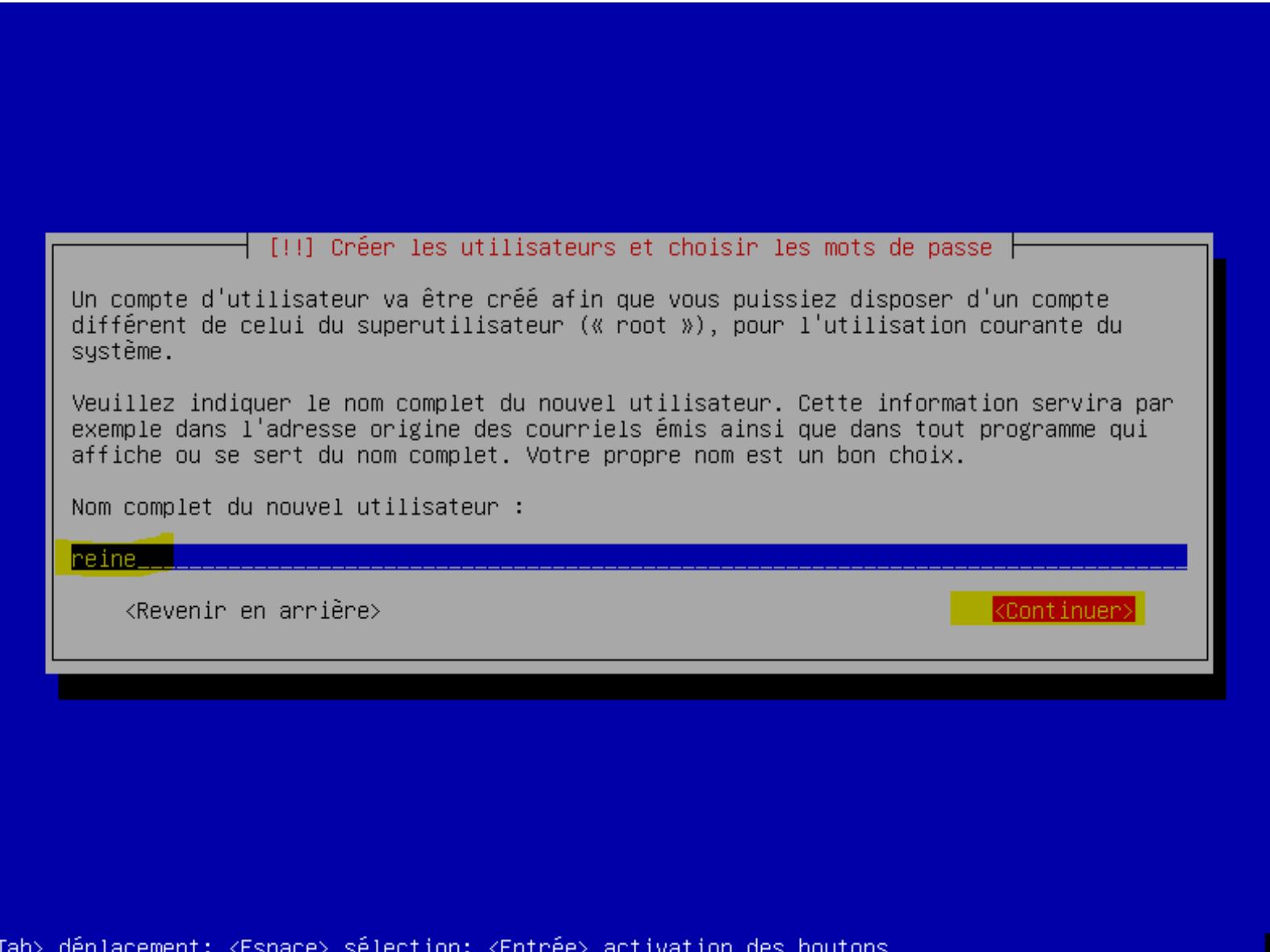
# Installation OS (x3) : poste client user01 (reine)



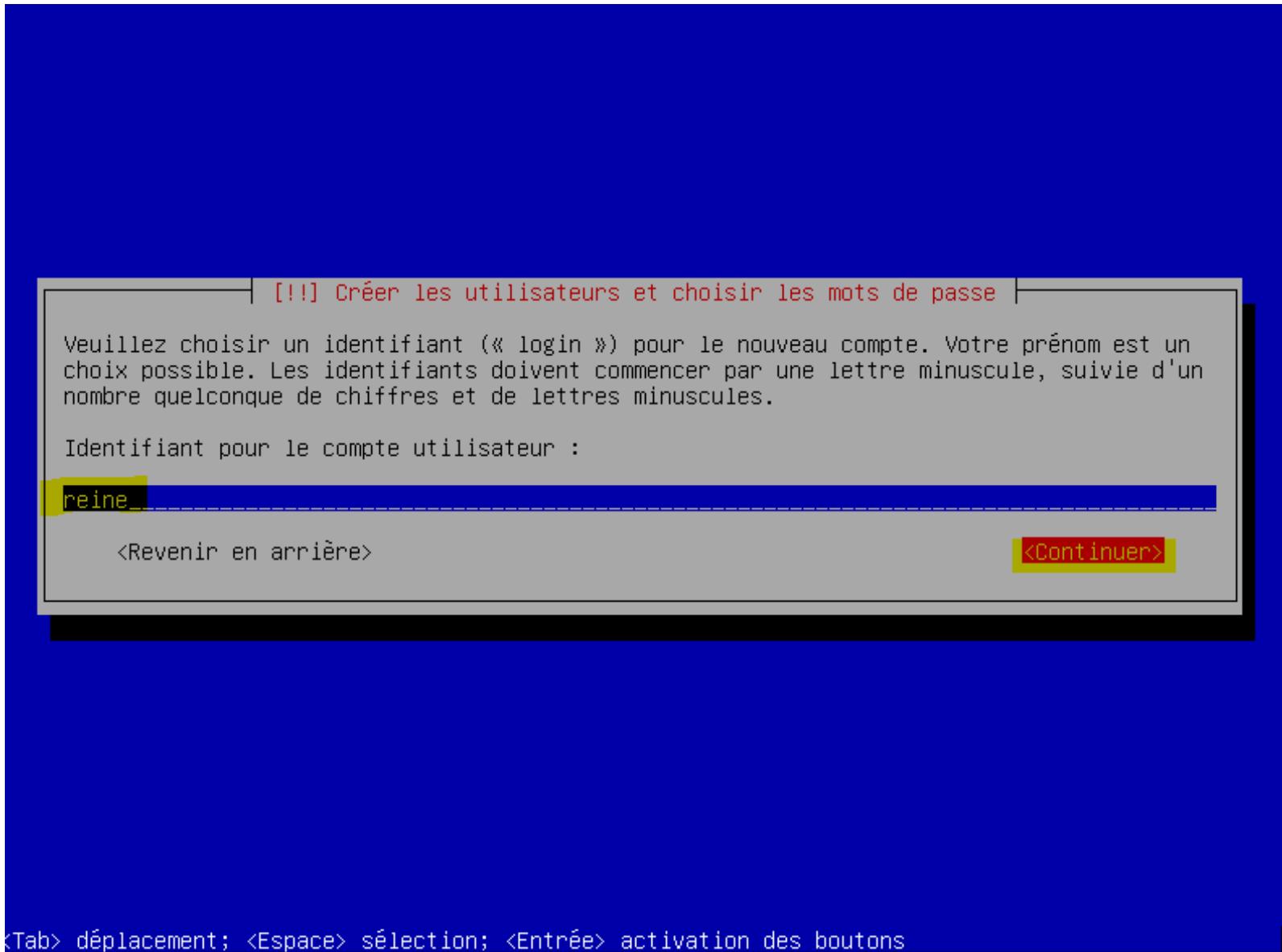
# Installation OS (x3) : poste client user01 (reine)



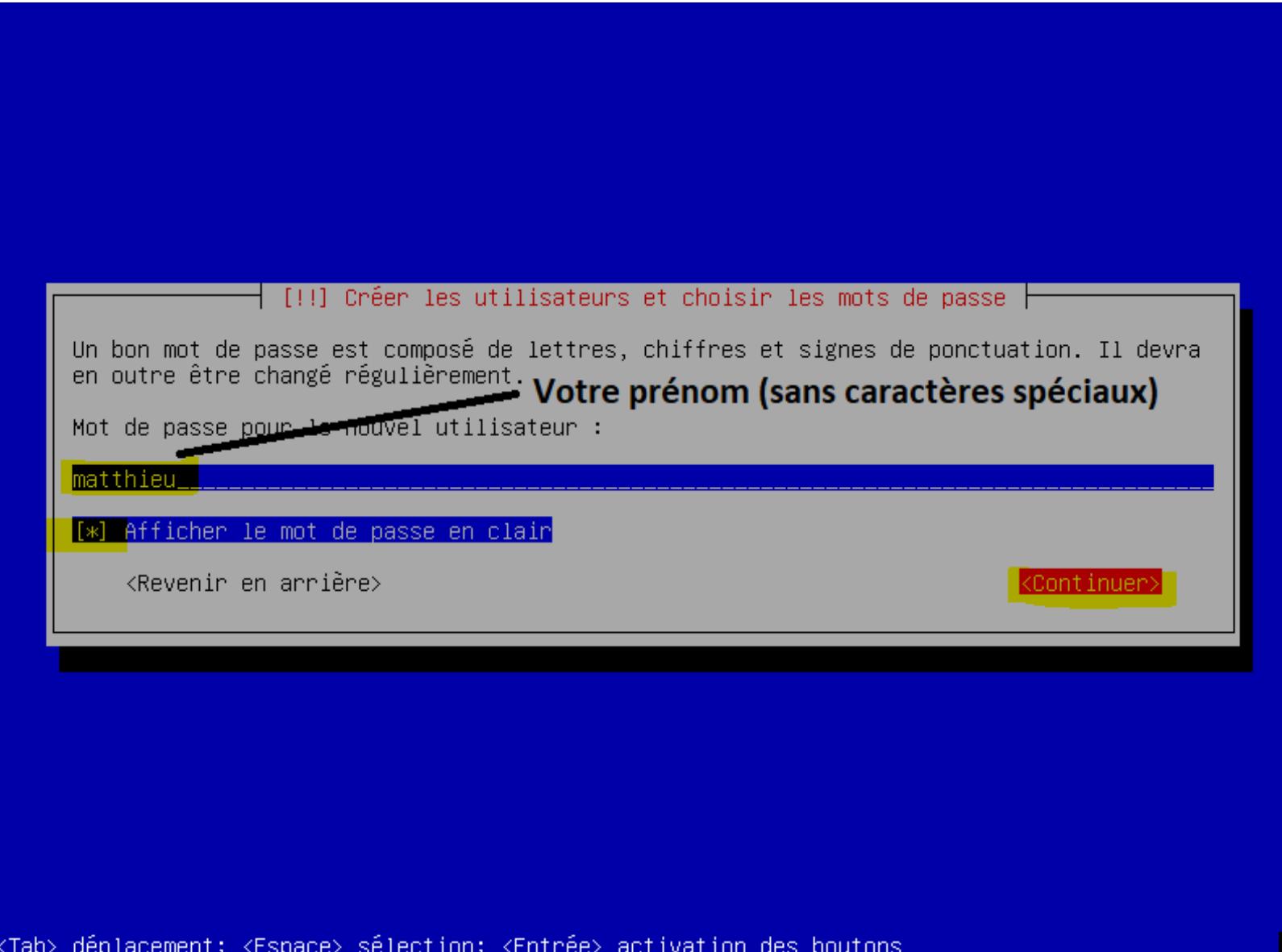
# Installation OS (x3) : poste client user01 (reine)



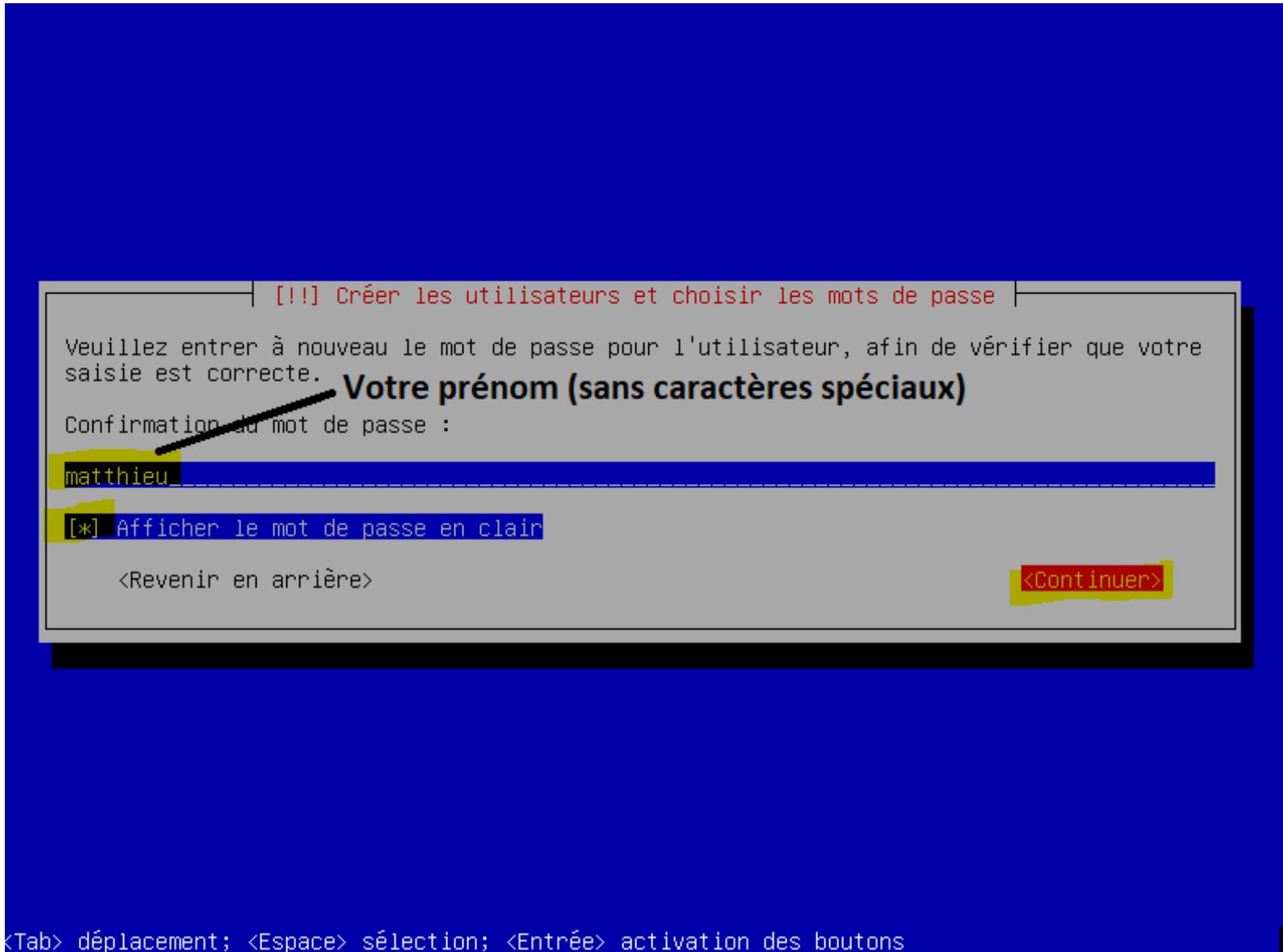
# Installation OS (x3) : poste client user01 (reine)



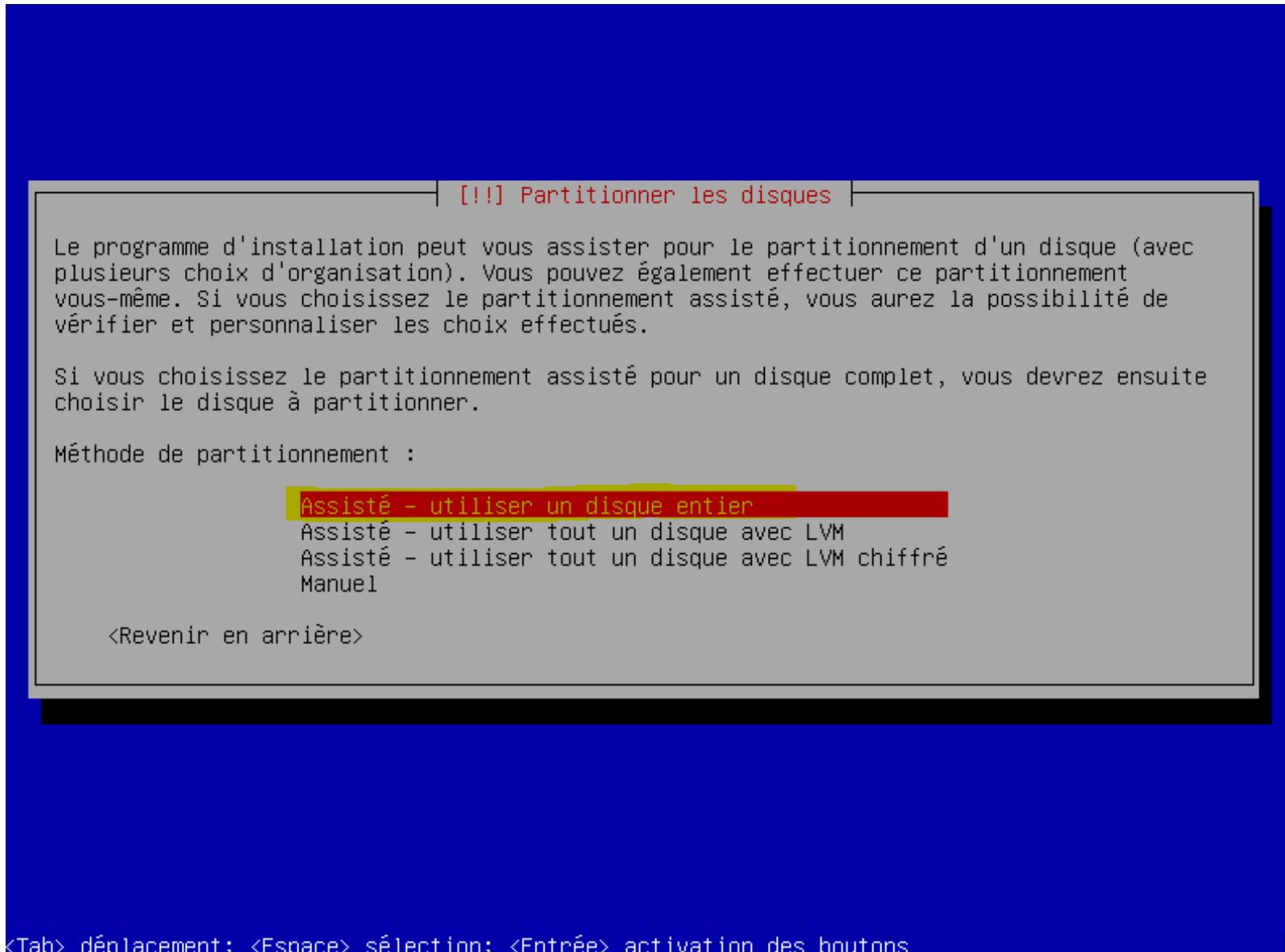
# Installation OS (x3) : poste client user01 (reine)



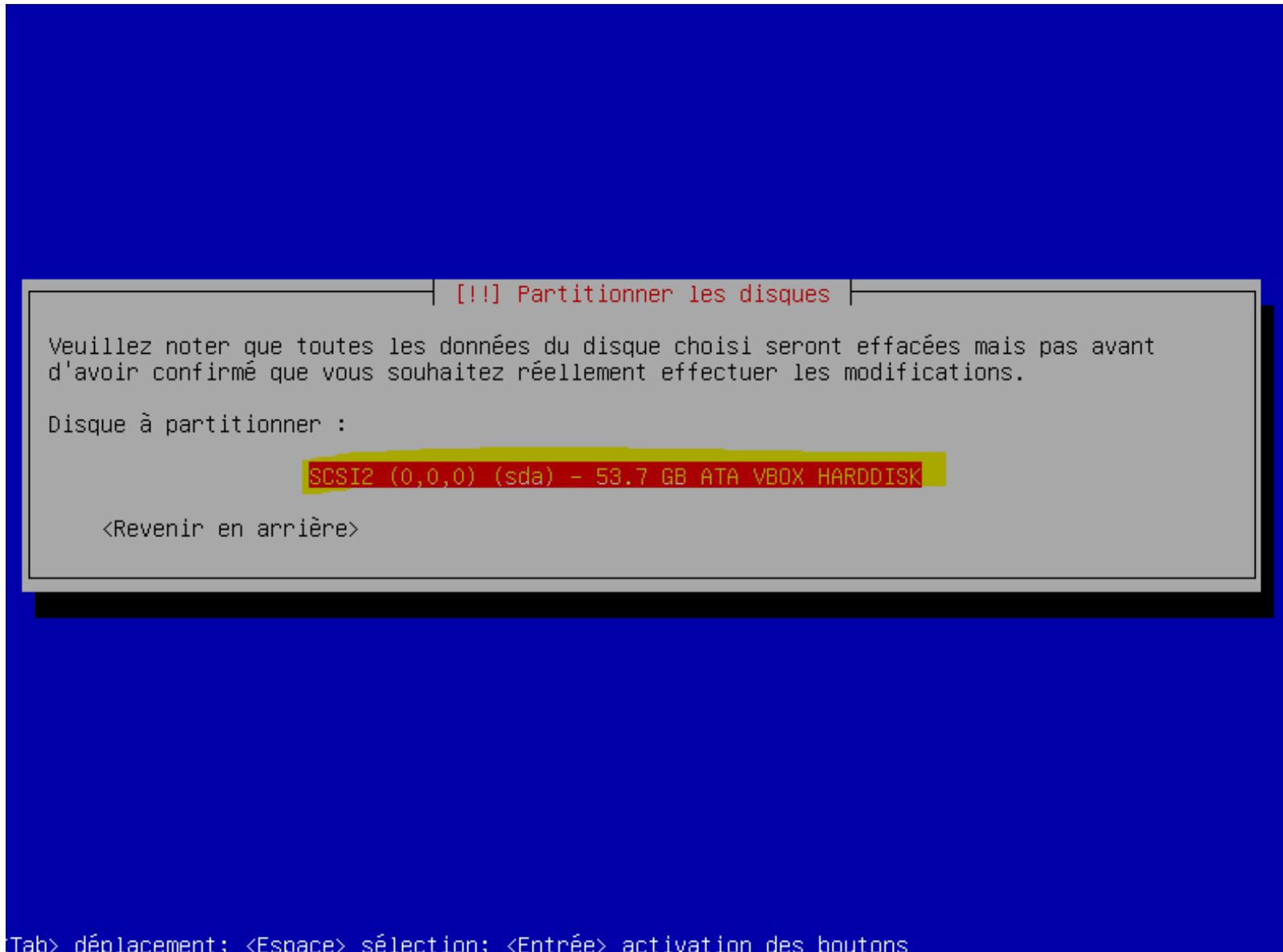
# Installation OS (x3) : poste client user01 (reine)



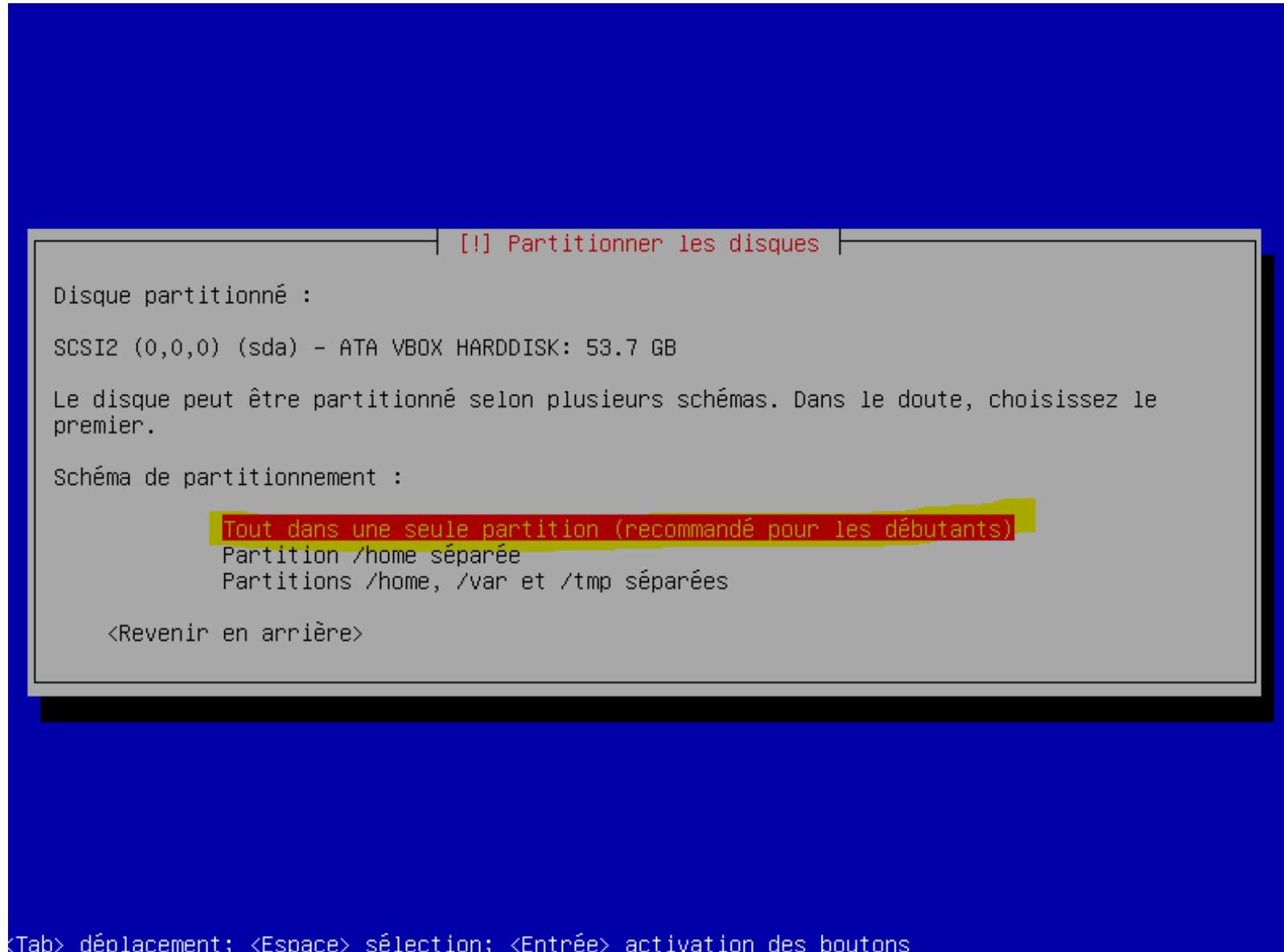
# Installation OS (x3) : poste client user01 (reine)



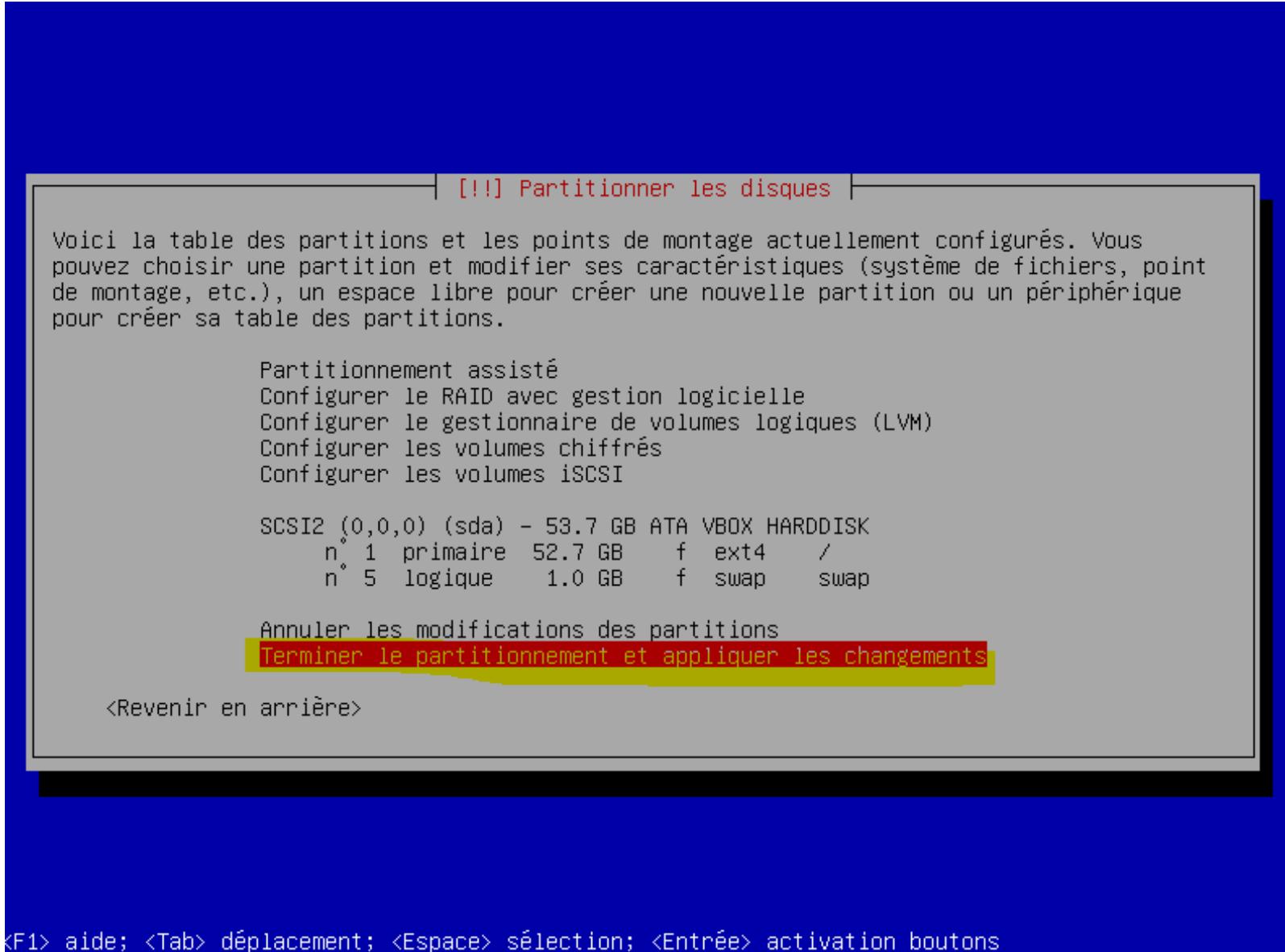
# Installation OS (x3) : poste client user01 (reine)



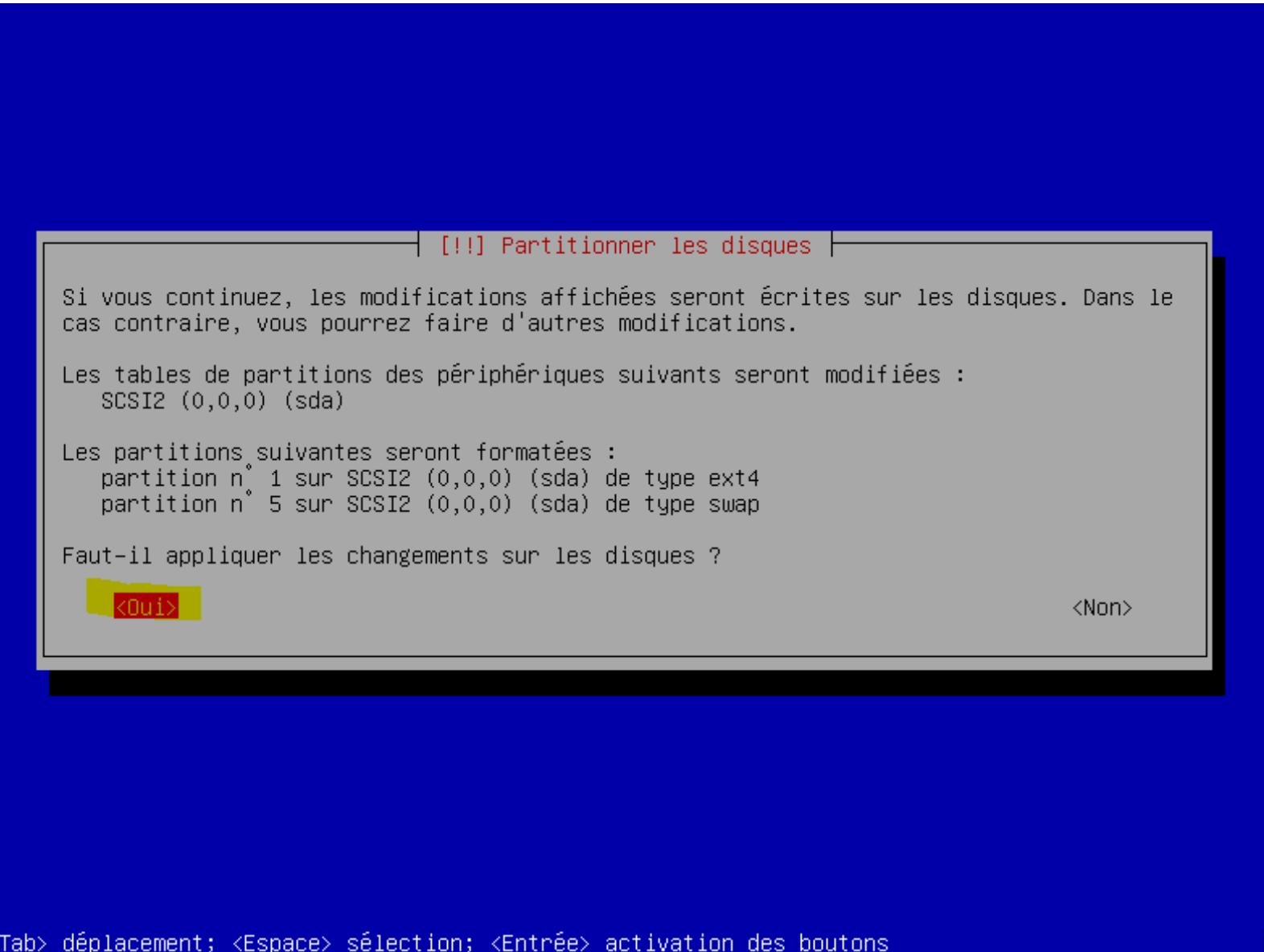
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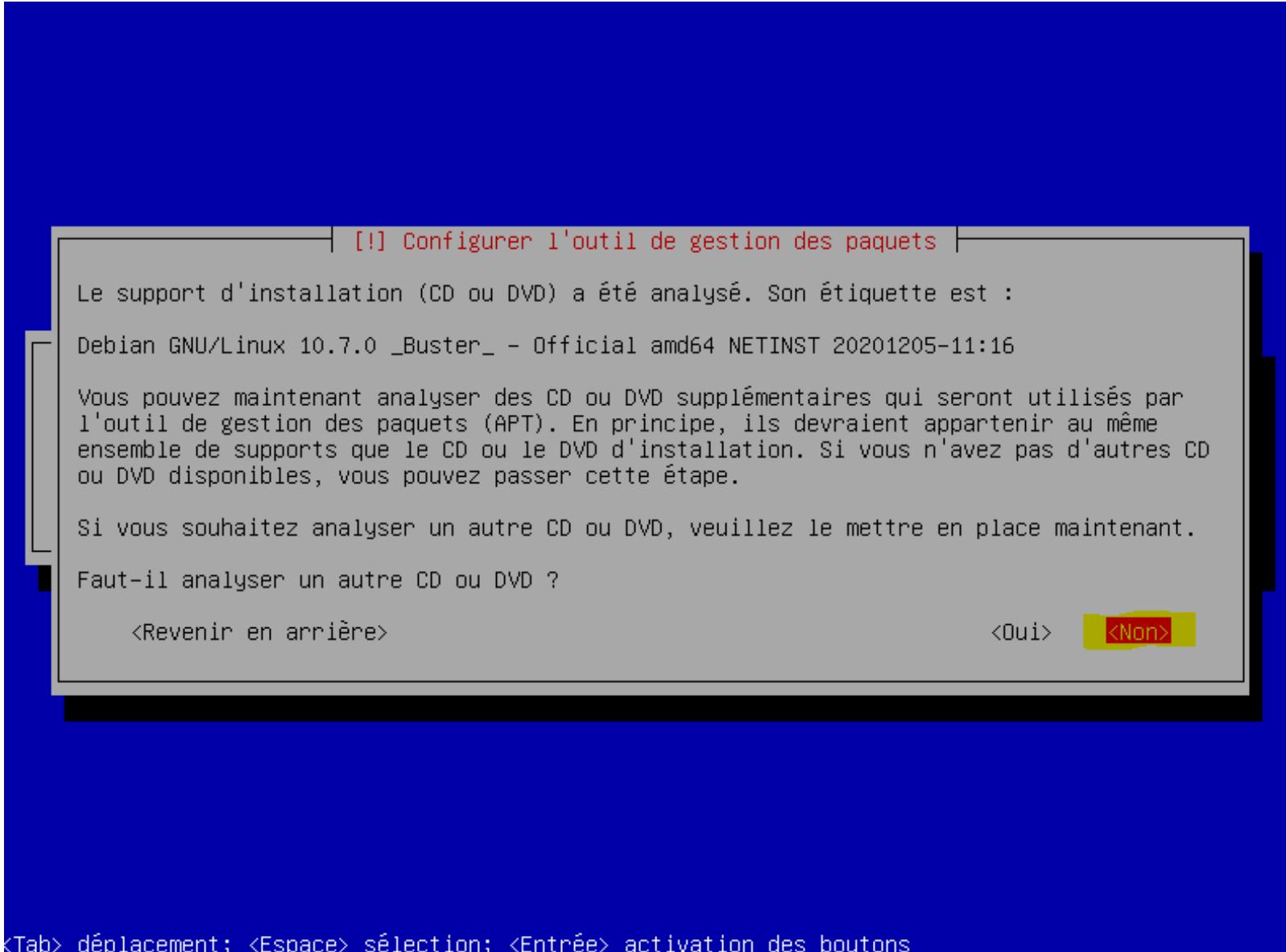
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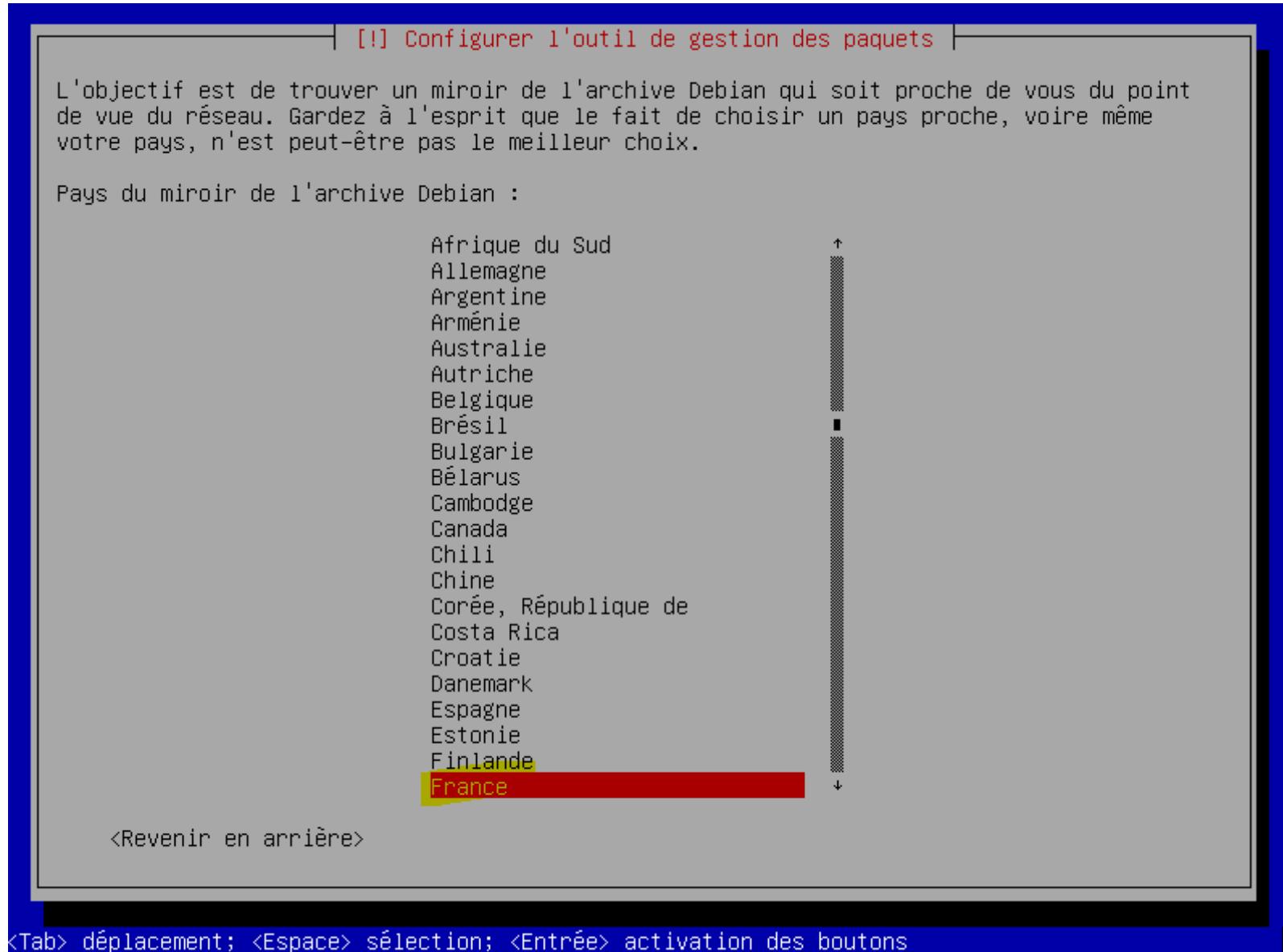
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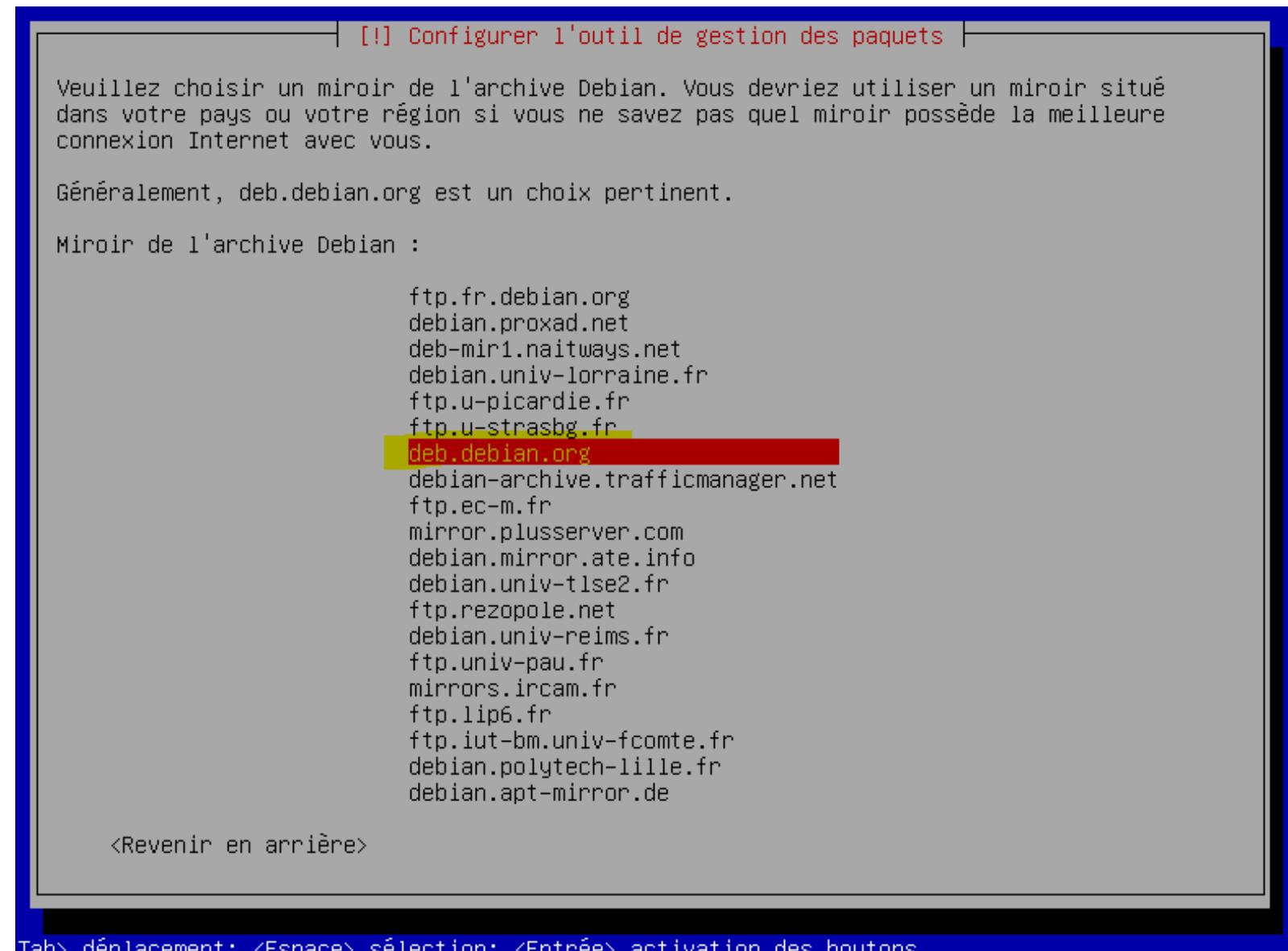
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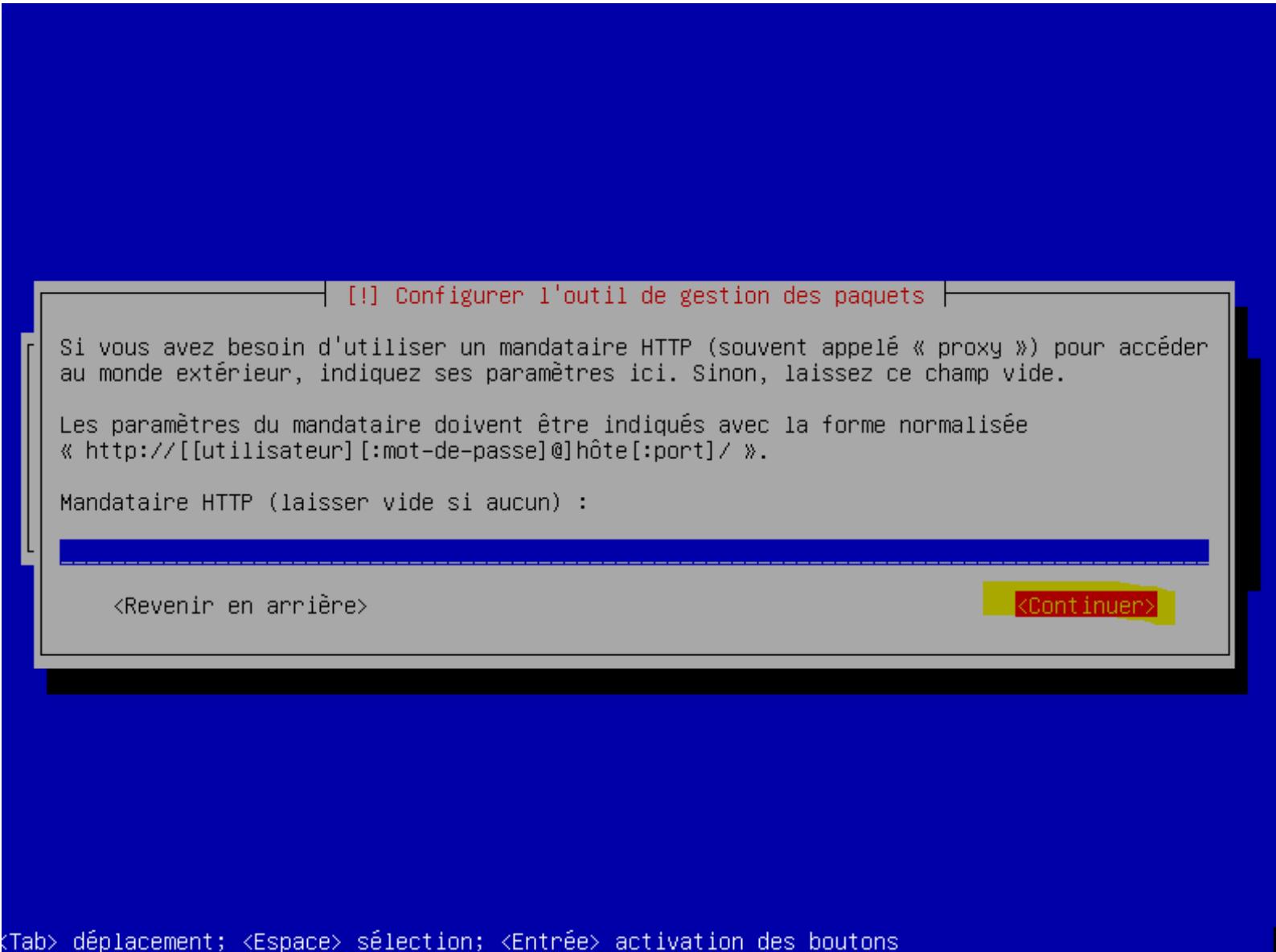
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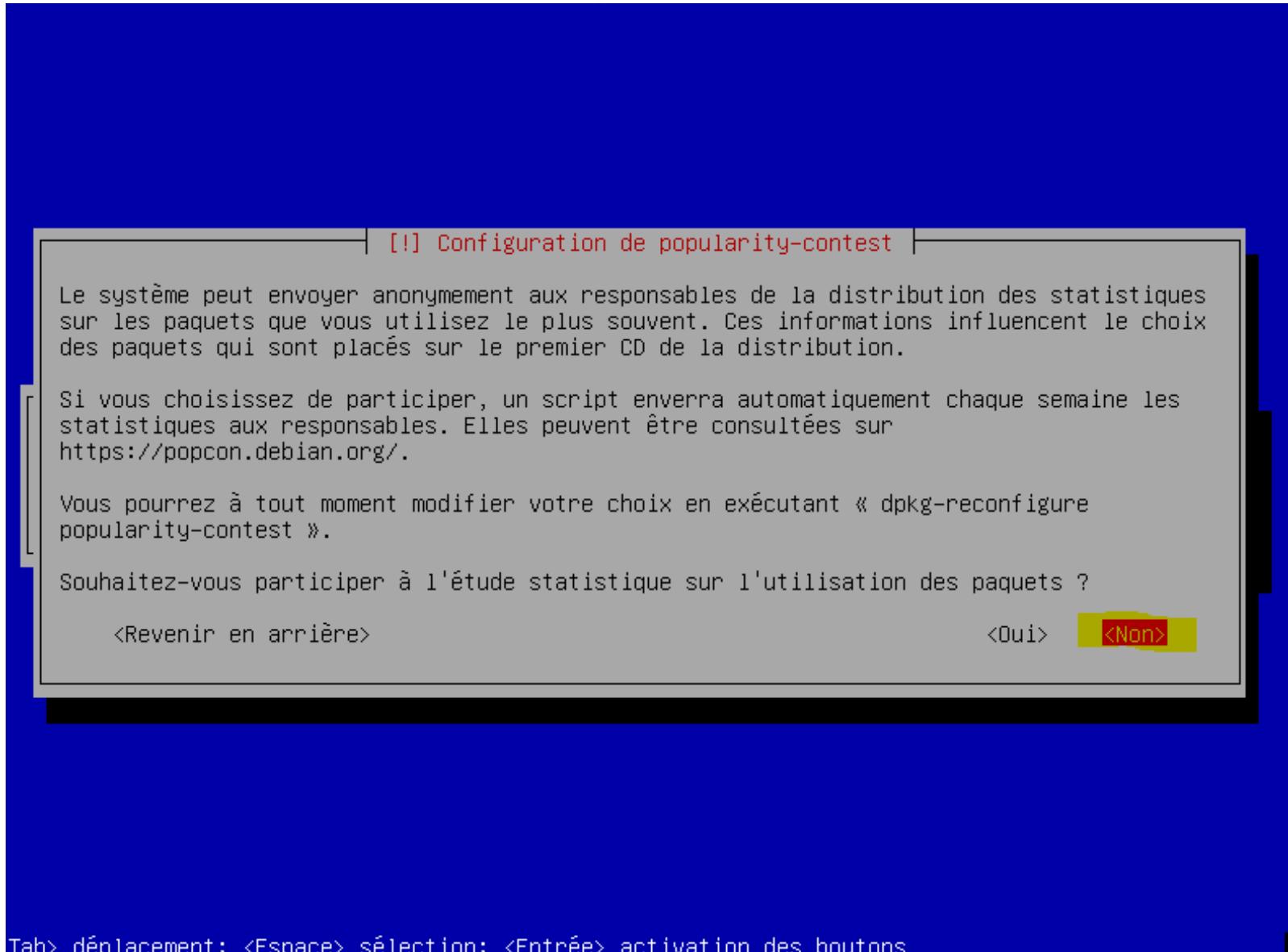
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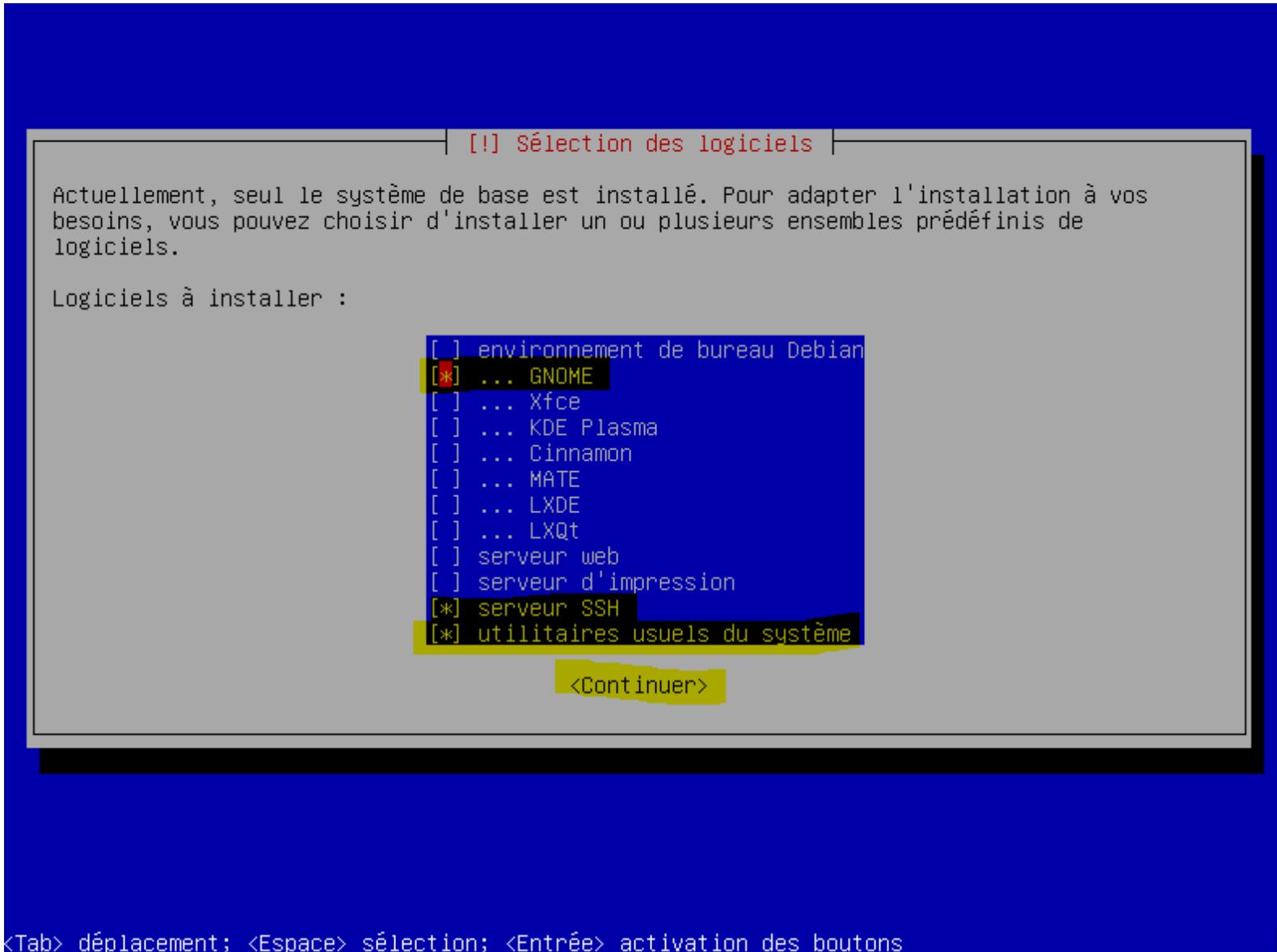
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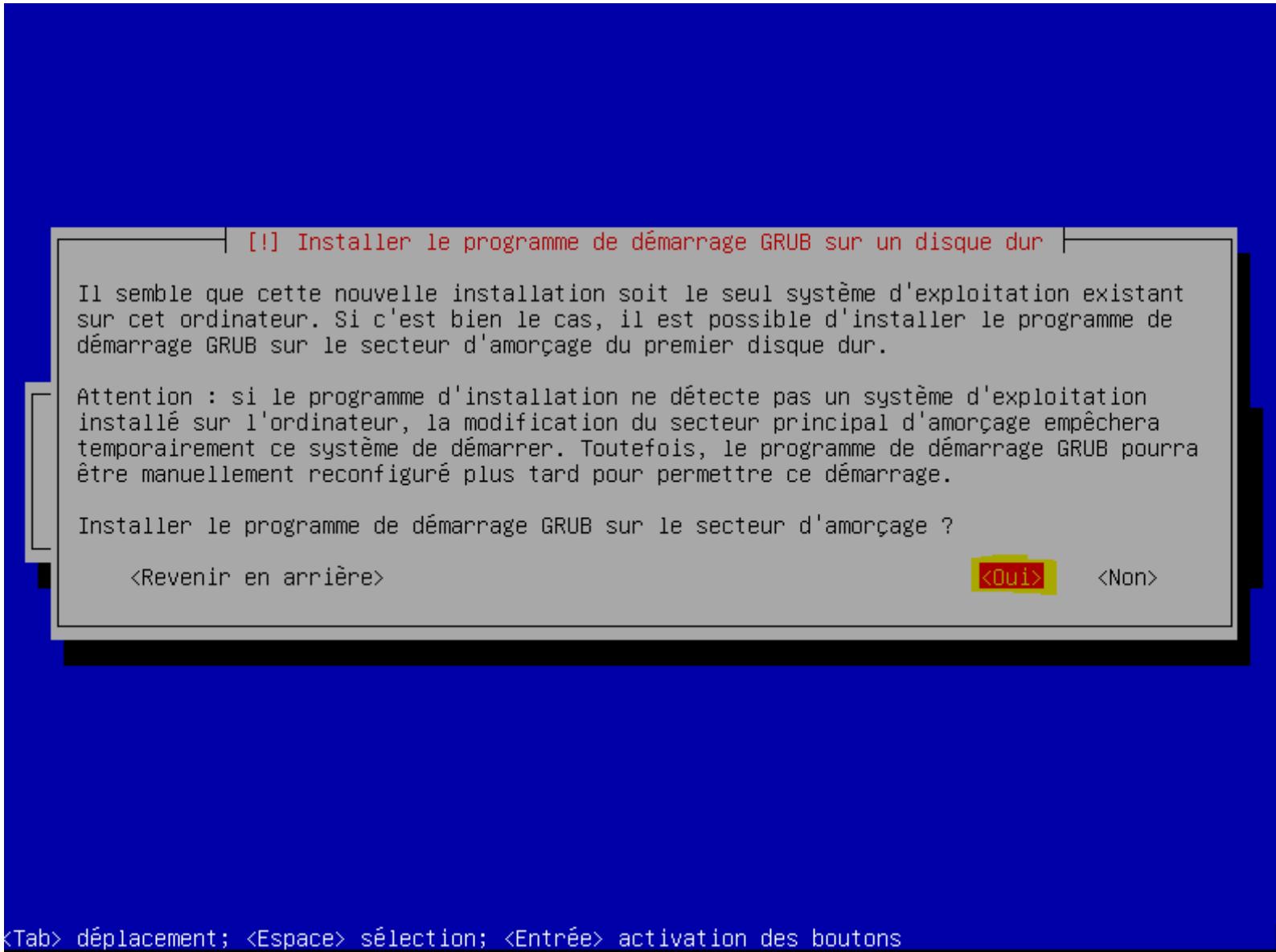
# Installation OS (x3) : poste client user01 (reine)



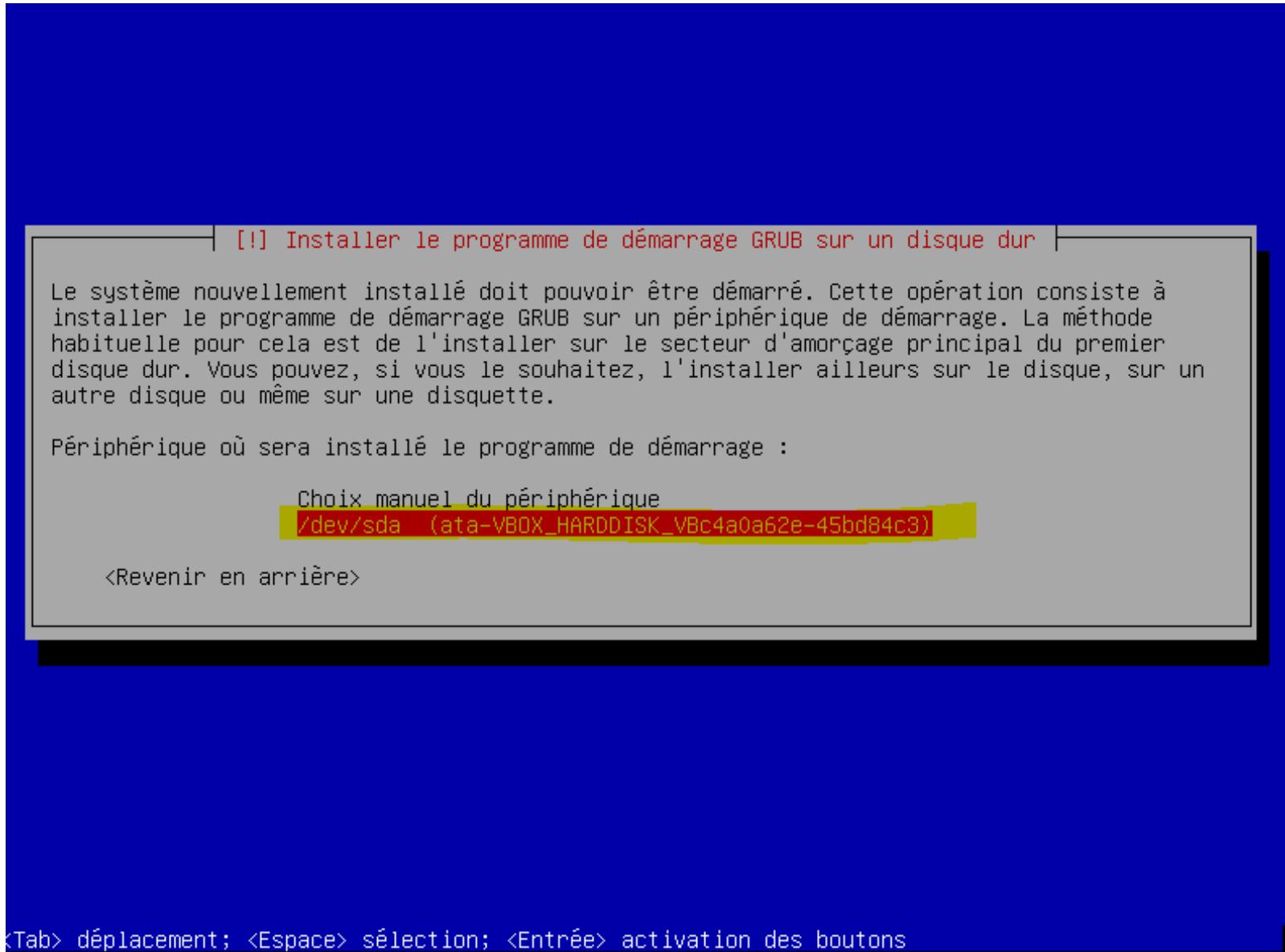
# Installation OS (x3) : poste client user01 (reine)



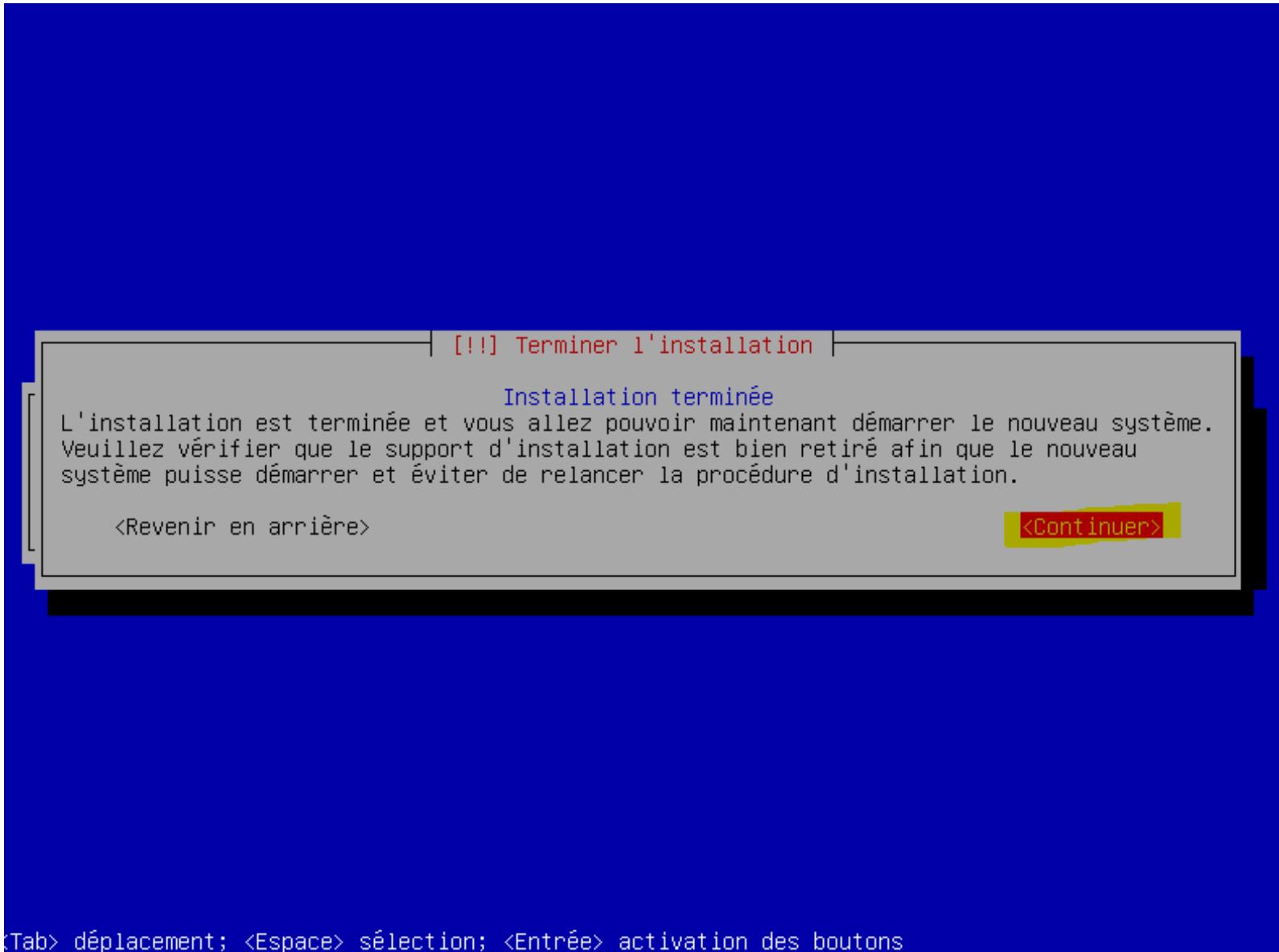
# Installation OS (x3) : poste client user01 (reine)



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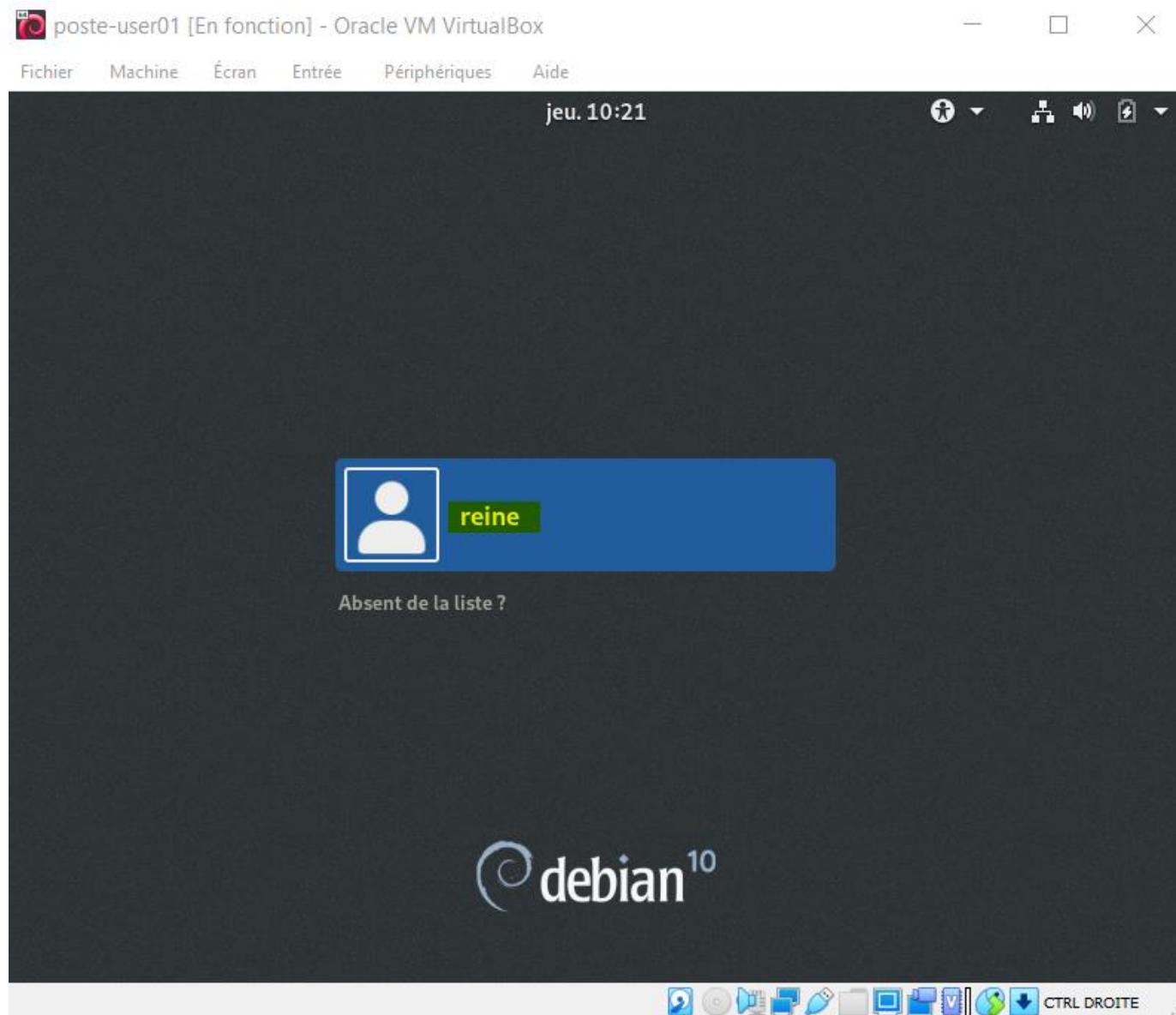
# Installation OS (x3) : poste client user01 (reine)



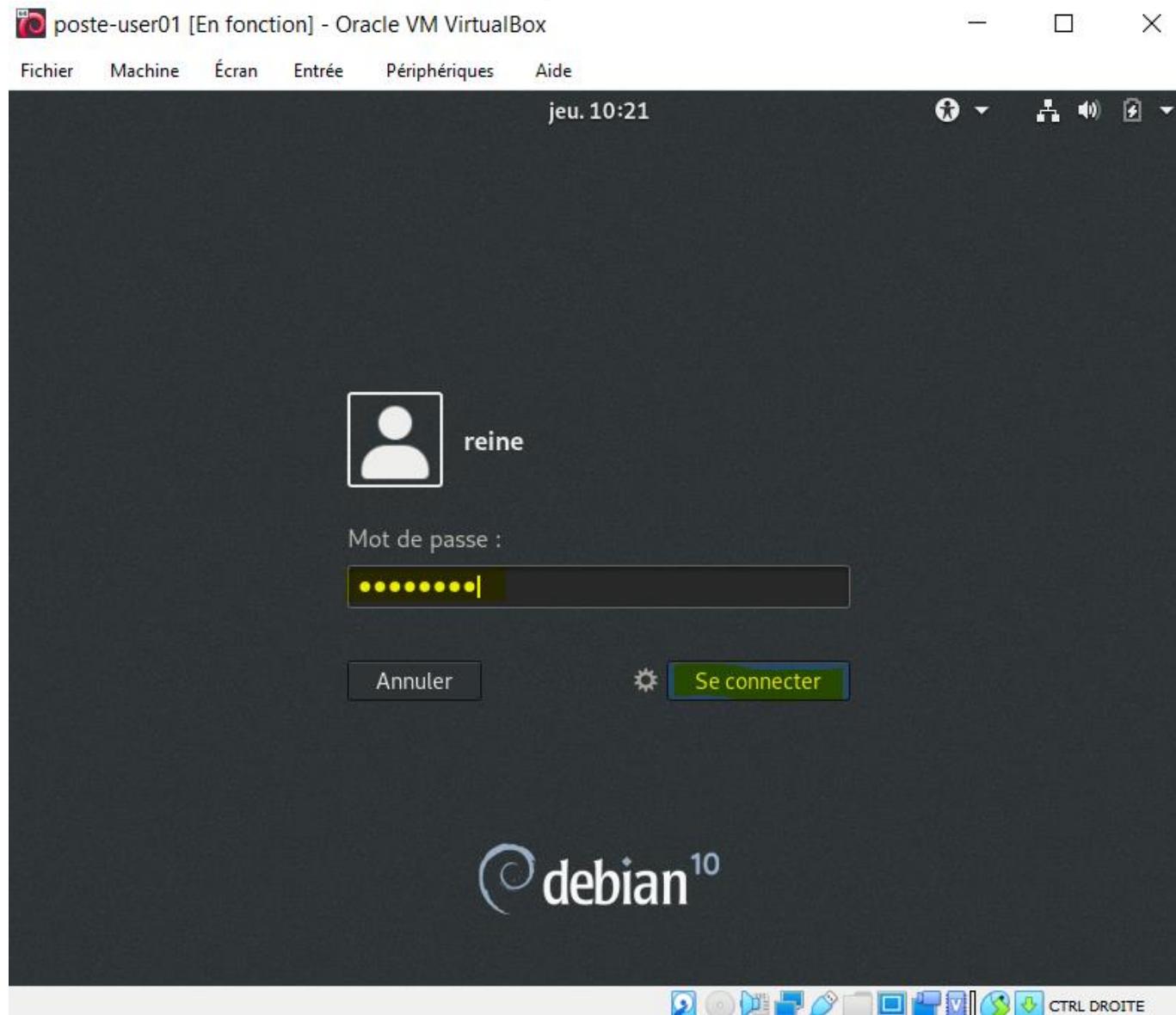
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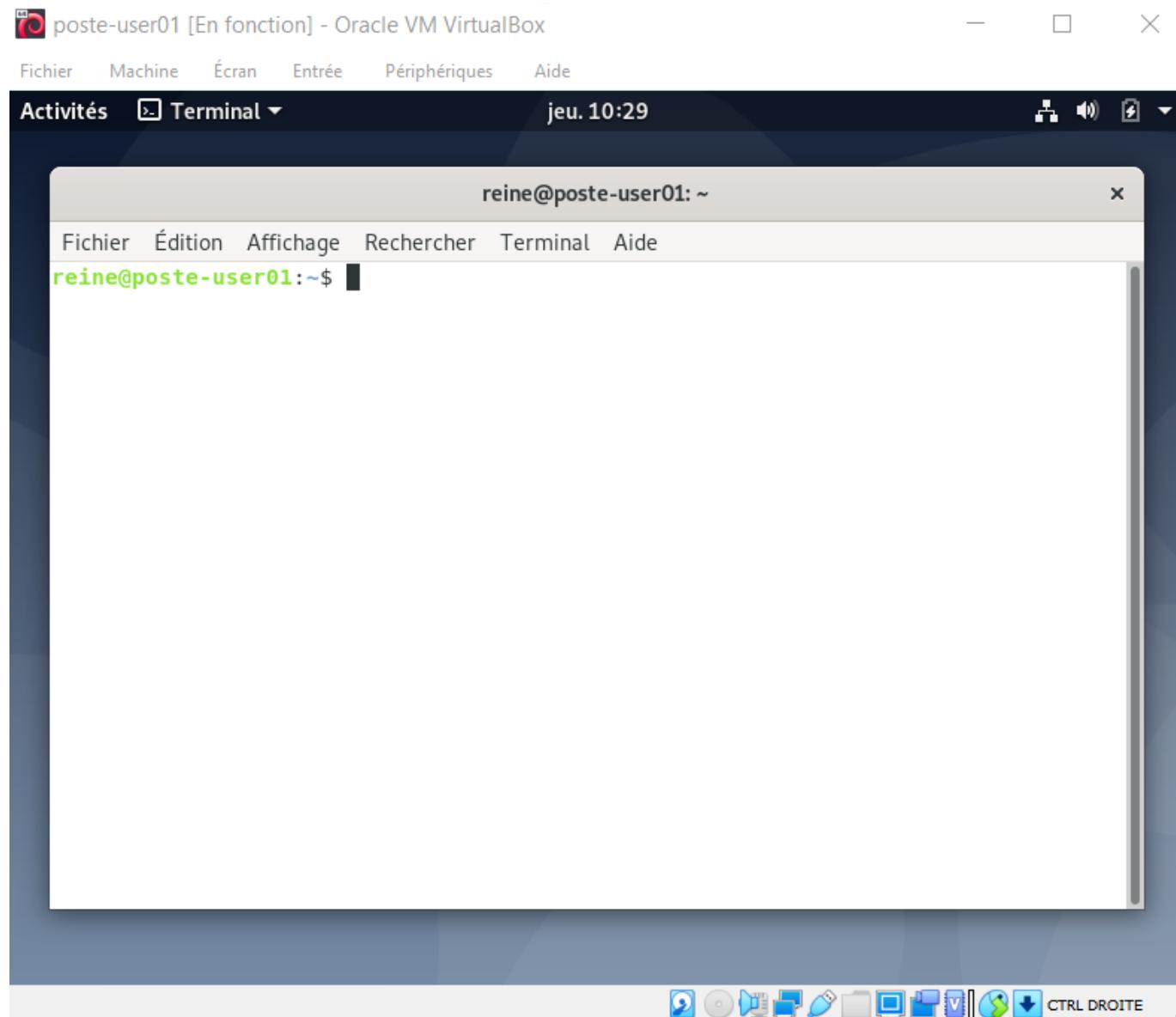
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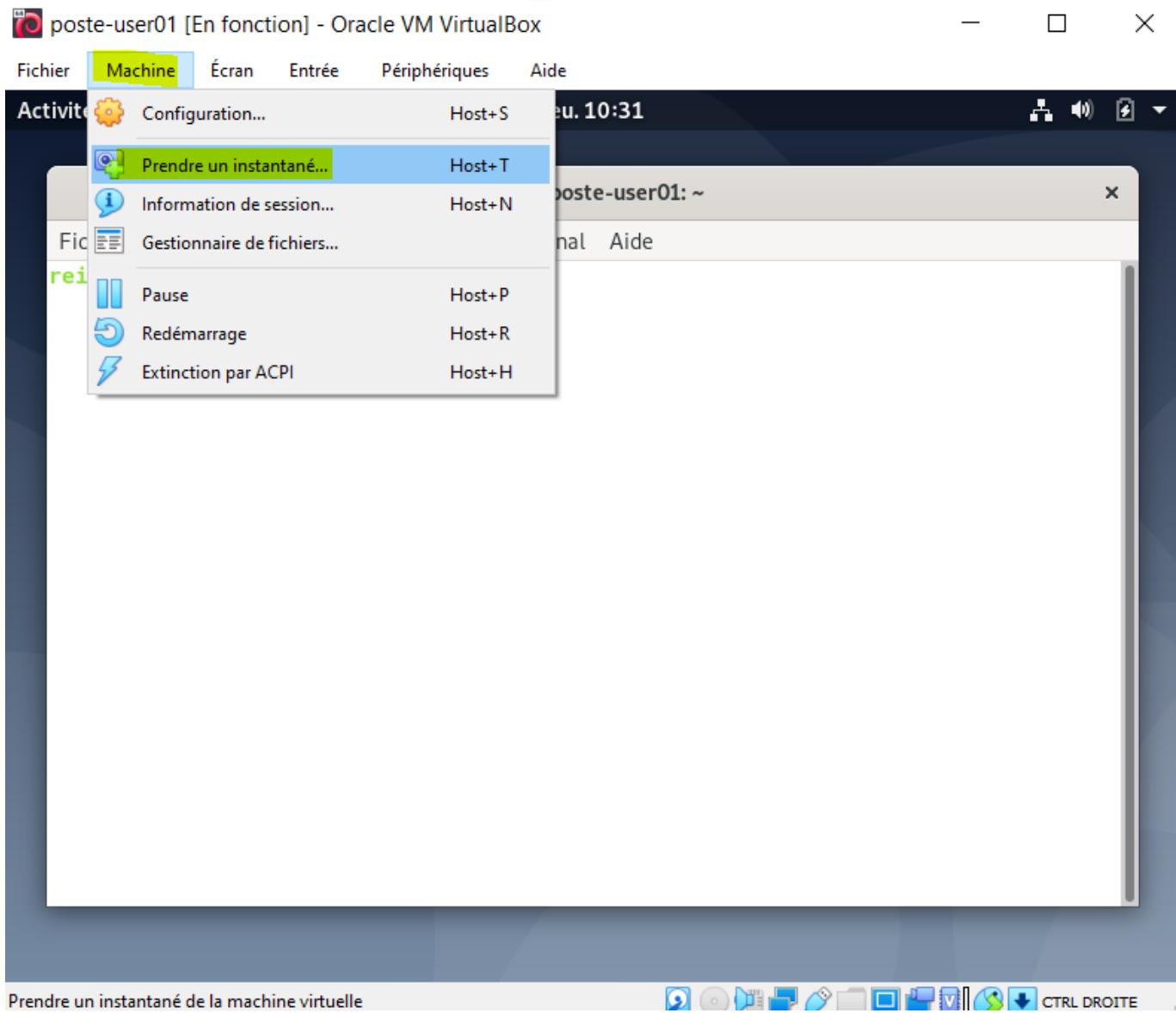
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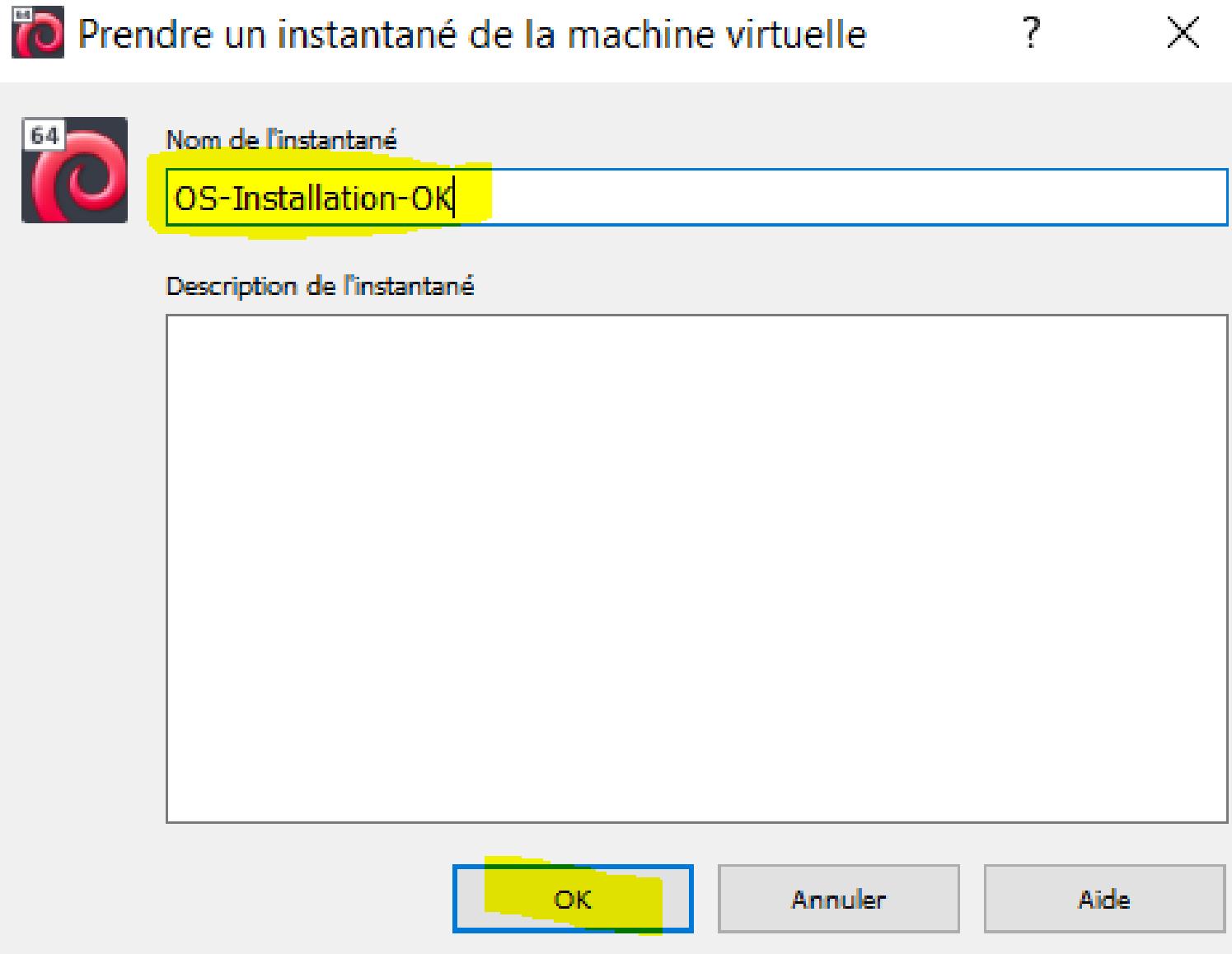
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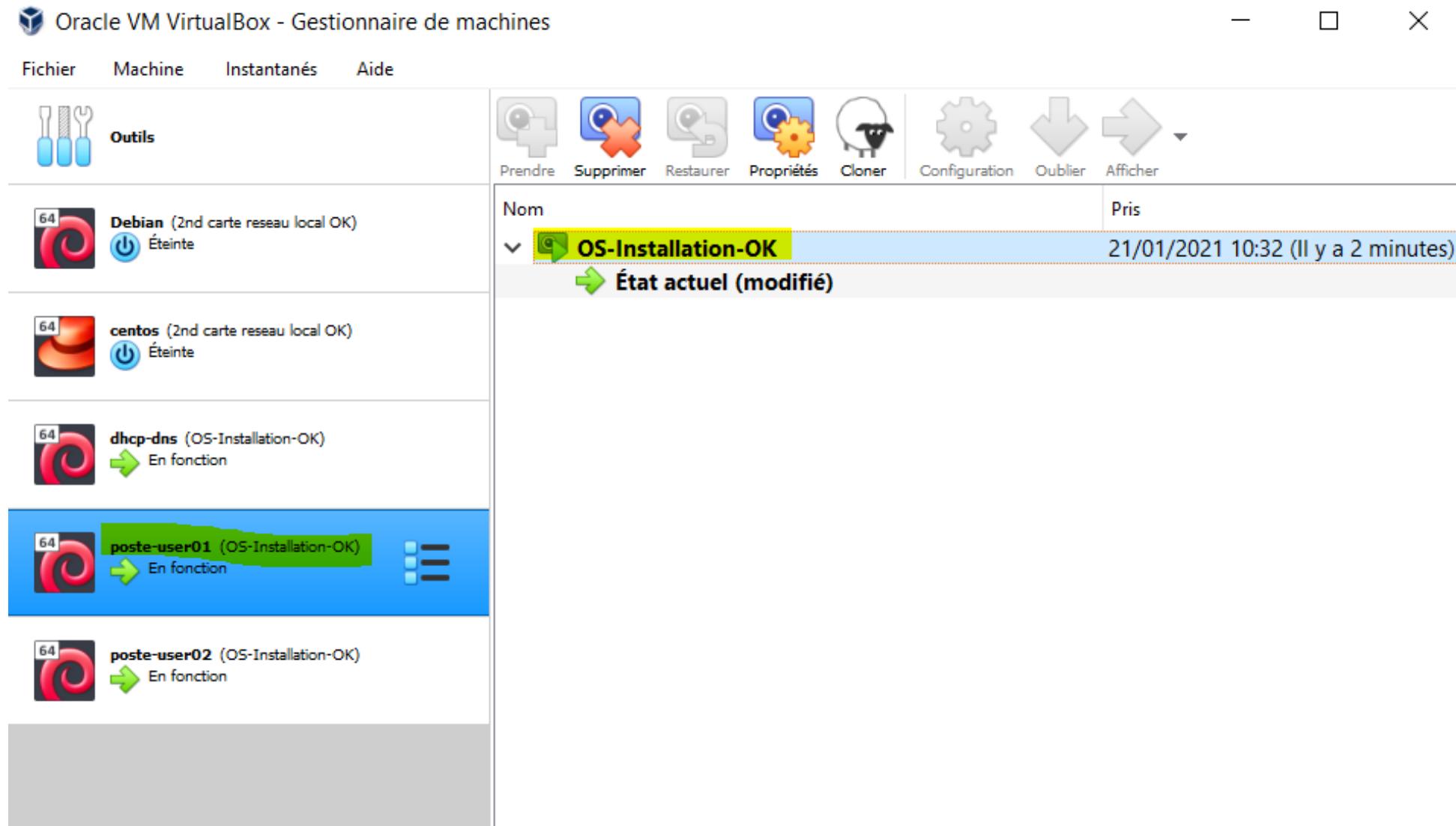


# Installation OS (x3) : poste client user01 (reine)



En cas de problème  
(crash ou autres de votre VM)  
pendant le TD, ce « snapshot »  
vous permet de revenir au début  
de votre configuration sans passer  
par la case réinstallation des paramètres  
et système d'exploitation.

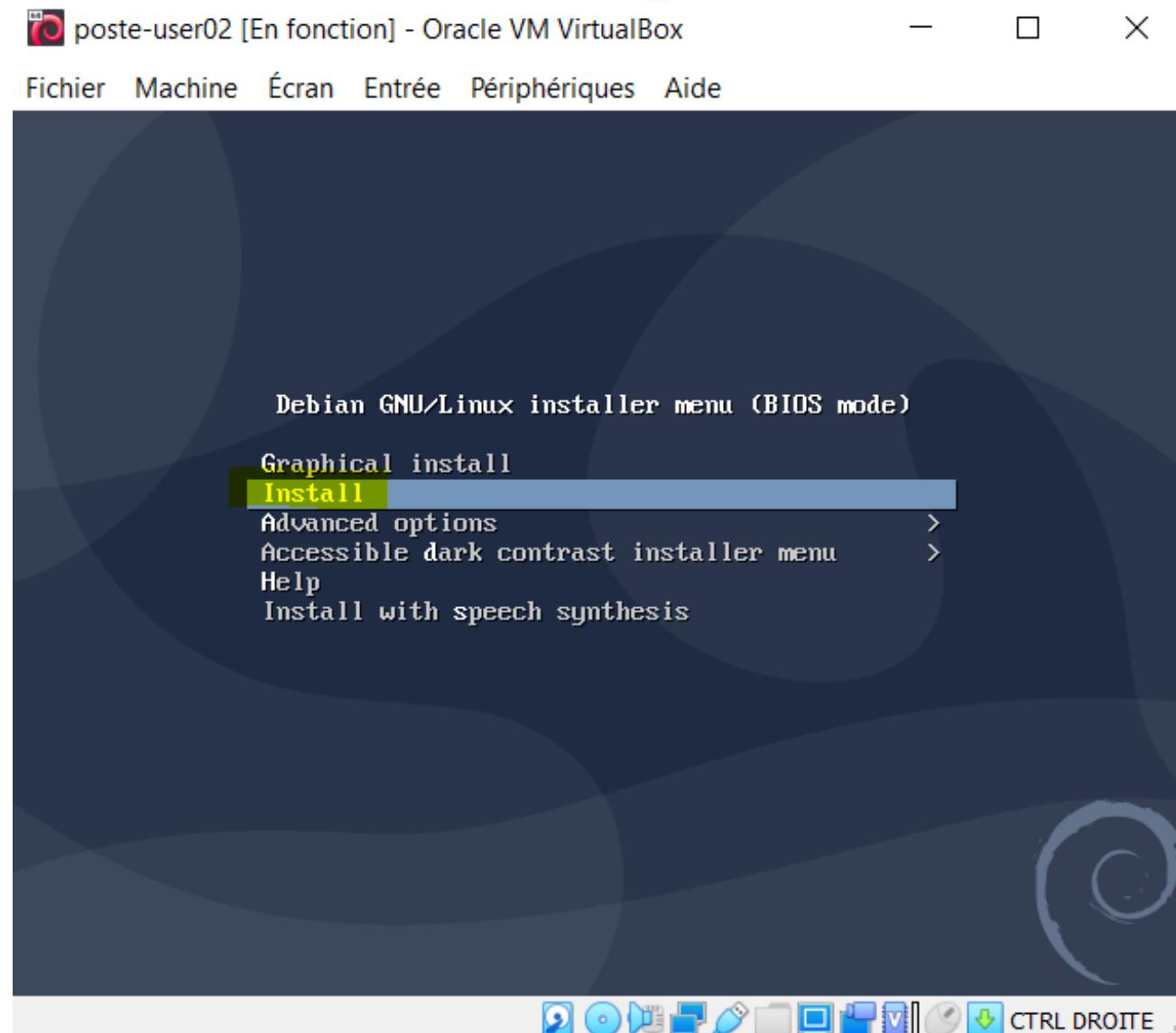
# Installation OS (x3) : poste client user01 (reine)



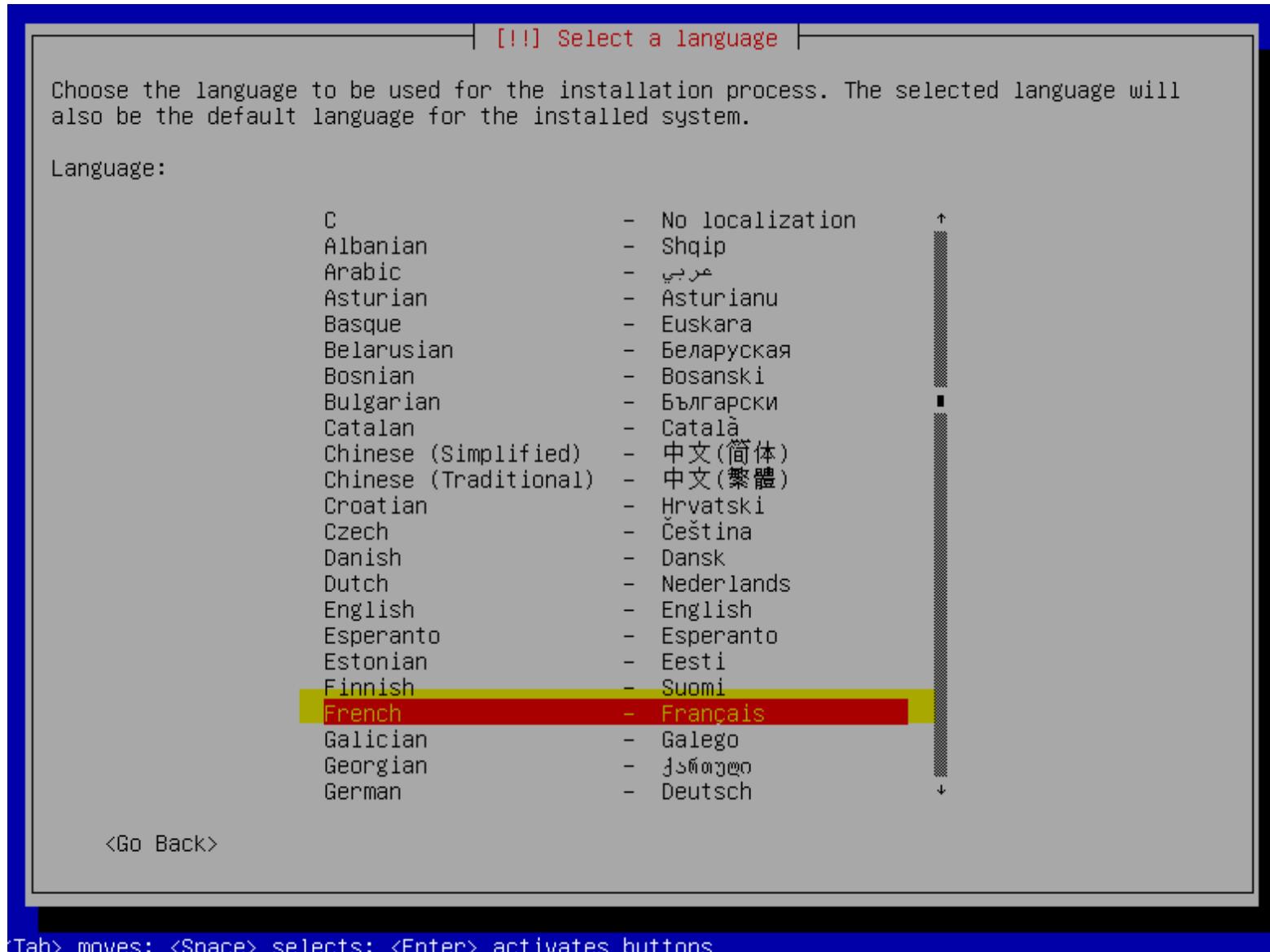
# Installation Poste client user02



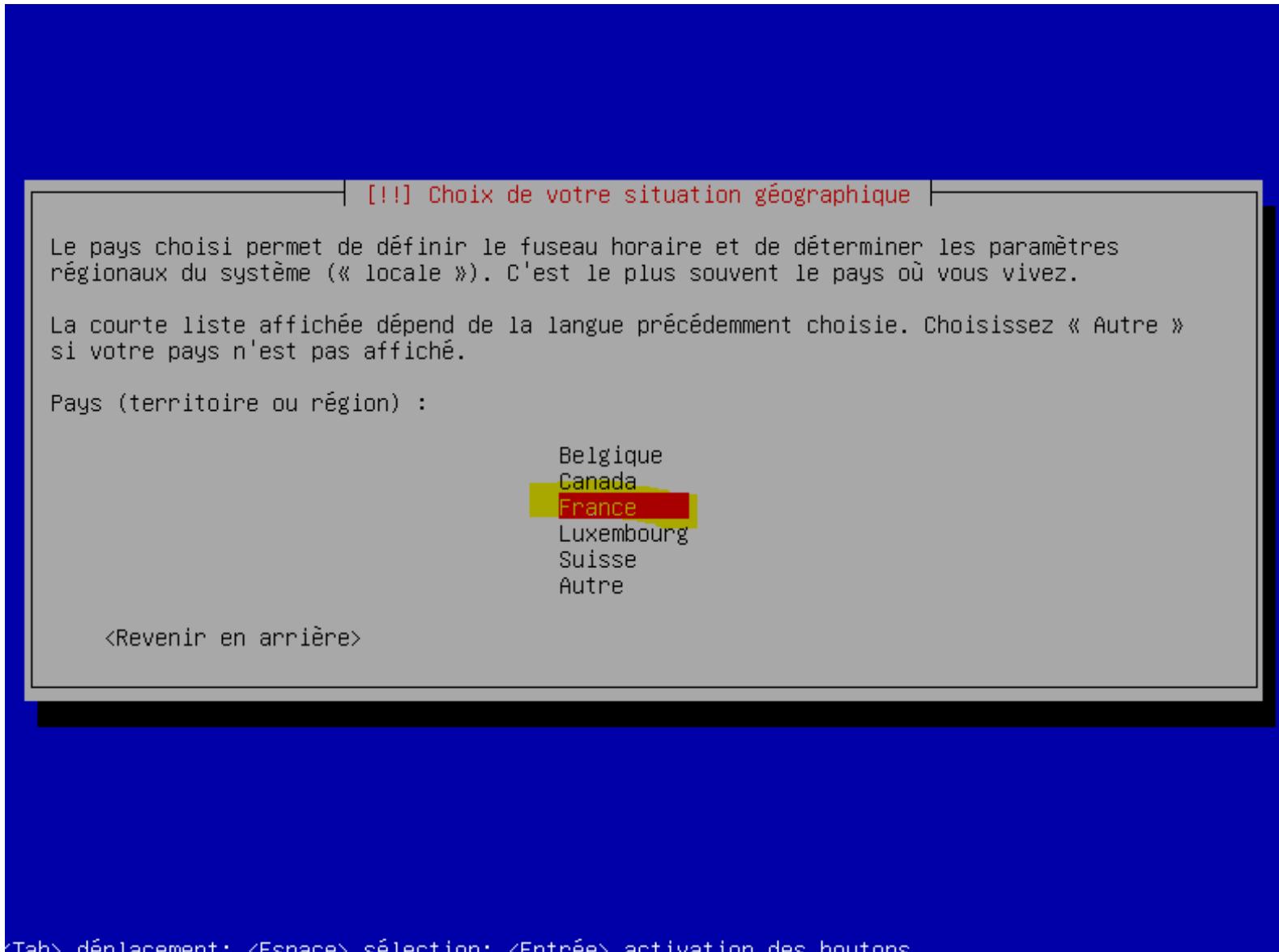
# Installation OS (x3) : poste client user02 (princesse)



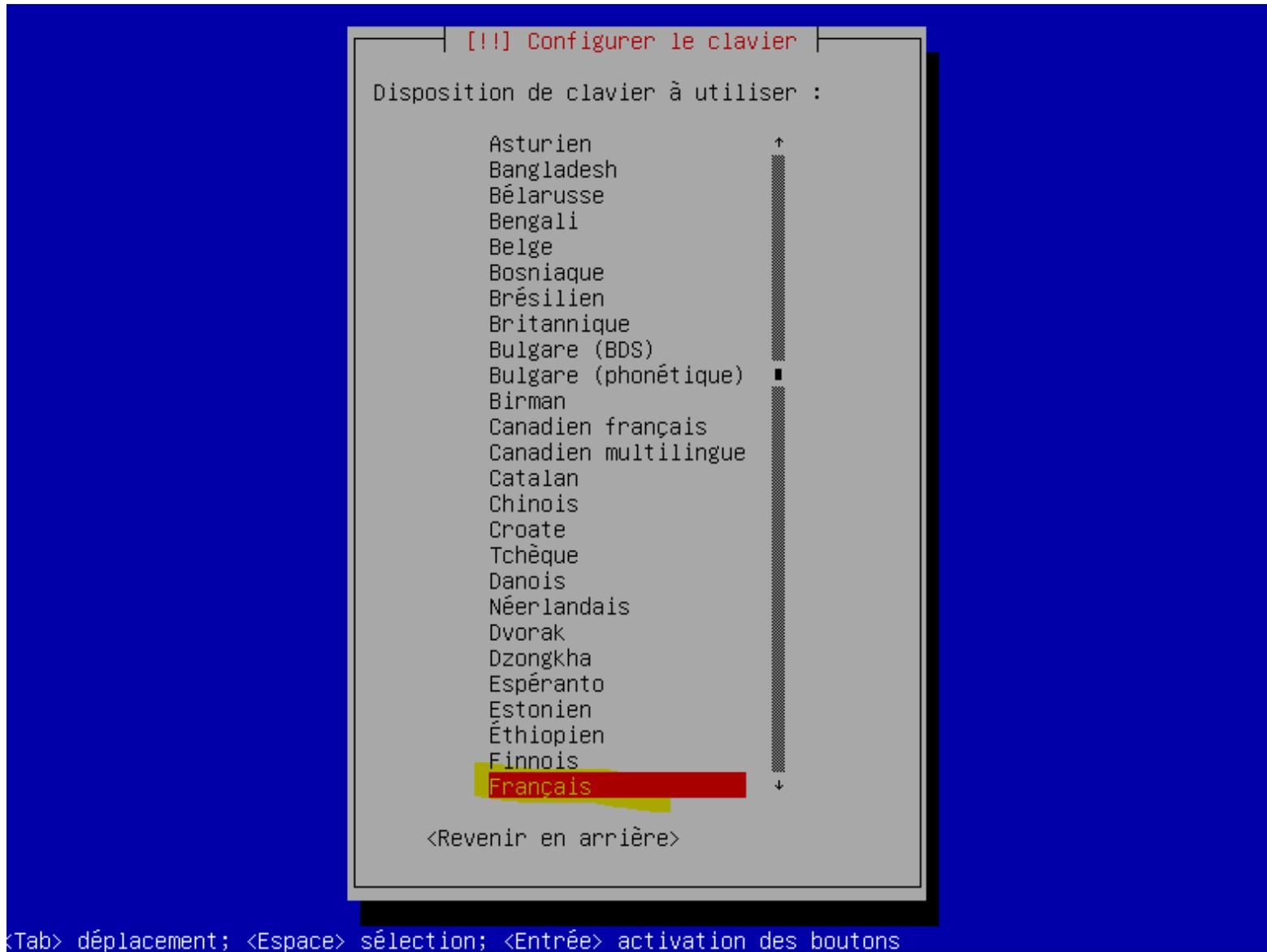
# Installation OS (x3) : poste client user02 (princesse)



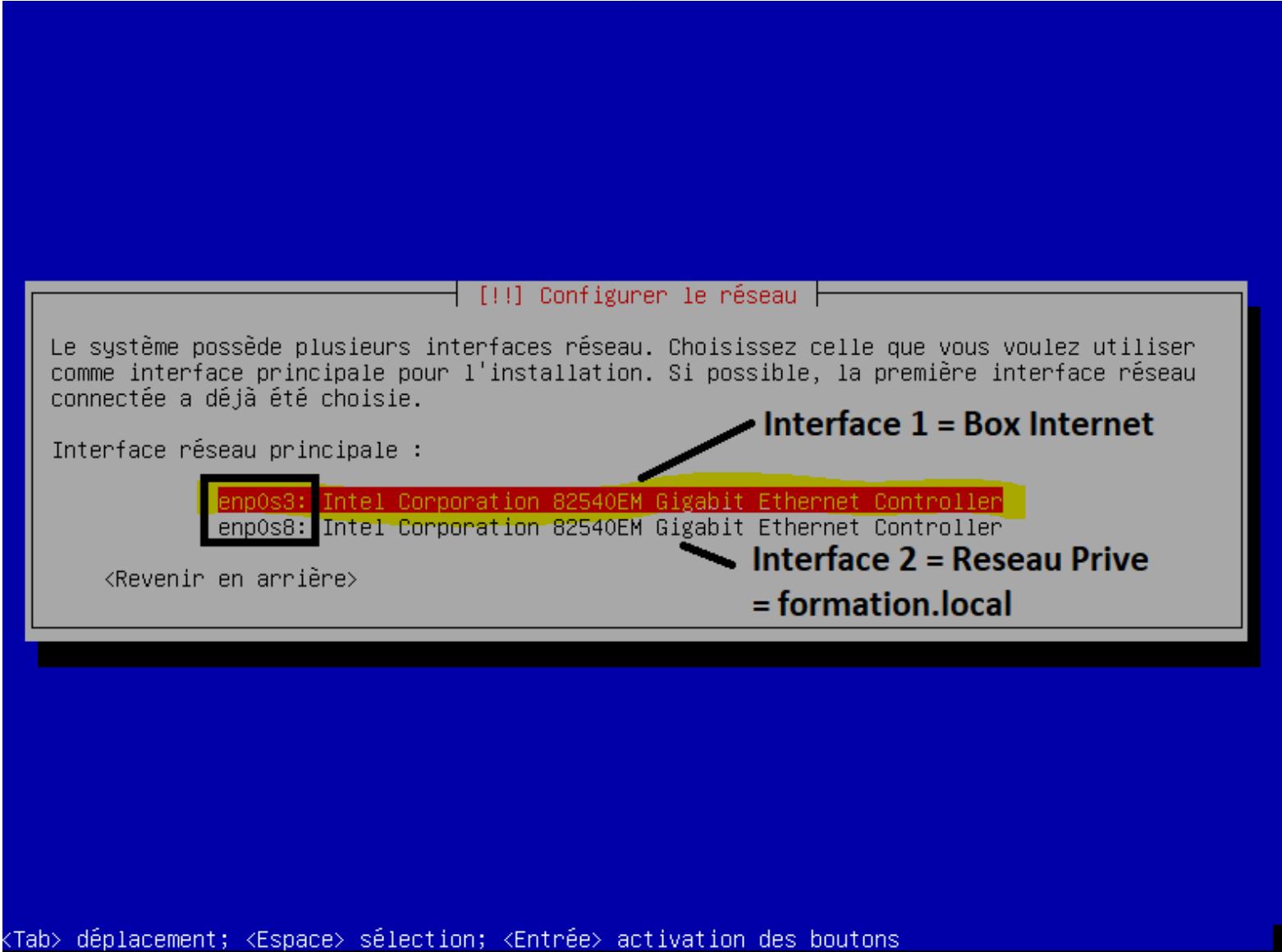
# Installation OS (x3) : poste client user02 (princesse)



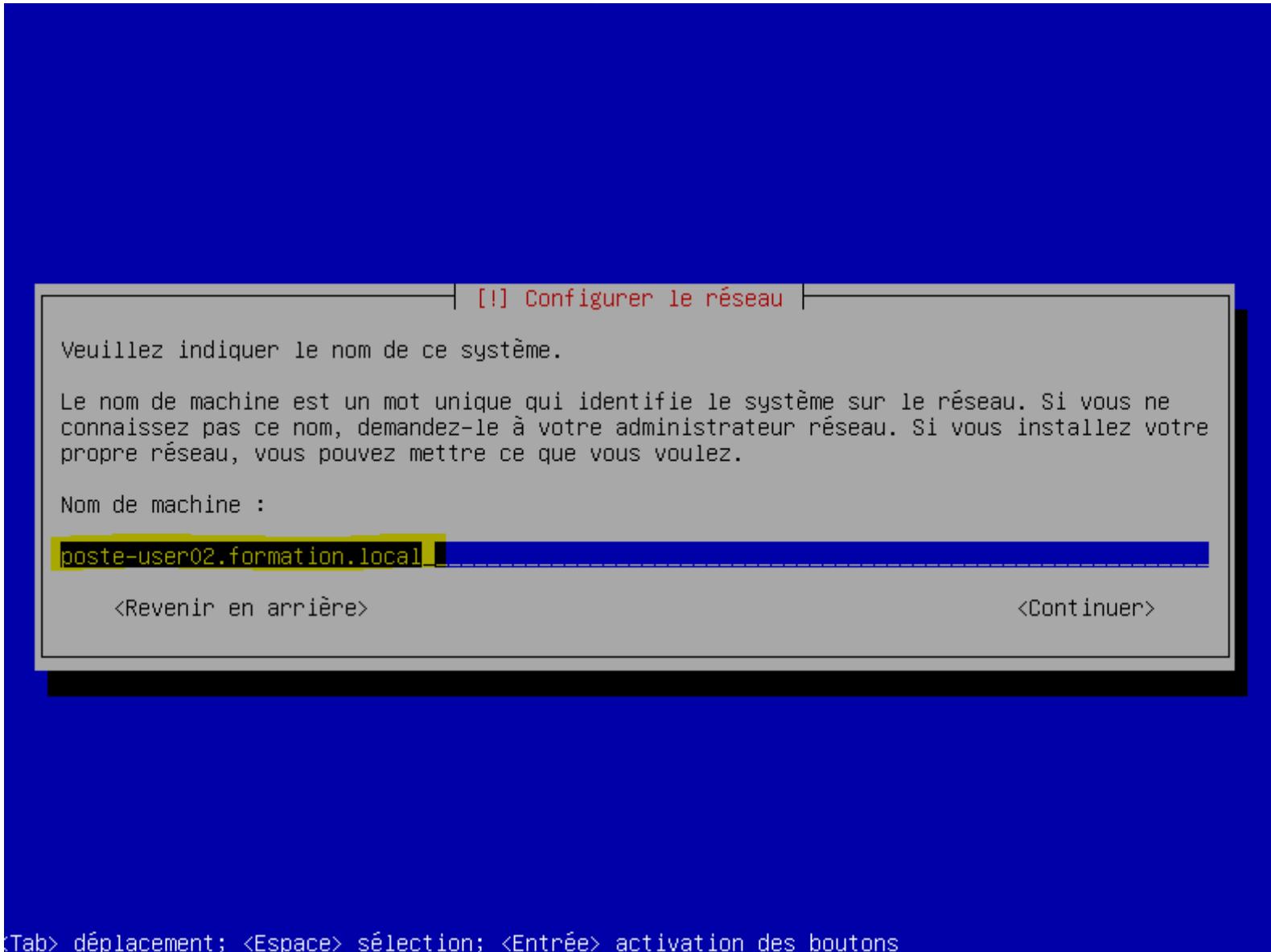
# Installation OS (x3) : poste client user02 (princesse)



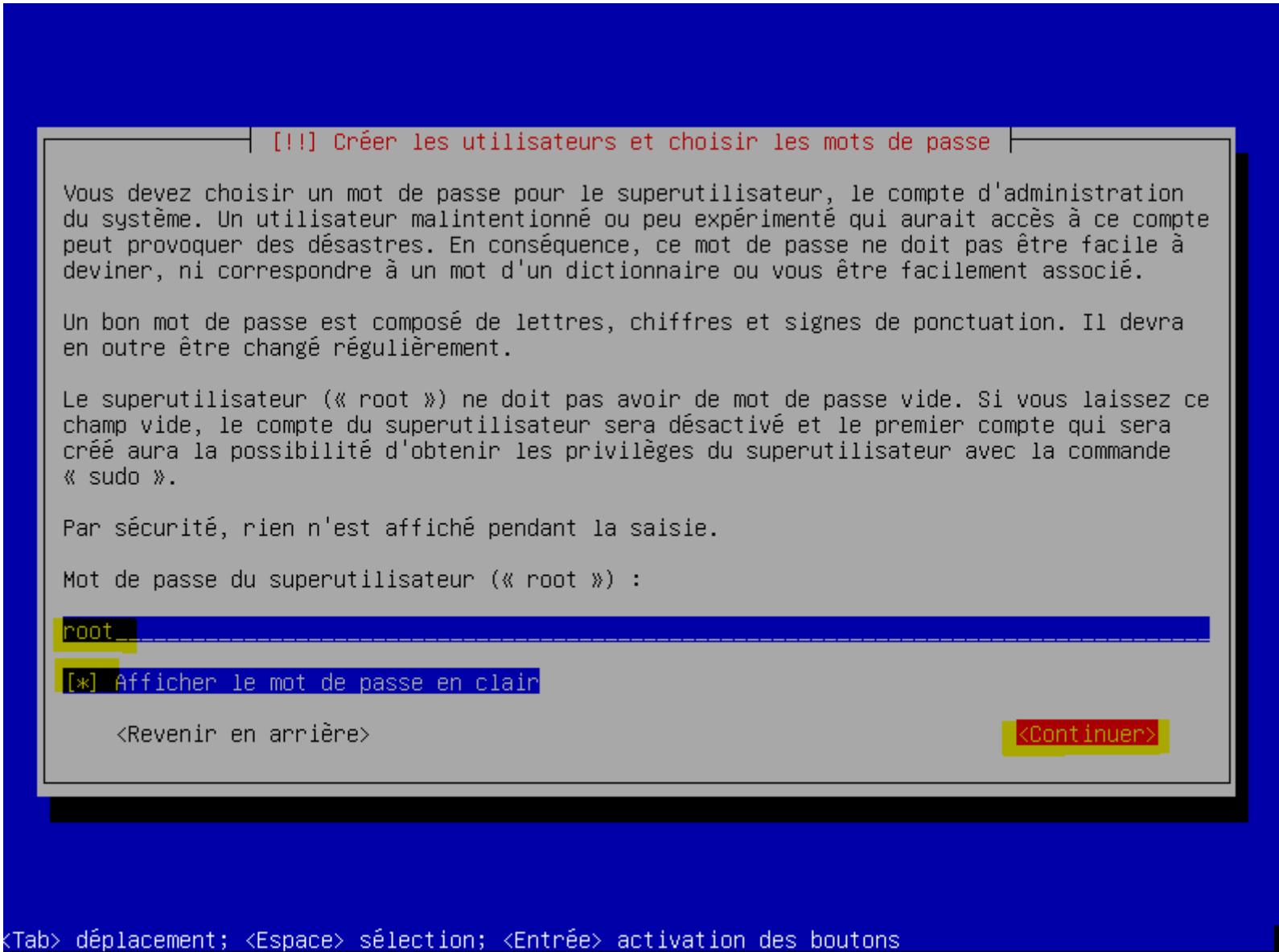
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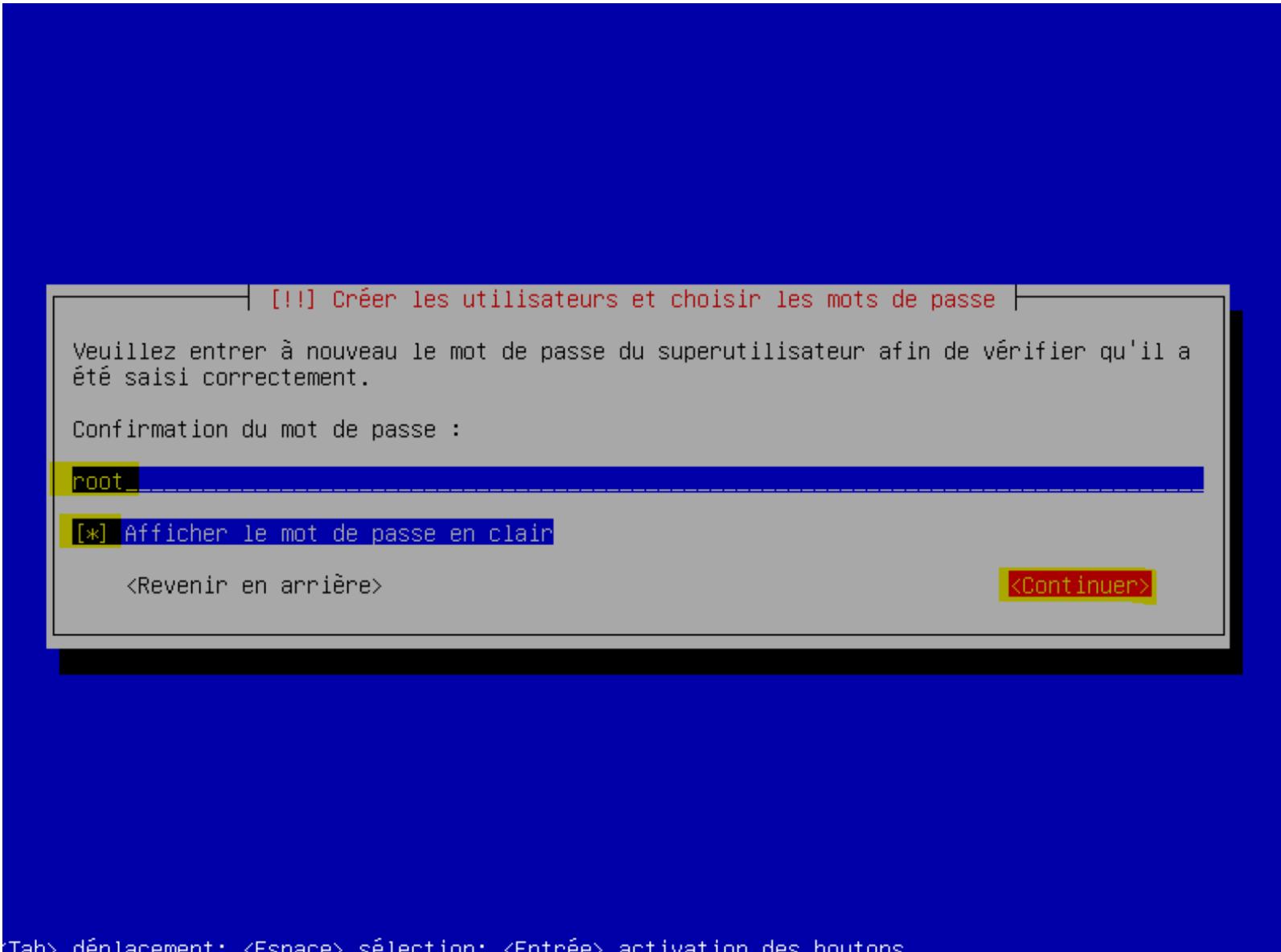
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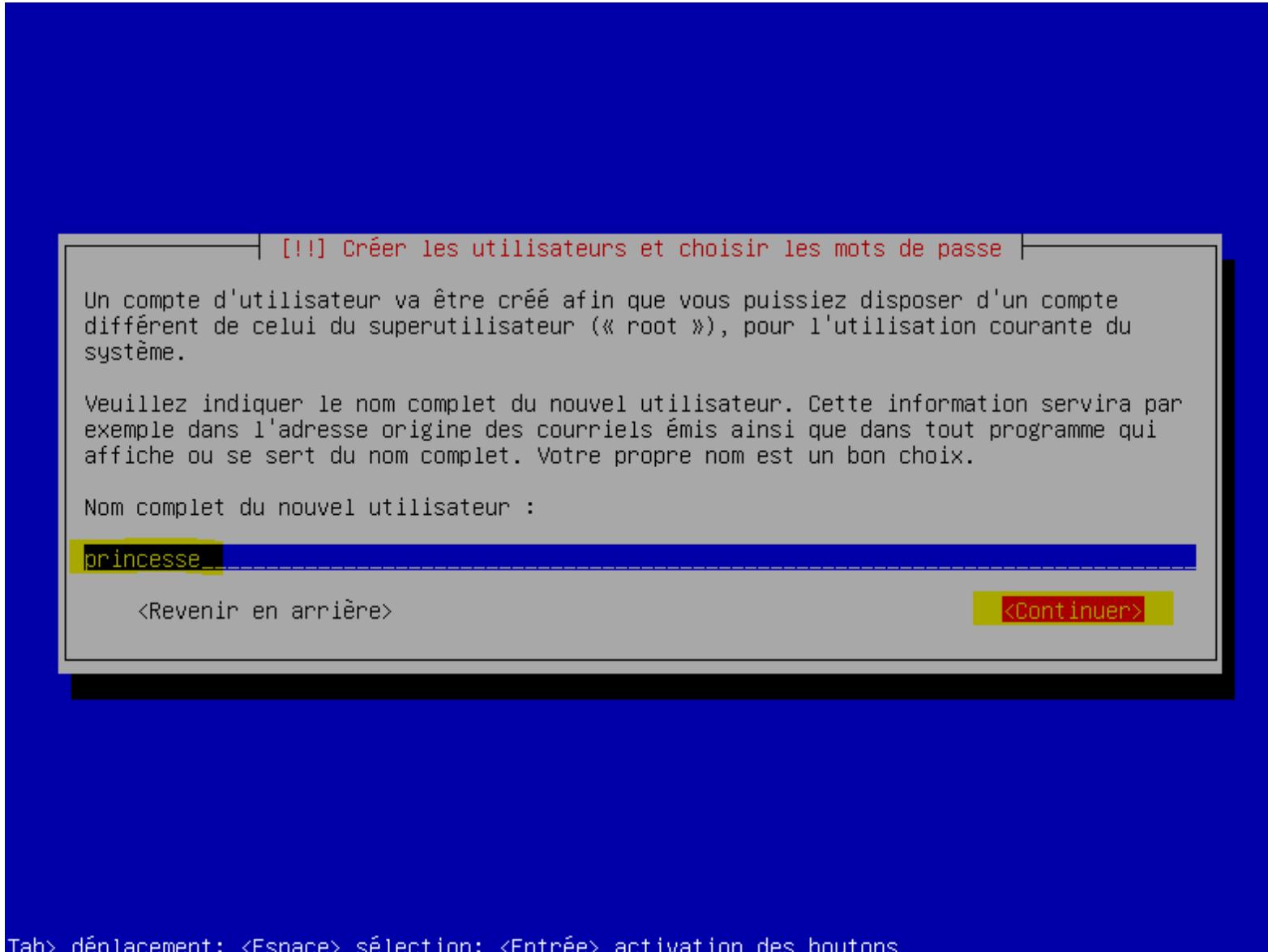


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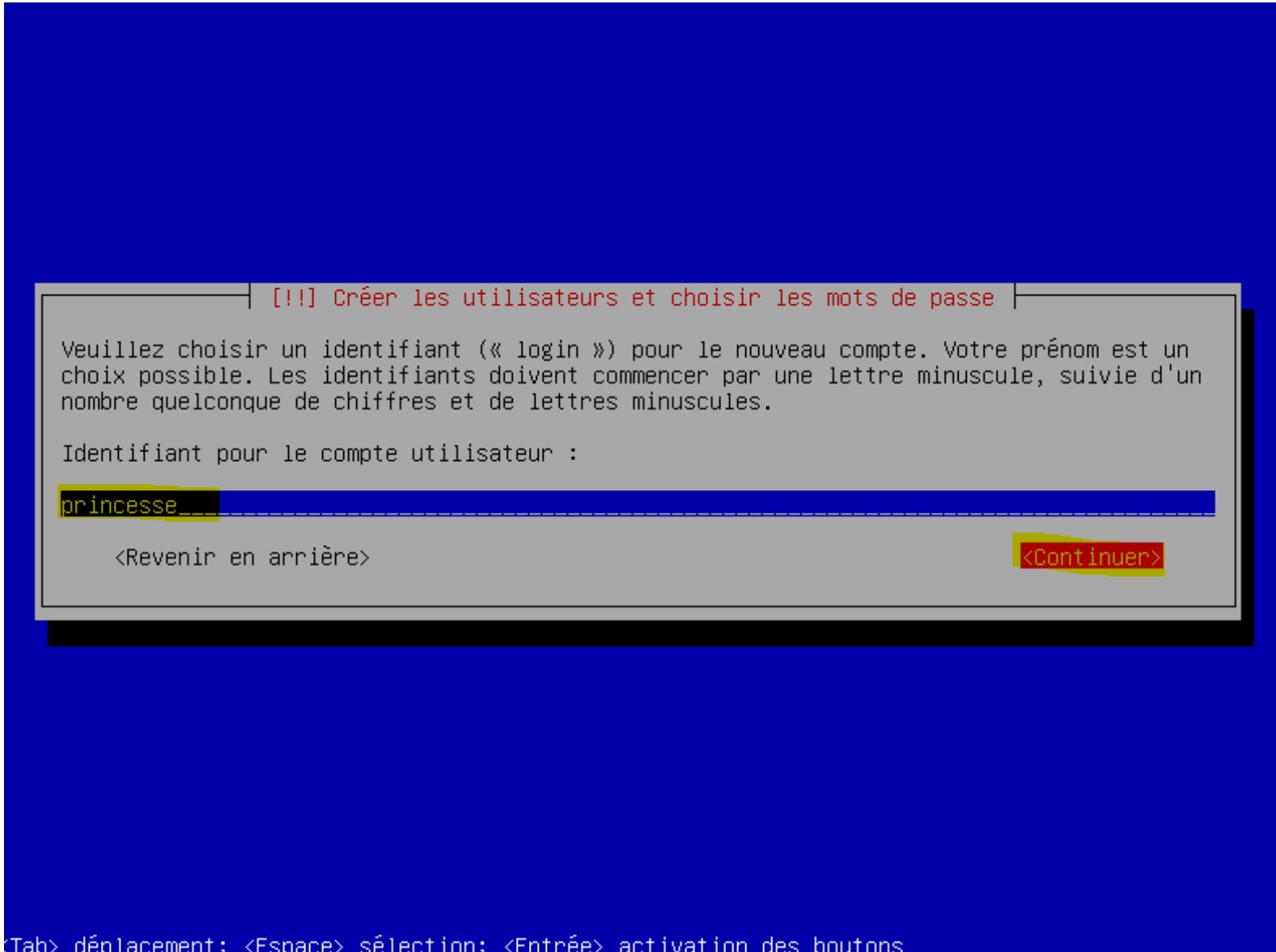


<Tab> déplacement; <Espace> sélection; <Entrée> activation des boutons

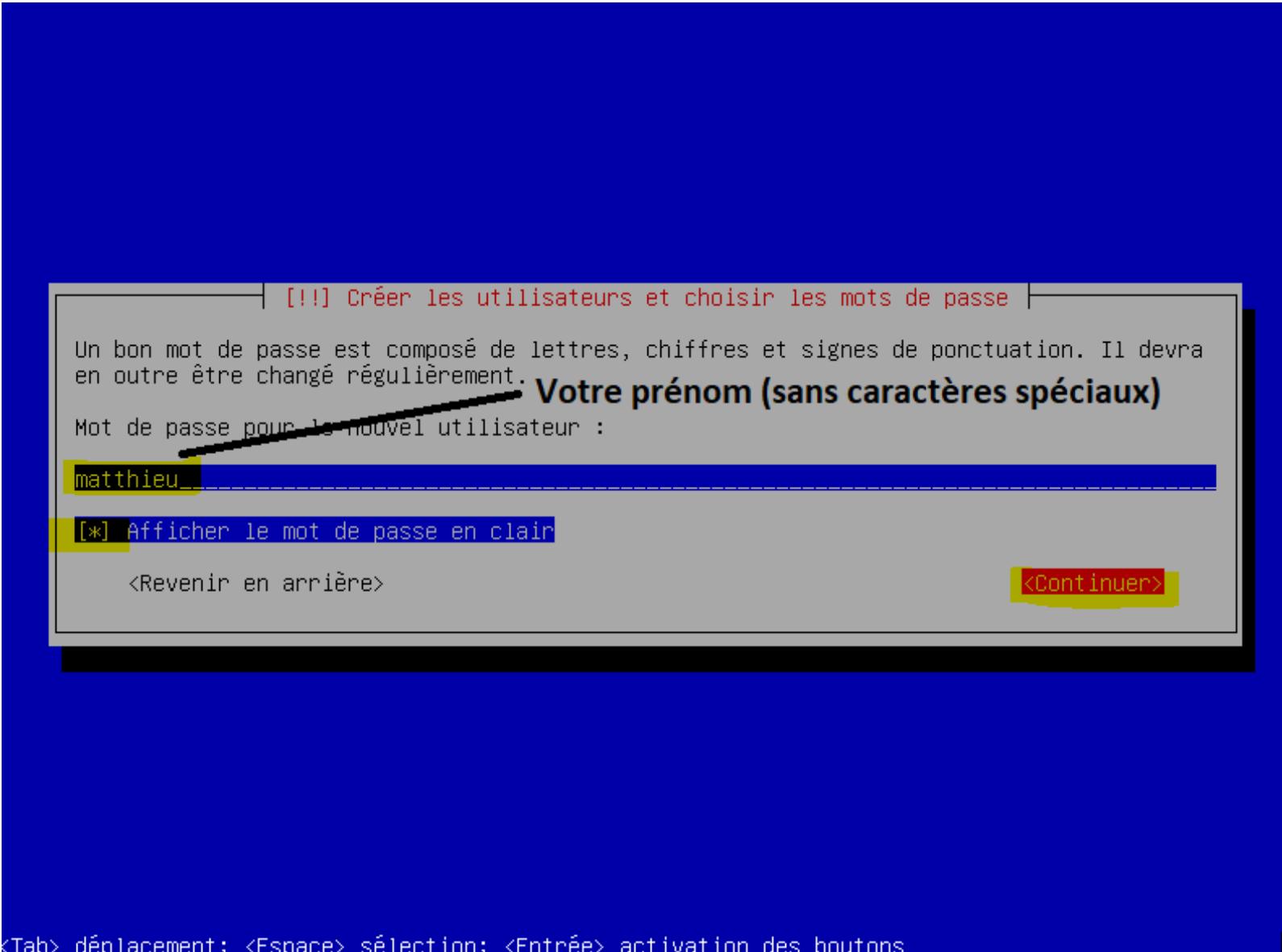
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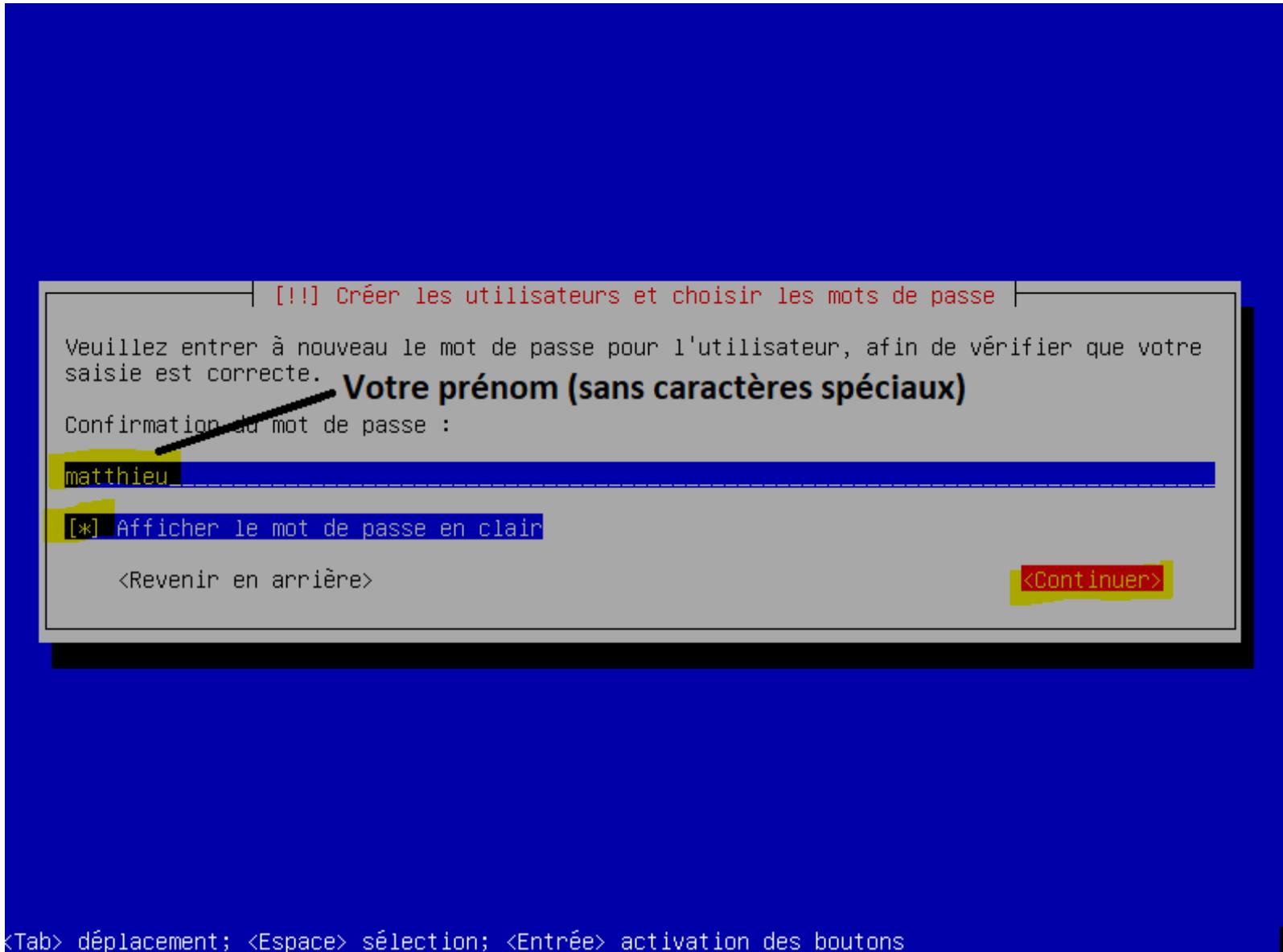
# Installation OS (x3) : poste client user02 (princesse)



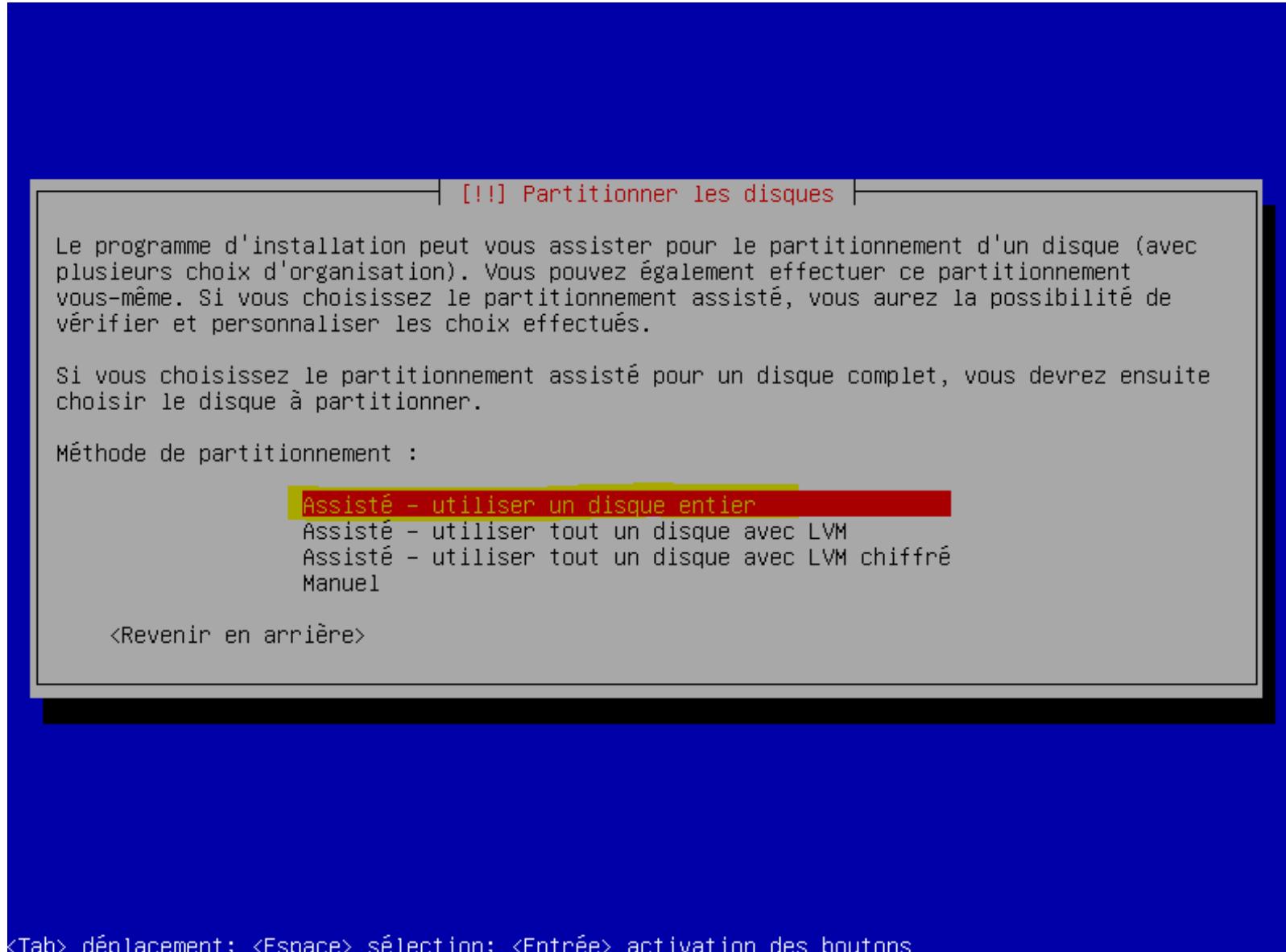
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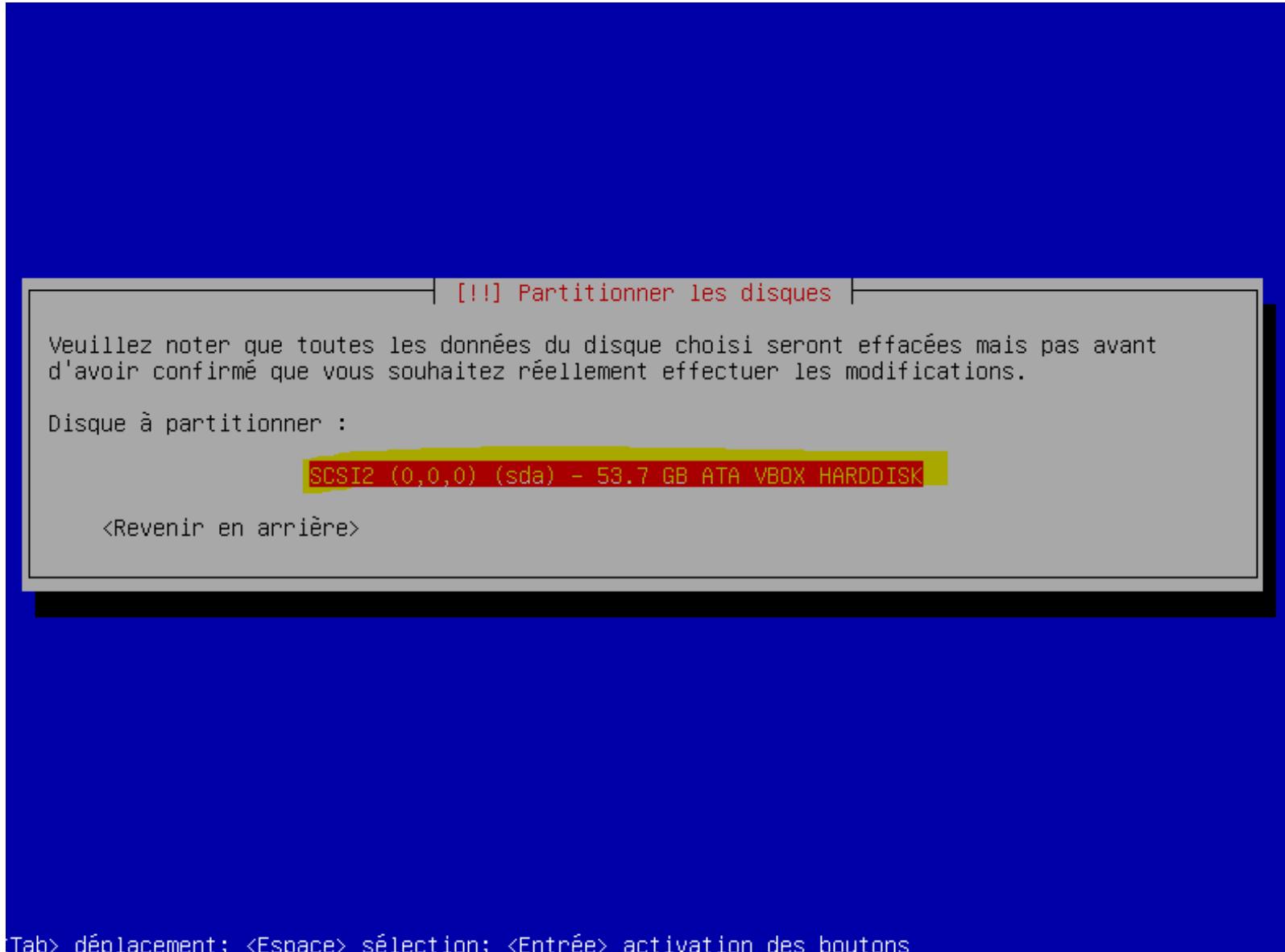
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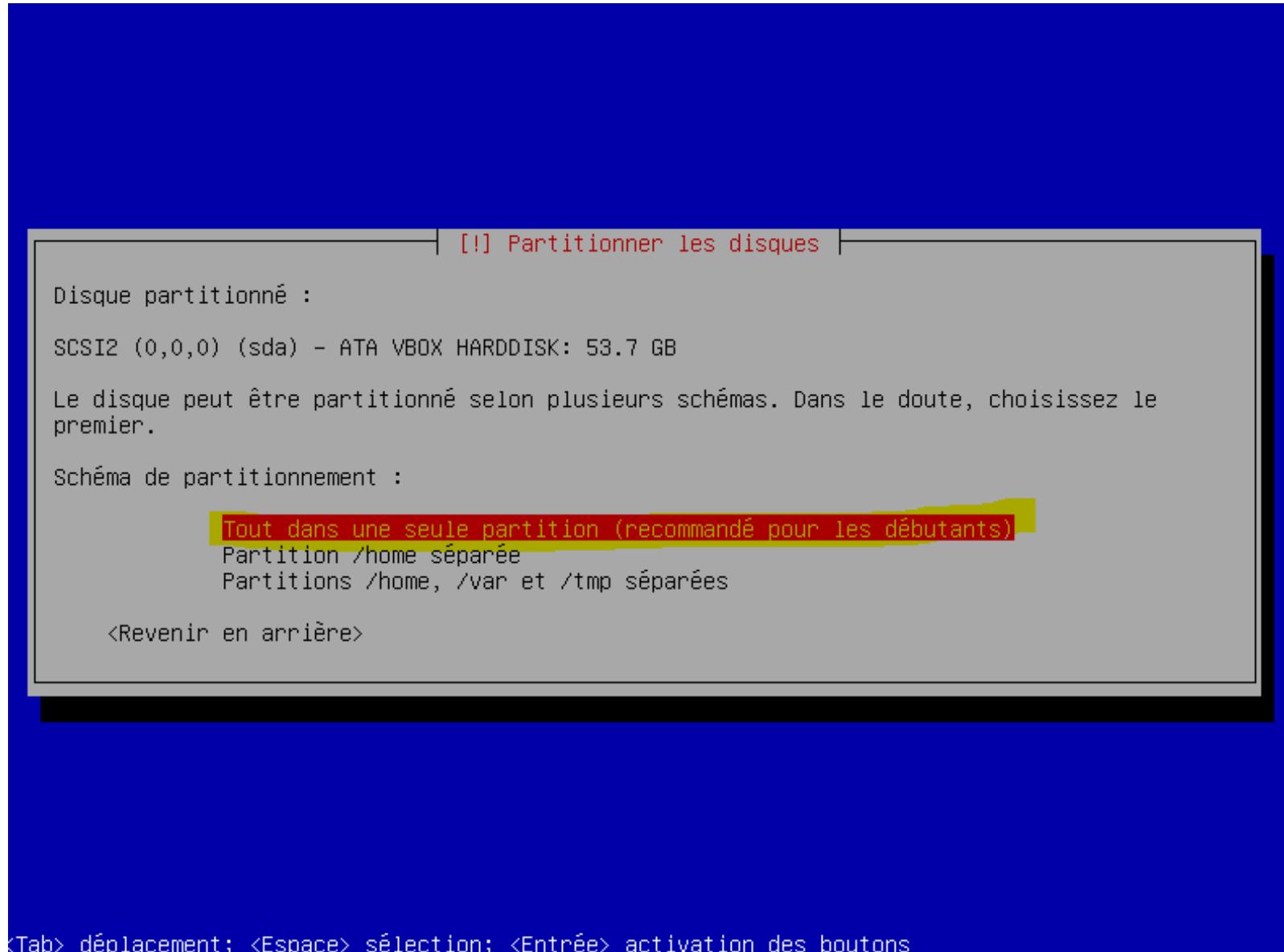


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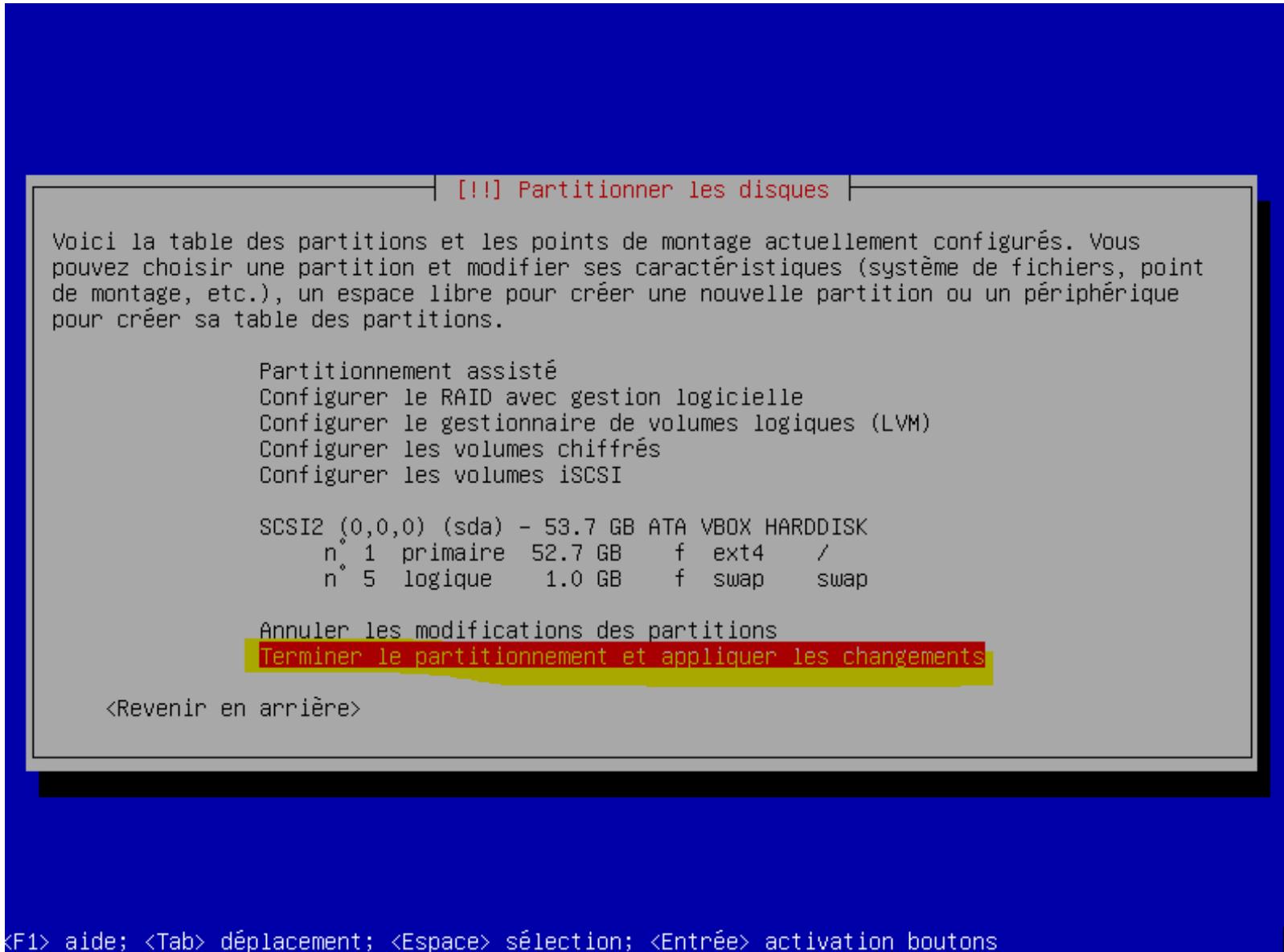


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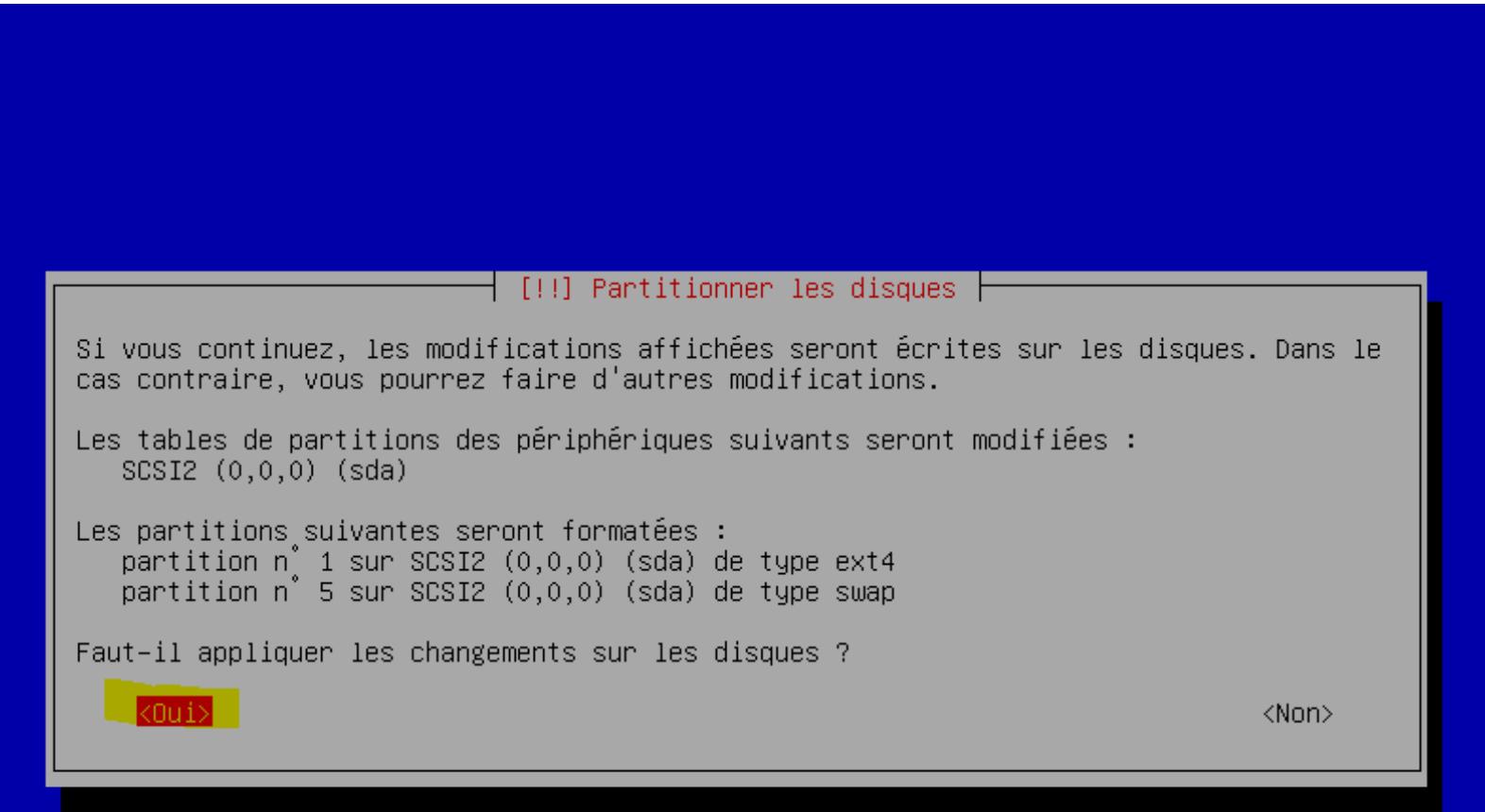
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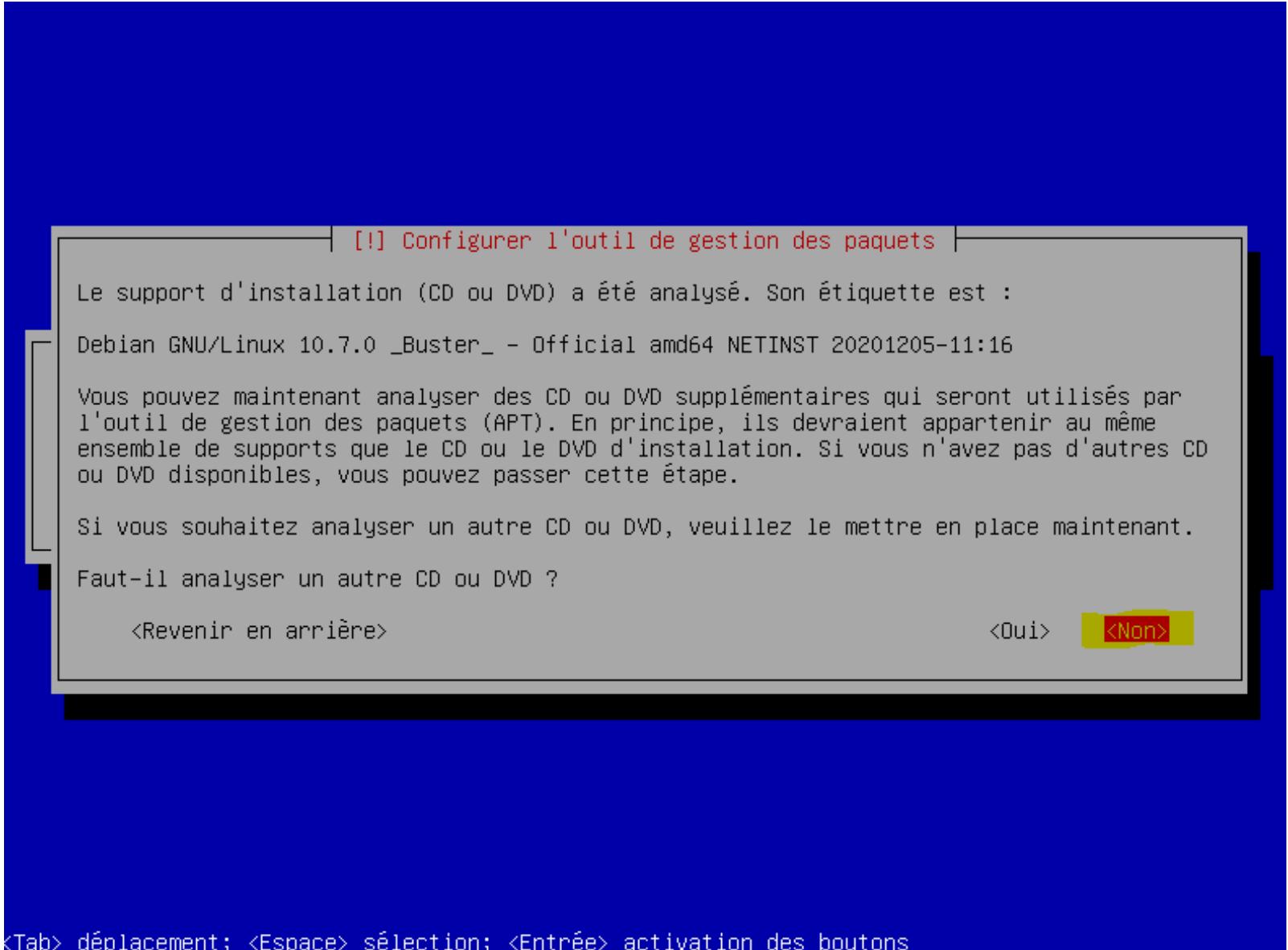


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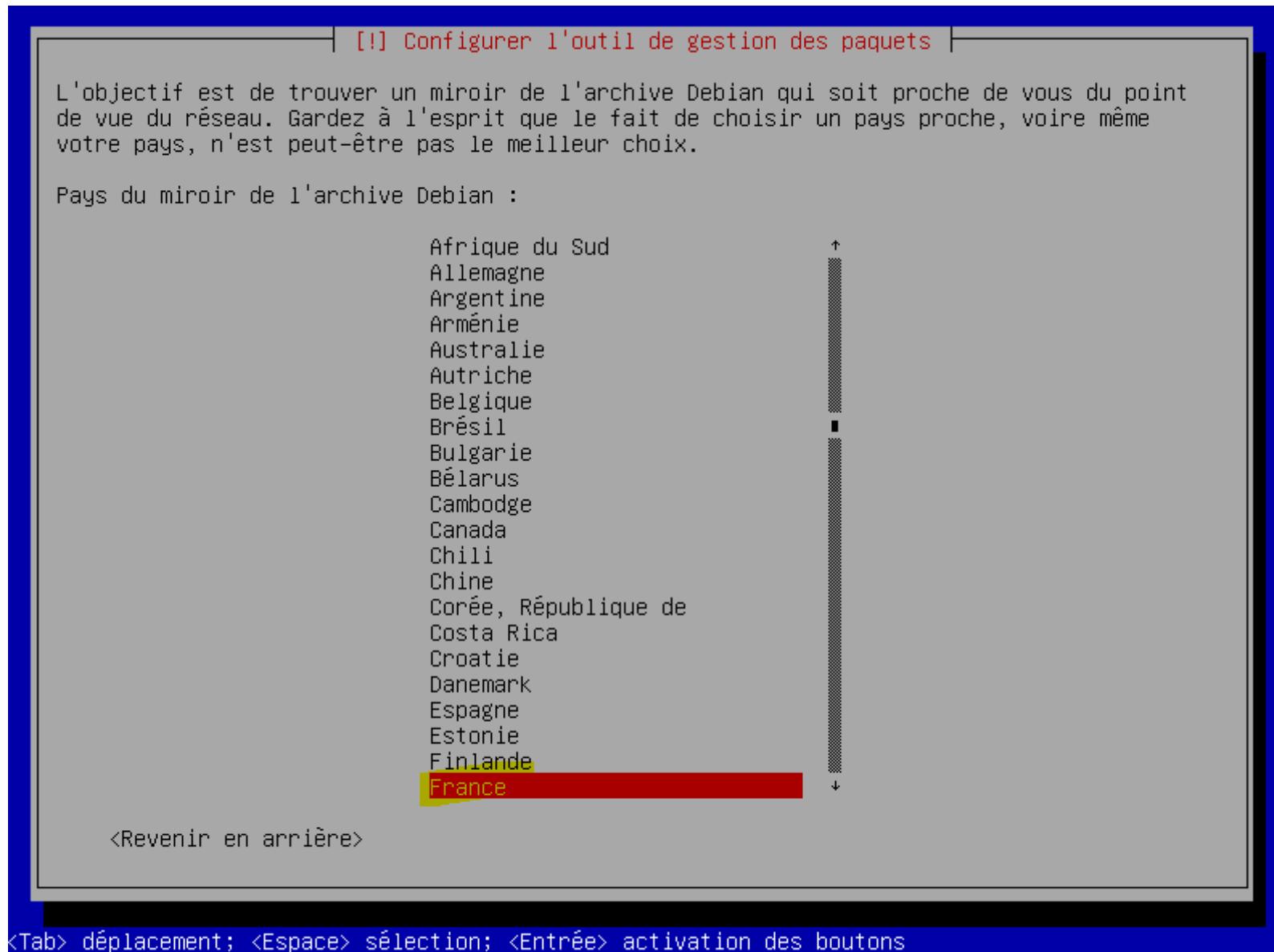


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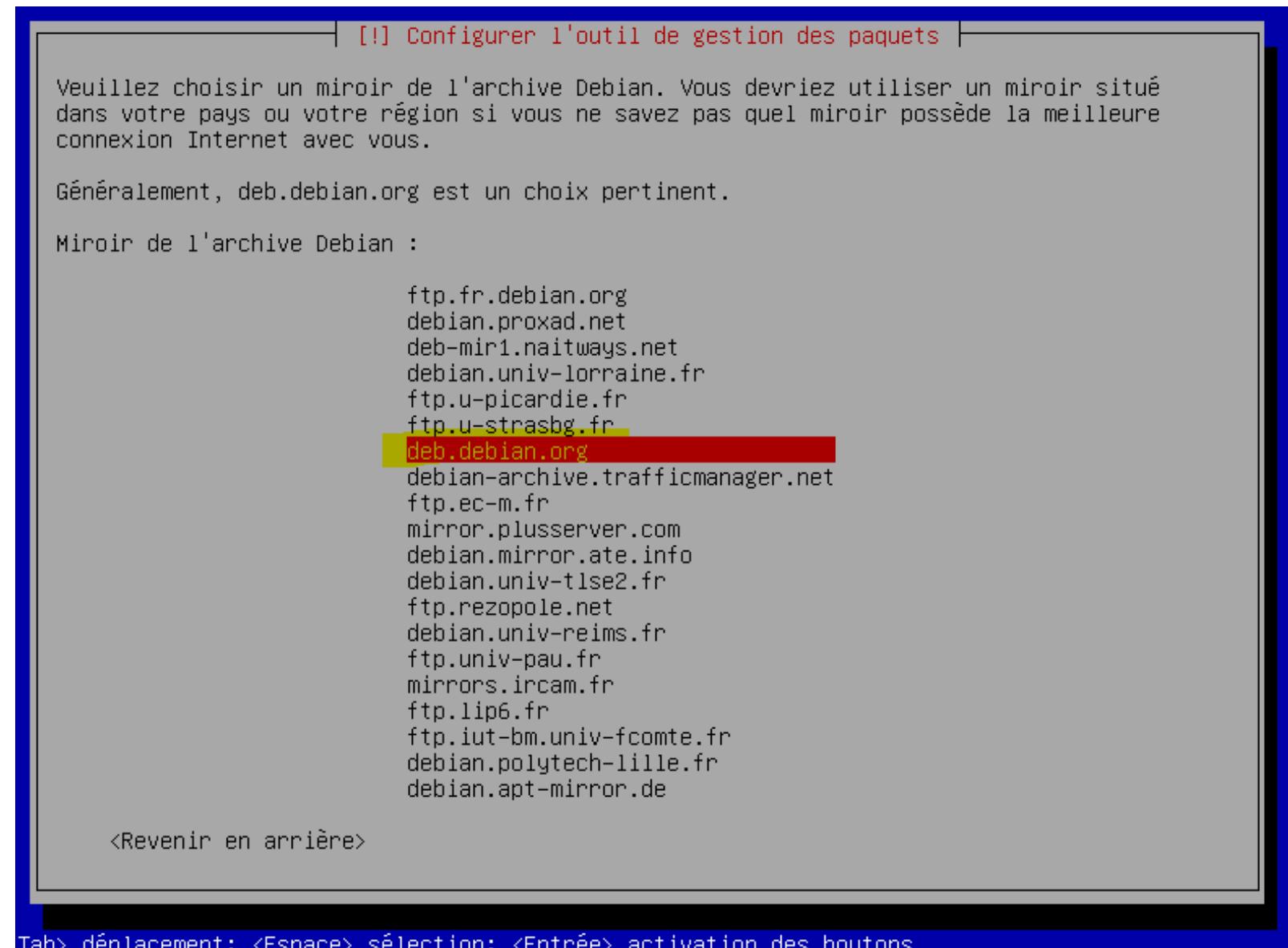
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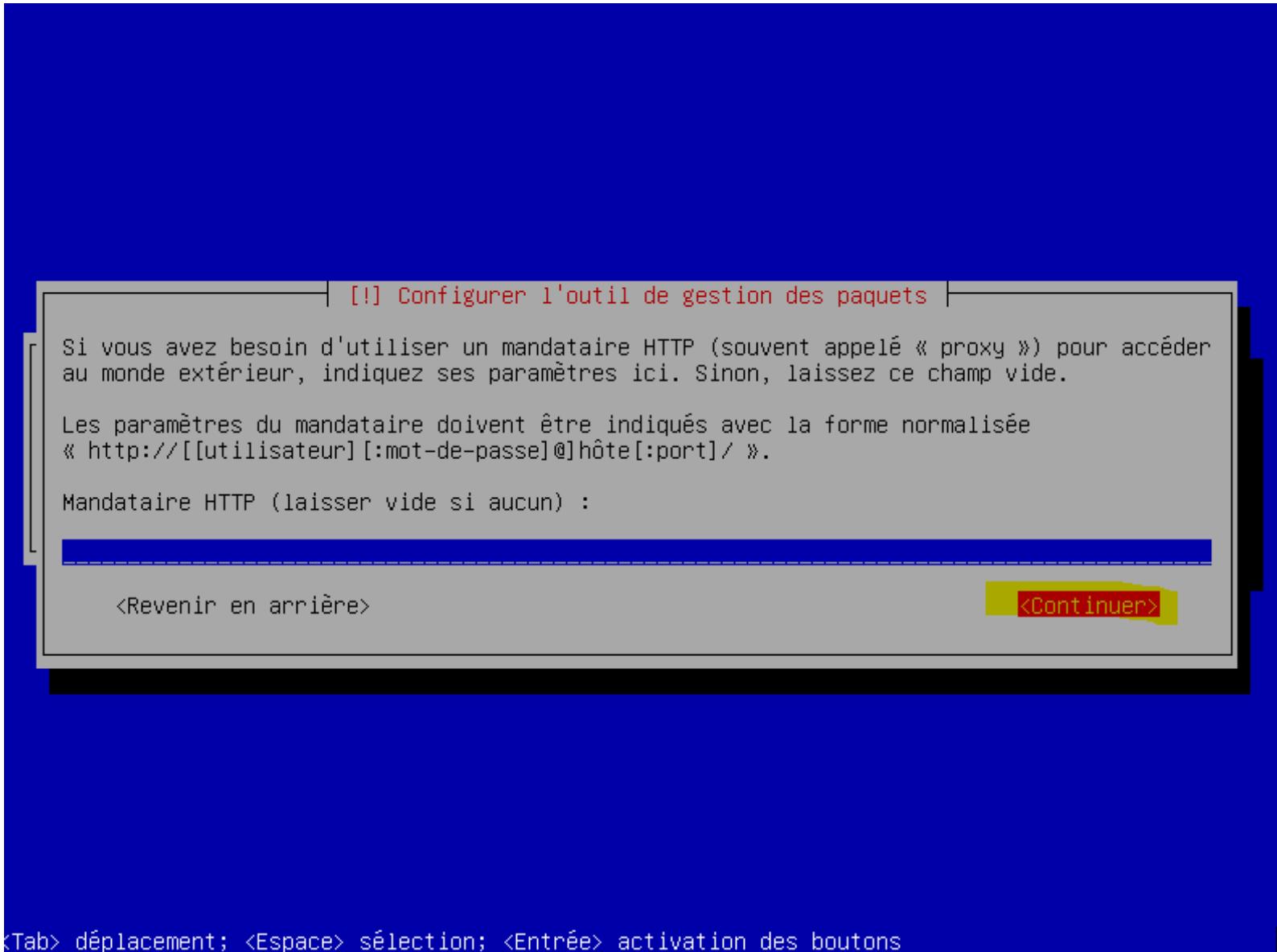
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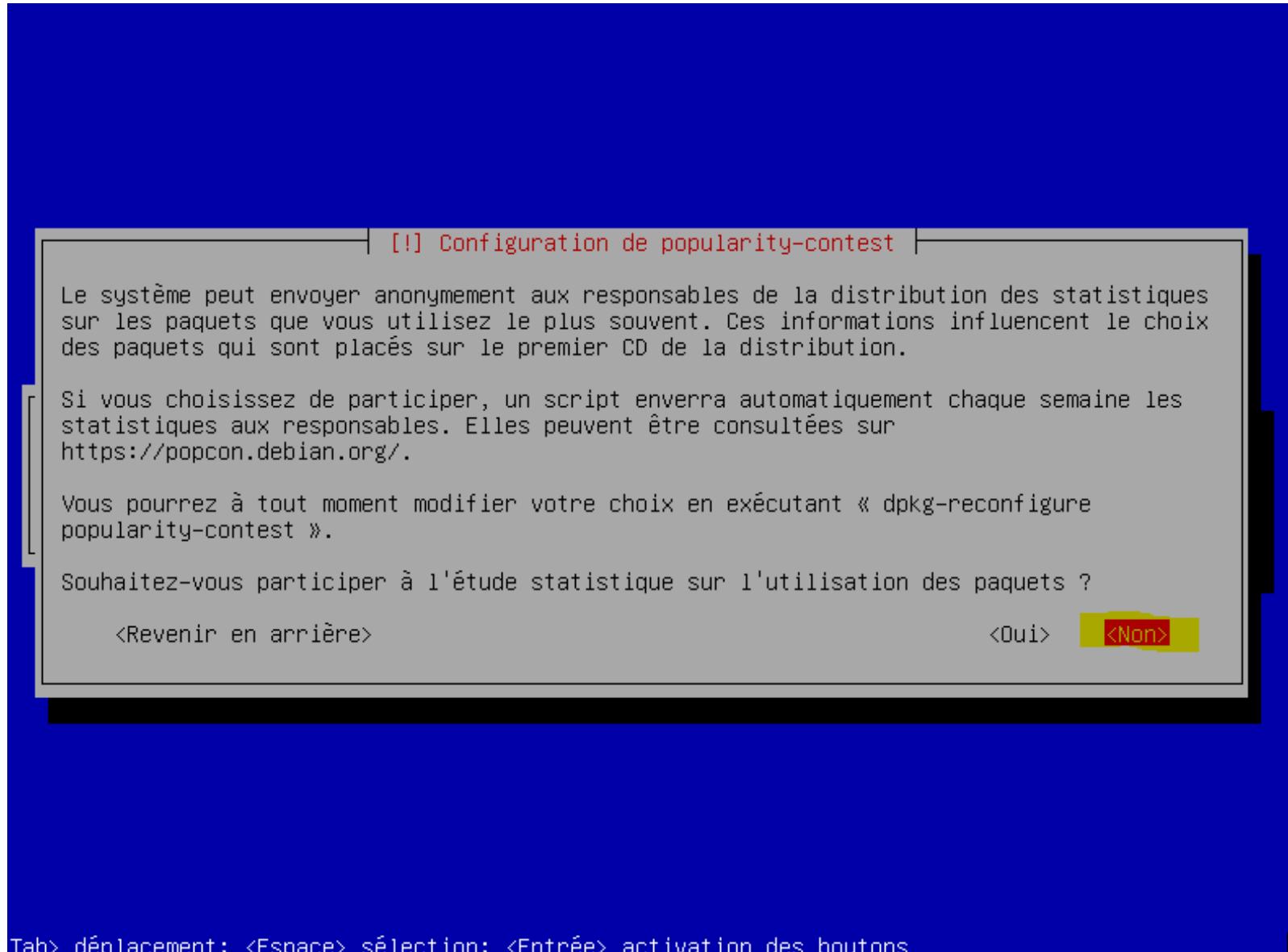
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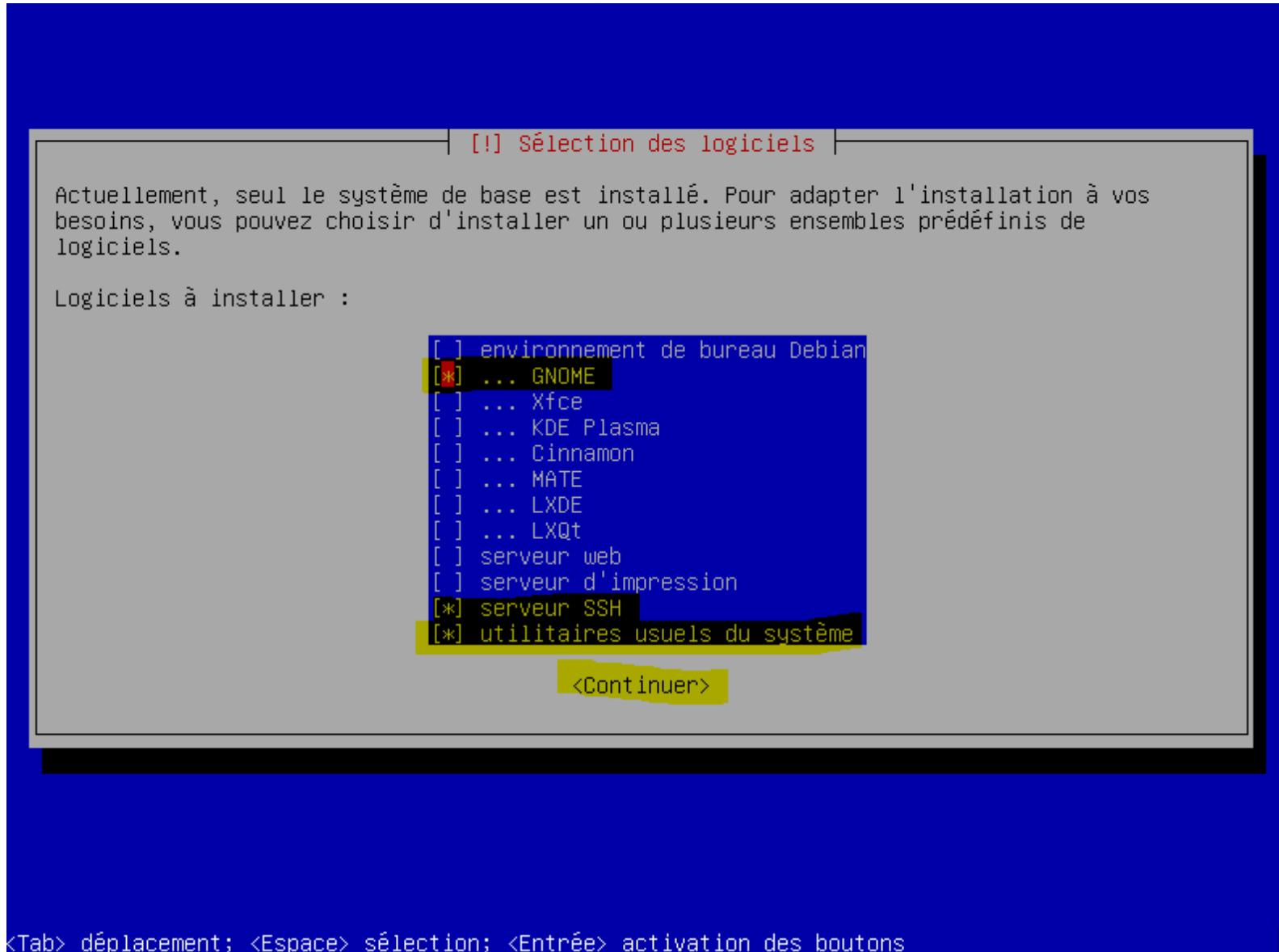
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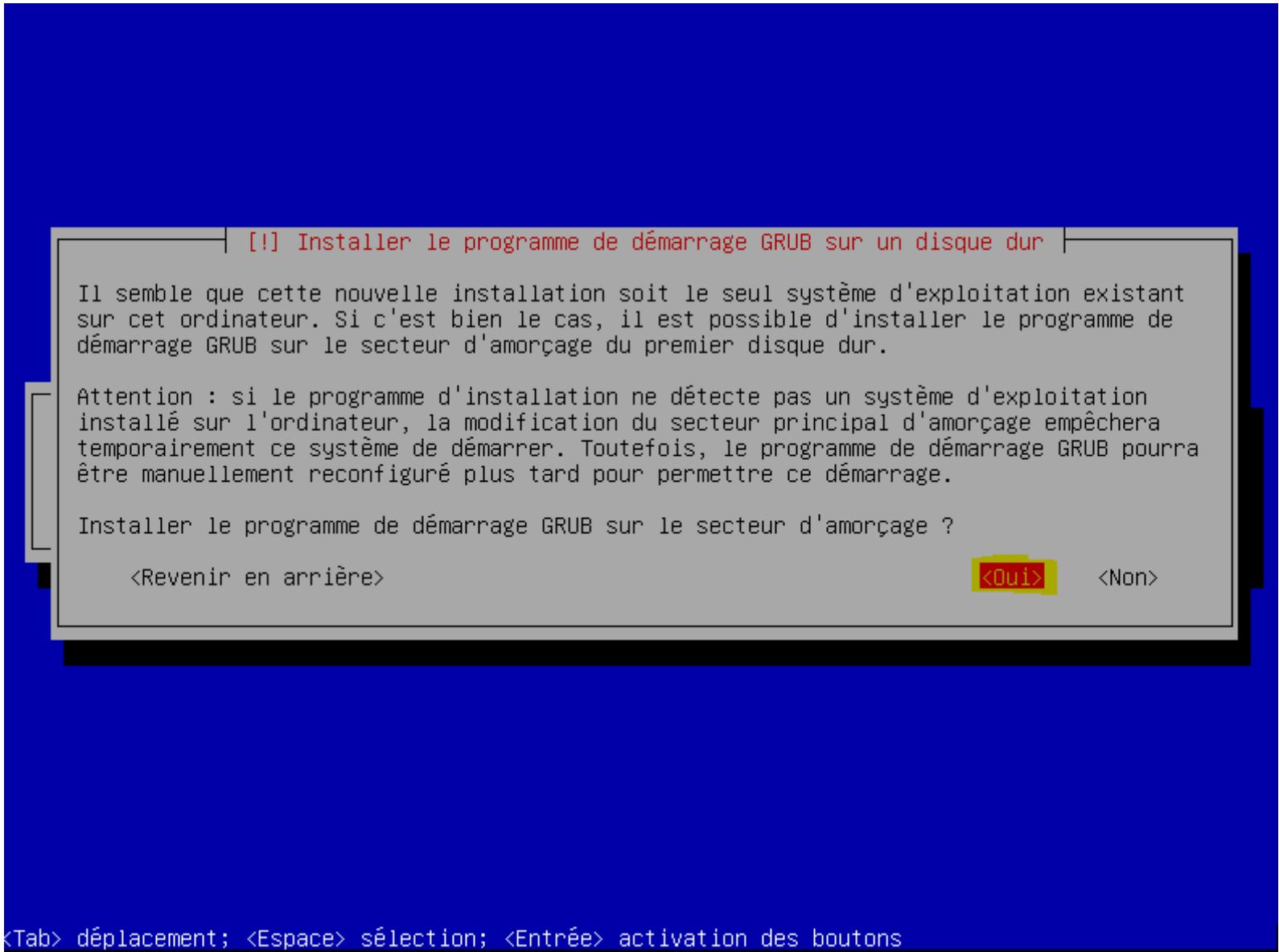
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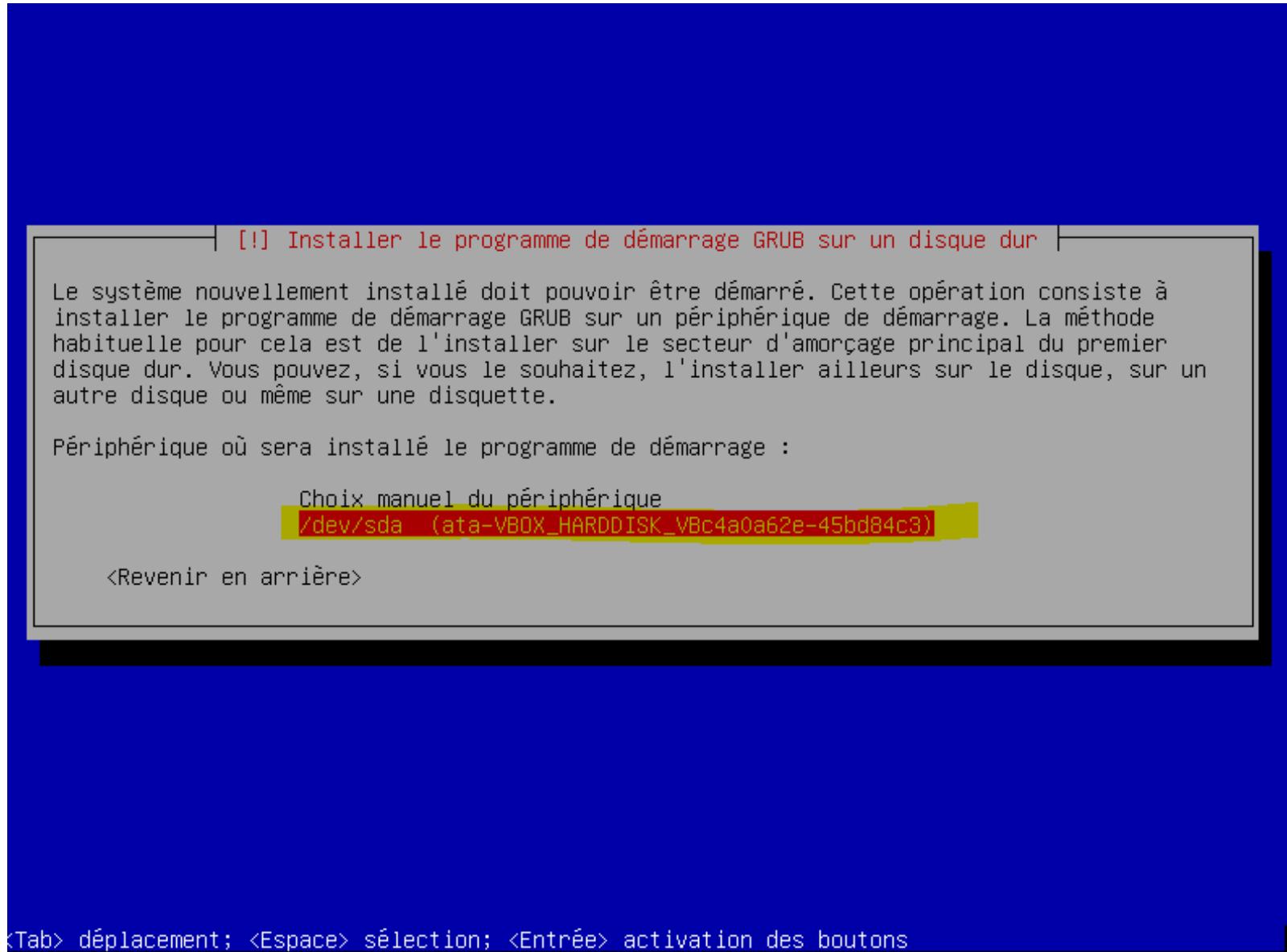
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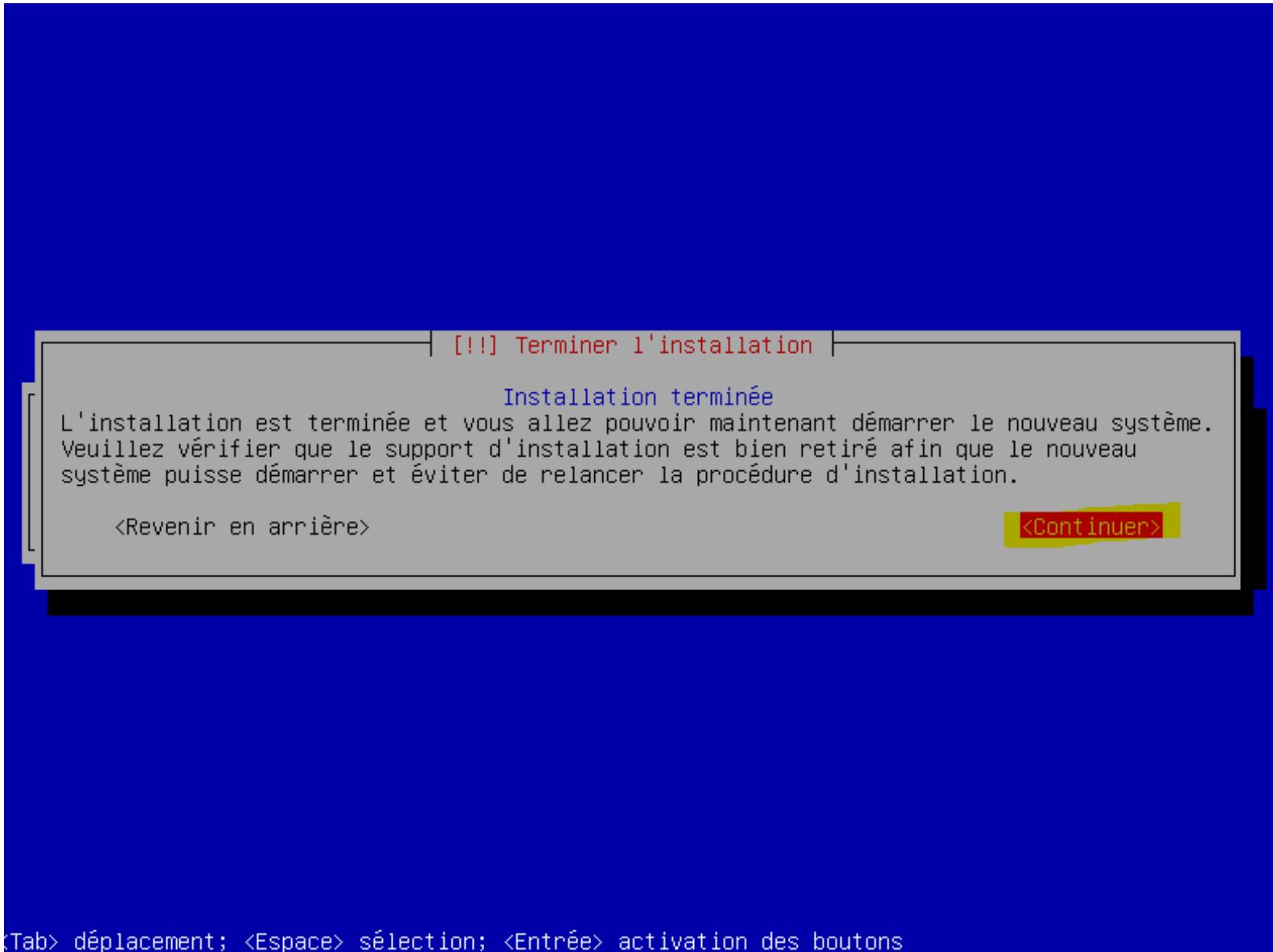
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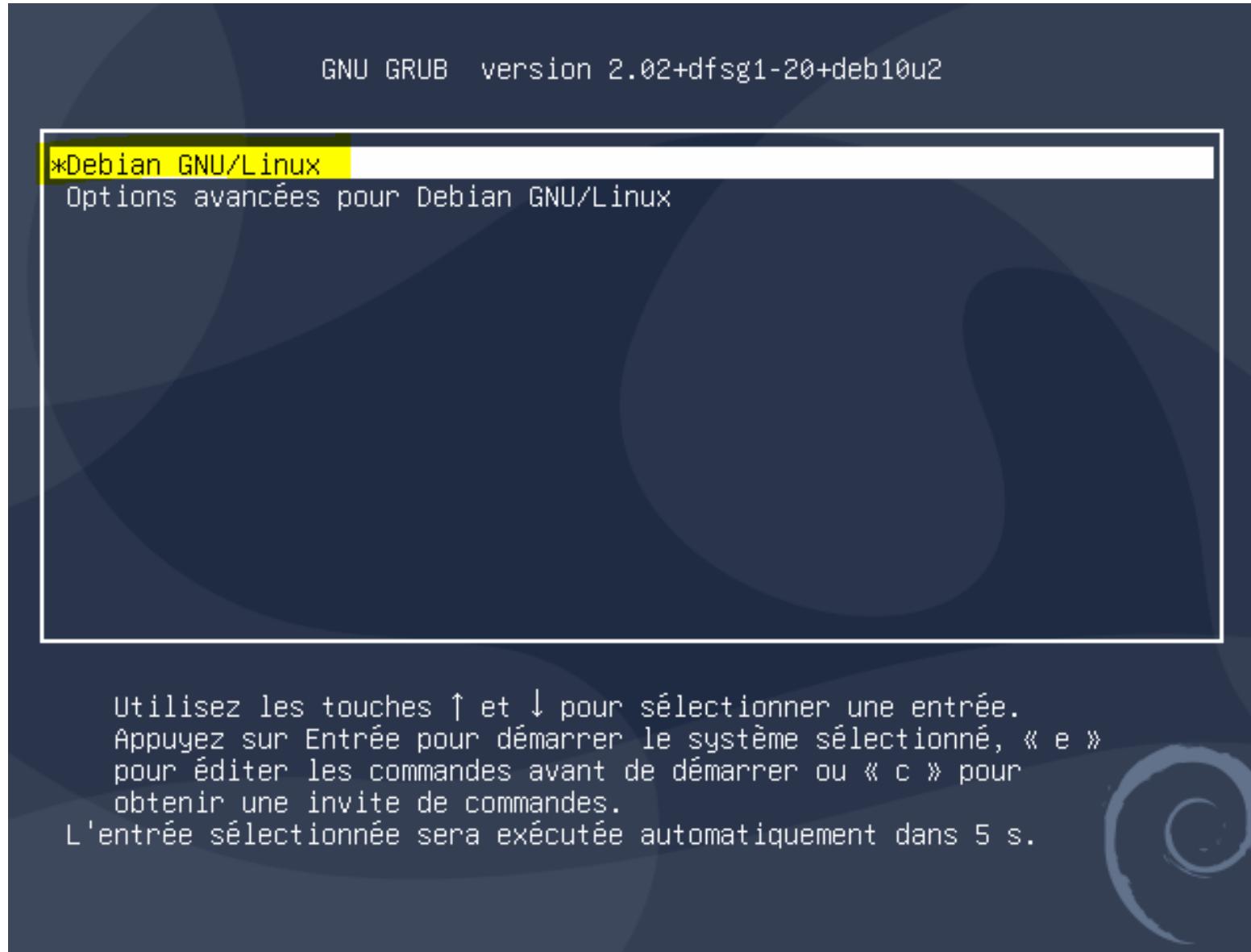
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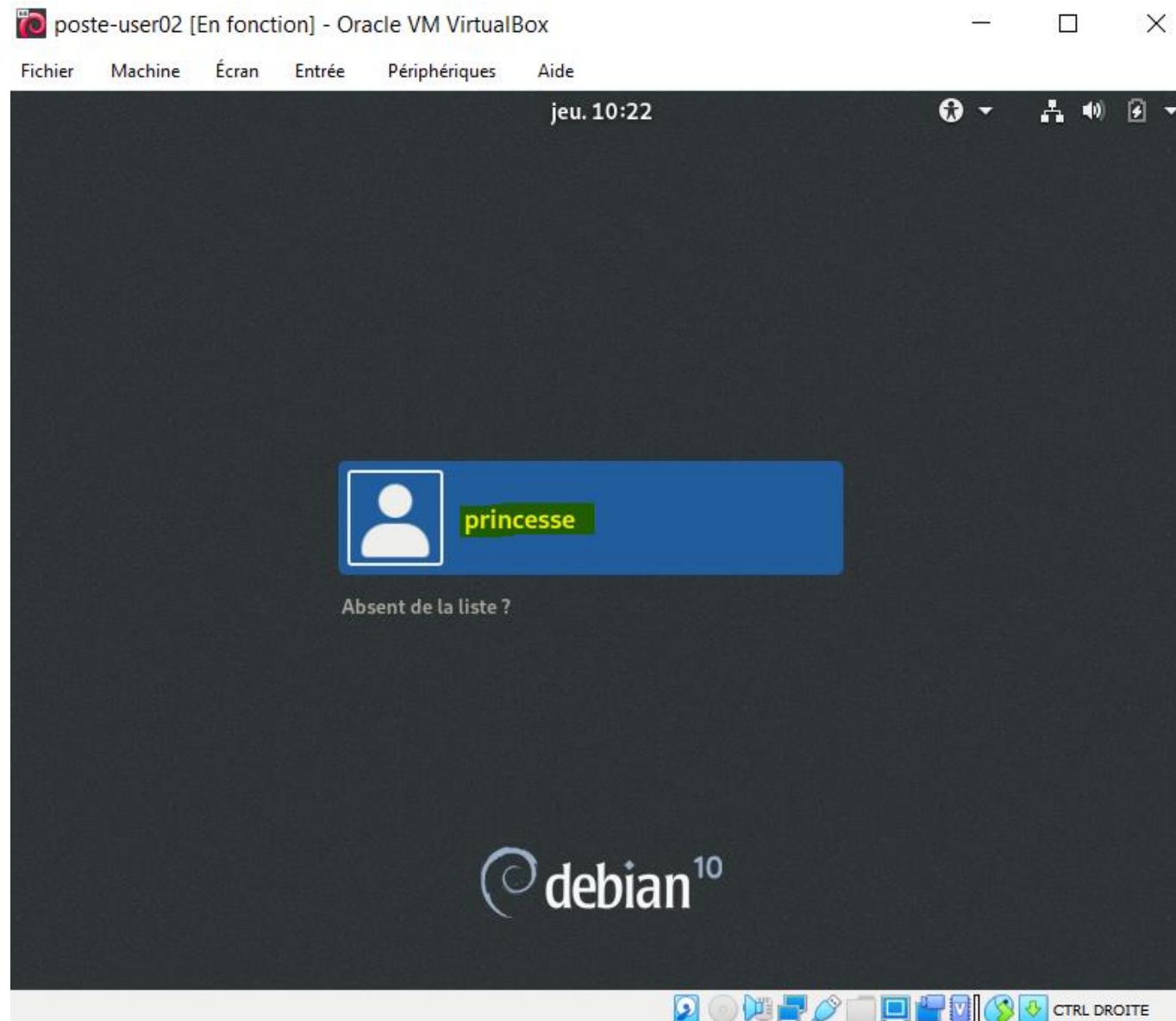
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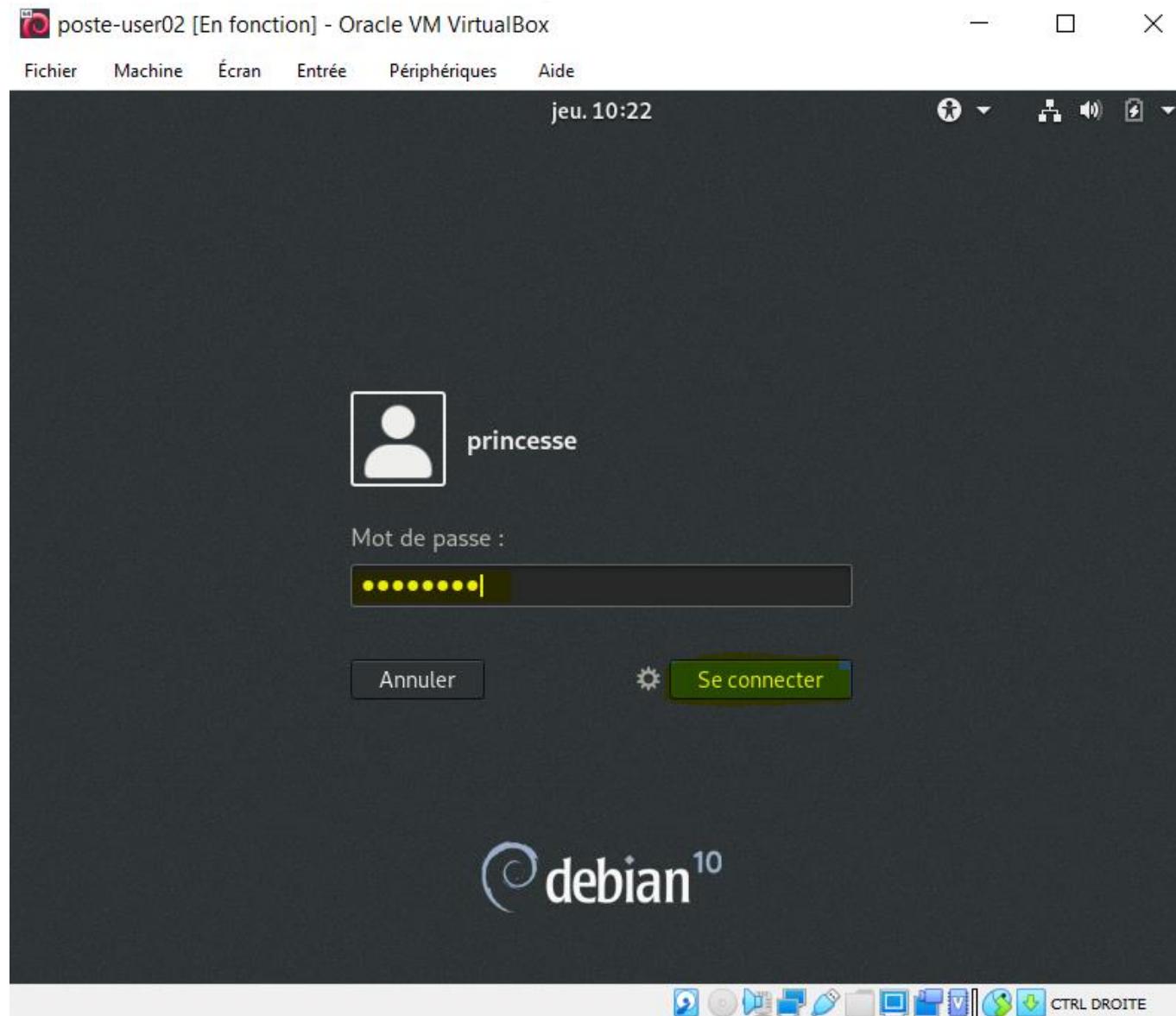
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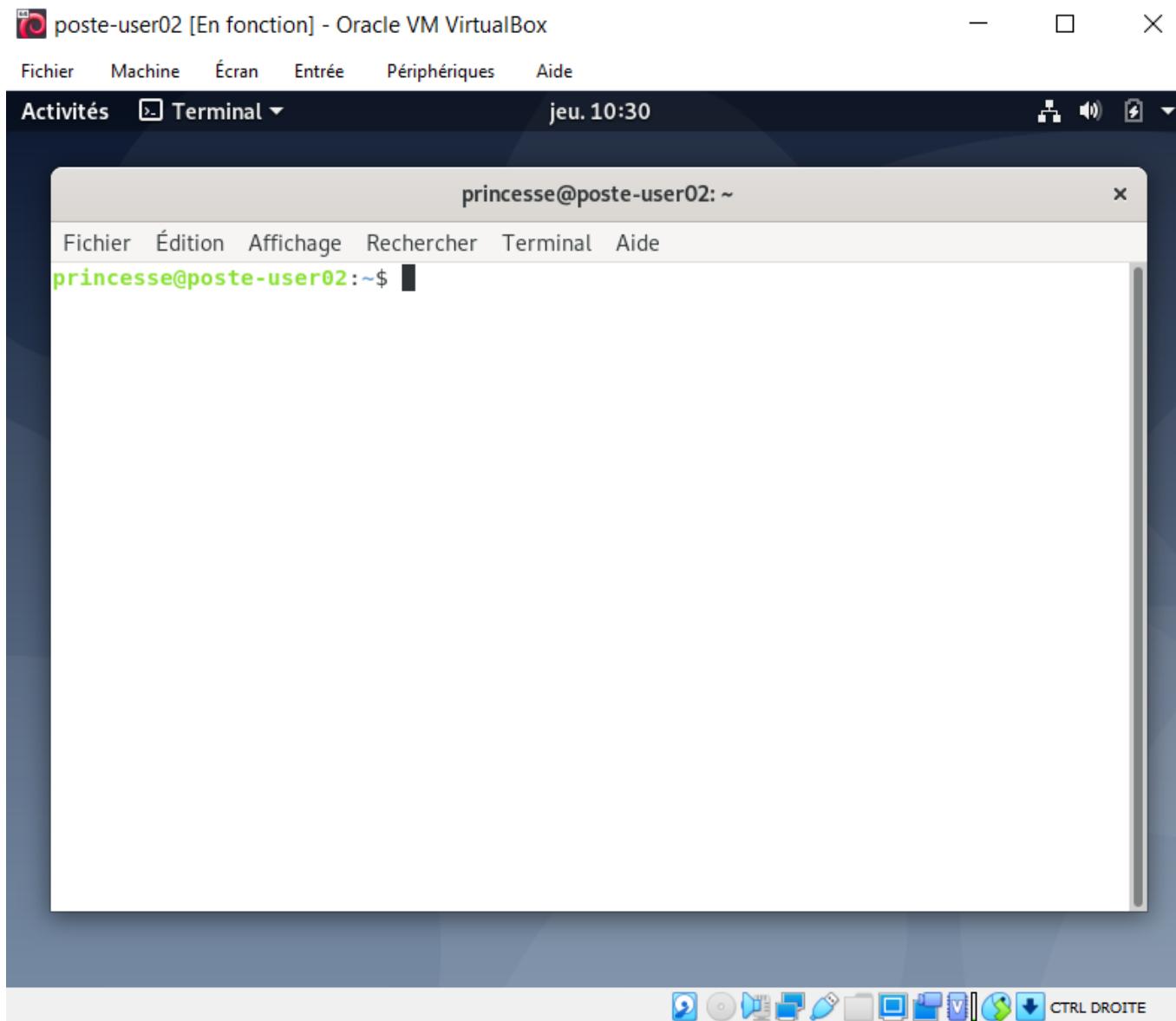
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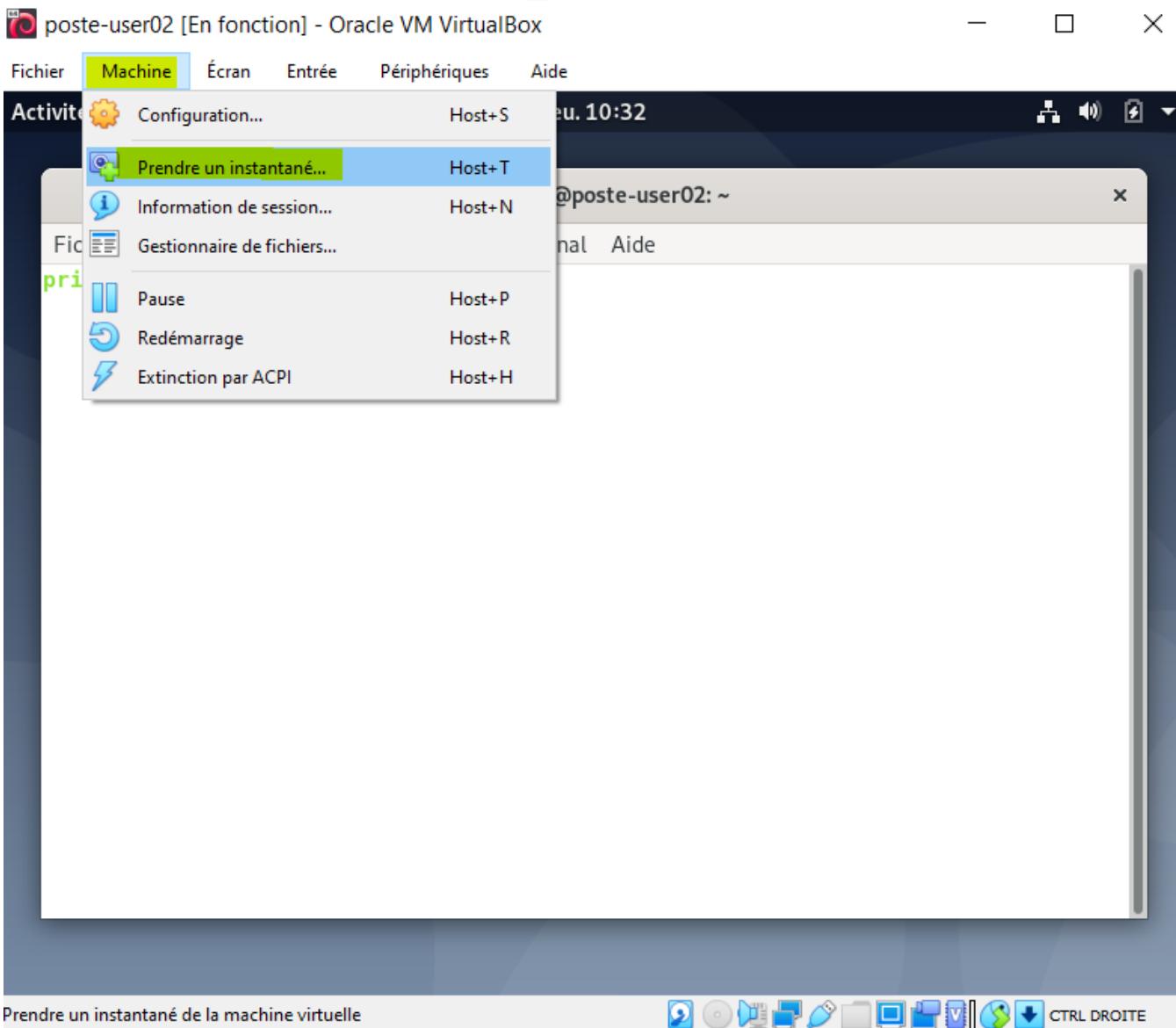
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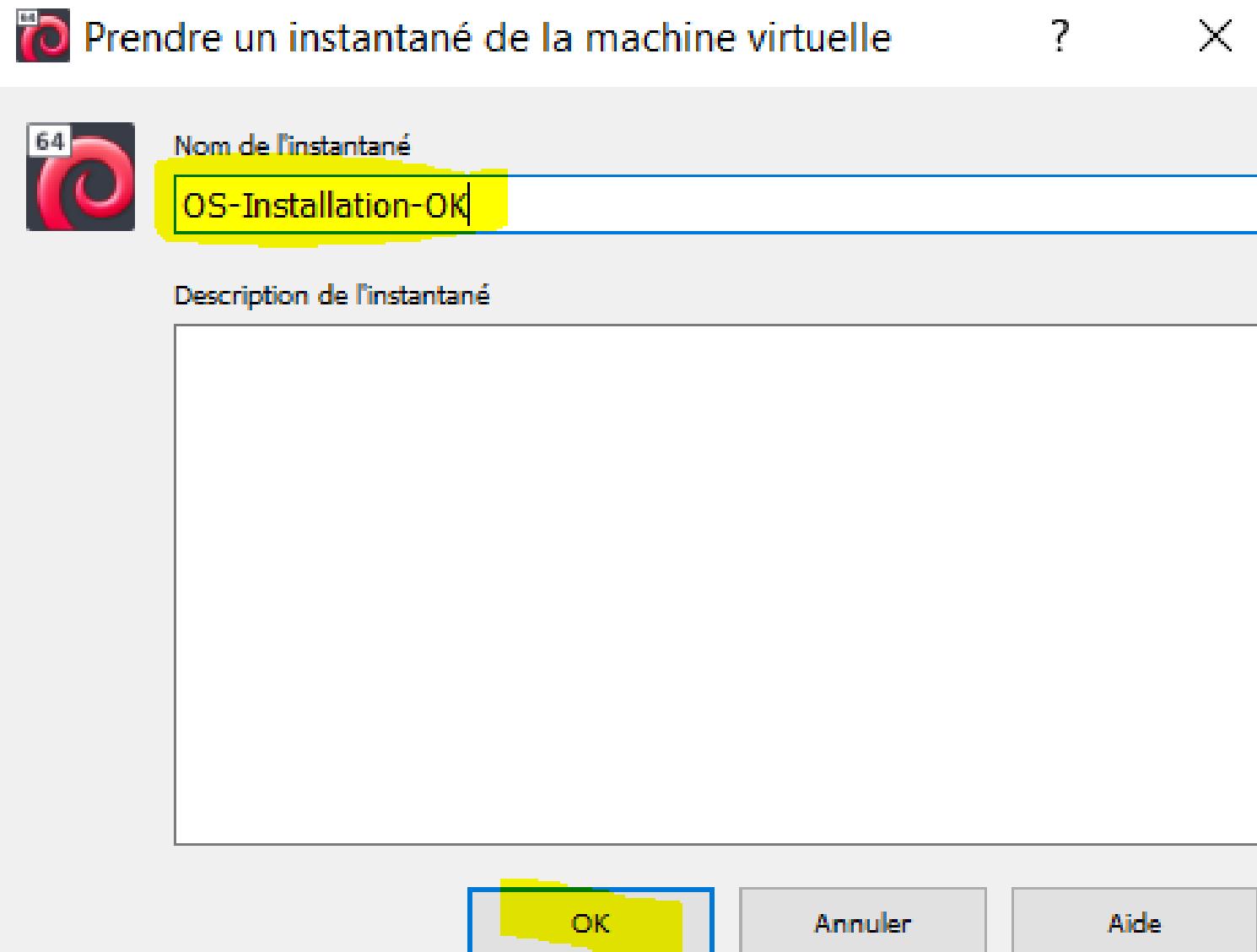
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