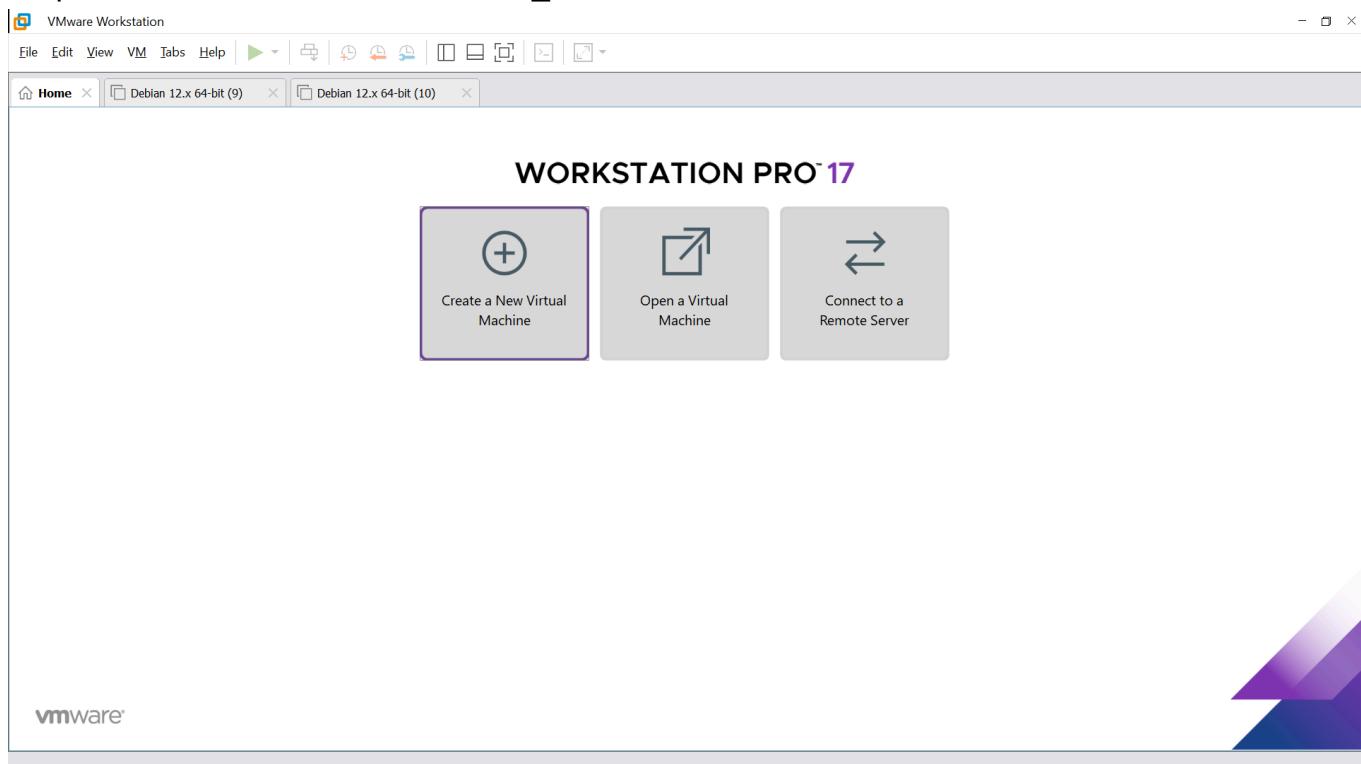


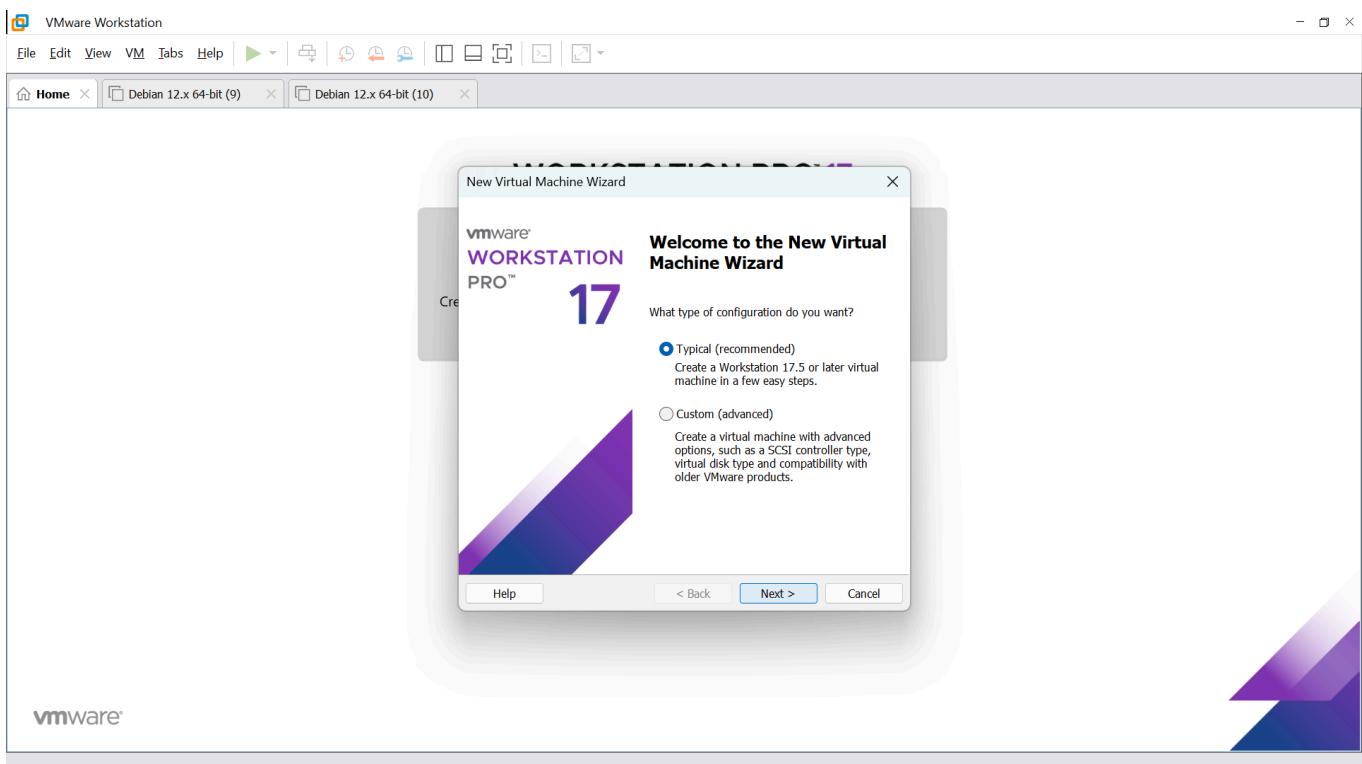
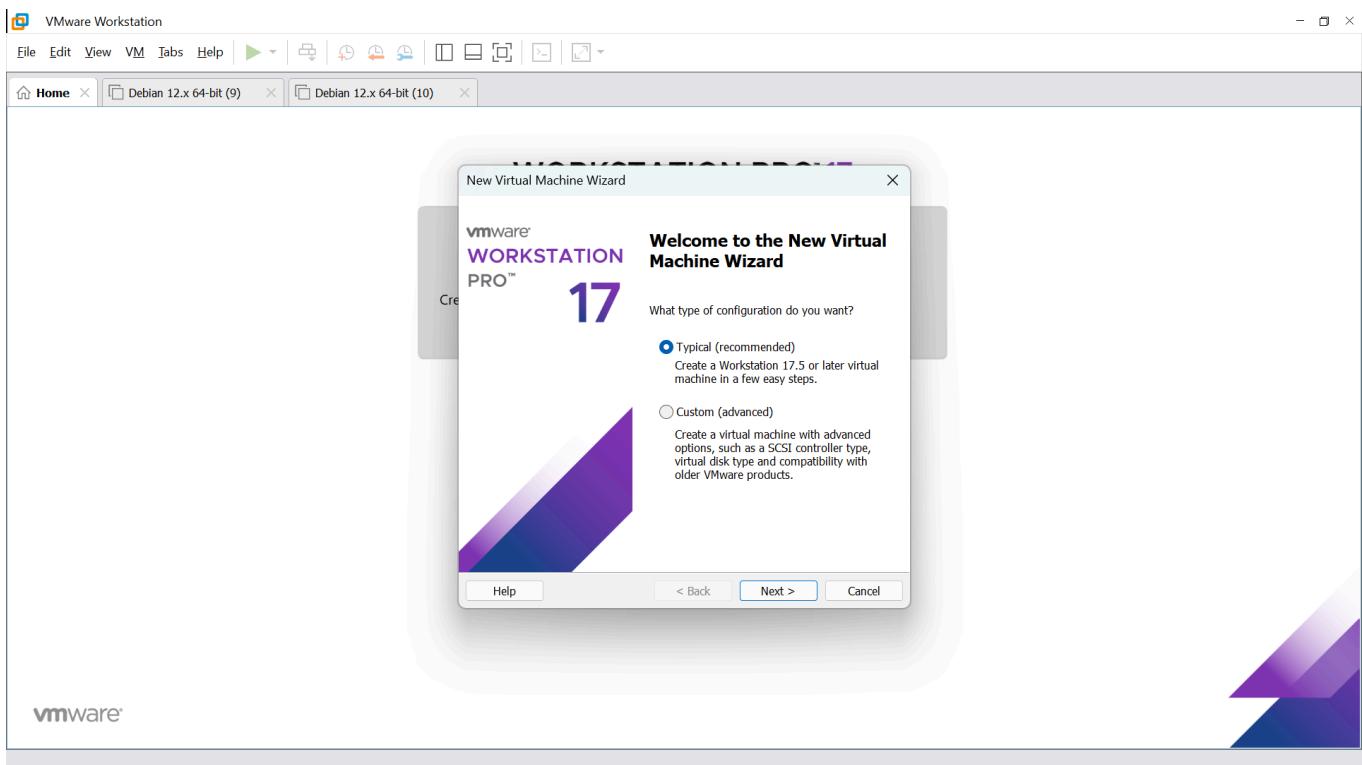
Debian_DHCP_DNS_SFTP_SSH

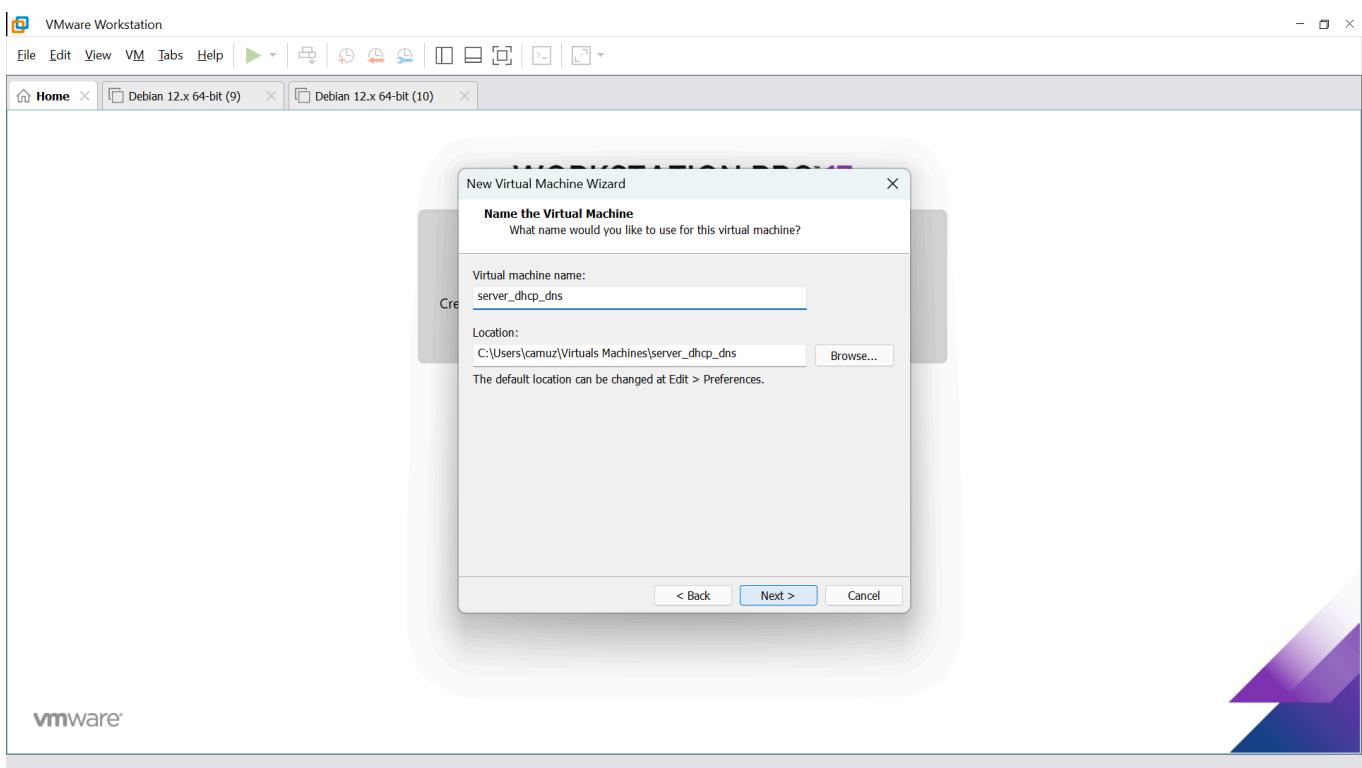
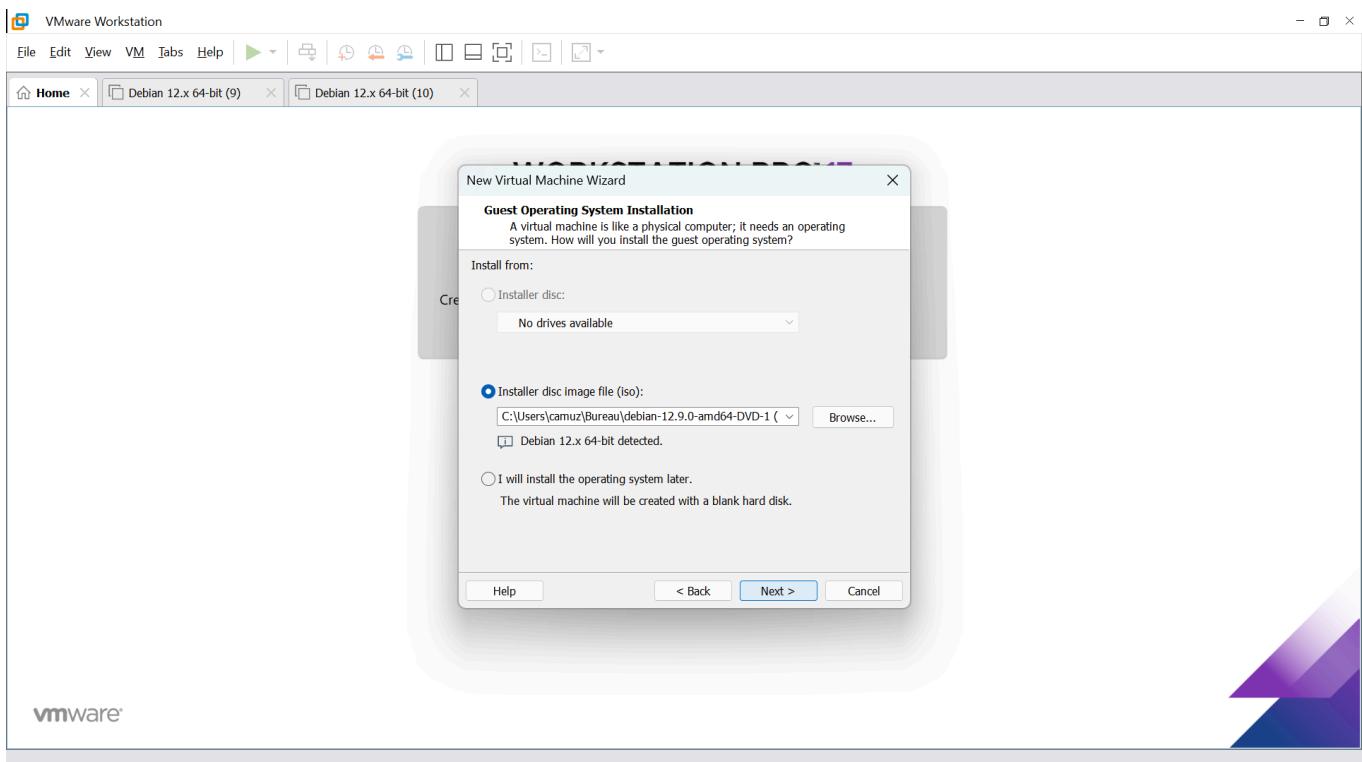
Sommaire :

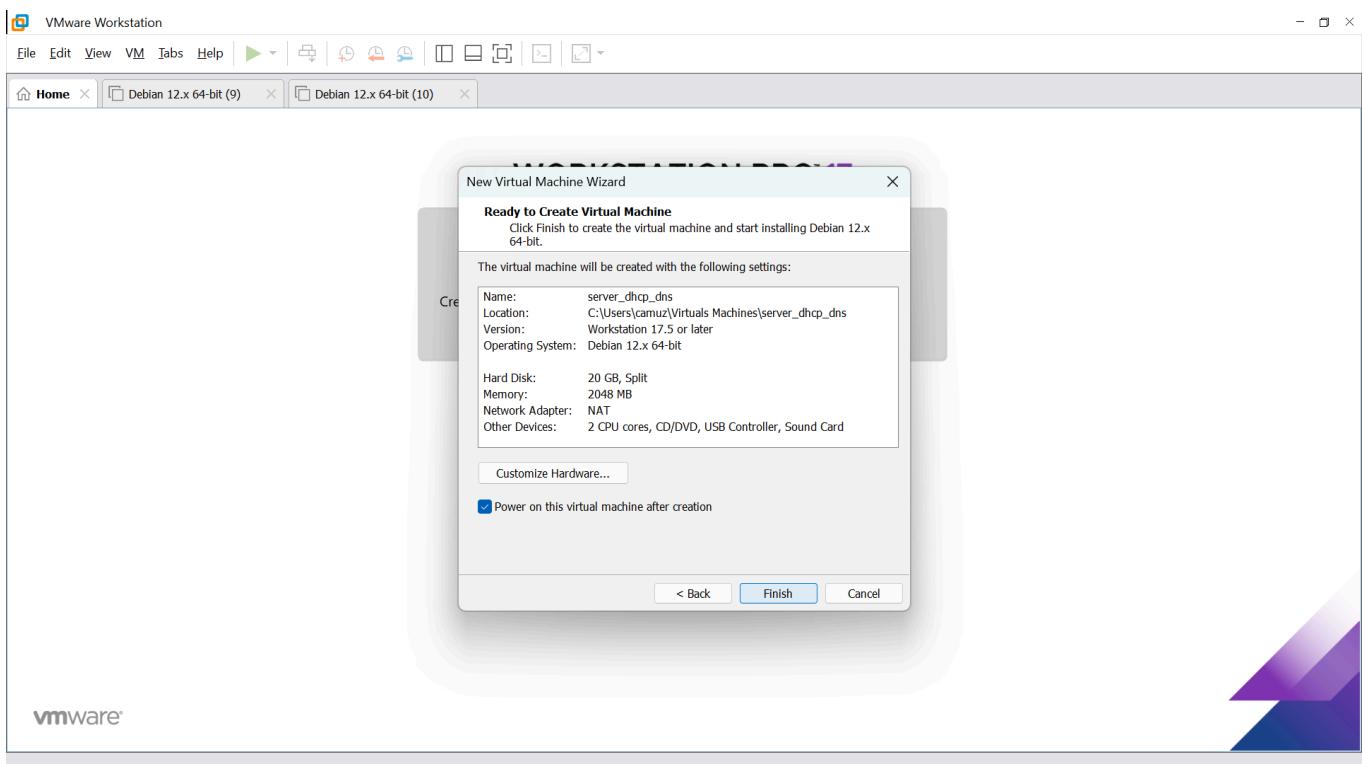
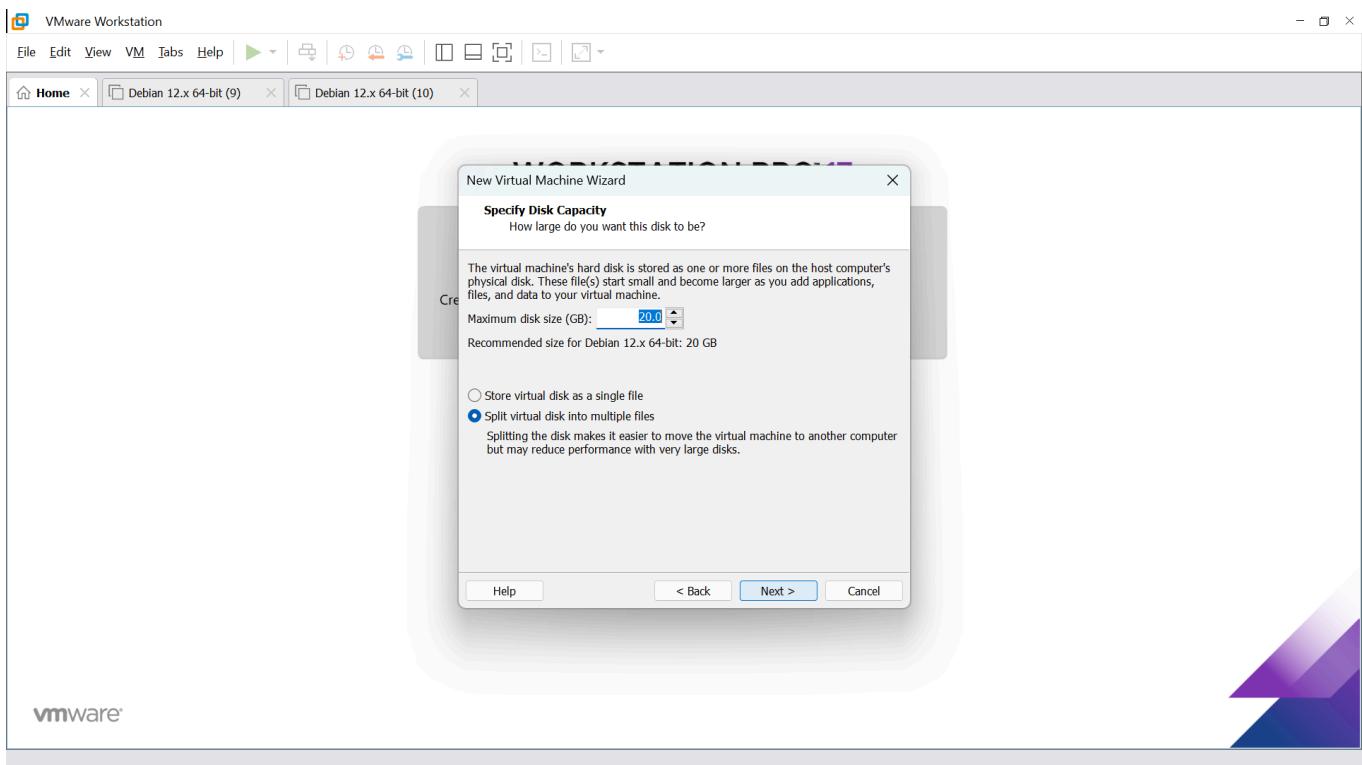
- **Étape 1** : Installation de la VM DHCP_DNS
- **Étape 2** : Mises à jour de la VM DHCP_DNS
- **Étape 3** : Installation du mode DHCP
- **Étape 4** : Vérification du fonctionnement de l'IP statique
- **Étape 5** : Configuration du mode DHCP
- **Étape 6** : Installation de la VM SFTP_SSH
- **Étape 7** : Test de fonctionnement du mode DHCP
- **Étape 8** : Mises à jour sur la VM DHCP_DNS
- **Étape 9** : Installation du mode SFTP et SSH
- **Étape 10** : Configuration du mode SFTP et SSH
- **Étape 11** : Test de connexion SFTP

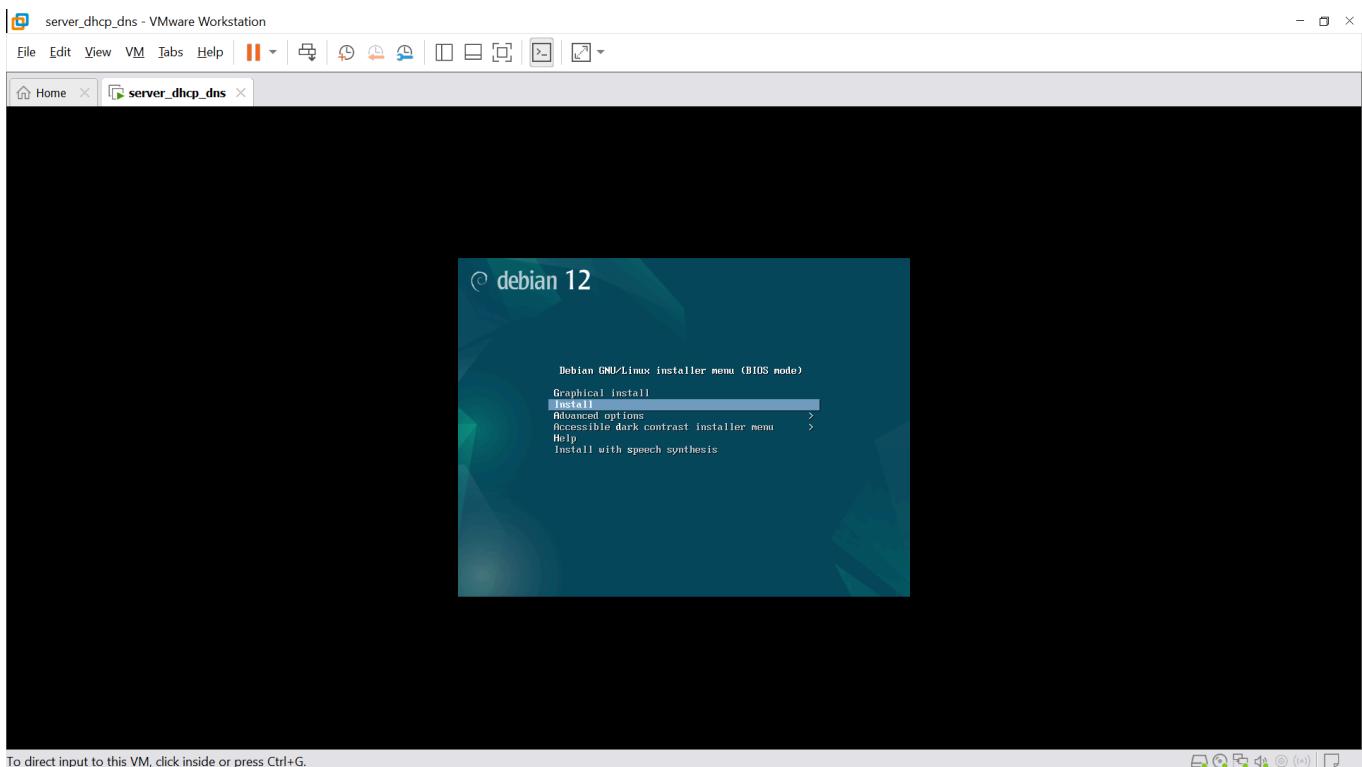
Etape 1 : Installation de la VM DHCP_DNS



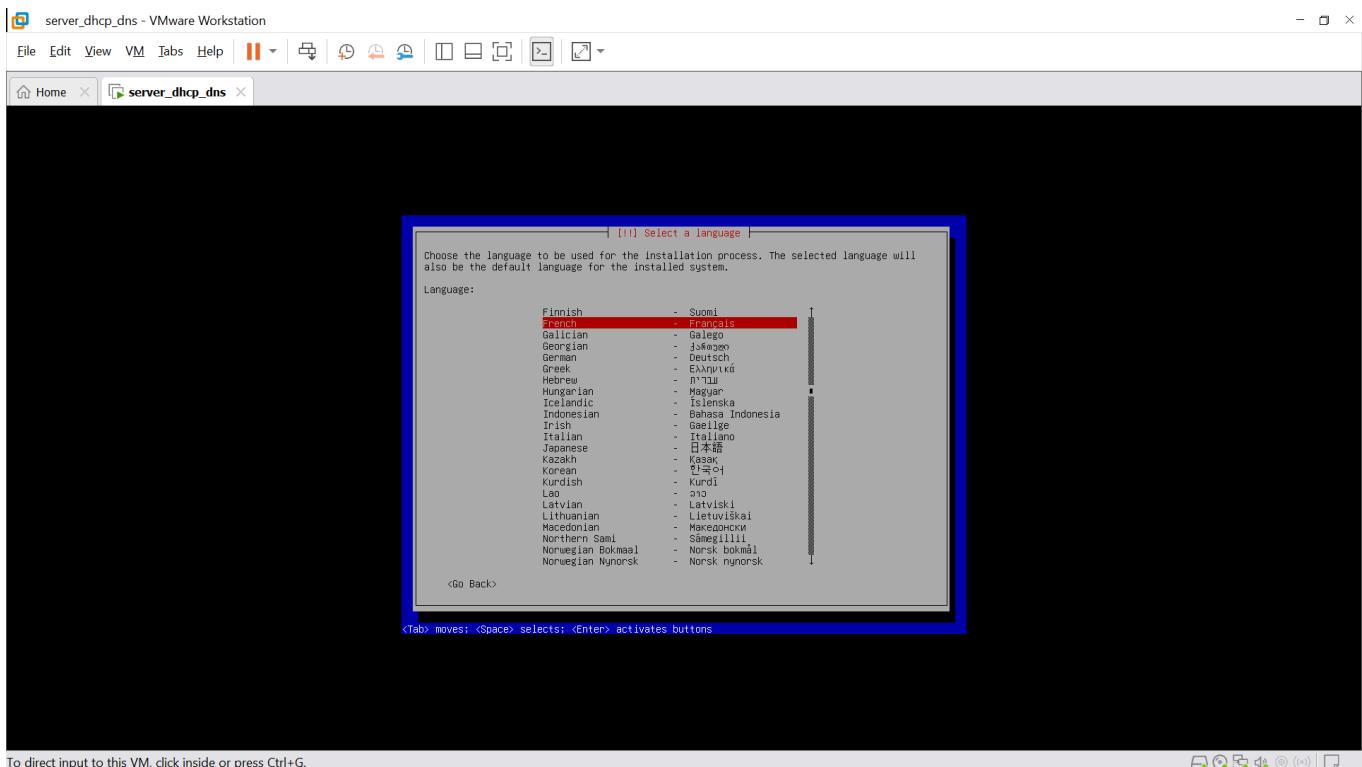




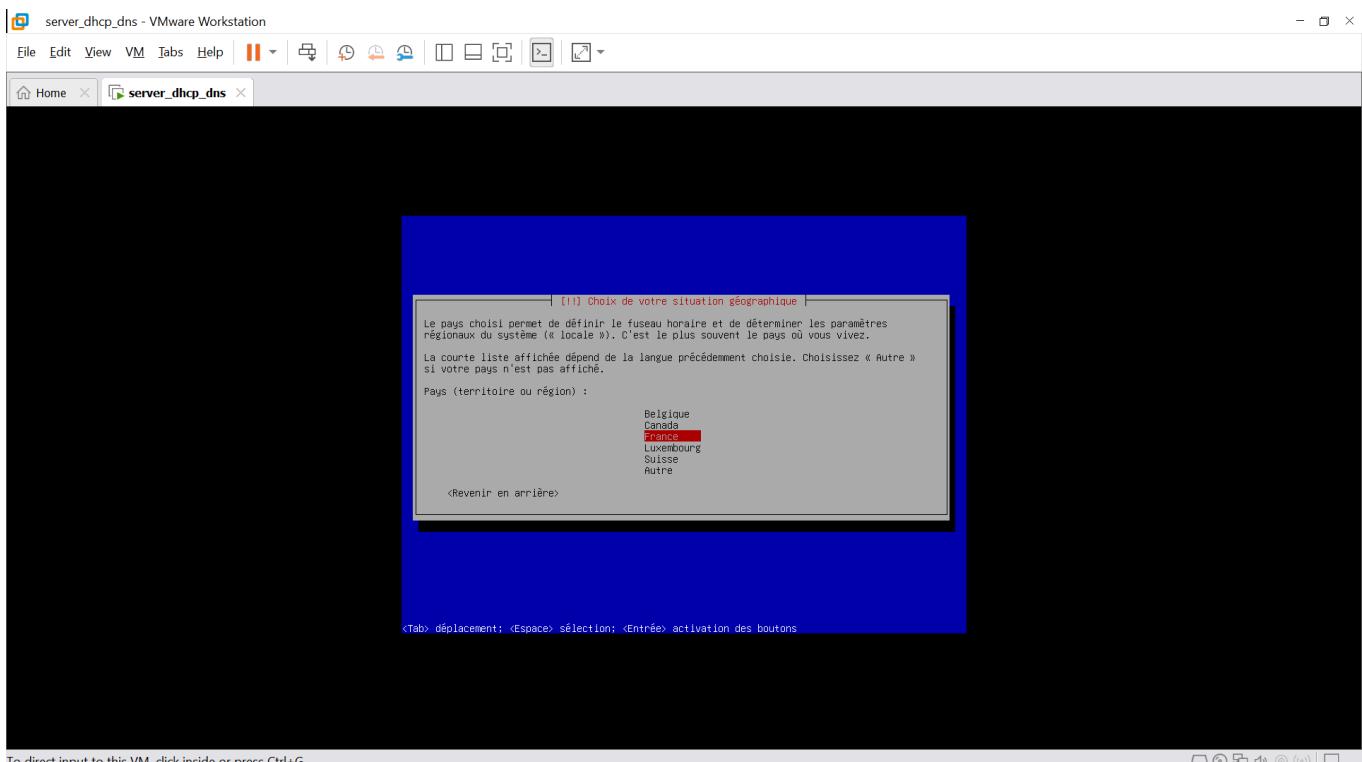




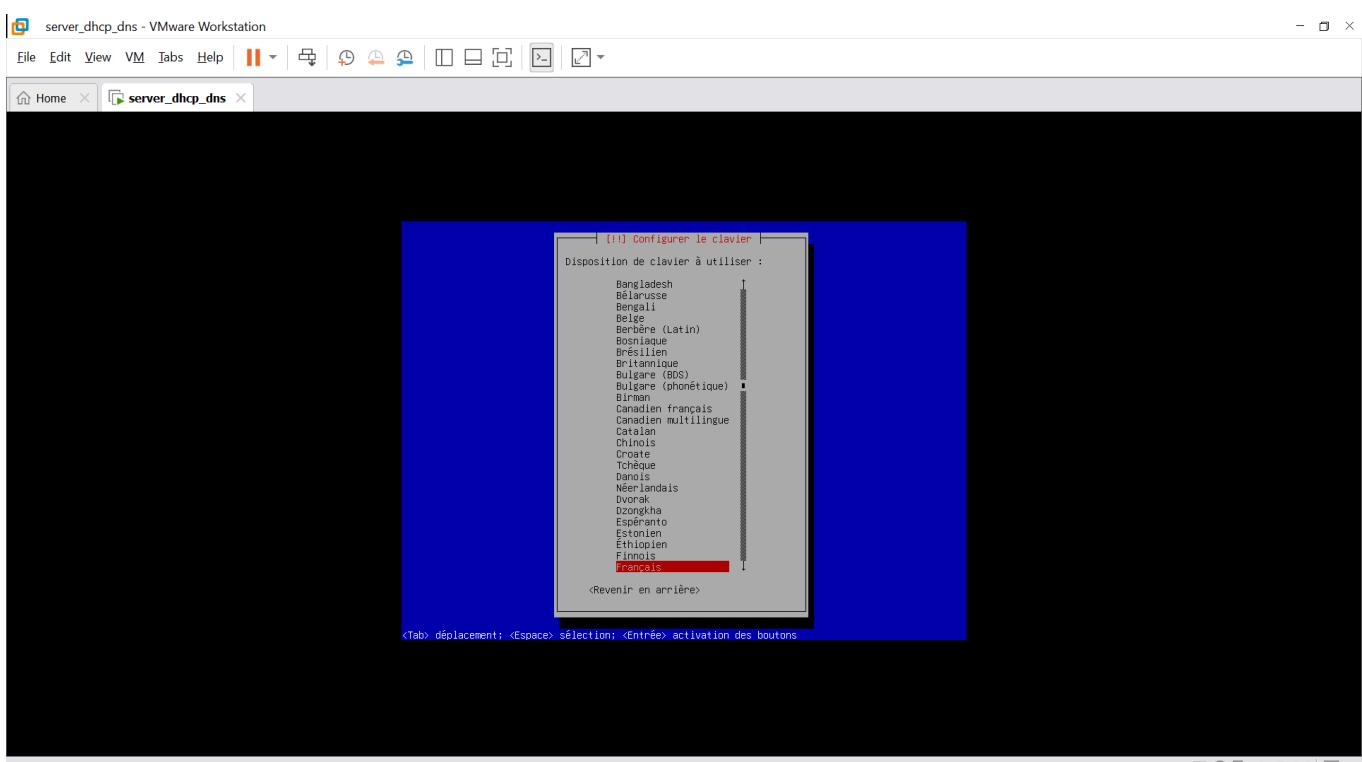
To direct input to this VM, click inside or press Ctrl+G.



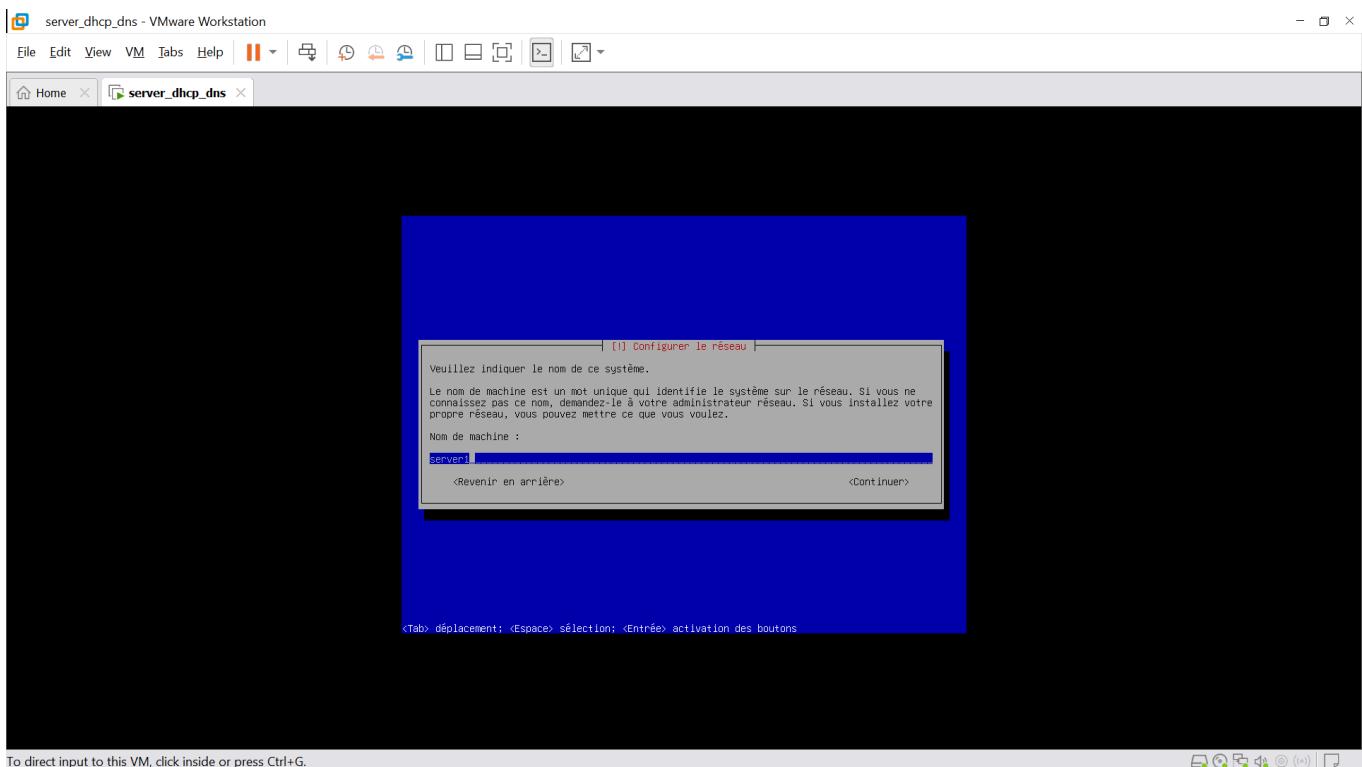
To direct input to this VM, click inside or press Ctrl+G.



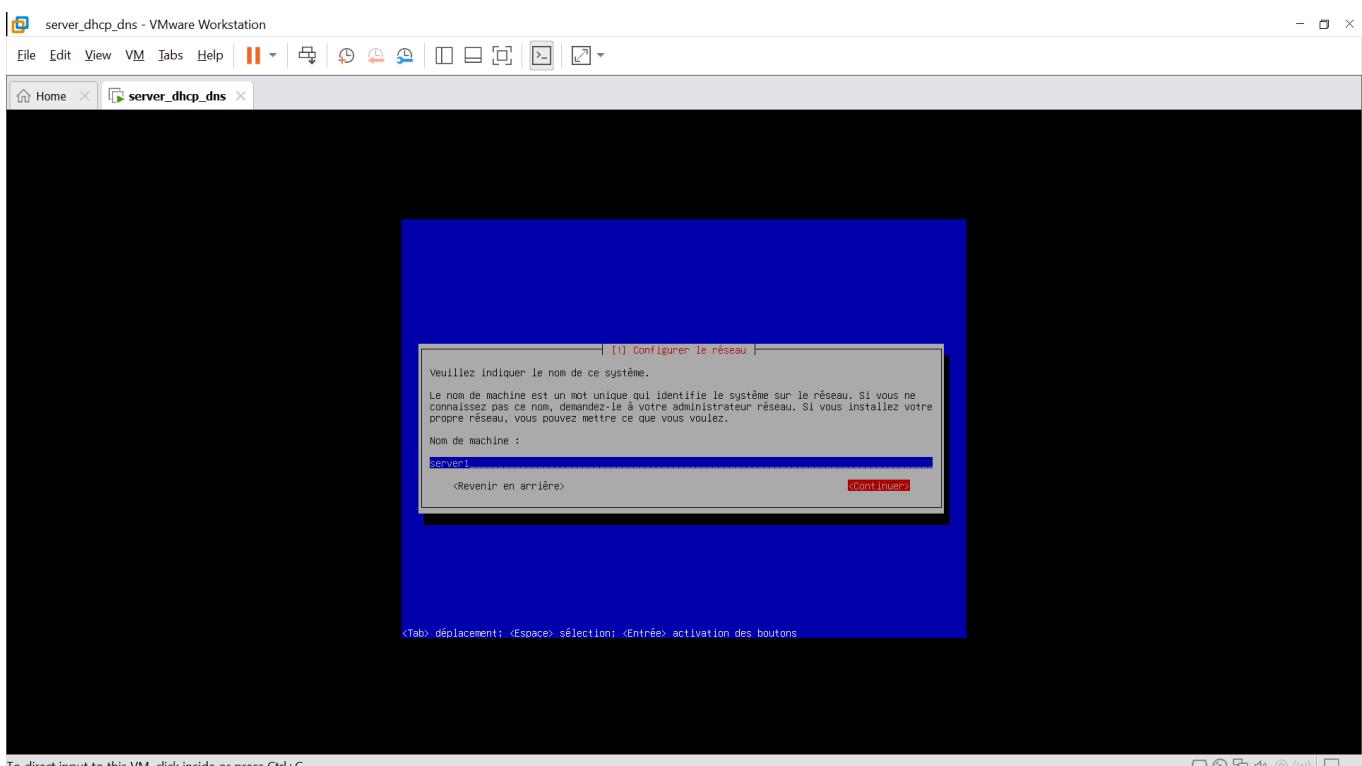
To direct input to this VM, click inside or press Ctrl+G.



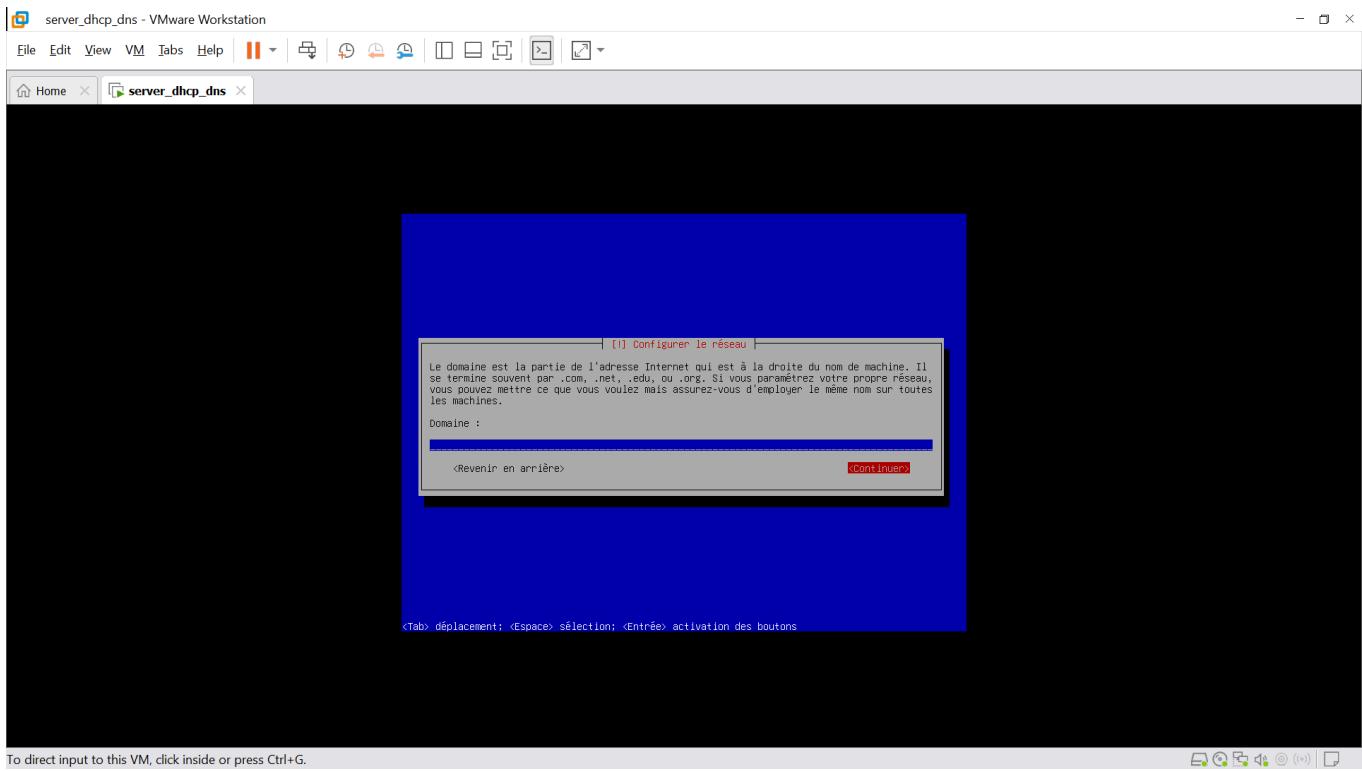
To direct input to this VM, click inside or press Ctrl+G.



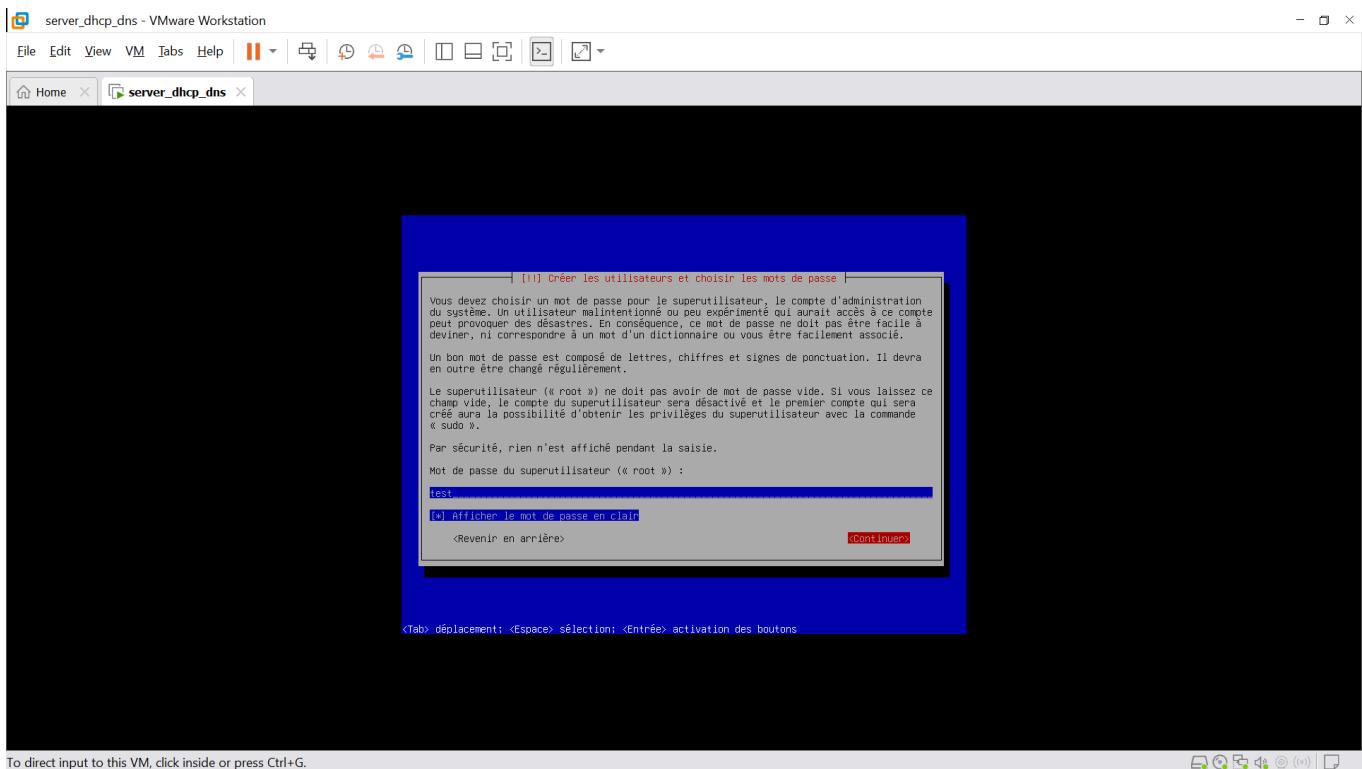
To direct input to this VM, click inside or press Ctrl+G.



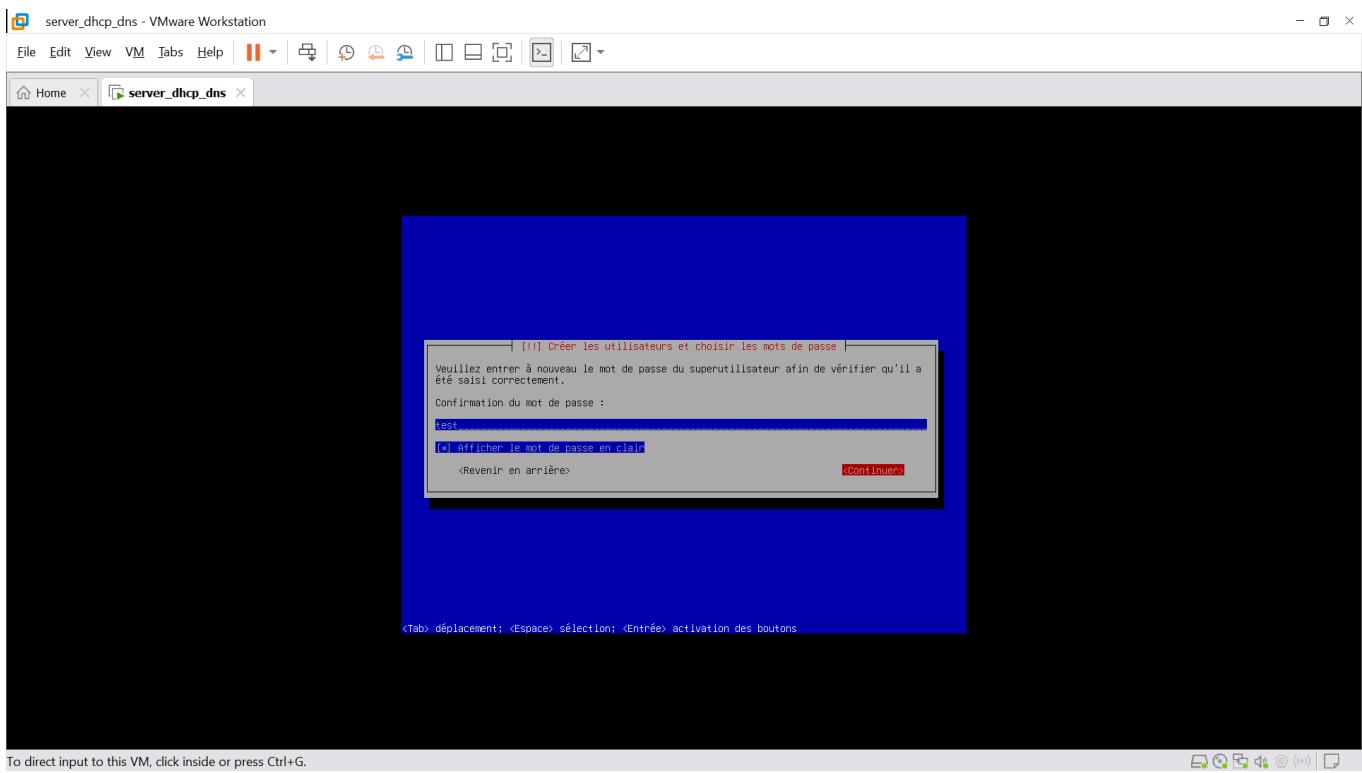
To direct input to this VM, click inside or press Ctrl+G.



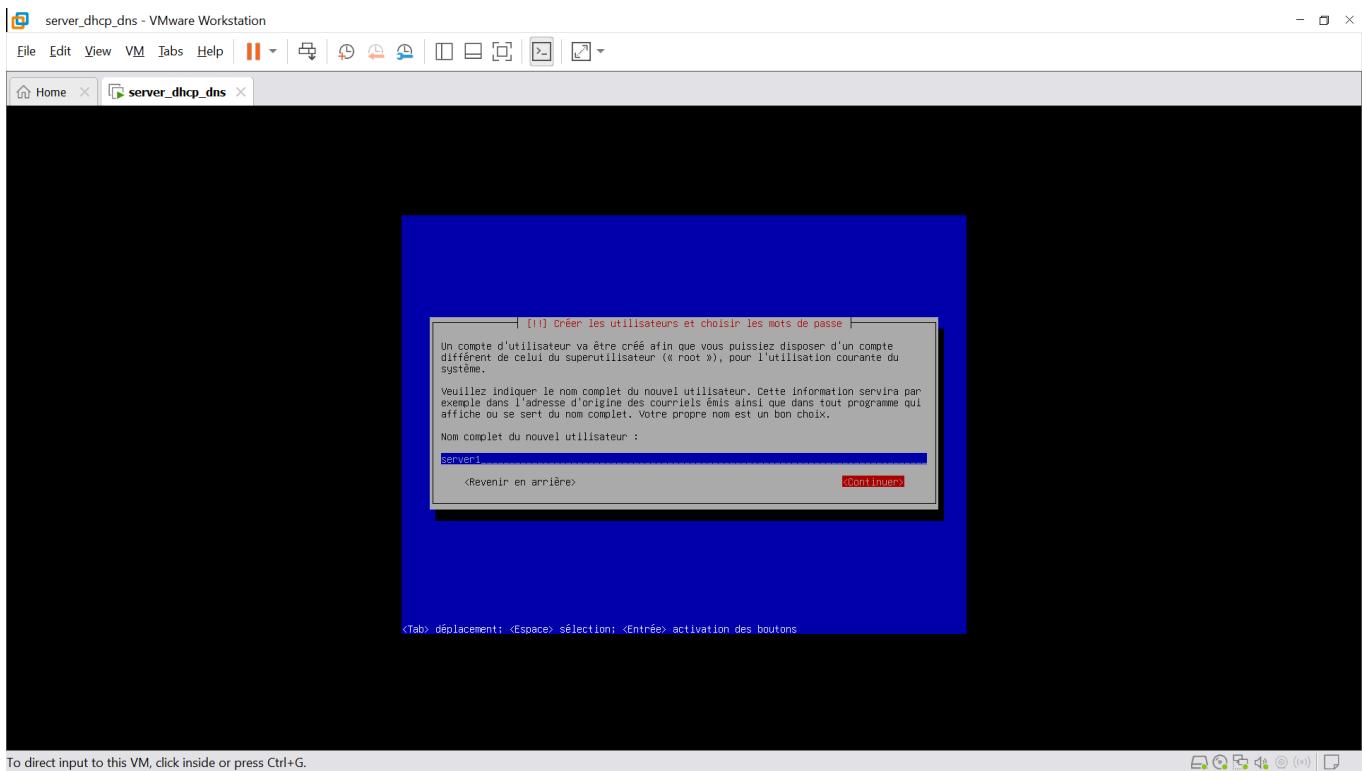
To direct input to this VM, click inside or press Ctrl+G.



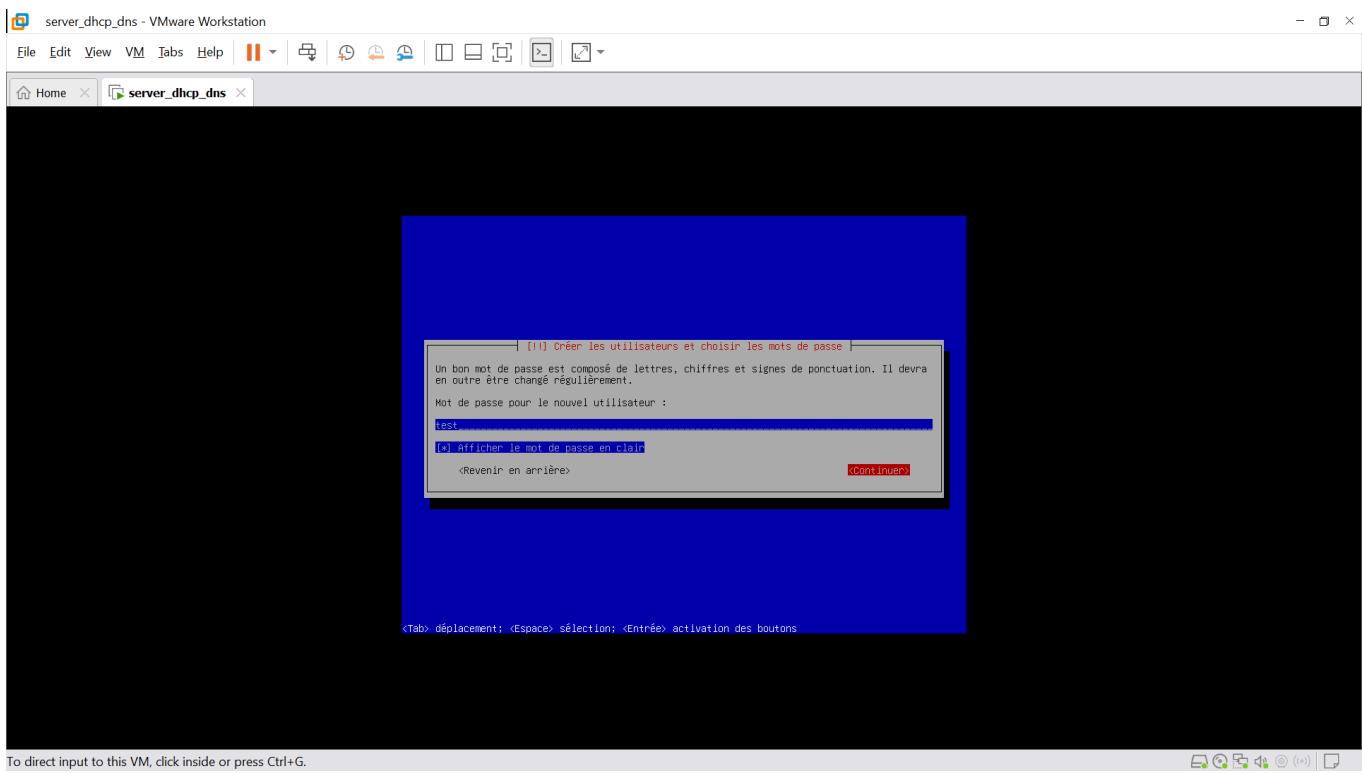
To direct input to this VM, click inside or press Ctrl+G.



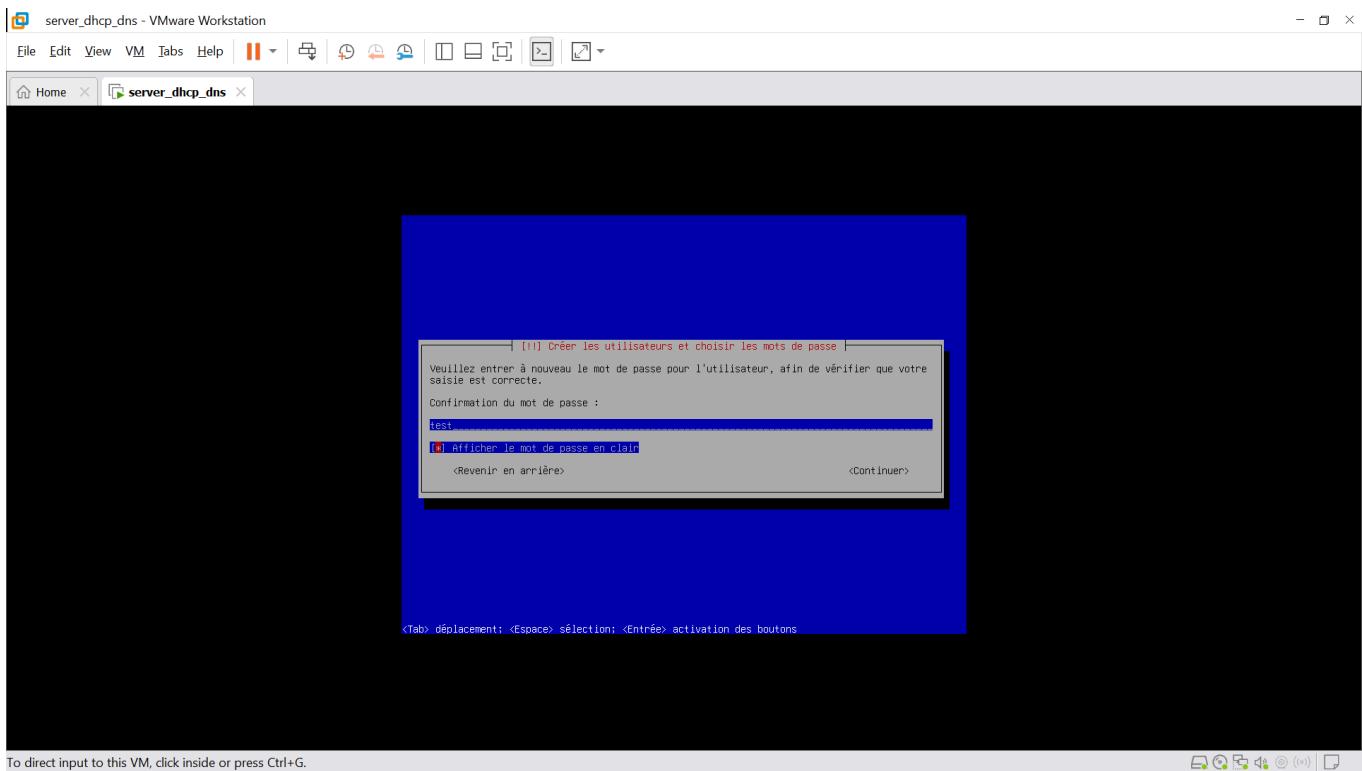
To direct input to this VM, click inside or press Ctrl+G.



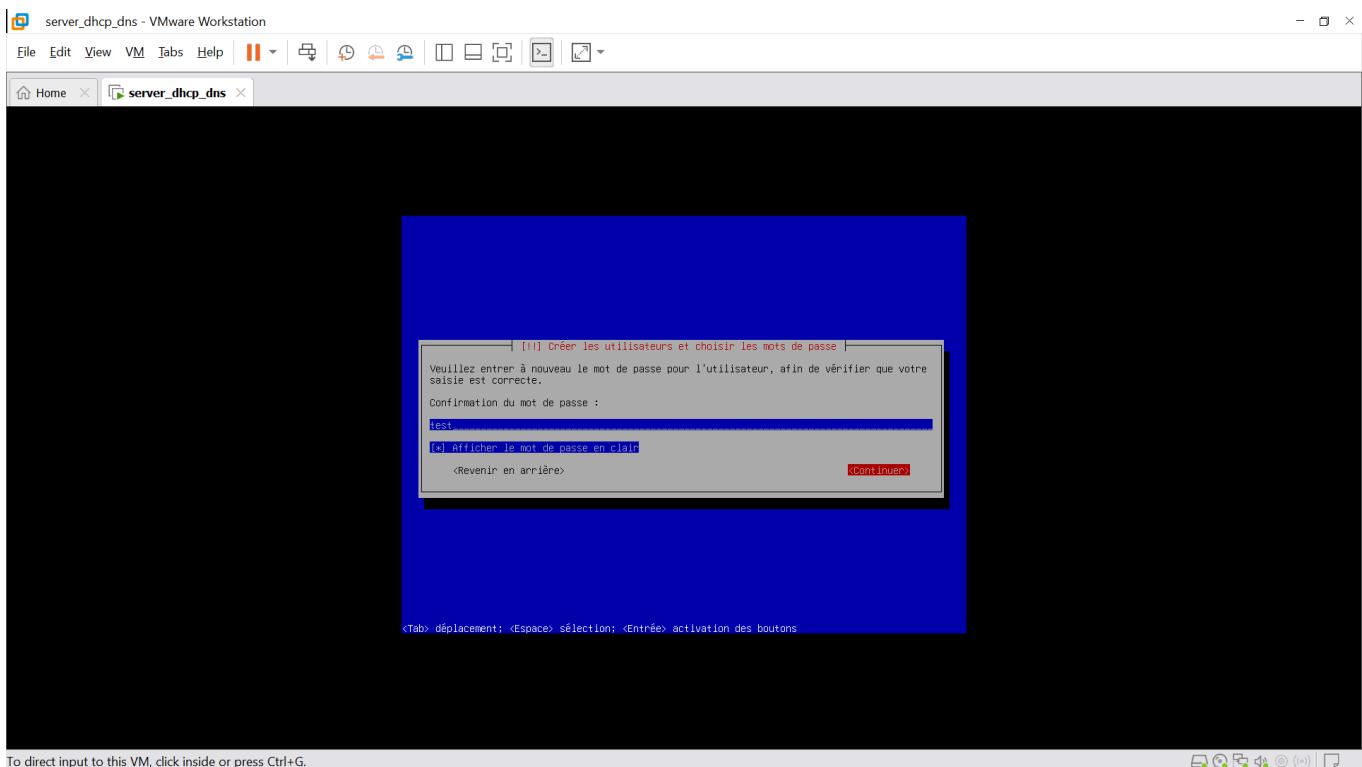
To direct input to this VM, click inside or press Ctrl+G.



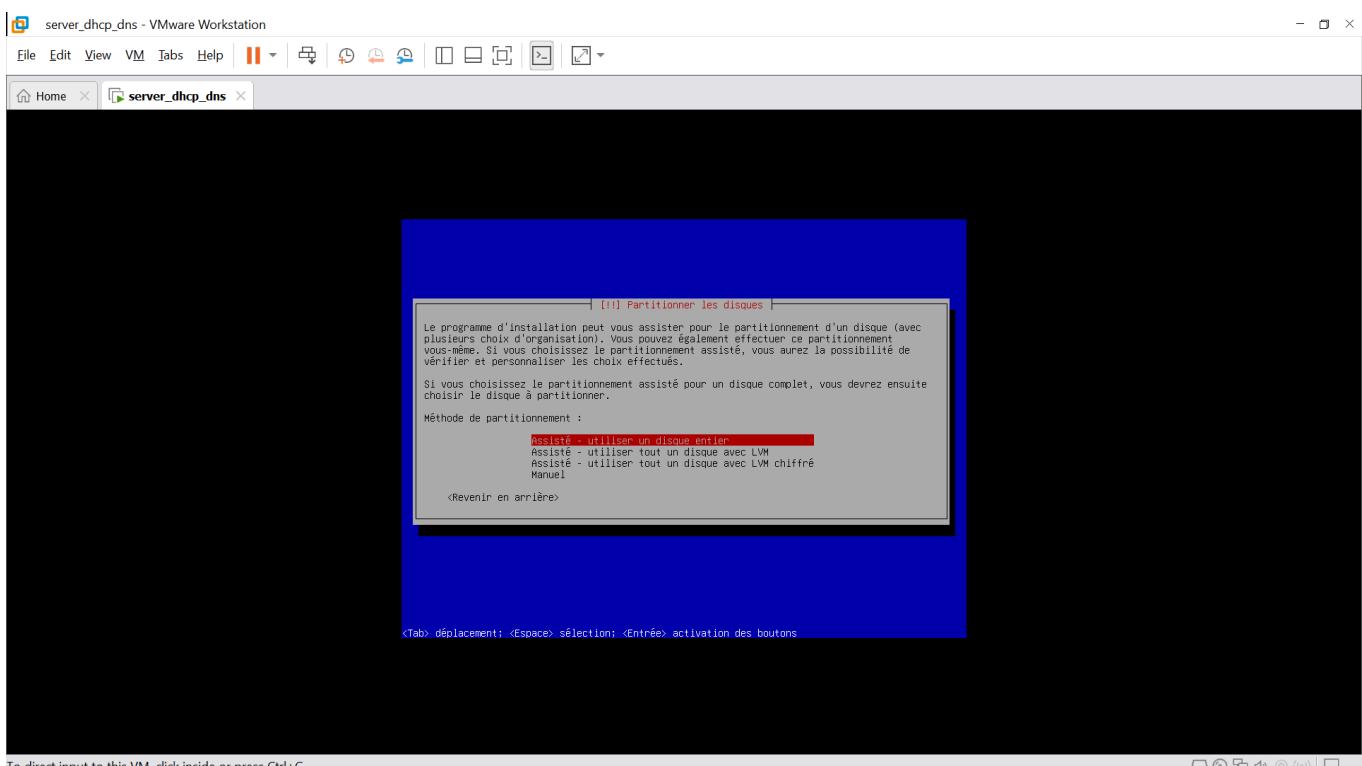
To direct input to this VM, click inside or press Ctrl+G.



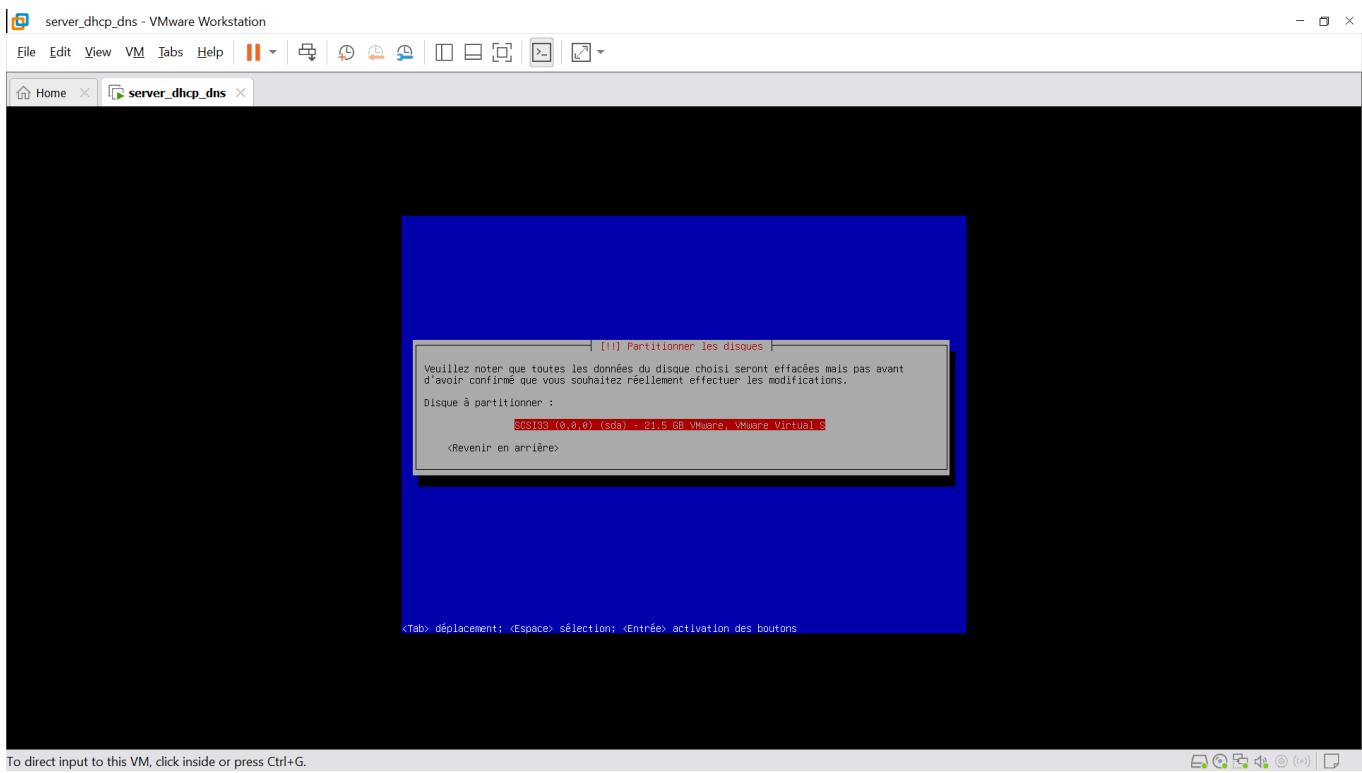
To direct input to this VM, click inside or press Ctrl+G.



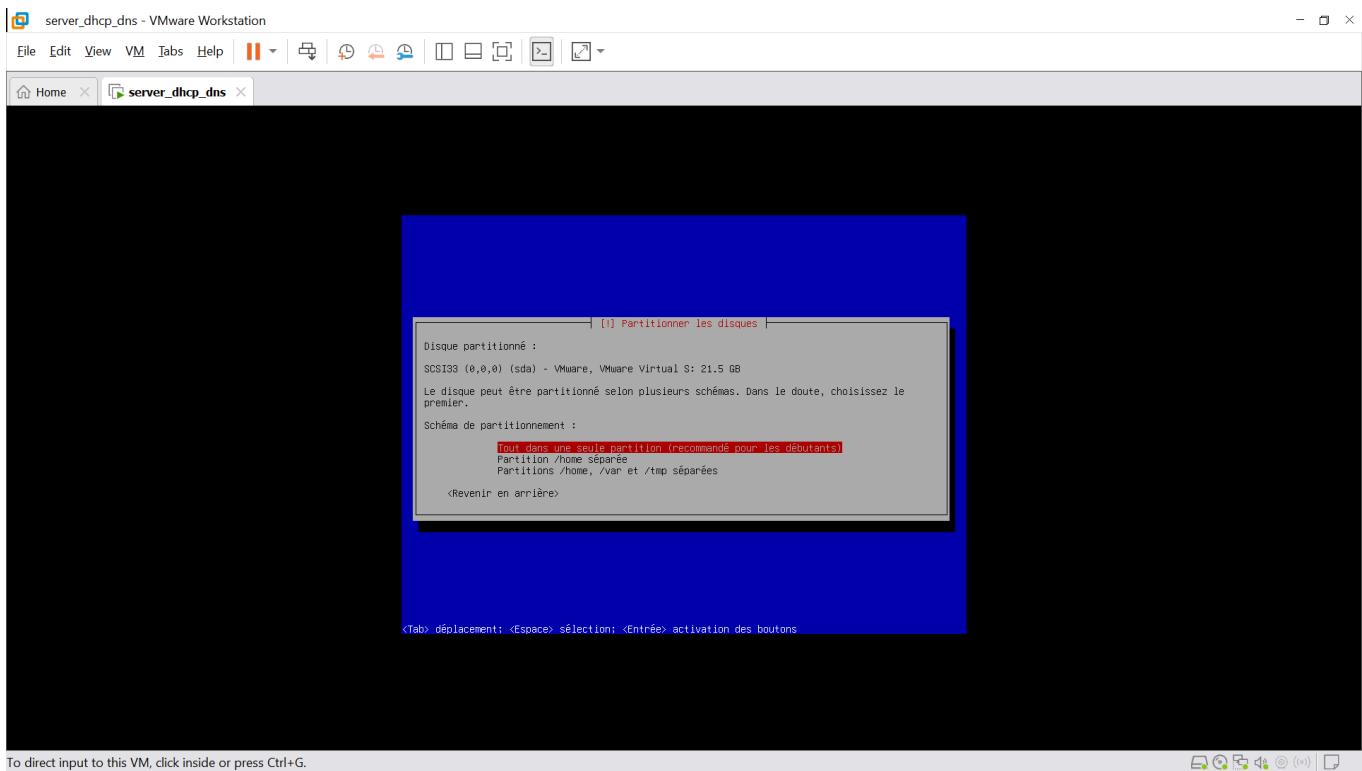
To direct input to this VM, click inside or press Ctrl+G.



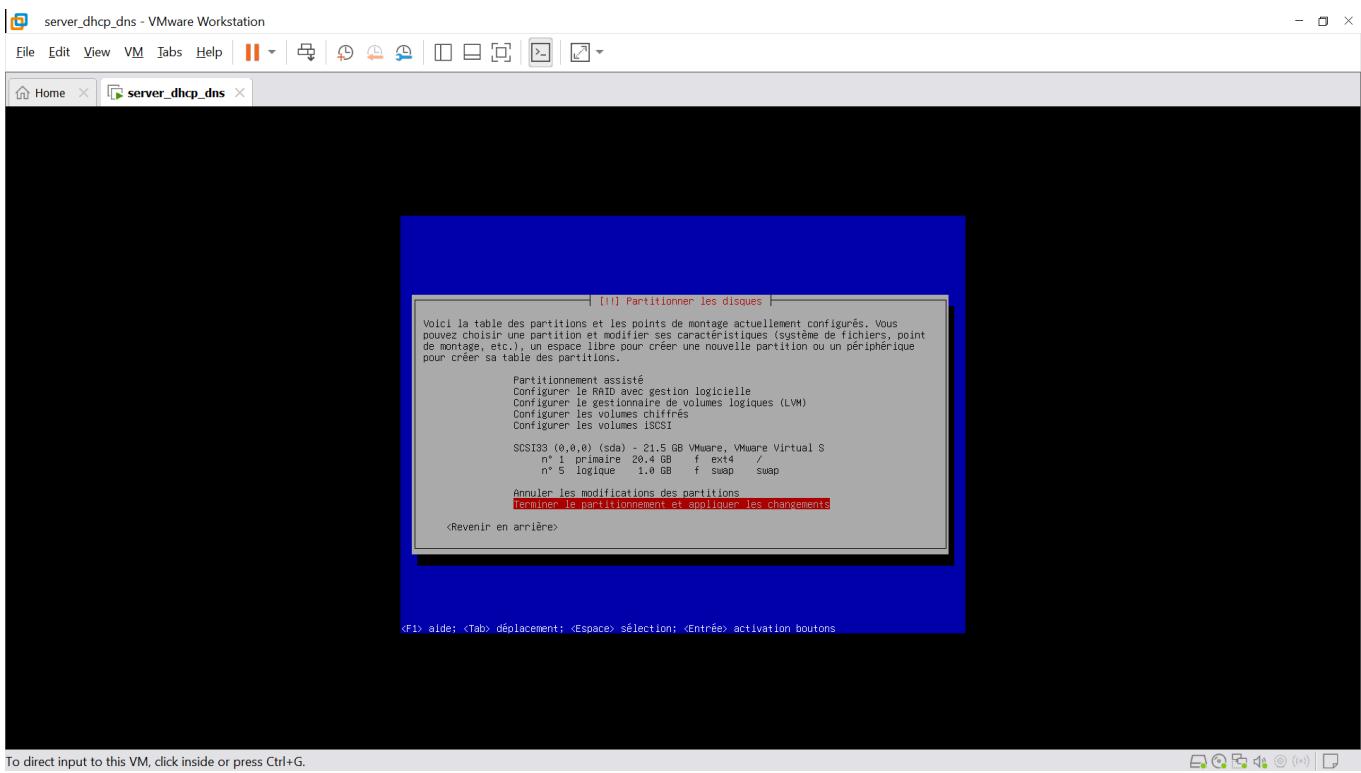
To direct input to this VM, click inside or press Ctrl+G.



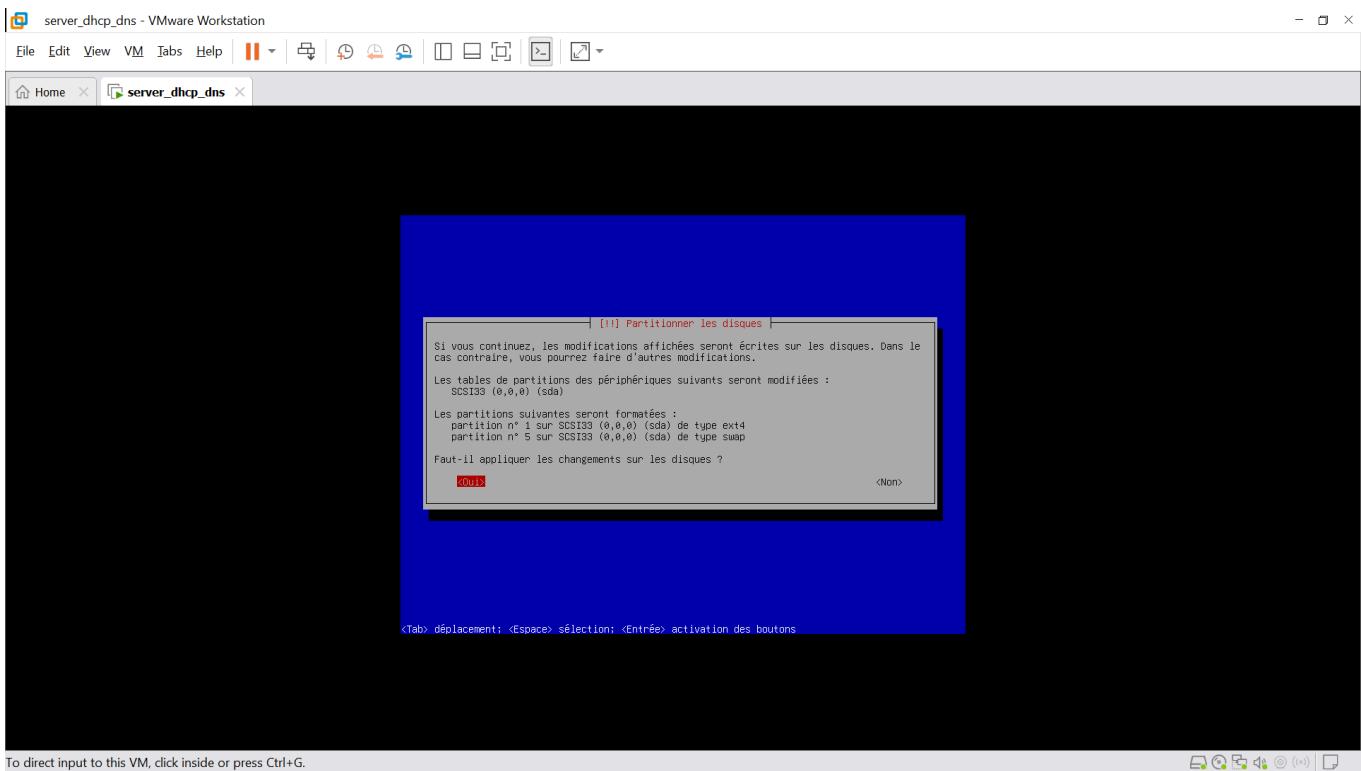
To direct input to this VM, click inside or press Ctrl+G.



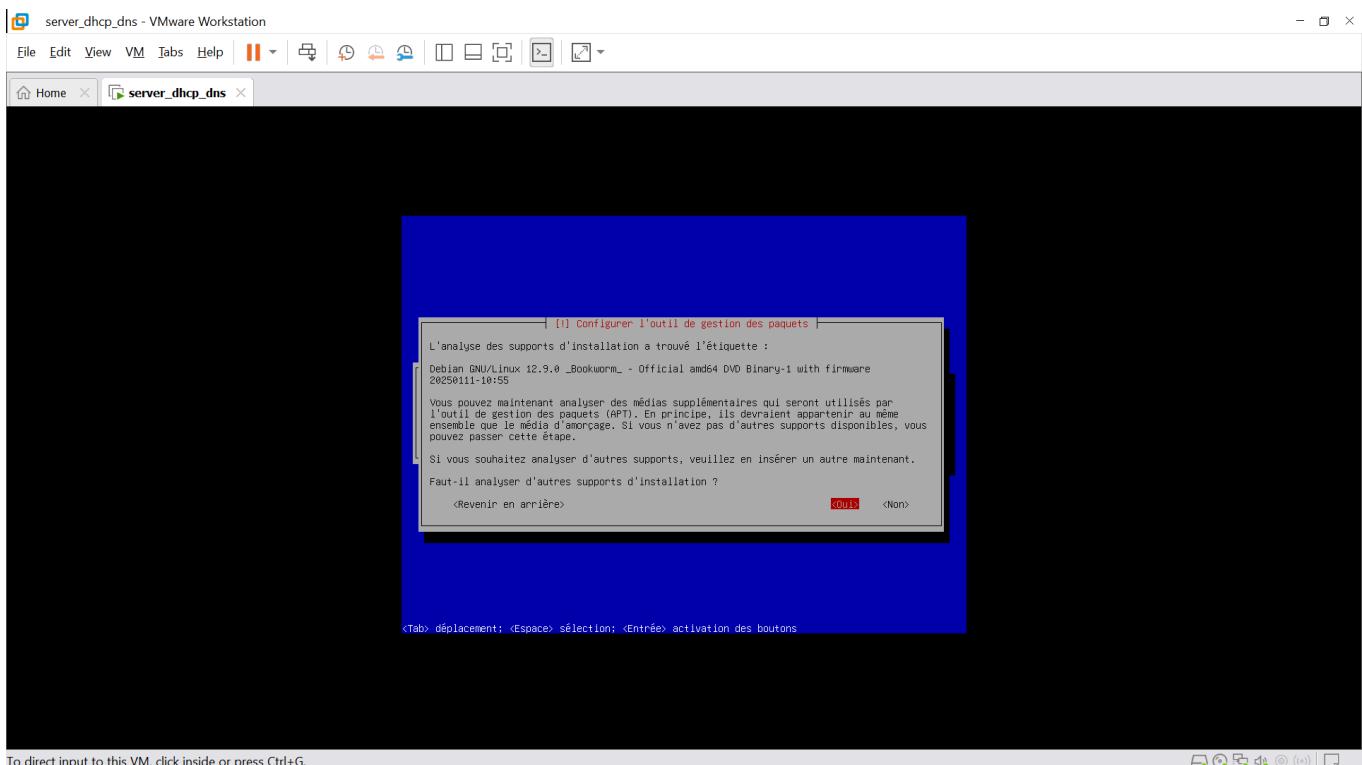
To direct input to this VM, click inside or press Ctrl+G.



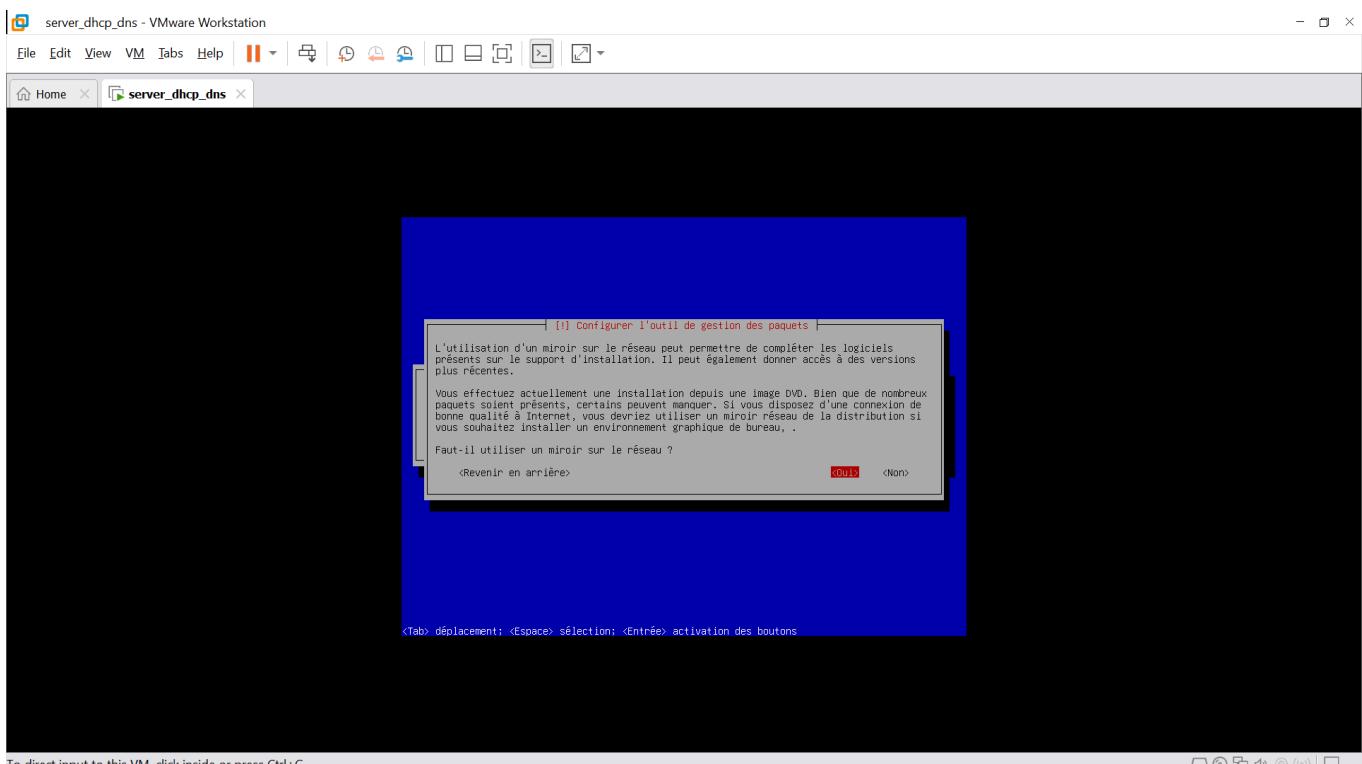
To direct input to this VM, click inside or press Ctrl+G.



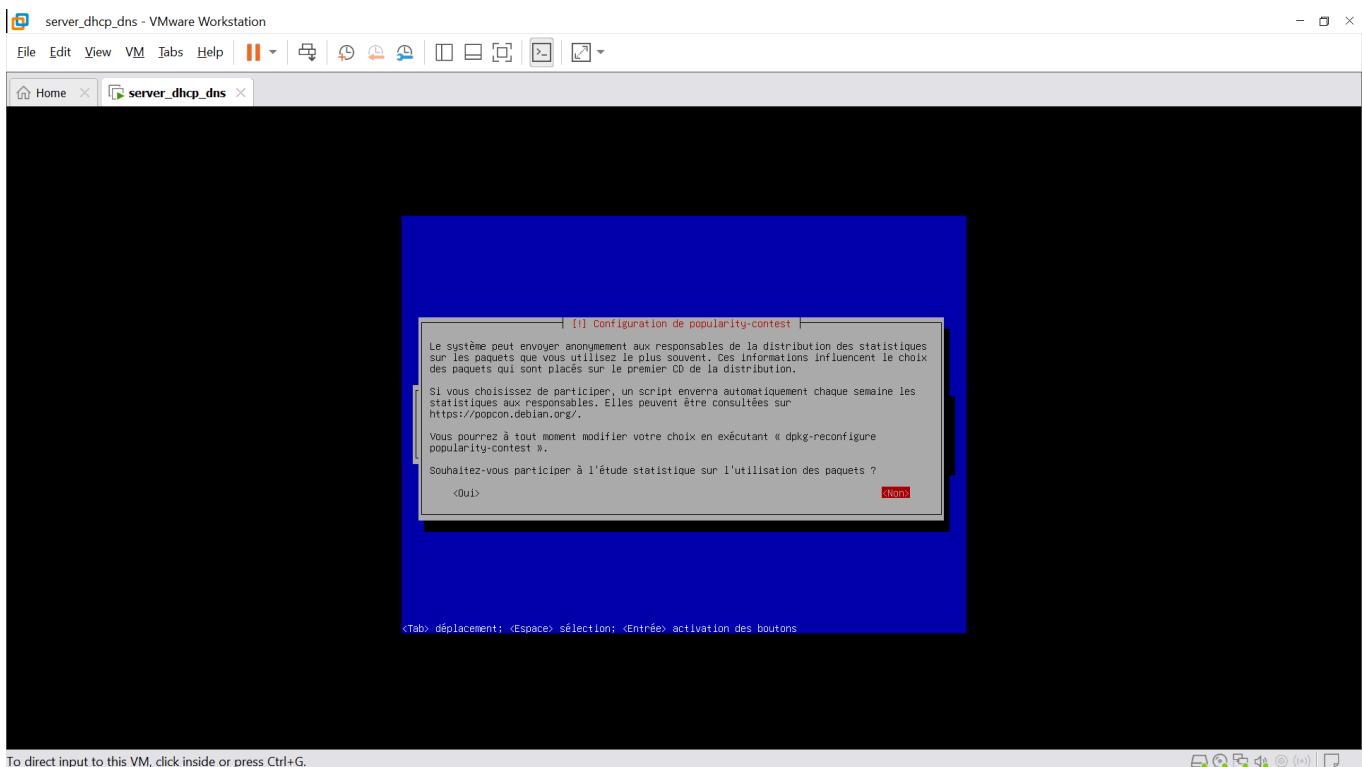
To direct input to this VM, click inside or press Ctrl+G.



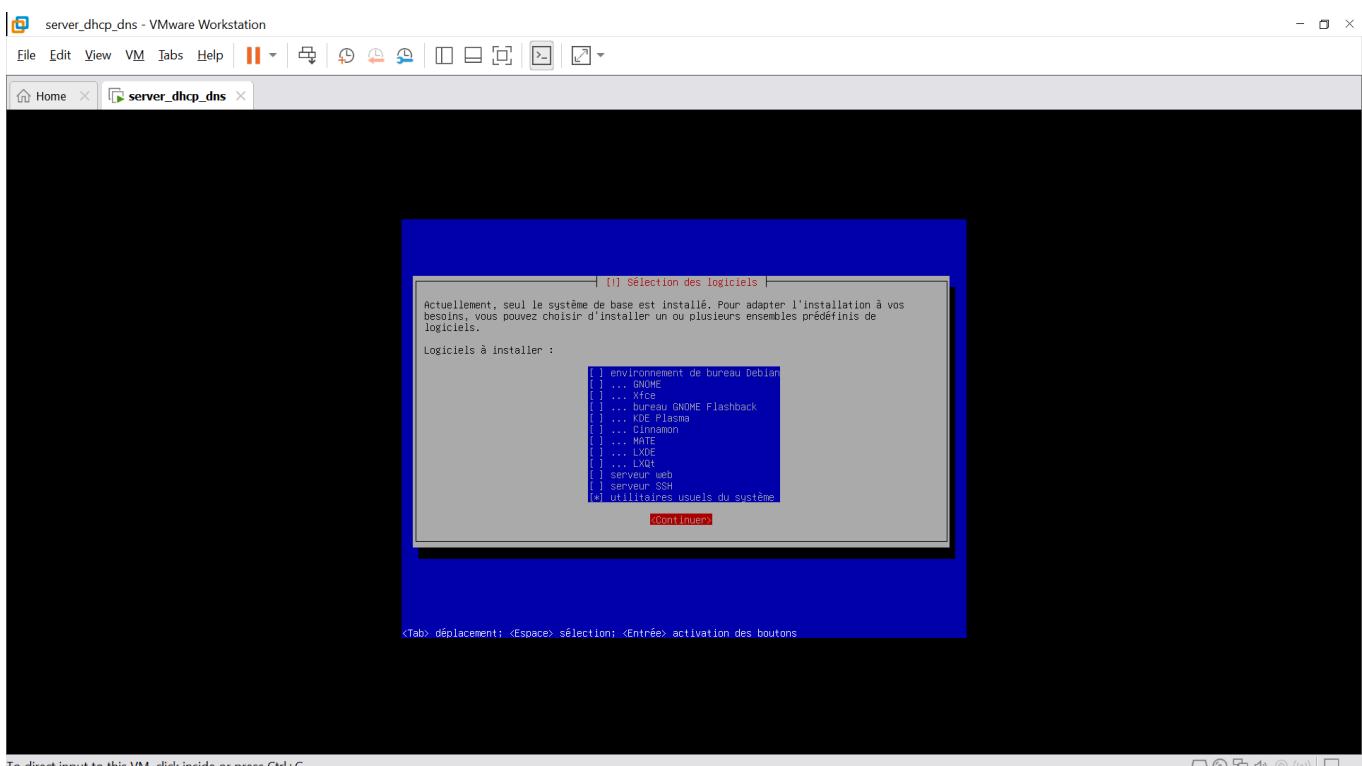
To direct input to this VM, click inside or press Ctrl+G.



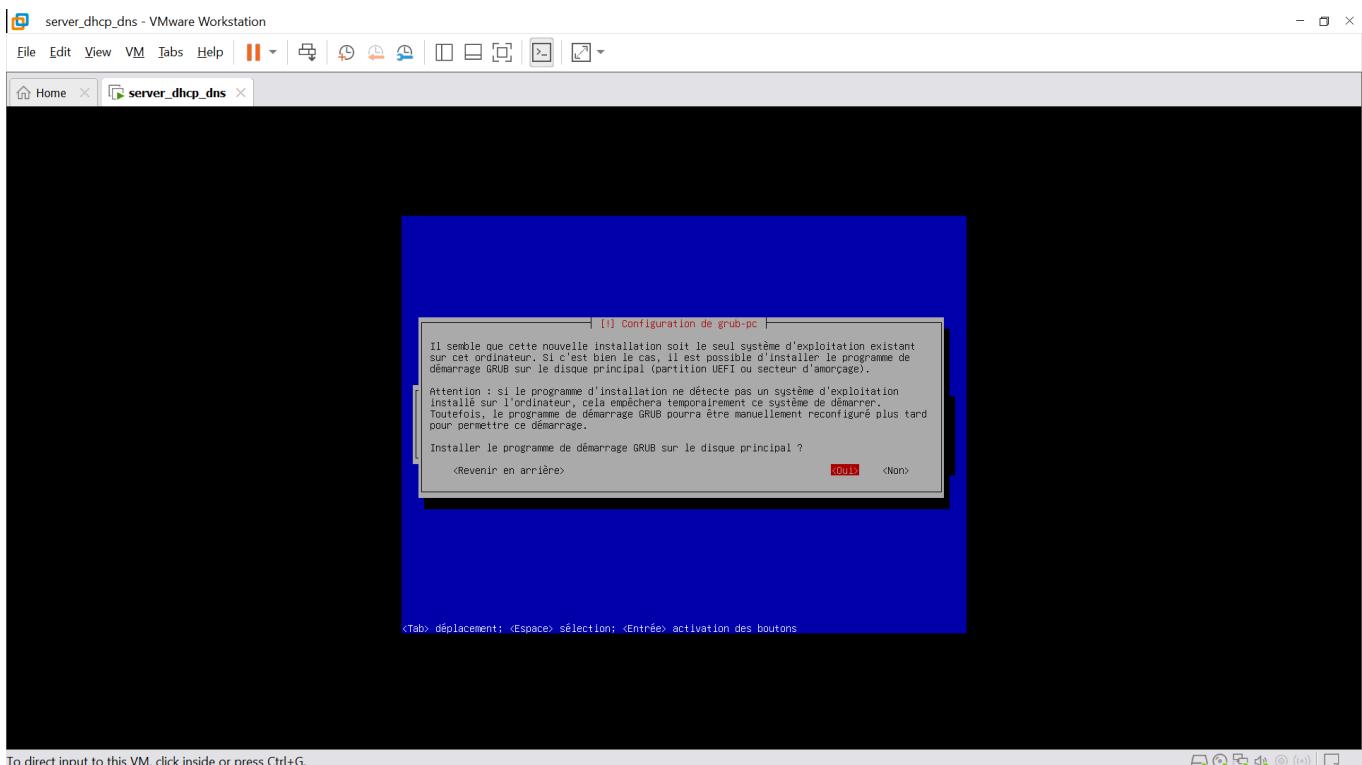
To direct input to this VM, click inside or press Ctrl+G.



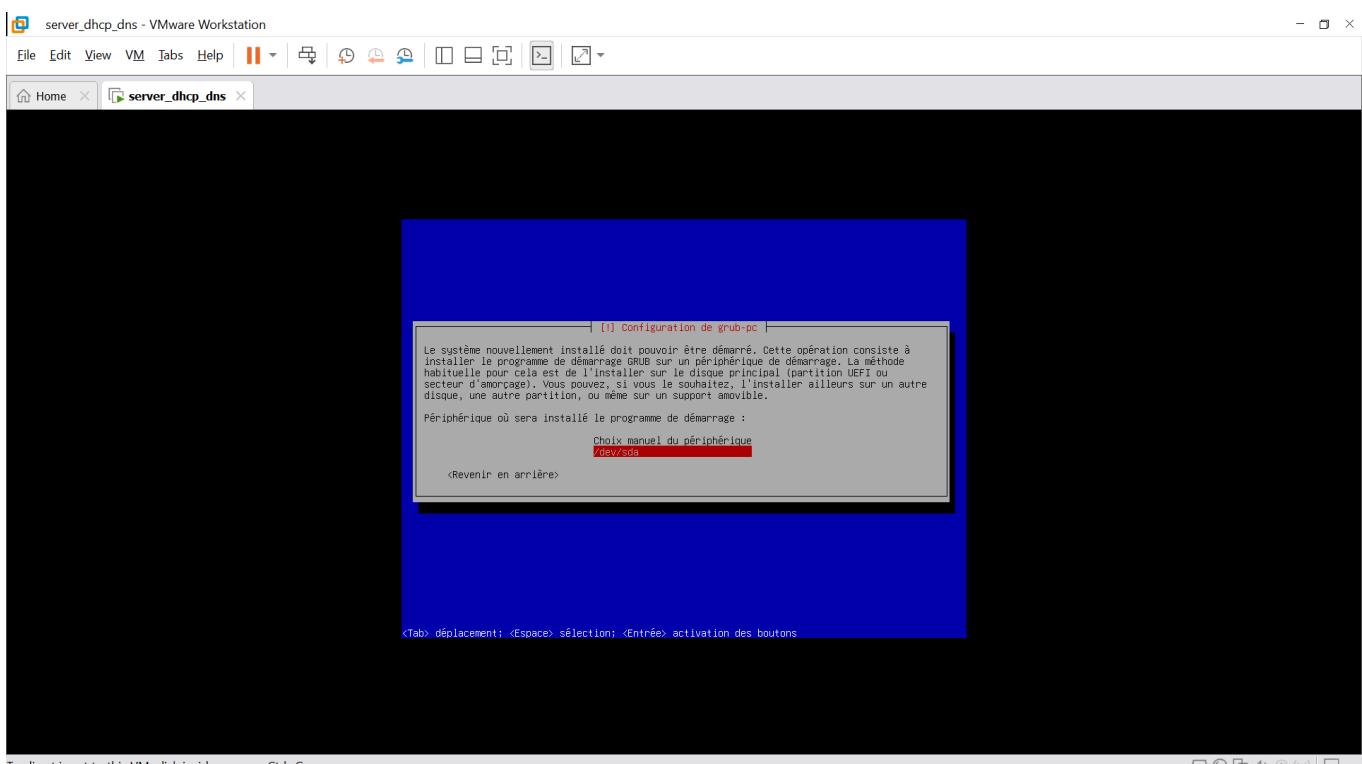
To direct input to this VM, click inside or press Ctrl+G.



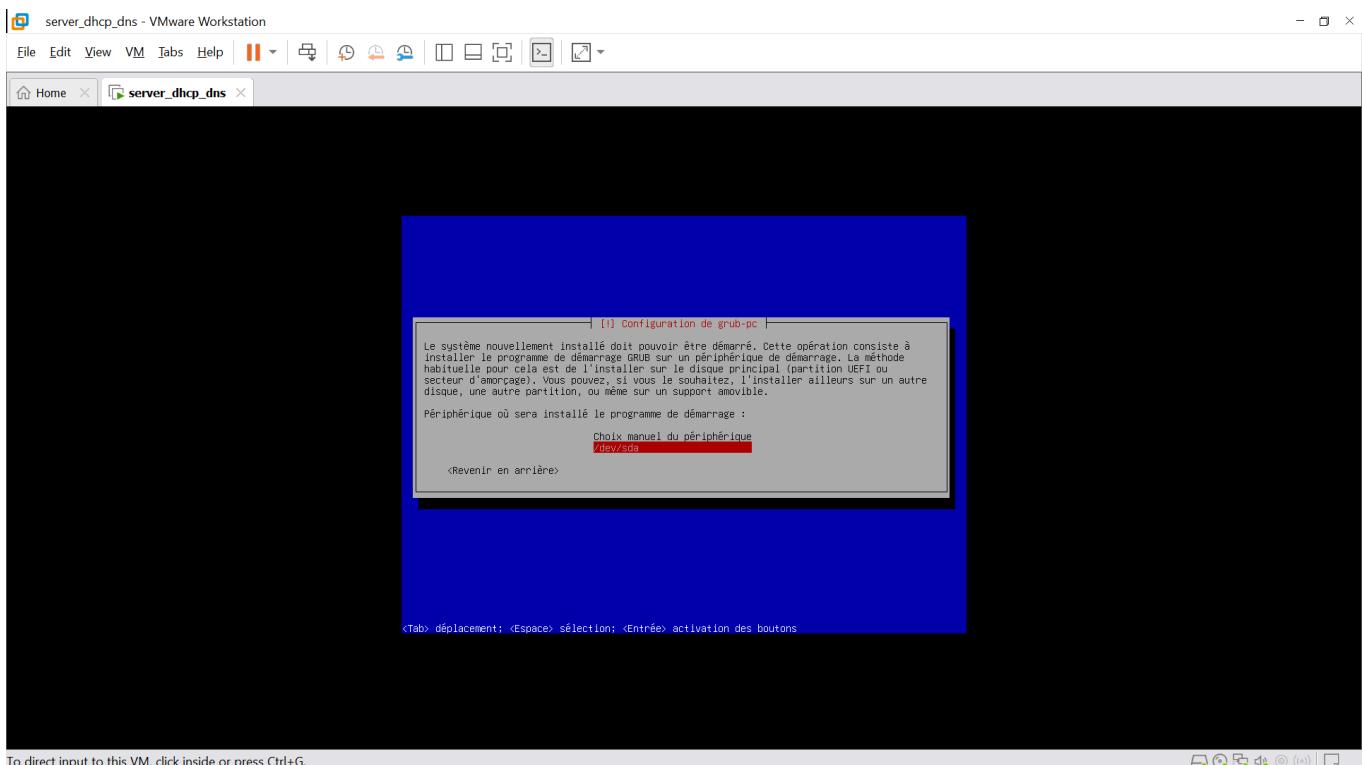
To direct input to this VM, click inside or press Ctrl+G.



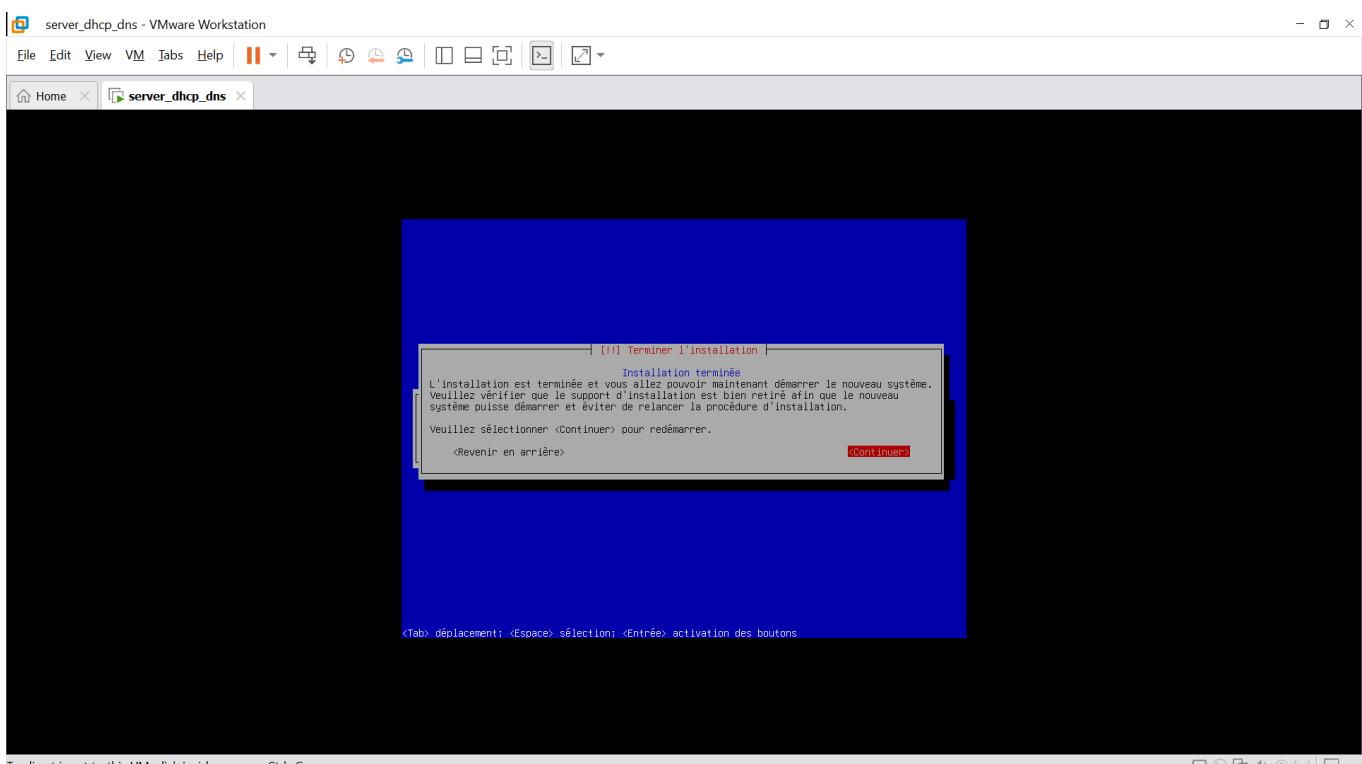
To direct input to this VM, click inside or press Ctrl+G.



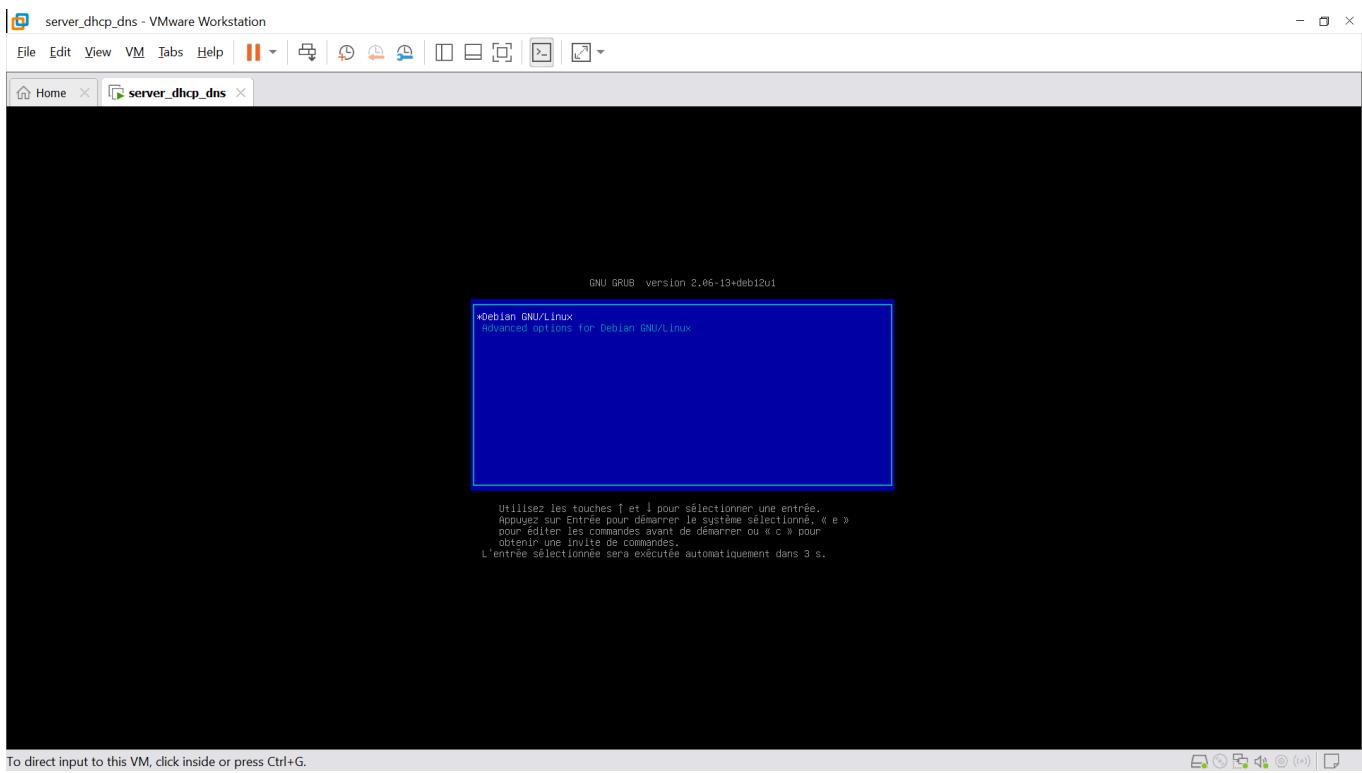
To direct input to this VM, click inside or press Ctrl+G.



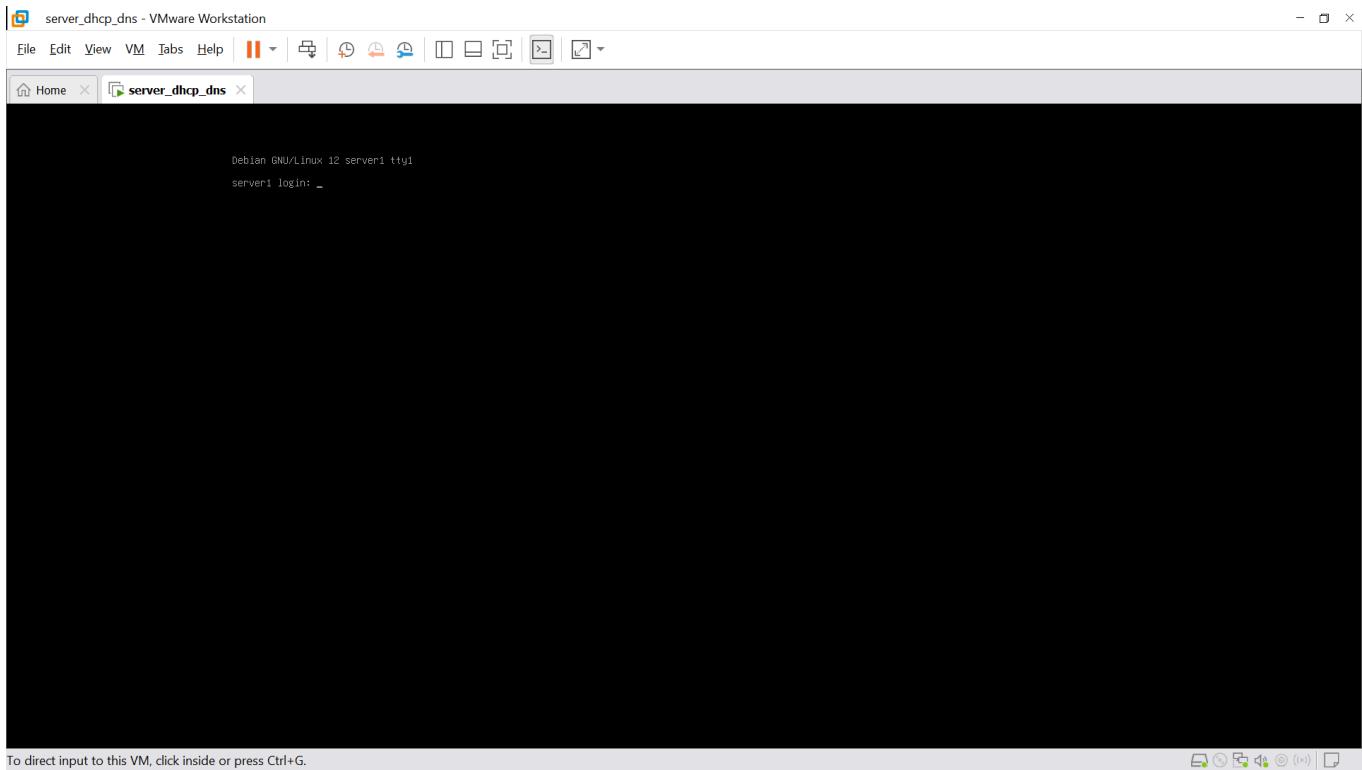
To direct input to this VM, click inside or press Ctrl+G.

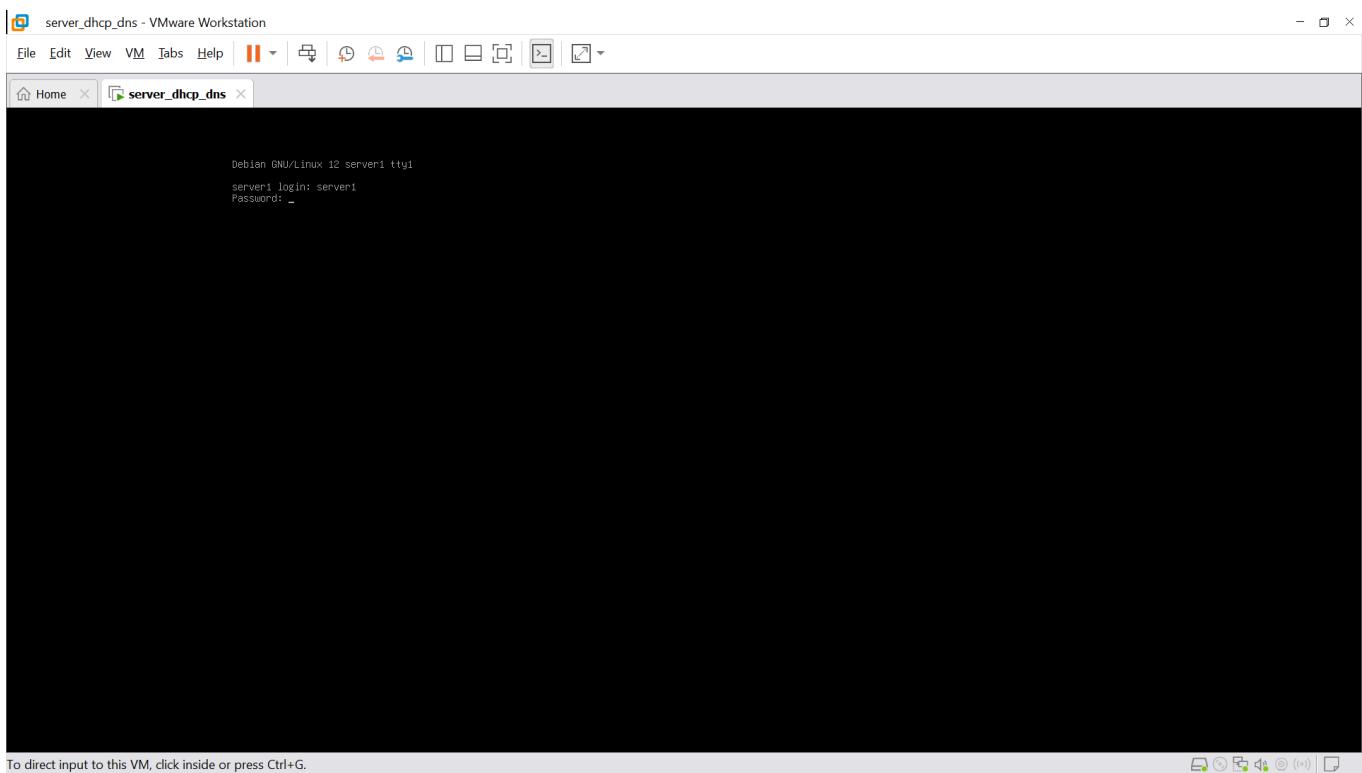
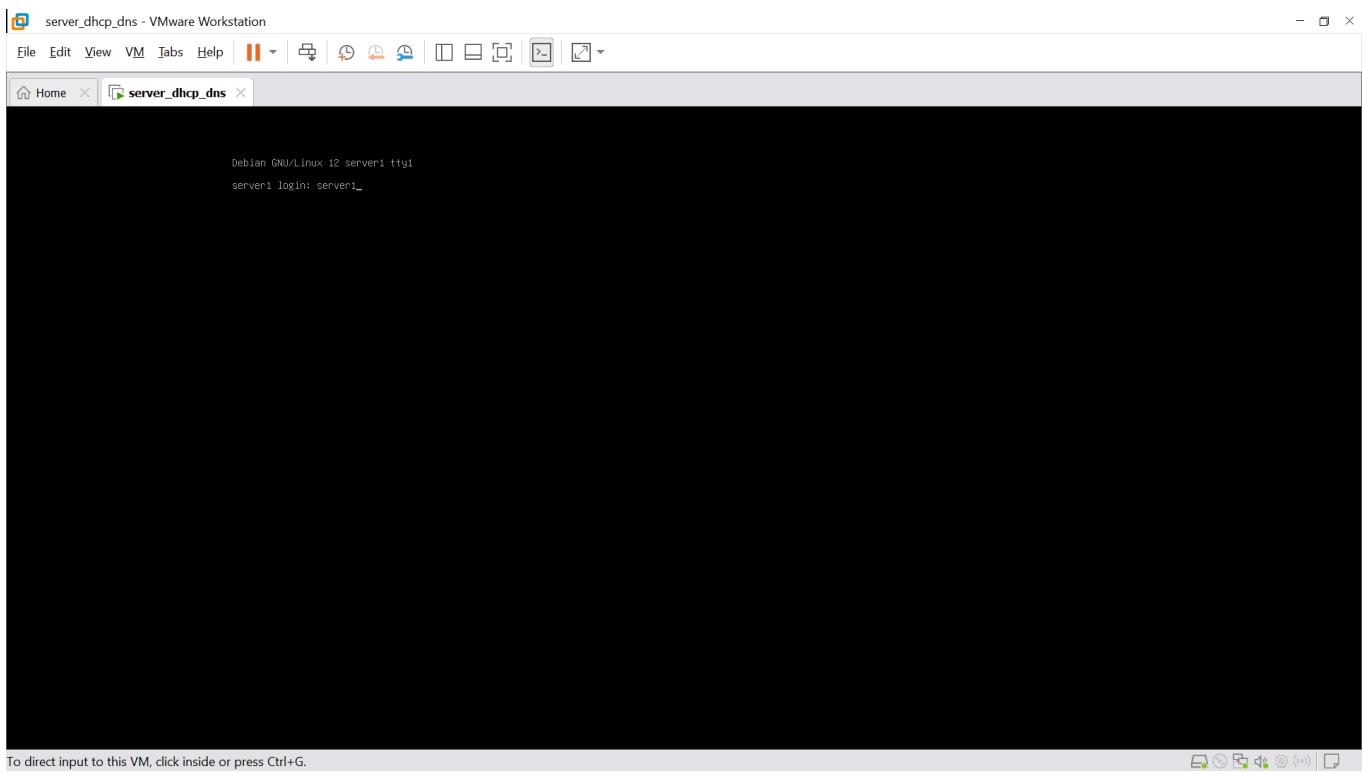


To direct input to this VM, click inside or press Ctrl+G.



Etape 2 : Mises à jour de la VM DHCP_DNS





```
Debian GNU/Linux 12 server1 tty1
server1 login: server1
Password:
Linux server1 6.1.0-29-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.123-1 (2025-01-02) x86_64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

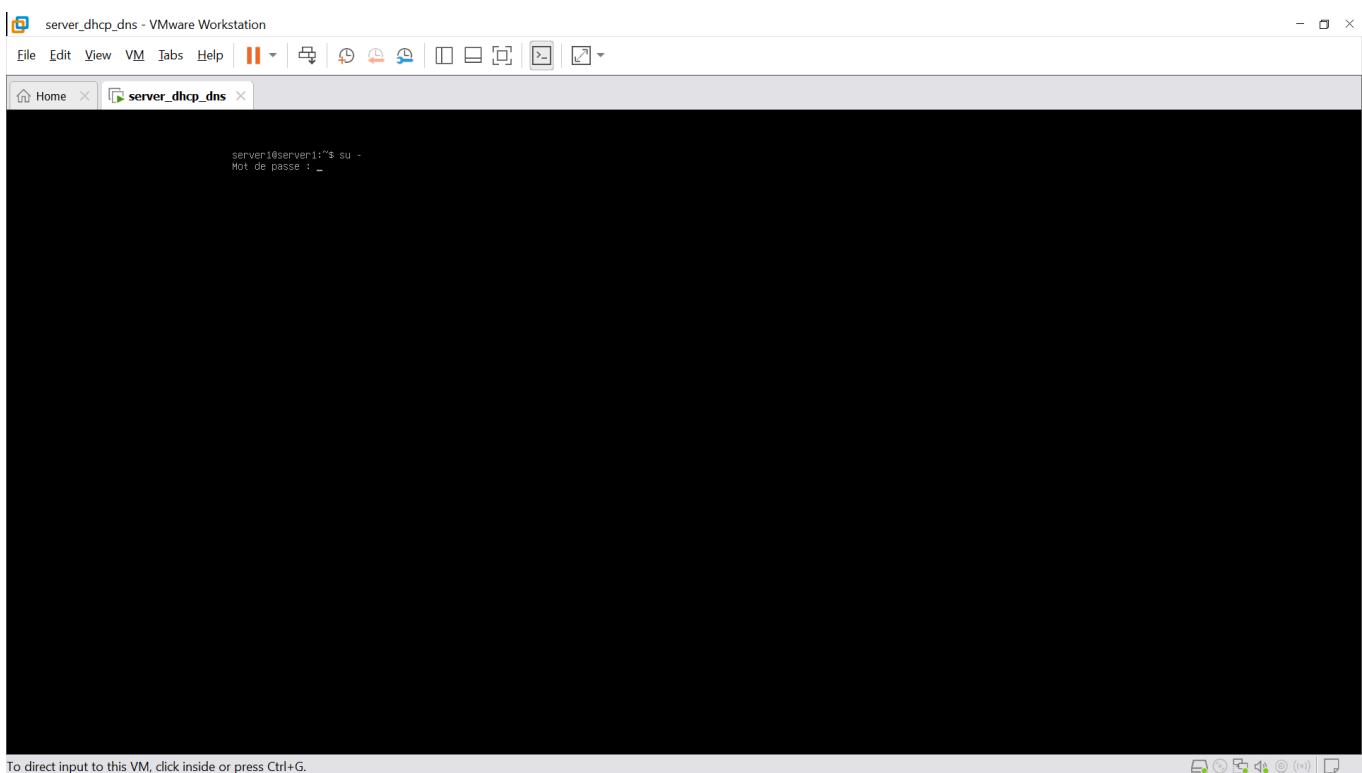
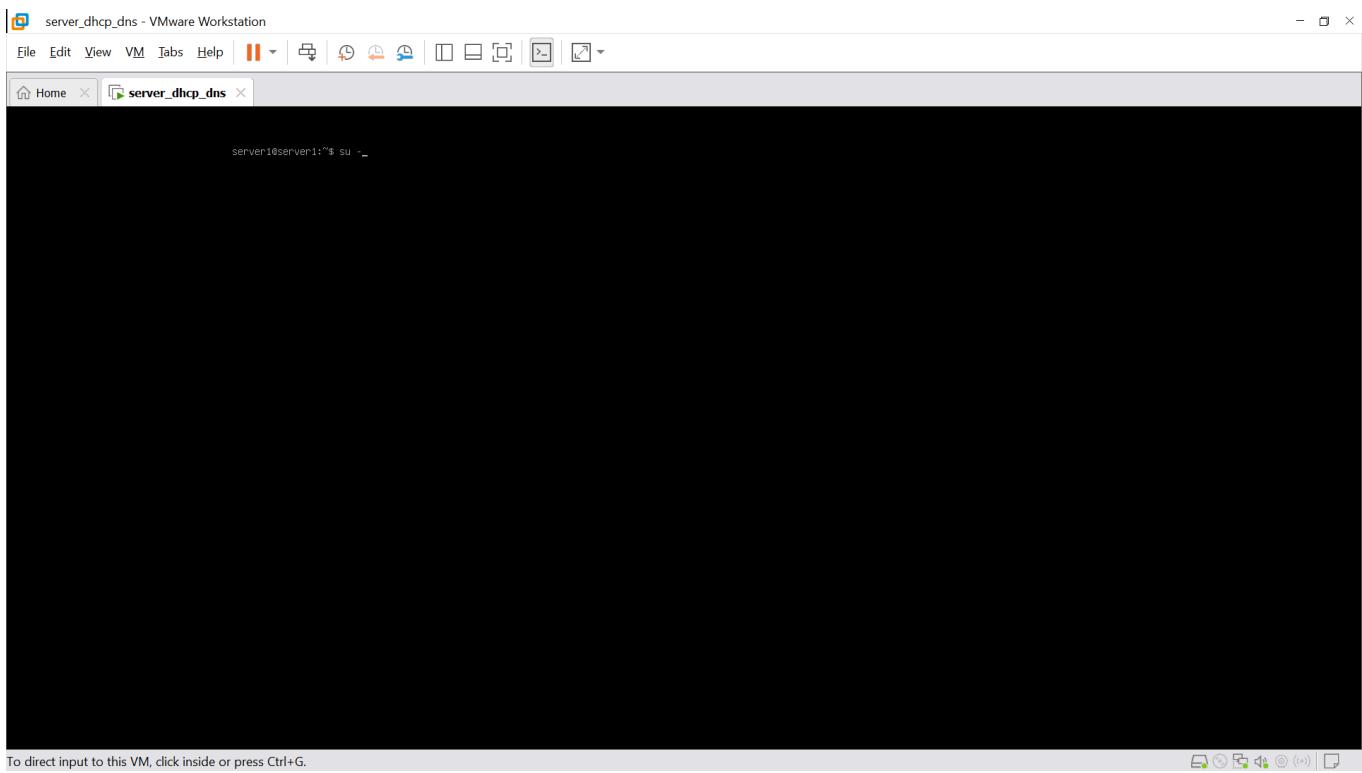
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Jan 31 22:23:03 CET 2025 on tty1
server1@server1:~$ _
```

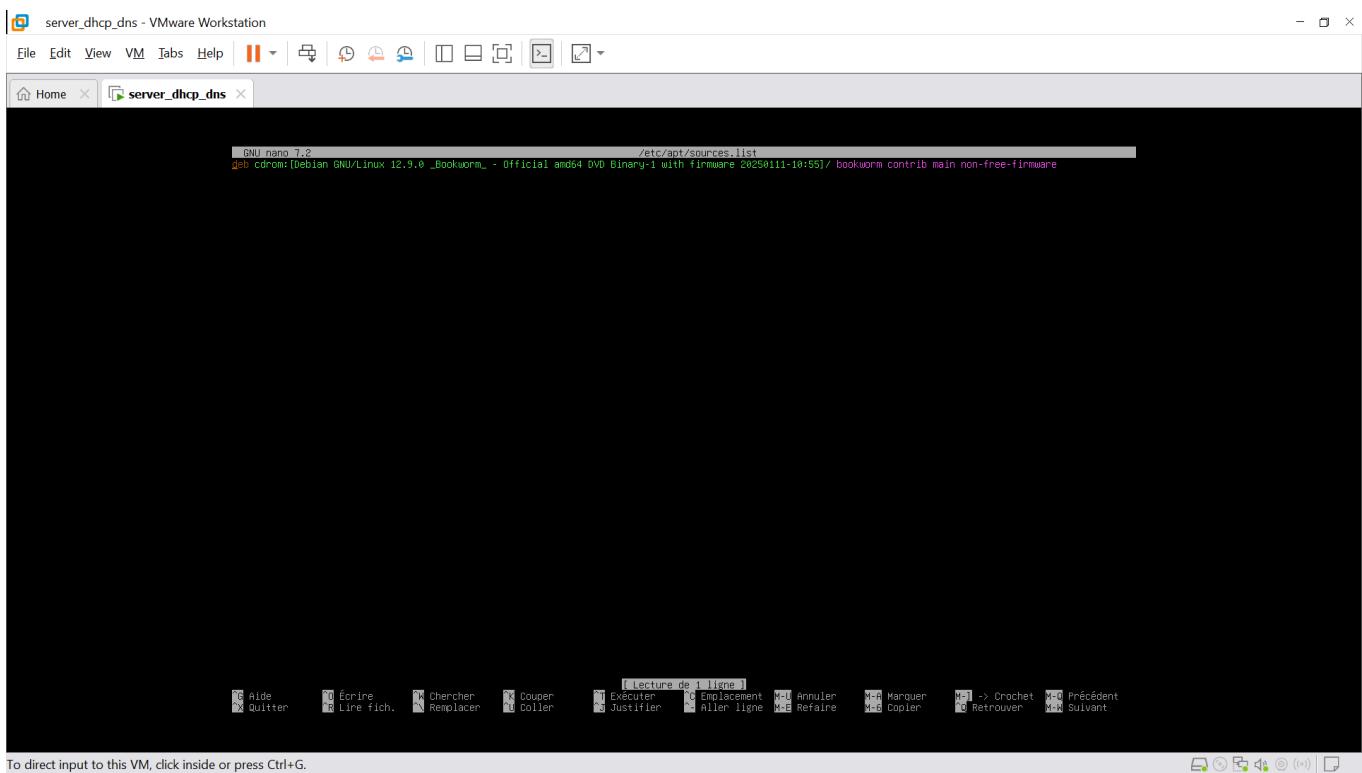
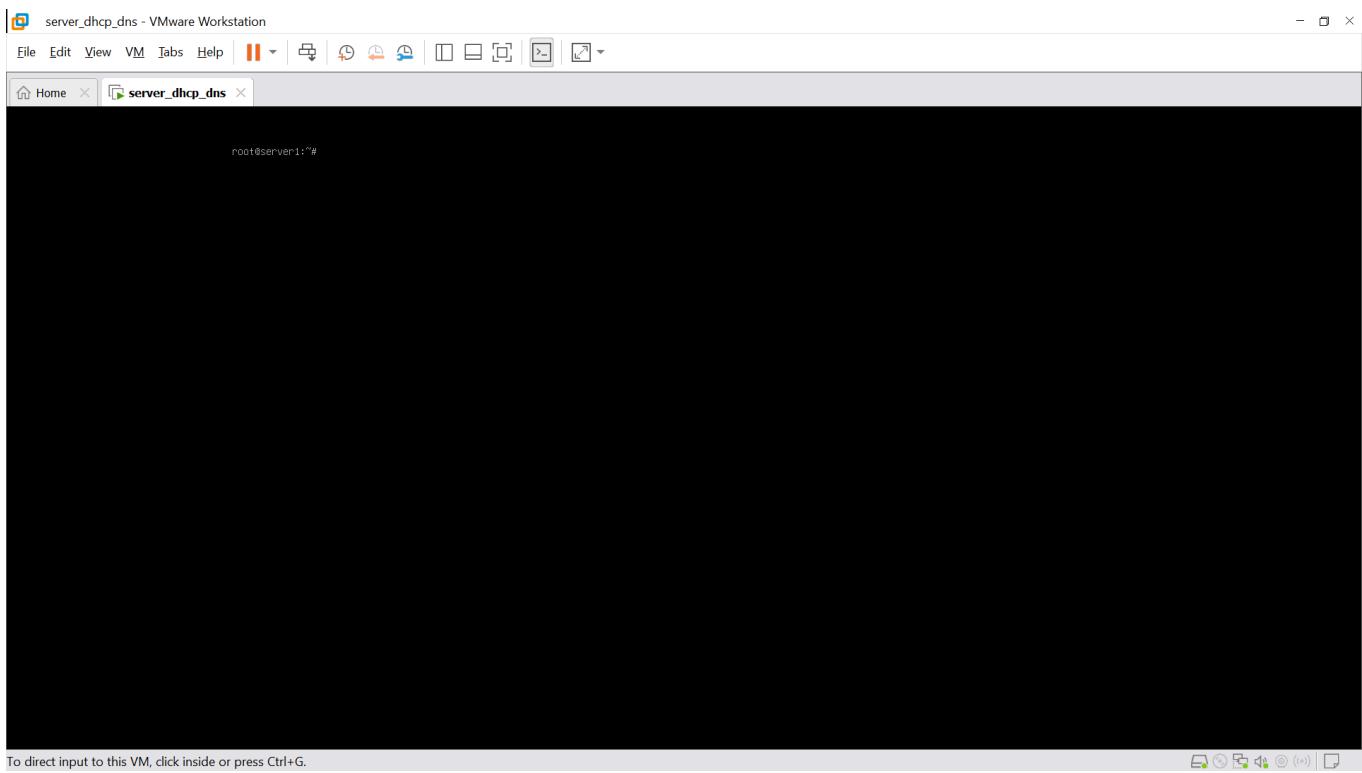
To direct input to this VM, click inside or press Ctrl+G.

```
Debian GNU/Linux 12 server1 tty1
server1 login: server1
Password:
Linux server1 6.1.0-29-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.123-1 (2025-01-02) x86_64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Fri Jan 31 22:23:03 CET 2025 on tty1
server1@server1:~$ clear
```

To direct input to this VM, click inside or press Ctrl+G.





server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns

GNU nano 7.2 /etc/apt/sources.list *

#deb cdrom:[Debian GNU/Linux 12.9.0 _Bookworm_ - Official amd64 DVD Binary-1 with firmware 20250111-10:55] / bookworm contrib main non-free-firmware

[Lecture de l'éditeur]

Aide Écrire Chercher Couper Coller Exécuter Emplacement Annuler Marquer → Crochet ← Précédent Copier Retrouver Suivant

Quitter Lire fich. Remplacer

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns

GNU nano 7.2 /etc/apt/sources.list *

#deb cdrom:[Debian GNU/Linux 12.9.0 _Bookworm_ - Official amd64 DVD Binary-1 with firmware 20250111-10:55] / bookworm contrib main non-free-firmware

deb http://deb.debian.org/debian/ bookworm main non-free-firmware

deb-src http://security.debian.org/debian/ bookworm main non-free-firmware

deb http://security.debian.org/debian-security/ bookworm-security main non-free-firmware

deb-src http://security.debian.org/debian-security/ bookworm-security main non-free-firmware

deb http://deb.debian.org/debian/ bookworm-updates main non-free-firmware

deb-src http://deb.debian.org/debian/ bookworm-updates main non-free-firmware

[Annuler]

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Quitter Lire fich. Remplacer

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns

```
GNU nano 7.2                               /etc/apt/sources.list
#deb cdrom:[Debian GNU/Linux 12.9.0 _Bookworm - Official amd64 DVD Binary-1 with firmware 20250111-10:55] / bookworm contrib main non-free-firmware
deb http://deb.debian.org/debian/ bookworm main non-free-firmware
deb-src http://security.debian.org/debian/ bookworm main non-free-firmware
deb http://security.debian.org/debian/security bookworm-security main non-free-firmware
deb-src http://security.debian.org/debian/security bookworm-security main non-free-firmware
deb http://deb.debian.org/debian/ bookworm-updates main non-free-firmware
deb-src http://deb.debian.org/debian/ bookworm-updates main non-free-firmware
```

Nom du fichier à écrire: /etc/apt/sources.list

Aide M-D Format DOS M-A Ajout (à la fin) M-B Ajout (au début) M-C Copie de sécu. M-T Parcourir

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns

```
GNU nano 7.2                               /etc/apt/sources.list
#deb cdrom:[Debian GNU/Linux 12.9.0 _Bookworm - Official amd64 DVD Binary-1 with firmware 20250111-10:55] / bookworm contrib main non-free-firmware
deb http://deb.debian.org/debian/ bookworm main non-free-firmware
deb-src http://security.debian.org/debian/ bookworm main non-free-firmware
deb http://security.debian.org/debian/security bookworm-security main non-free-firmware
deb-src http://security.debian.org/debian/security bookworm-security main non-free-firmware
deb http://deb.debian.org/debian/ bookworm-updates main non-free-firmware
deb-src http://deb.debian.org/debian/ bookworm-updates main non-free-firmware
```

[11 lignes écrites]

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To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | | | | | | | |

Home server_dhcp_dns machine_ssh_sftp

```
root@server1:~# apt update
Hit http://deb.debian.org/debian bookworm InRelease
Ign http://deb.debian.org/debian-security/bookworm-updates InRelease [55,4 kB]
Ign http://security.debian.org/debian-security bookworm-security InRelease
Ign http://security.debian.org/debian-security bookworm-security InRelease
Err http://security.debian.org/debian-security bookworm-security InRelease
  No package lists found at 'http://security.debian.org/debian-security'.
55,4 kB réceptionnés en 8s (6 813 o/s)
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Toutes les peuplages sont à jour...
W: Impossible de récupérer http://security.debian.org/debian-security/dists/bookworm-security/InRelease. Ne parvient pas à résoudre « security.debian.org »
W: Le téléchargement de quelques fichiers d'index a échoué, ils ont été ignorés, ou les anciens ont été utilisés à la place.
root@server1:~#
```

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | | | | | | | |

Home server_dhcp_dns machine_ssh_sftp

```
root@server1:~# apt upgrade
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Calcul des différences à jour... Fait
0 mis à jour, 0 à nouvellement installés, 0 à enlever et 0 non mis à jour.
root@server1:~#
```

To direct input to this VM, click inside or press Ctrl+G.

```
server_dhcp_dns - VMware Workstation
File Edit View VM Tabs Help | <| > | <| > | <| > | <| > | <| >
Home server_dhcp_dns machine_ssh_sftp

root@server1:~# apt install sudo_
To direct input to this VM, click inside or press Ctrl+G.
```

```
server_dhcp_dns - VMware Workstation
File Edit View VM Tabs Help | <| > | <| > | <| > | <| > | <| >
Home server_dhcp_dns machine_ssh_sftp

root@server1:~# apt install sudo
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Les NOUVEAUX paquets suivants seront installés :
  sudo
0 mis à jour, 1 nouvellement installés, 0 à enlever et 0 non mis à jour.
Il est nécessaire de prendre 1 089 ko dans les archives,
après cette opération, 6 199 ko d'espace disque supplémentaires seront utilisés.
Appuyez sur [ENTREE] pour continuer, ou [CTRL-C] pour annuler.
root@server1:~# sudo apt-get update
[...]
root@server1:~# apt install sudo
Lecture des listes de paquets... 34449 fichiers et répertoires déjà installés.
Préparation du dépaquetage de .../sudo_1.9.1-0ubuntu1_amd64.deb ...
Dépaquetage de sudo_1.9.1-0ubuntu1_amd64.deb ...
Paramétrage de sudo (1.9.1-0ubuntu1) ...
Traitement des actions différentes (« triggers ») pour man-db (2.11.2-2) ...
Traitement des actions différentes (« triggers ») pour libc-bin (2.36-9+deb12u9) ...
root@server1:~#
```

```
root@server1:~# apt install net-tools
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Les NOUVEAUX paquets suivants seront installés :
  net-tools
0 mis à jour, 1 nouvellement installé, 0 à enlever et 0 non mis à jour.
Il est nécessaire de prendre 243 Ko dans les archives.
Après cette opération, 1 061 Ko d'espace disque supplémentaires seront utilisés.
Récception de :1 http://deb.debian.org/delian/bookworm/main amd64 net-tools amd64 2.10-0.1 [243 Ko]
243 Ko réceptionnés en 2s (146 Ko/s)
5 paquets à installer. 0 paquets préalablement désélectionnés.
(Lecture de la base de données... 34590 fichiers et répertoires déjà installés.)
Préparation du dépaquetage de .../net-tools_2.10-0.1_amd64.deb ...
Dépaquetage de net-tools (2.10-0.1) ...
Paramétrage de net-tools (2.10-0.1) ...
Traitement des actions différentes (« triggers ») pour man-db (2.11.2-2) ...
root@server1:~#
```

To direct input to this VM, click inside or press Ctrl+G.

Etape 3 : Installation du mode DHCP

```
root@server1:~# apt install isc-dhcp-server
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Le paquet isc-dhcp-server est déjà la version la plus récente (4.4.3-P1-2).
0 mis à jour, 0 nouvellement installés, 0 à enlever et 0 non mis à jour.
root@server1:~#
```

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

```
root@server1:~# apt install dhcpcd
```

To direct input to this VM, click inside or press Ctrl+G.

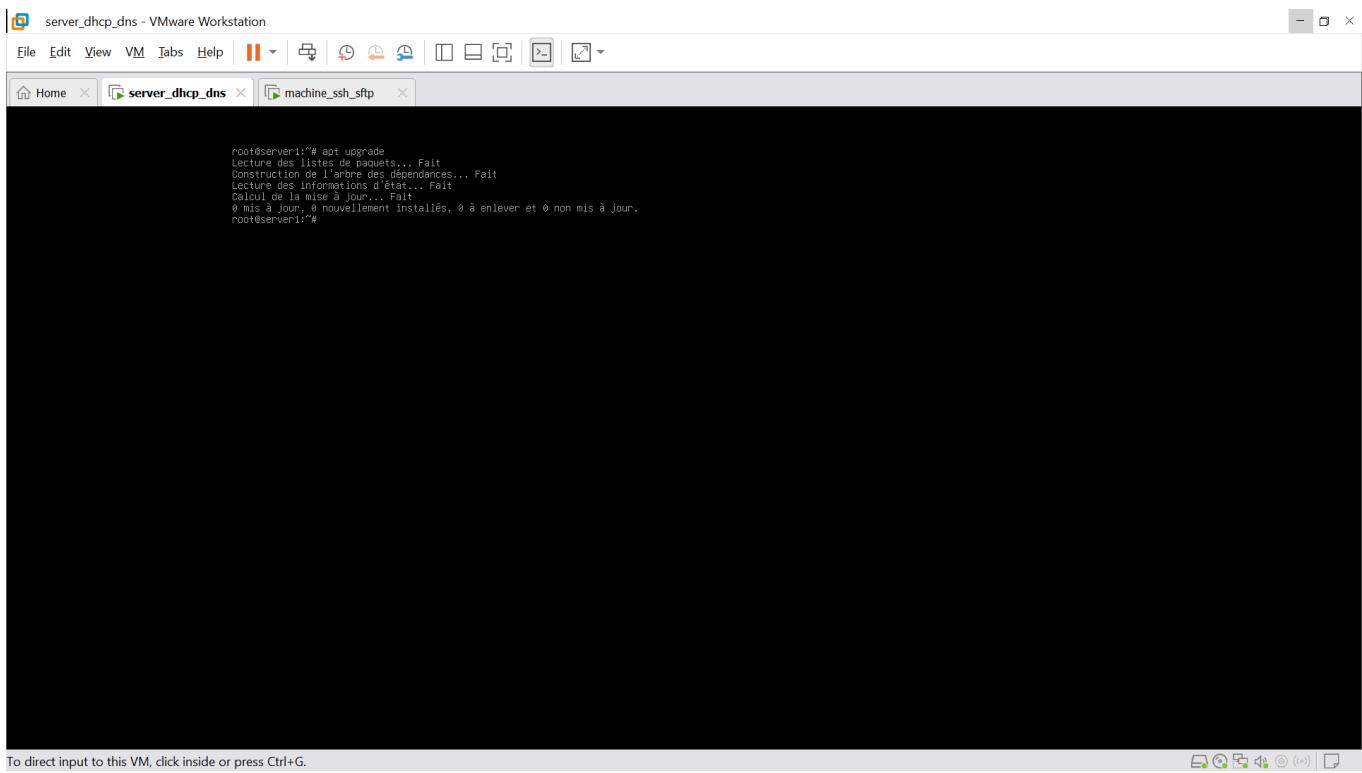
server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

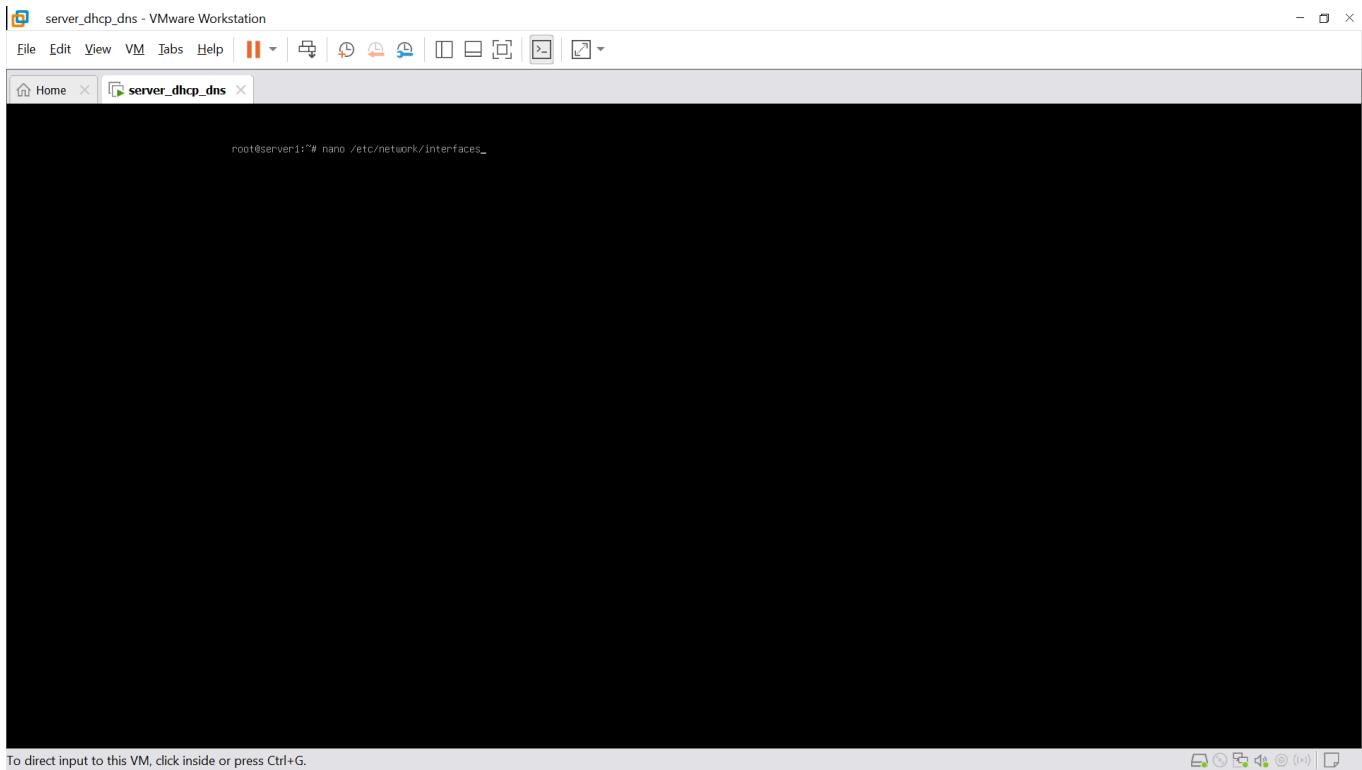
```
root@server1:~# apt install dhcpcd
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Note : Il est recommandé d'ajouter au moins une ligne de « dhcpcd ».
      dhcpcd est déjà la version la plus récente (1:1.35.0-4+b3).
      0 mis à jour, 0 nouvellement installés, 0 à enlever et 0 non mis à jour.
root@server1:~# -
```

To direct input to this VM, click inside or press Ctrl+G.



```
root@server1:~# apt upgrade
Lecture des listes d'entreprises... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Calcul de la mise à jour... Fait
 0 mis à jour, 0 nouvellement installés, 0 à enlever et 0 non mis à jour.
root@server1:~#
```

Etape 4 : Vérification du fonctionnement de l'IP statique



```
root@server1:~# nano /etc/network/interfaces
```

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns

```
GNU nano 7.2                               /etc/network/interfaces *
```

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
source /etc/network/interfaces.d/*
# The loopback network interface
auto lo
iface lo inet loopback
# The primary network interface
auto ens3
iface ens3 inet static
    address 172.16.0.10
    netmask 255.255.255.0
    gateway 172.16.0.2
```

Aide Écrire Chercher Couper Coller Exécuter Emplacement Annuler Refaire Marquer → Crochet Précédent Retrouver Suivant

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns

```
GNU nano 7.2                               /etc/network/interfaces *
```

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
source /etc/network/interfaces.d/*
# The loopback network interface
auto lo
iface lo inet loopback
# The primary network interface
auto ens3
iface ens3 inet static
    address 172.16.0.10
    netmask 255.255.255.0
    gateway 172.16.0.2
```

Nom du fichier à écrire: /etc/network/interfaces
 Aide Annuler Format DOS Format Mac Ajout (à la fin) Ajout (au début) Copie de sécu. Parcourir

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | | | | | | | |

Home server_dhcp_dns

```
GNU nano 7.2                               /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
source /etc/network/interfaces.d/
# The loopback network interface
auto lo
iface lo inet loopback
# The primary network interface
auto ens33
iface ens33 inet static
    address 172.16.0.10
    netmask 255.255.255.0
    gateway 172.16.0.2
```

[16 lignes écrrites]

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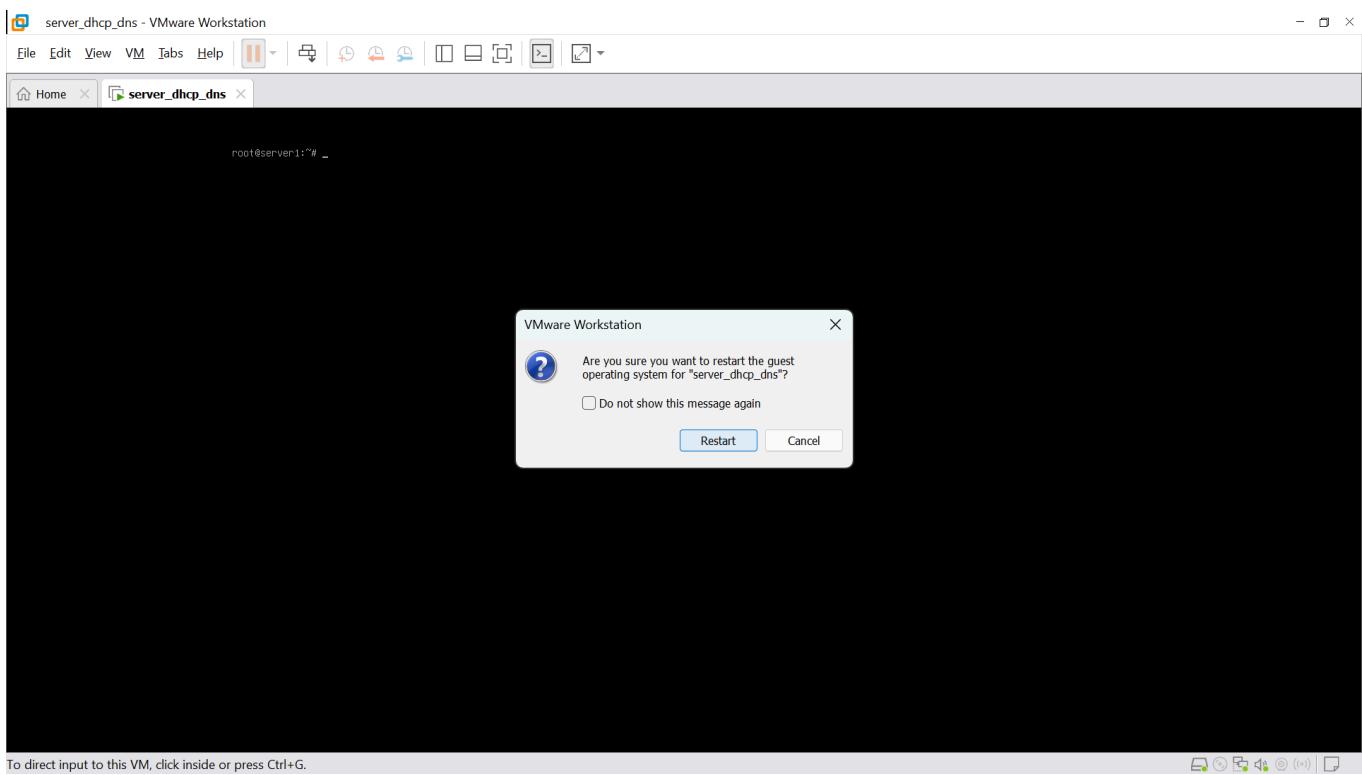
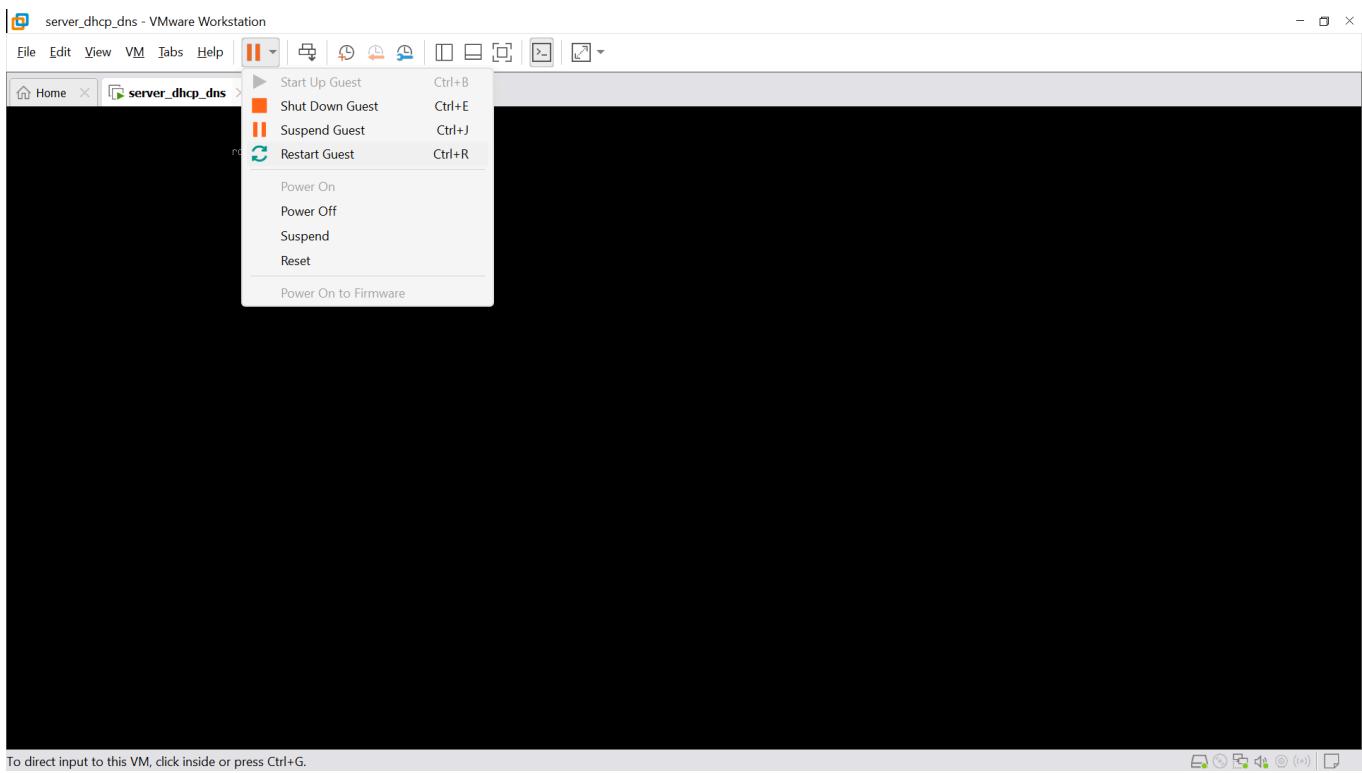
server_dhcp_dns - VMware Workstation

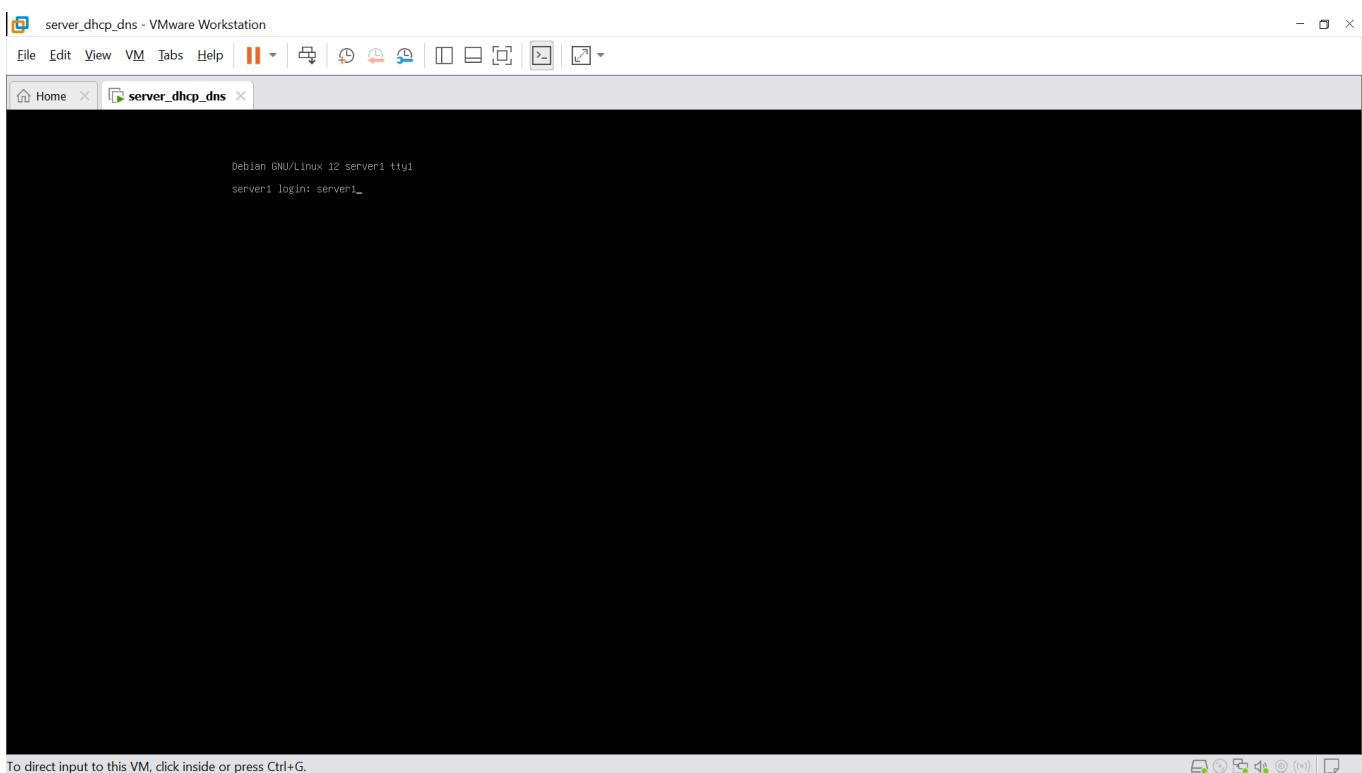
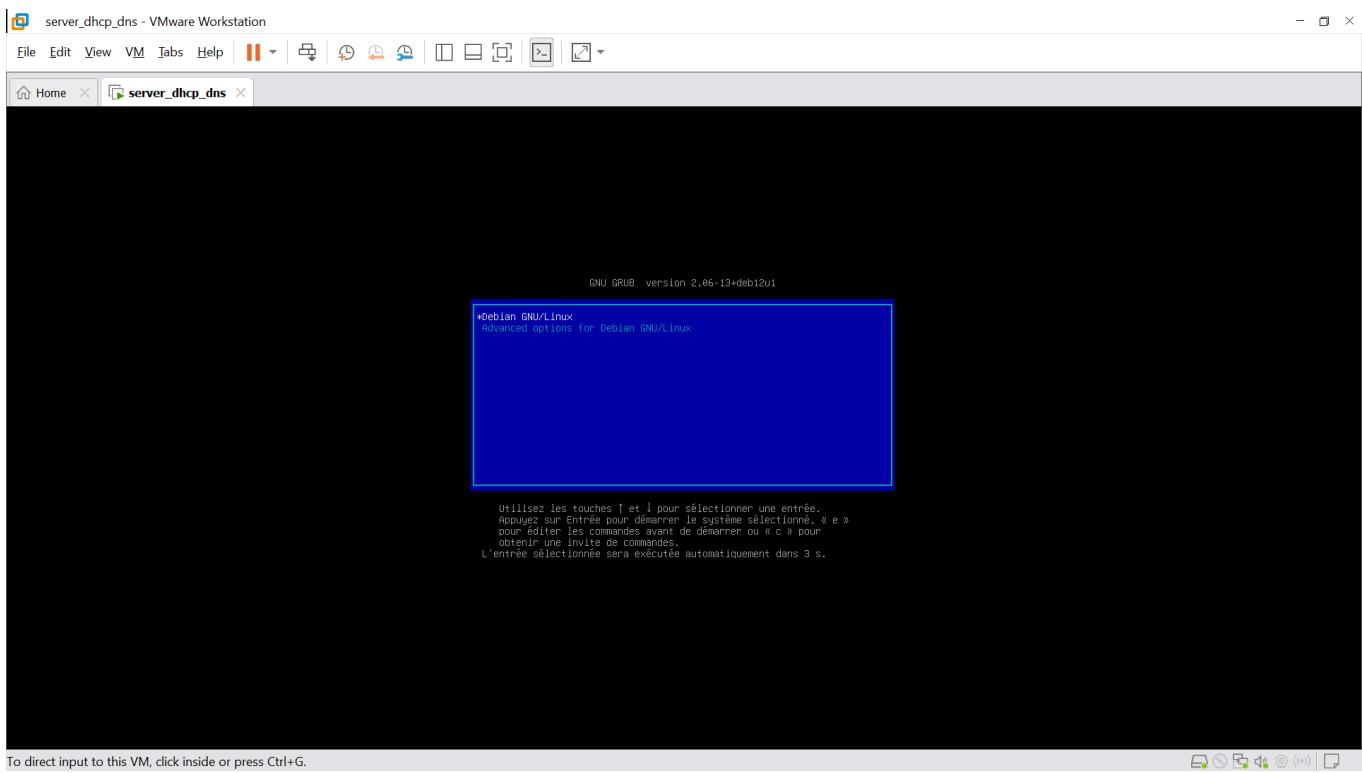
File Edit View VM Tabs Help | | | | | | | |

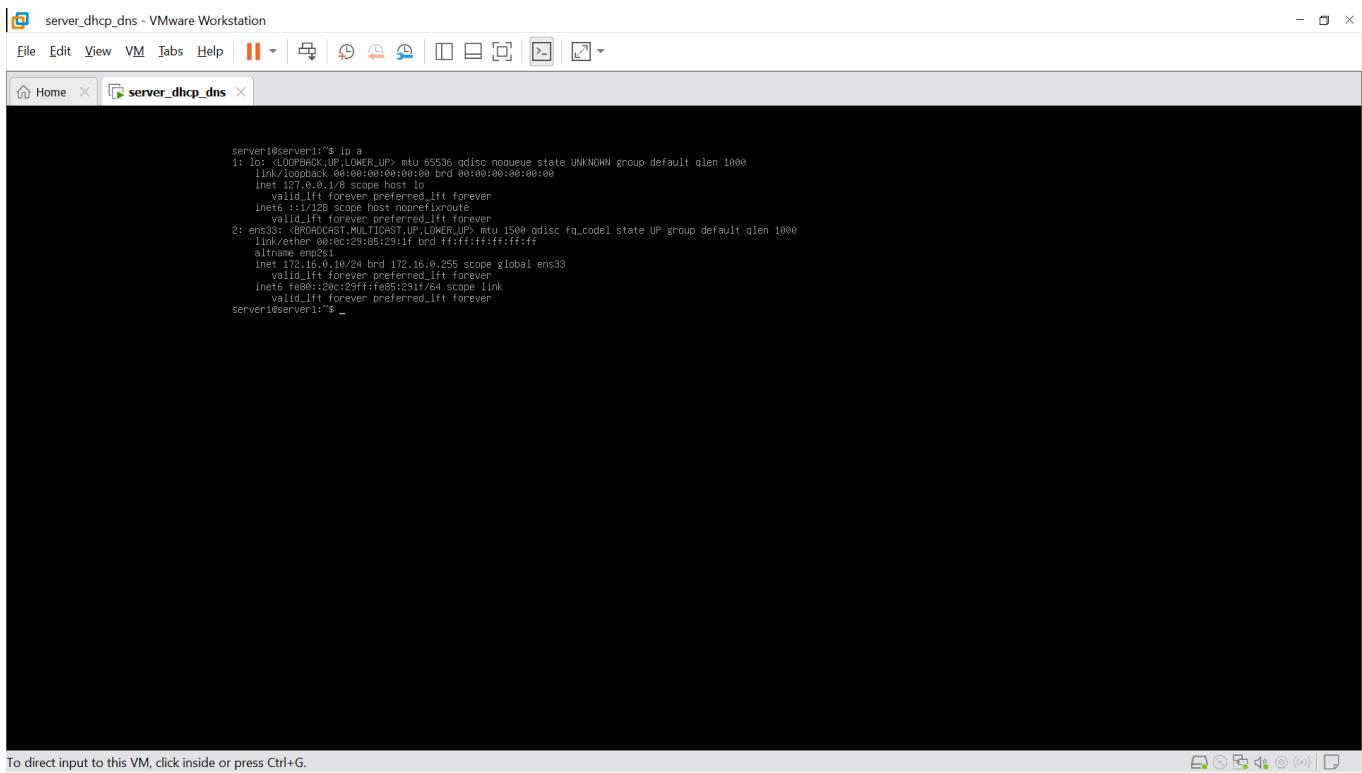
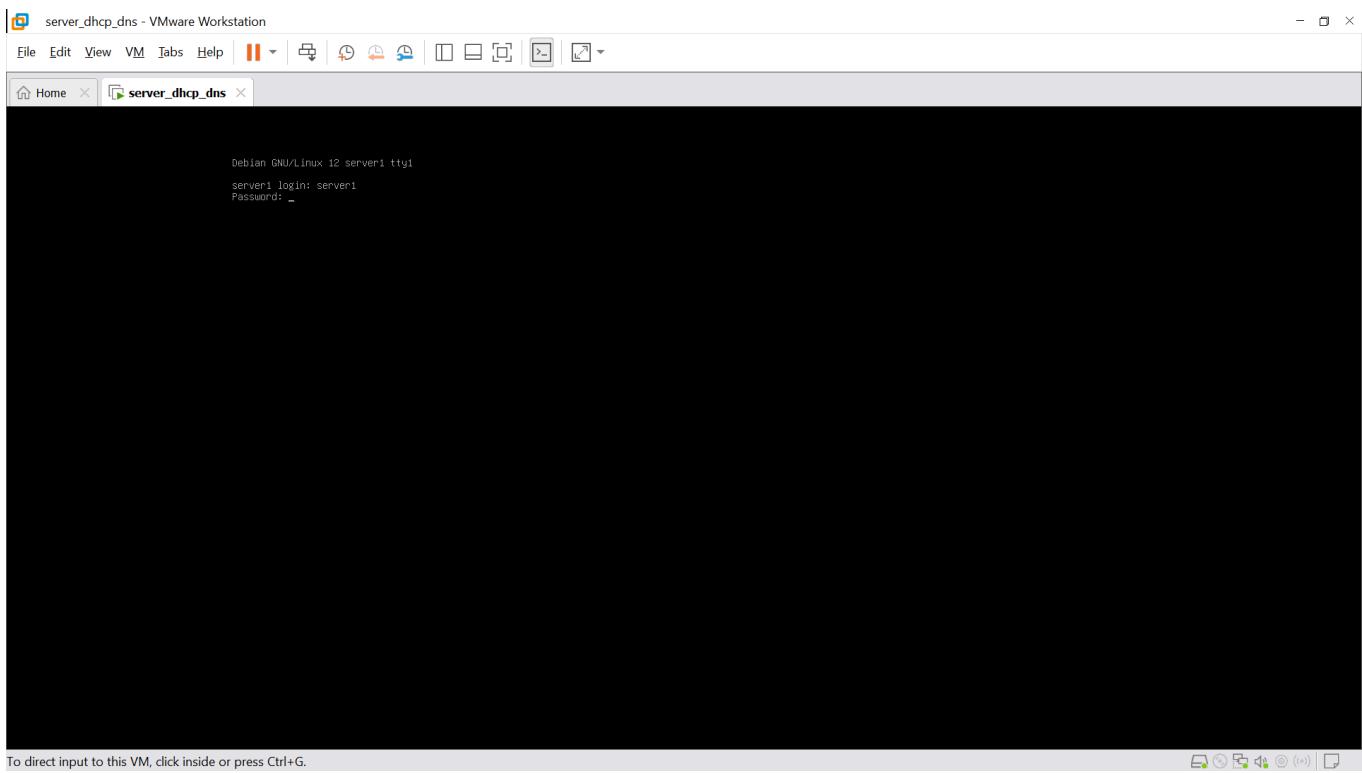
Home server_dhcp_dns Suspend this guest operating system

```
root@server1:~# _
```

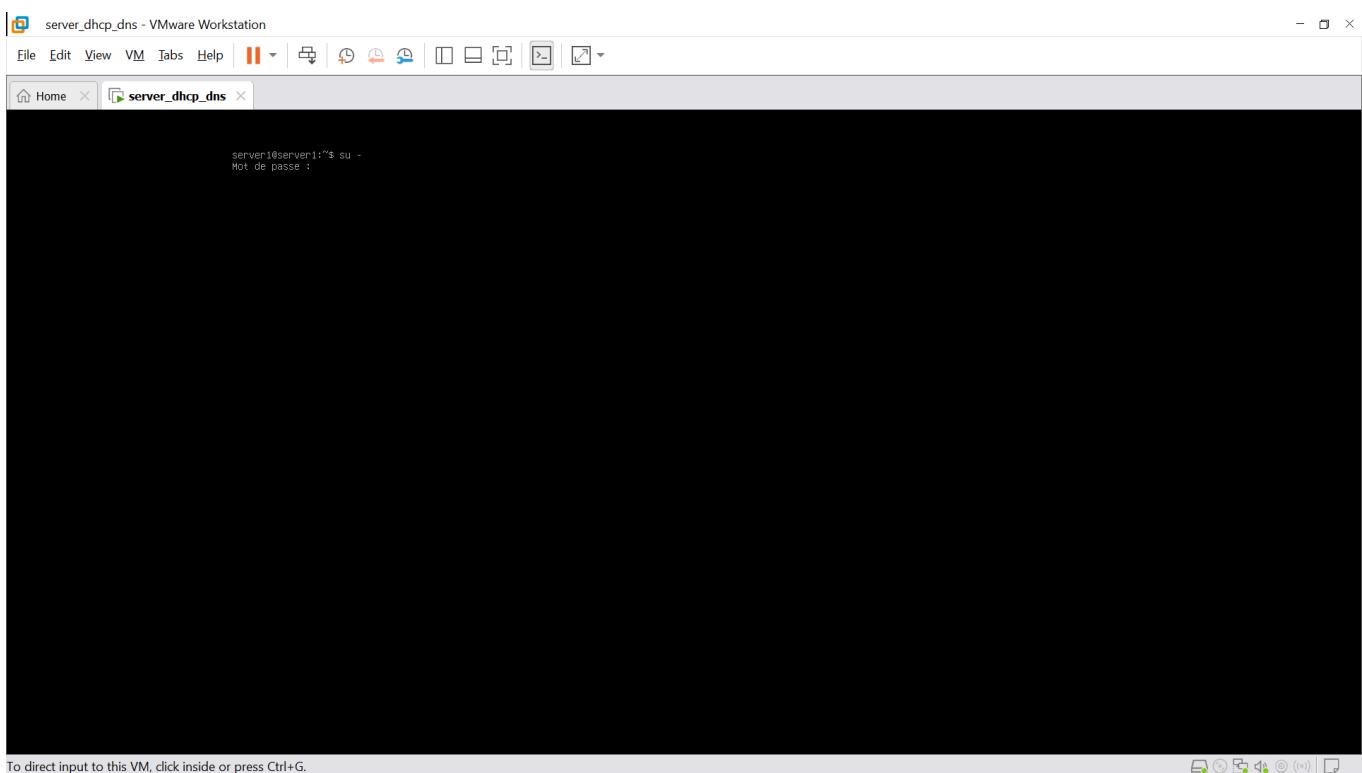
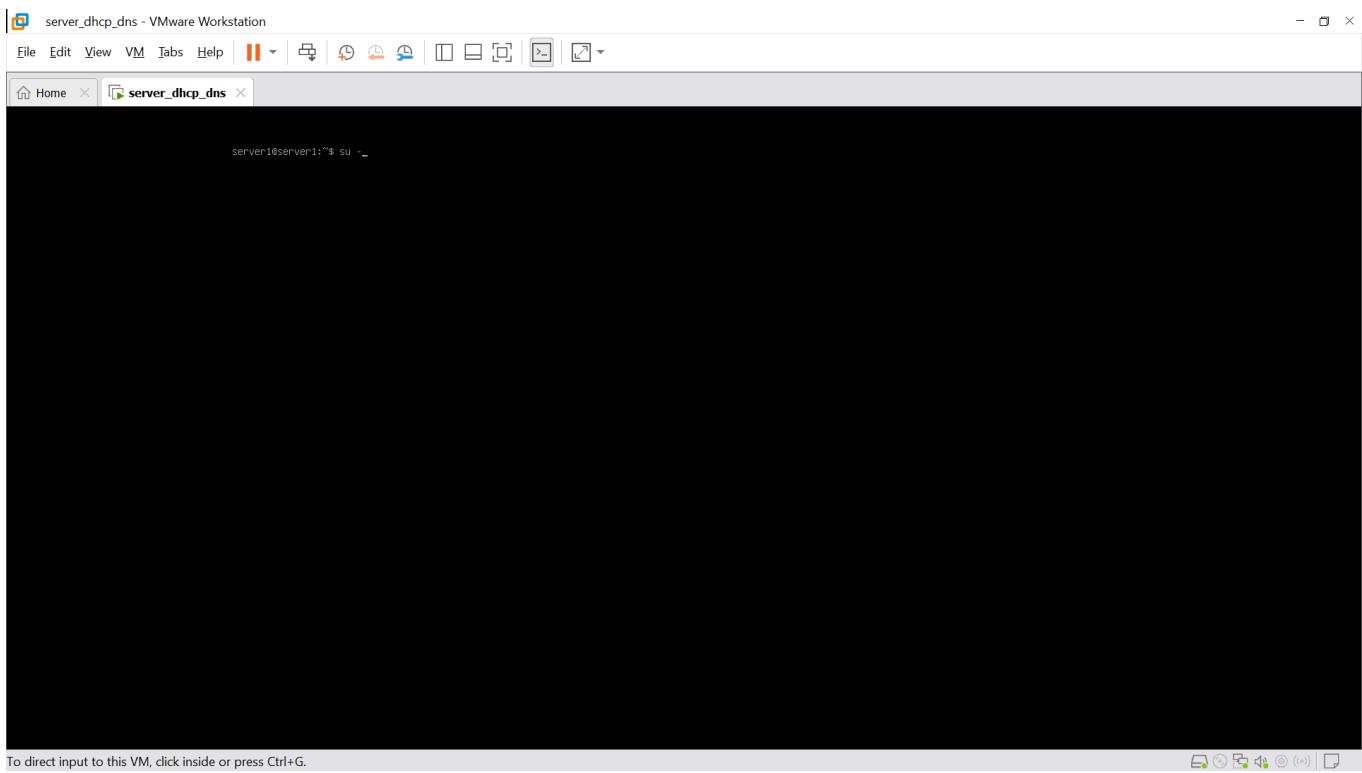
To direct input to this VM, click inside or press Ctrl+G.

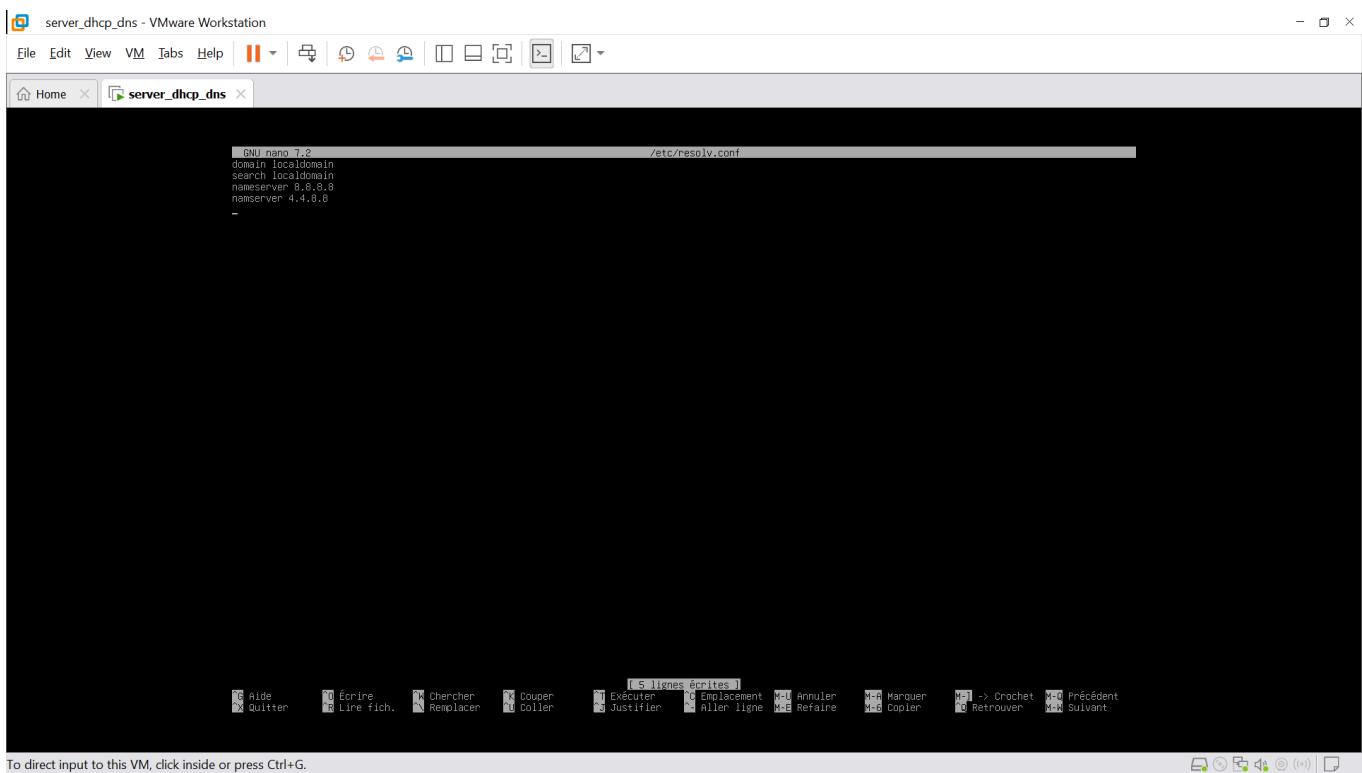
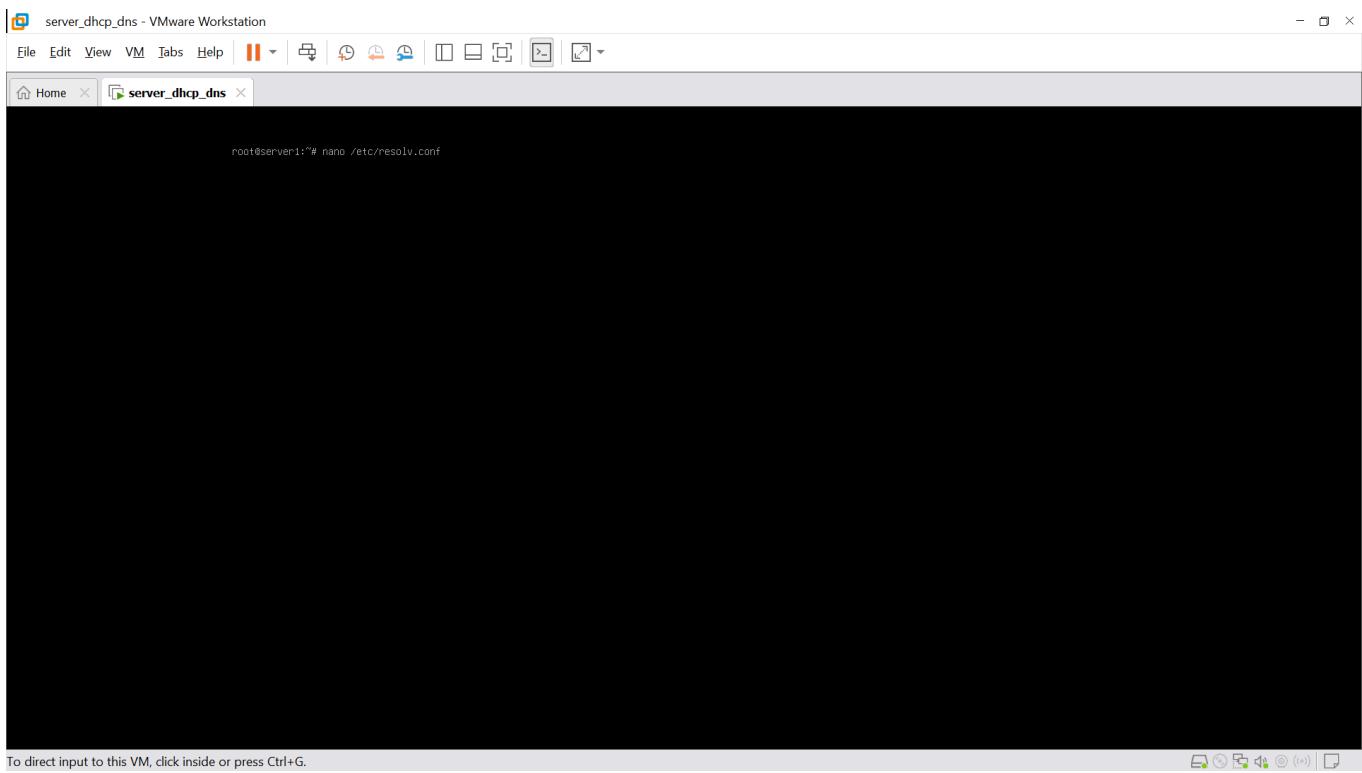






Etape 5 : Configuration du mode DHCP





server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns

GNU nano 7.2 /etc/resolv.conf

```
domain localdomain
search localdomain
nameserver 8.8.8.8
nameserver 4.4.8.8
```

Nom du fichier à écrire: /etc/resolv.conf

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To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns

GNU nano 7.2 /etc/resolv.conf

```
domain localdomain
search localdomain
nameserver 8.8.8.8
nameserver 4.4.8.8
```

[5 lignes écrites]

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server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

```
root@server1:~# apt install isc-dhcp-server
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
isc-dhcp-server est déjà la version la plus récente (4.4.3-P1-2).
0 mis à jour, 0 nouvellement installés, 0 à enlever et 0 non mis à jour.
root@server1:~#
```

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

```
root@server1:~# nano /etc/dhcp/dhcp.conf
```

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

```
GNU nano 7.2                                     /etc/dhcp/dhcpd.conf
#
# Sample configuration file for ISC dhcpcd
#
# option definitions common to all supported networks...
option domain-name "example.org";
option domain-name-servers ns1.example.org, 172.16.0.10;
default-lease-time 600;
max-lease-time 7200;
authoritative;

# The dns-updates-style parameter controls whether or not the server will
# attempt to do a DNS update when a lease is confirmed. We default to the
# behavior of the version 2 packages ('none', since DHCP v2 didn't
# have support for DNS).
dns-updates-style none;

# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
authoritative;

# use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
#log-facility local7;

# No service will be given on this subnet, but declaring it helps the
# DHCP server to understand the network topology.

#subnet 10.152.107.0 netmask 255.255.255.0 {
#}

# This is a very basic subnet declaration.

#subnet 10.254.239.0 netmask 255.255.255.224 {
#  range 10.254.239.10 10.254.239.20;
#  option routers rtr-239-0.1.example.org, rtr-239-0.2.example.org;
#}
#
# This declaration allows BOOTP clients to get dynamic addresses,
# which we don't really recommend.

#subnet 10.254.239.32 netmask 255.255.255.224 {
#  range dynamic-bootp 10.254.239.40 10.254.239.60;
#  option broadcast-address 10.254.239.31;
```

[Lecture de 117 lignes]

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To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

```
GNU nano 7.2                                     /etc/dhcp/dhcpd.conf
#
# Should not also be listed as being available for dynamic assignment.
# Hosts for which fixed IP addresses have been specified can boot using
# BOOTP or DHCP.  Hosts for which no fixed address is specified can only
# be contacted with DHCP, unless there is an address range on the subnet
# to which a BOOTP client is connected which has the dynamic-bootp flag
# set.
#host fantasia {
#  hardware ethernet 00:0B:87:26:C0:85;
#  fixed-address fantasia.example.com;
#}

# You can declare a class of clients and then do address allocation
# based on that.  The example below shows a case where all clients
# in a certain class get addresses on the 10.17.224/24 subnet, and all
# other clients get addresses on the 10.0.89/24 subnet.
#class "foo" {
#  match if substring(option vendor-class-identifier, 0, 4) = "SUNK";
#}

#shared-network 224-29 {
#  subnet 10.17.224.0 netmask 255.255.255.0 {
#    option routers rtr-224.example.org;
#  }
#  subnet 10.0.29.0 netmask 255.255.255.0 {
#    option routers rtr-29.example.org;
#  }
#  pool {
#    allow members of "foo";
#    range 10.17.224.10 10.17.224.259;
#  }
#  pool {
#    deny members of "foo";
#    range 10.0.29.10 10.0.29.230;
#  }
#}

subnet 172.16.0.0 netmask 255.255.255.0 {
  option routers 172.16.0.24;
  option subnet-mask 255.255.255.0;
  option domain-name-servers 8.8.8.8, 8.8.4.4;
  option domain-name "localdomain";
}
```

[Lecture de 117 lignes]

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To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

/etc/dhcp/dhcpd.conf

```
GNU nano 7.2
# Should not also be listed as being available for dynamic assignment.
# Hosts for which fixed IP addresses have been specified can boot using
# BOOTP or DHCP. Hosts for which no fixed address is specified can only
# be booted with DHCP, unless there is an address range on the subnet
# to which a BOOTP client is connected which has the dynamic-boot flag
# set.
#host fantasia {
#    hardware ethernet 00:00:07:26:c0:a5;
#    fixed-address fantasia.example.com;
#}

# You can declare a class of clients and then do address allocation
# based on that. The example below shows a case where all clients
# in a certain class get addresses on the 10.17.224/24 subnet, and all
# other clients get addresses on the 10.0.29/24 subnet.

#class "foo" {
#    match if substring(option vendor-class-identifier, 0, 4) = "SUNW";
#}

#shared-network 224-29 {
#    subnet 10.17.224.0 netmask 255.255.255.0 {
#        option routers rtr-224.example.org;
#    }
#    subnet 10.0.29.0 netmask 255.255.255.0 {
#        option routers rtr-29.example.org;
#    }
#    pool {
#        allow members of "foo";
#        range 10.17.224.10 10.17.224.250;
#    }
#    pool {
#        deny members of "foo";
#        range 10.0.29.10 10.0.29.230;
#    }
#}

subnet 172.16.0.0 netmask 255.255.255.0 {
    range 172.16.0.190 172.16.0.200;
    option routers 172.16.0.2;
    option subnet-mask 255.255.255.0;
    option domain-name-servers 8.8.8.8, 8.8.4.4;
    option domain-name "localdomain";
}
```

Nom du fichier à écrire: /etc/dhcp/dhcpd.conf

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

/etc/dhcp/dhcpd.conf

```
GNU nano 7.2
# Should not also be listed as being available for dynamic assignment.
# Hosts for which fixed IP addresses have been specified can boot using
# BOOTP or DHCP. Hosts for which no fixed address is specified can only
# be booted with DHCP, unless there is an address range on the subnet
# to which a BOOTP client is connected which has the dynamic-boot flag
# set.
#host fantasia {
#    hardware ethernet 00:00:07:26:c0:a5;
#    fixed-address fantasia.example.com;
#}

# You can declare a class of clients and then do address allocation
# based on that. The example below shows a case where all clients
# in a certain class get addresses on the 10.17.224/24 subnet, and all
# other clients get addresses on the 10.0.29/24 subnet.

#class "foo" {
#    match if substring(option vendor-class-identifier, 0, 4) = "SUNW";
#}

#shared-network 224-29 {
#    subnet 10.17.224.0 netmask 255.255.255.0 {
#        option routers rtr-224.example.org;
#    }
#    subnet 10.0.29.0 netmask 255.255.255.0 {
#        option routers rtr-29.example.org;
#    }
#    pool {
#        allow members of "foo";
#        range 10.17.224.10 10.17.224.250;
#    }
#    pool {
#        deny members of "foo";
#        range 10.0.29.10 10.0.29.230;
#    }
#}

subnet 172.16.0.0 netmask 255.255.255.0 {
    range 172.16.0.190 172.16.0.200;
    option routers 172.16.0.2;
    option subnet-mask 255.255.255.0;
    option domain-name-servers 8.8.8.8, 8.8.4.4;
    option domain-name "localdomain";
}
```

[117 lignes écrites]

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

```
root@server1:~# nano /etc/default/isc-dhcp-server
```

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Tabs Help | |

Home server_dhcp_dns machine_ssh_sftp

```
GNU nano 7.2                               /etc/default/isc-dhcp-server
INTERFACESv4="ens33"
INTERFACESv6=""
```

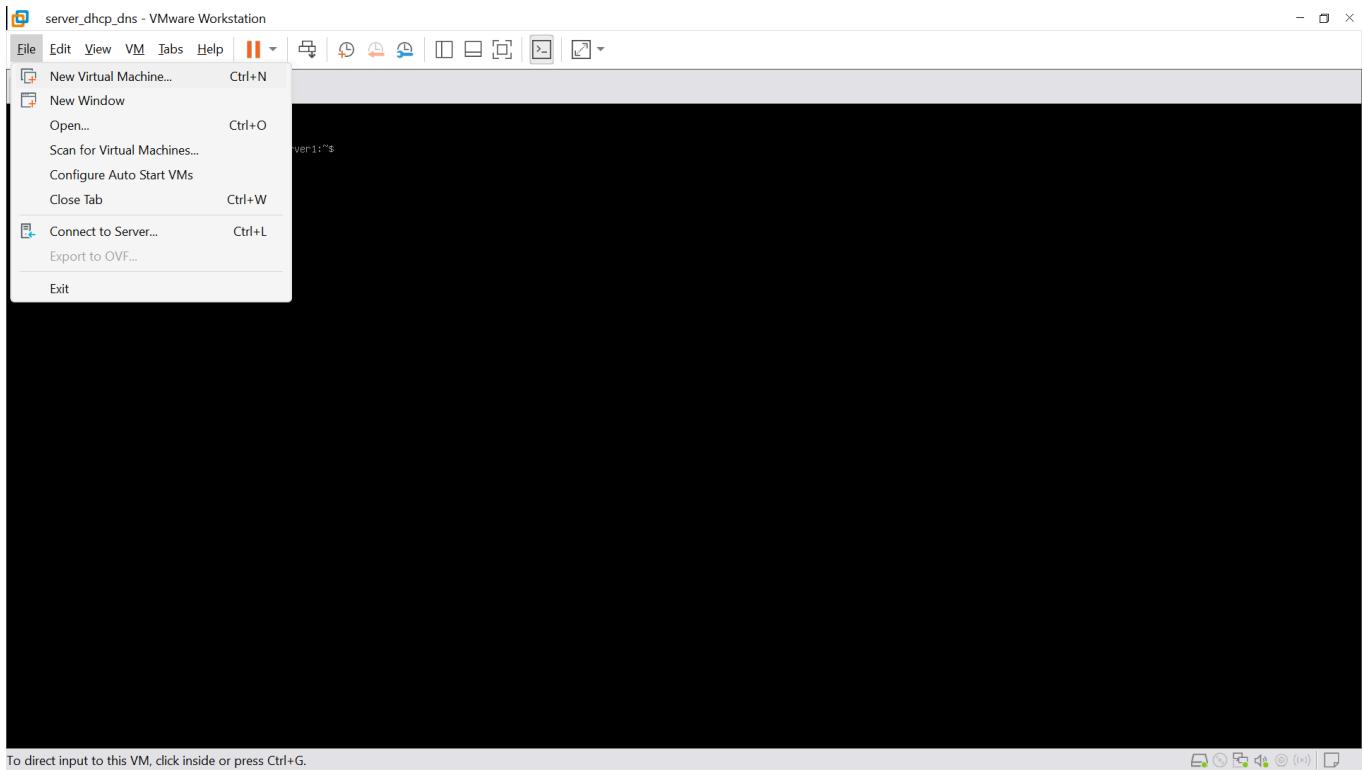
To direct input to this VM, click inside or press Ctrl+G.

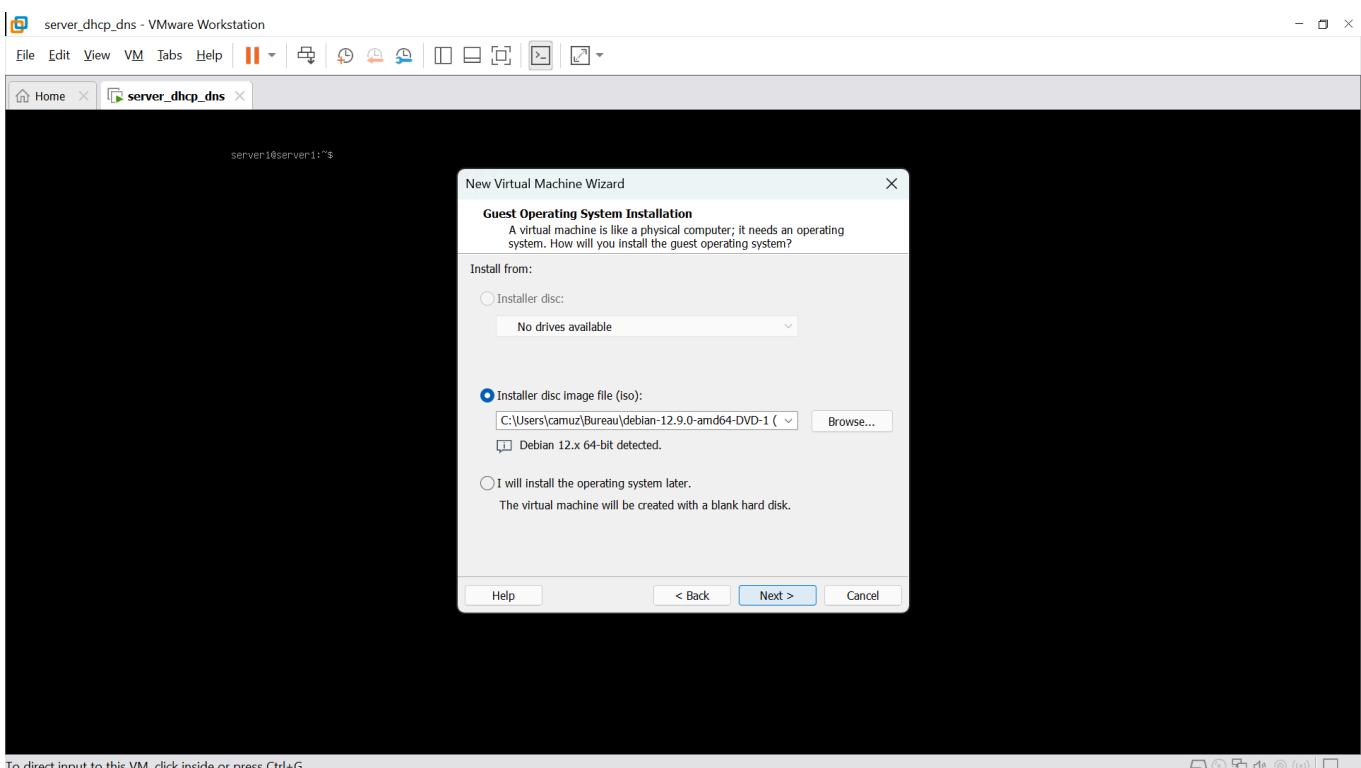
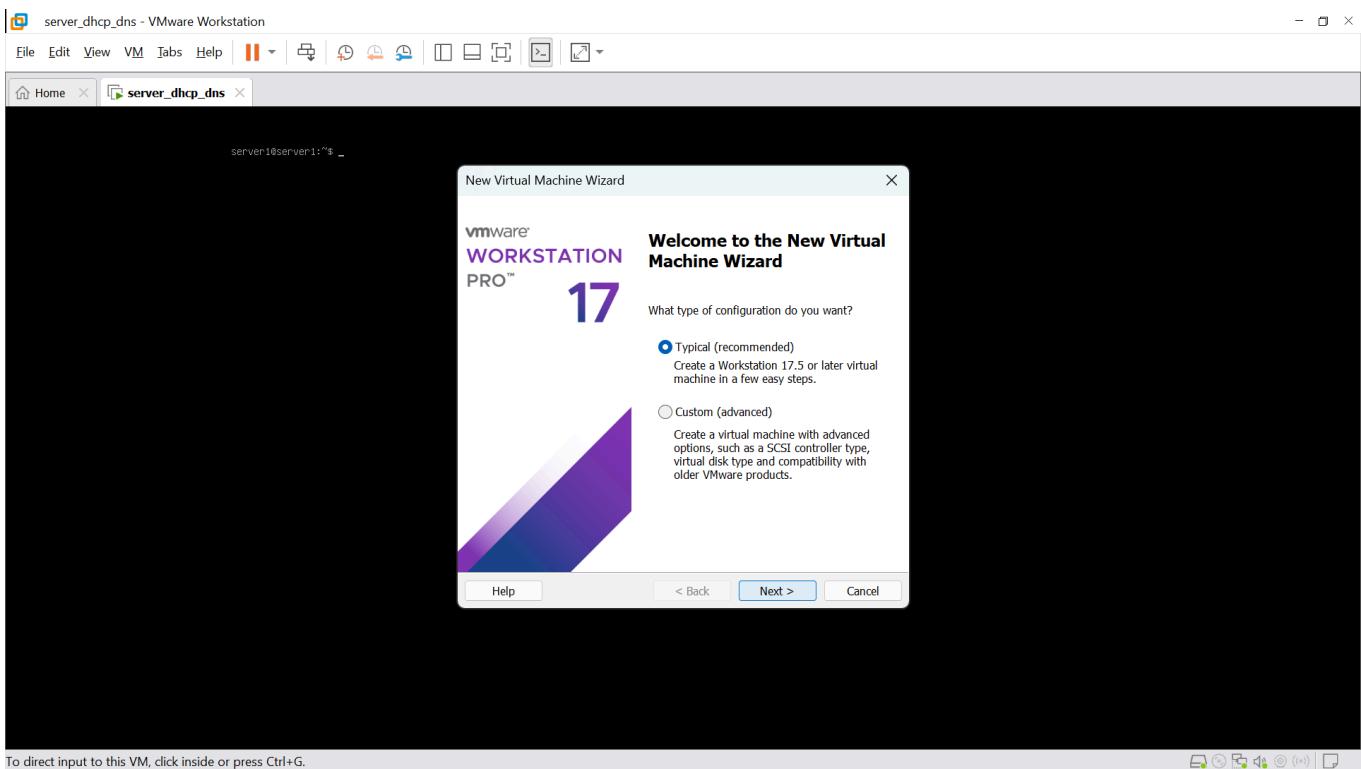
The screenshot shows a VMware Workstation interface with a single open terminal window. The title bar reads "server_dhcp_dns - VMware Workstation". The menu bar includes "File", "Edit", "View", "VM", "Tabs", "Help", and various icons for file operations like copy, paste, and search. The main window has tabs for "Home" and "server_dhcp_dns". The terminal session is running as root on the server_dhcp_dns VM, with the command "root@server1:~# systemctl status isc-dhcp-server" entered. The output of the command is visible below the prompt.

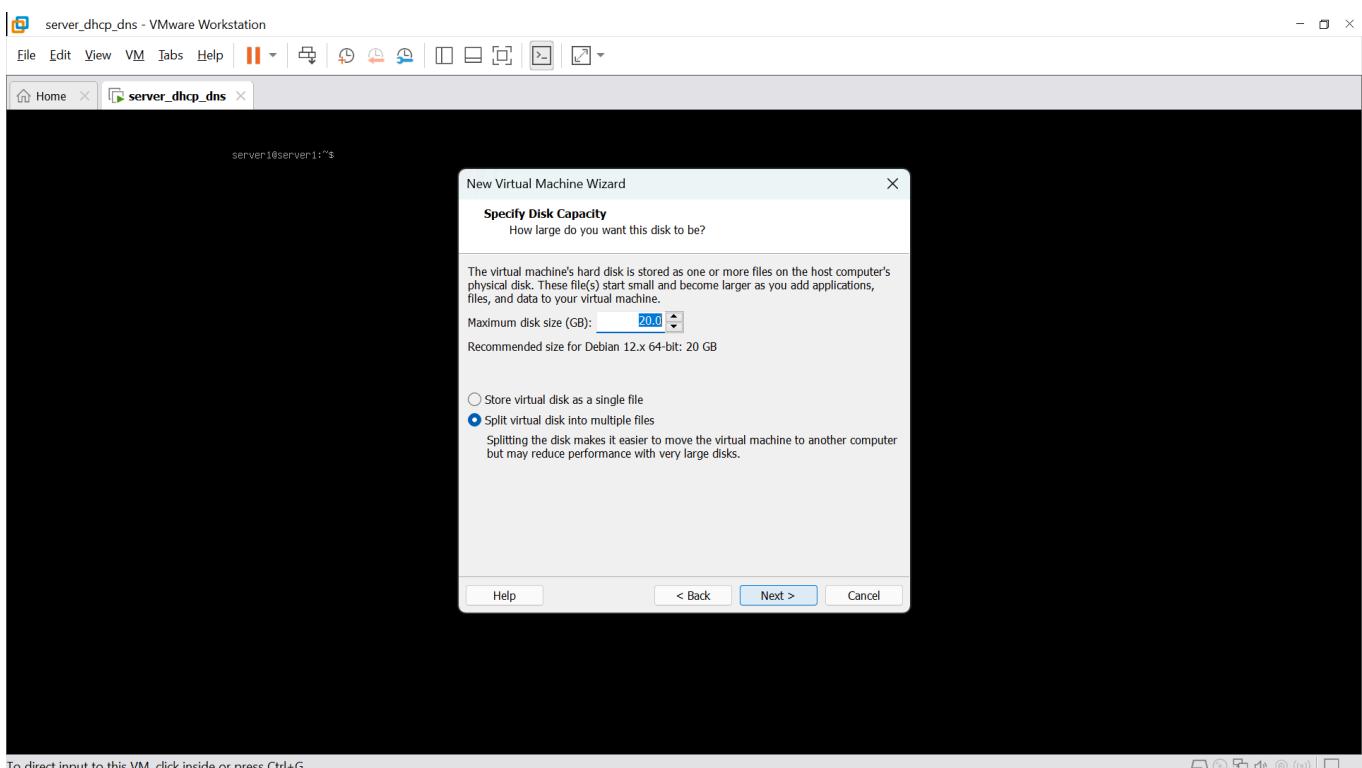
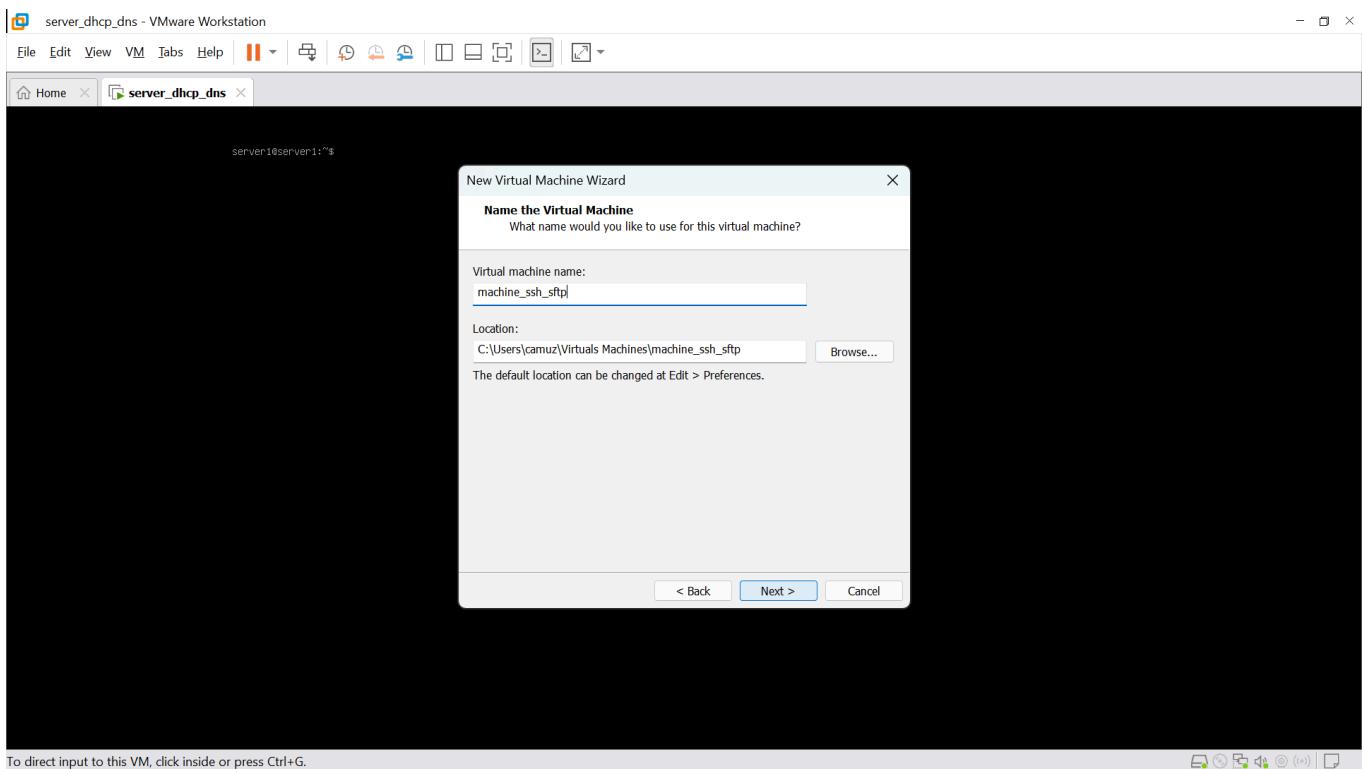
```
root@server1:~# systemctl status isc-dhcp-server
● isc-dhcp-server.service - ISC DHCP Server
   Loaded: loaded (/etc/init.d/isc-dhcp-server; generated)
   Active: active (running) since Fri 2025-01-31 23:39:58 CET; 1min 21s ago
     Docs: man:systemd-sysv-generator(8)
   Process: 820 ExecStart=/etc/init.d/isc-dhcp-server start (code=exited, status=0/SUCCESS)
   Tasks: 1 (limit: 2273)
   Memory: 6.7K
      CPU: 165ms
      CGroup: /system.slice/isc-dhcp-server.service
              └─834 /usr/sbin/dhcpd -4 -q -cf /etc/dhcp/dhcpd.conf ens3
```

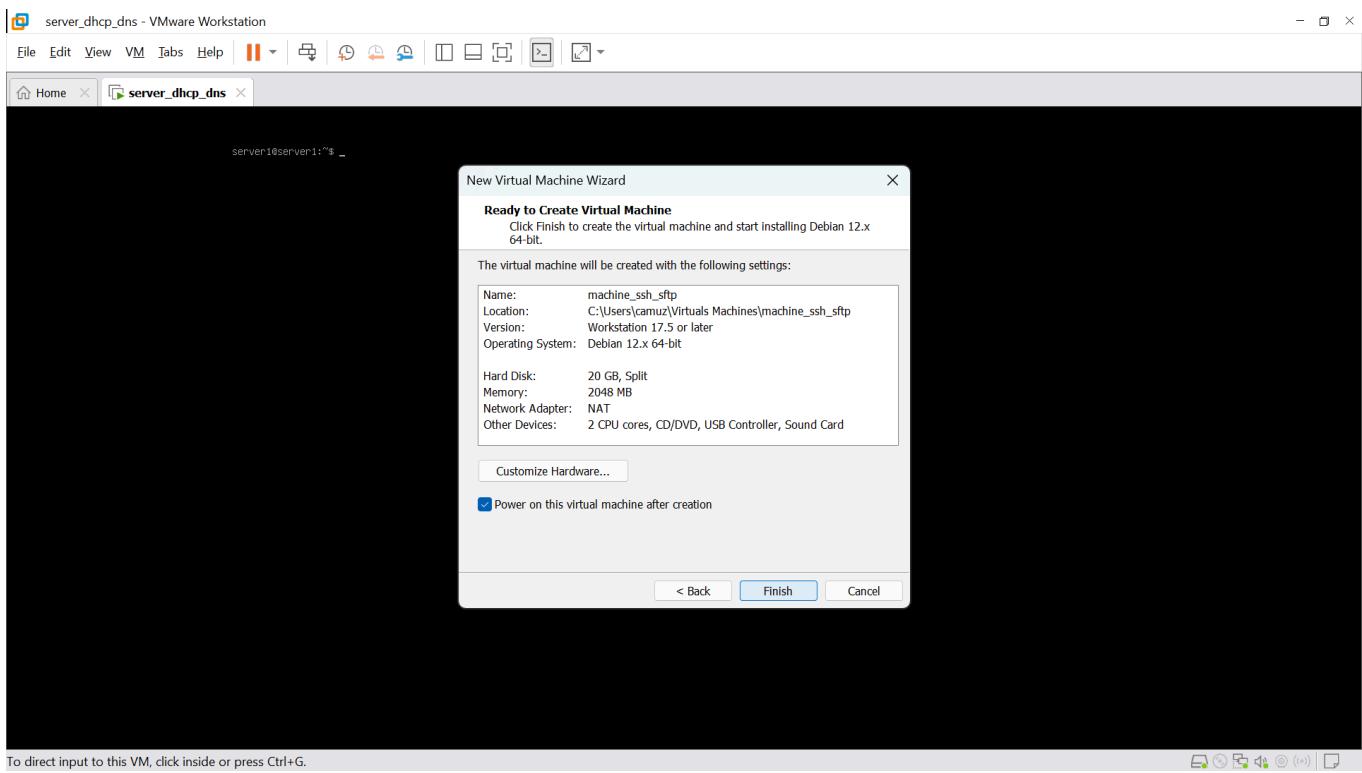
To direct input to this VM, click inside or press Ctrl+G.

Etape 6 : Installation de la VM SSH_SFTP

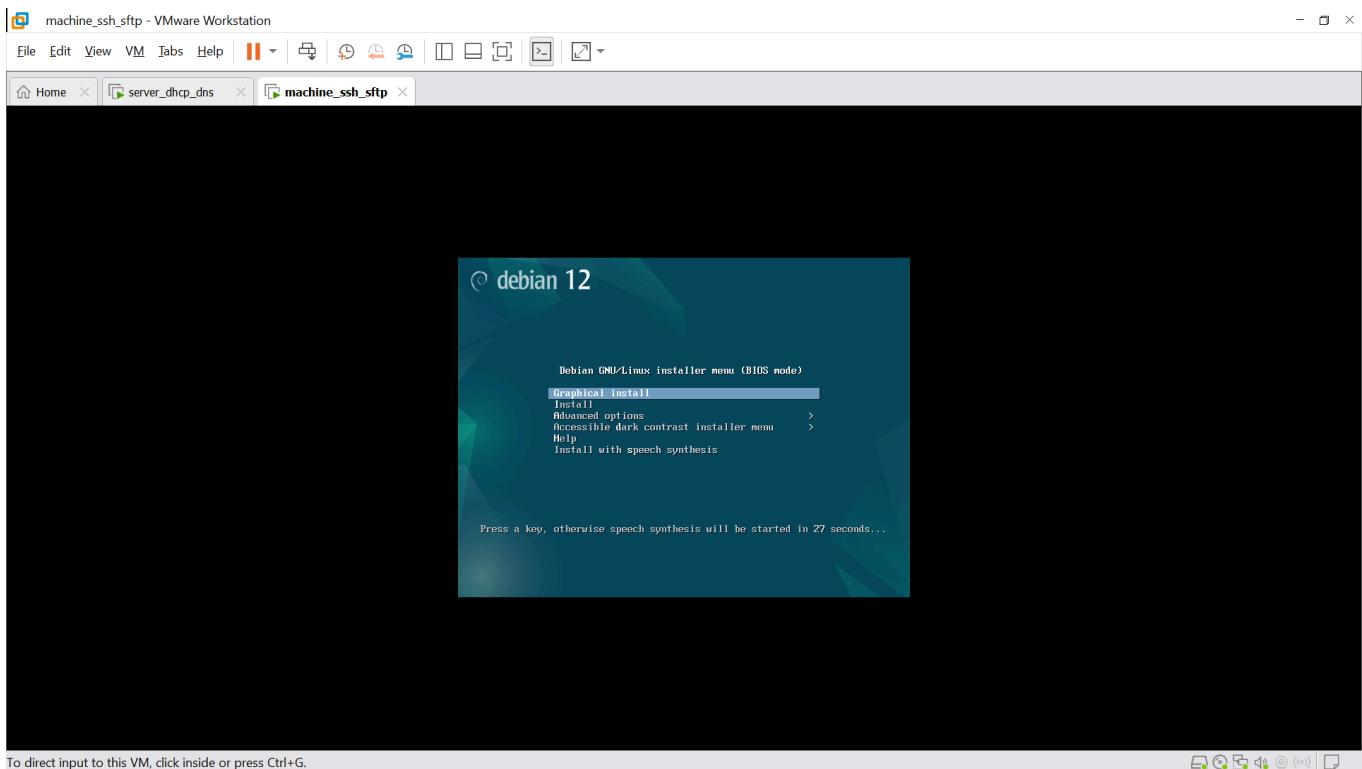




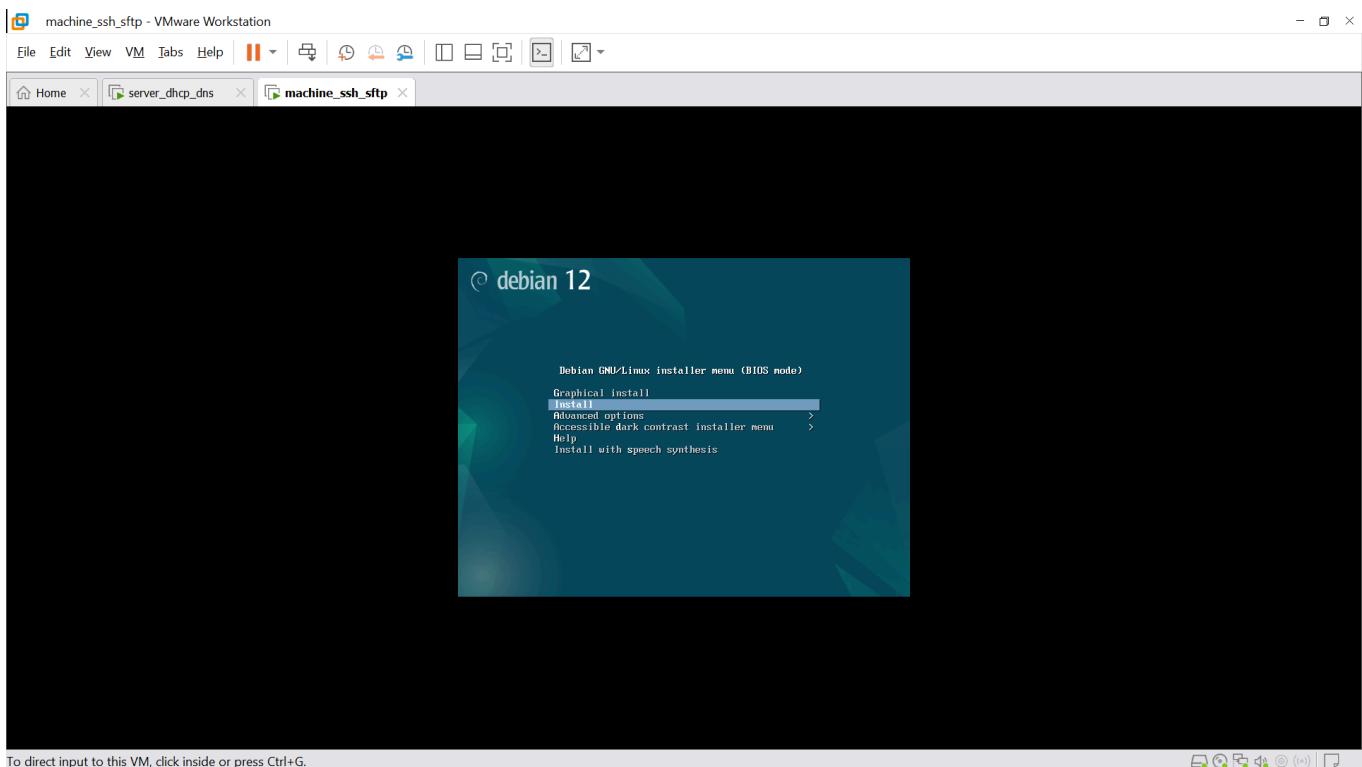




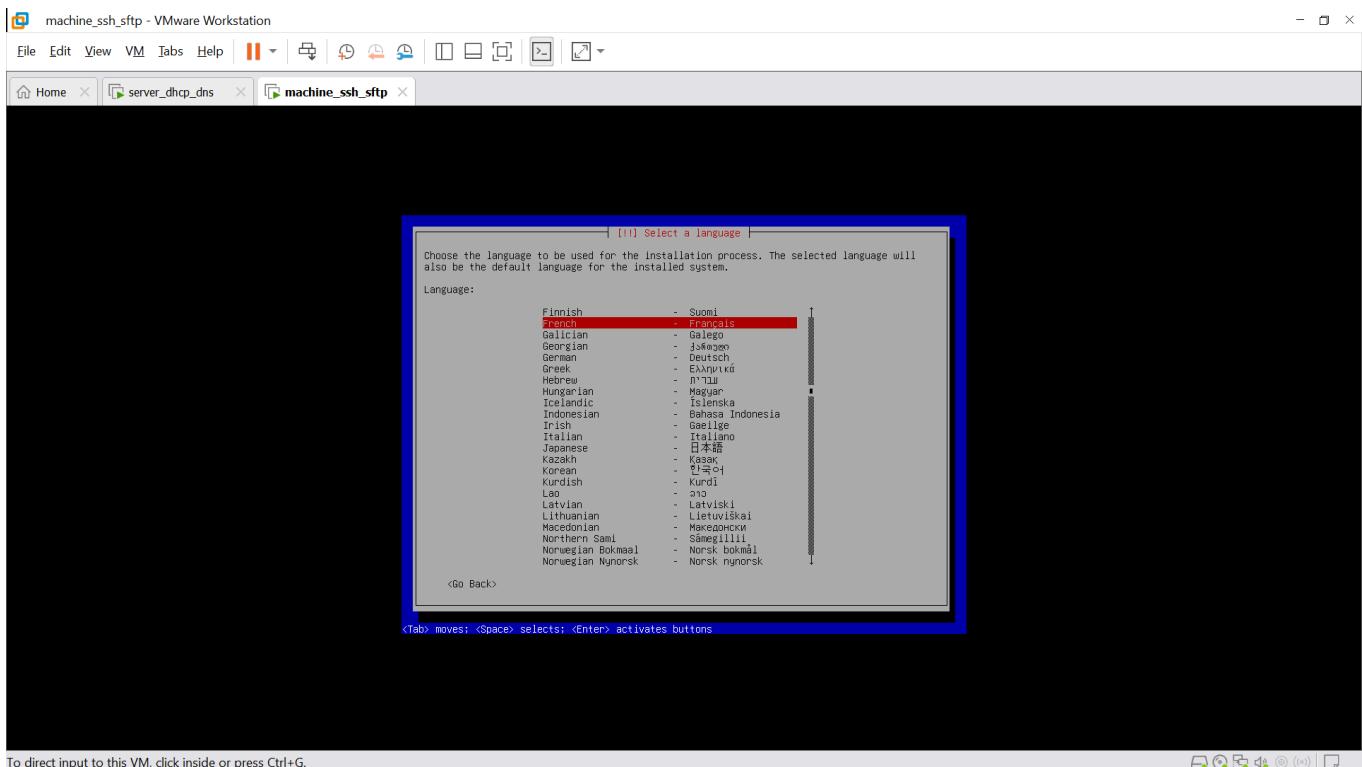
To direct input to this VM, click inside or press Ctrl+G.



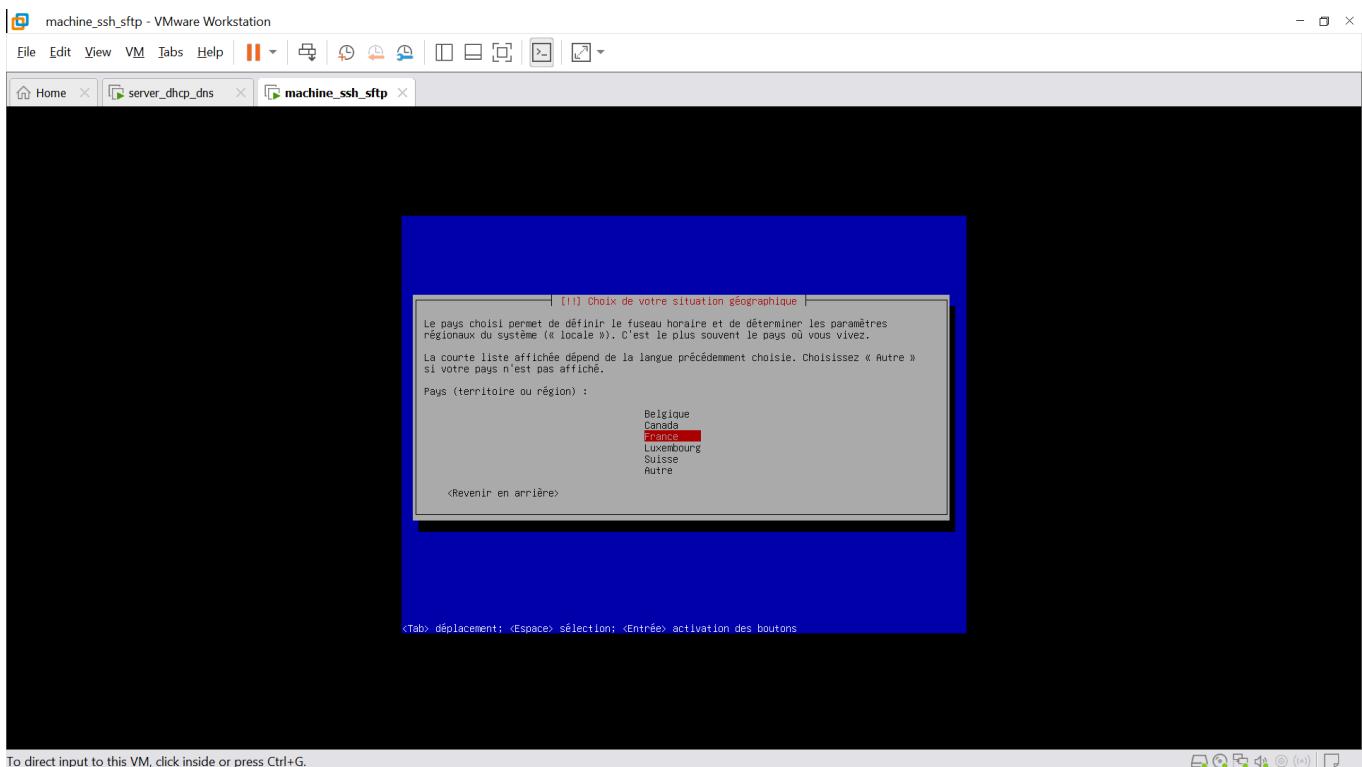
To direct input to this VM, click inside or press Ctrl+G.



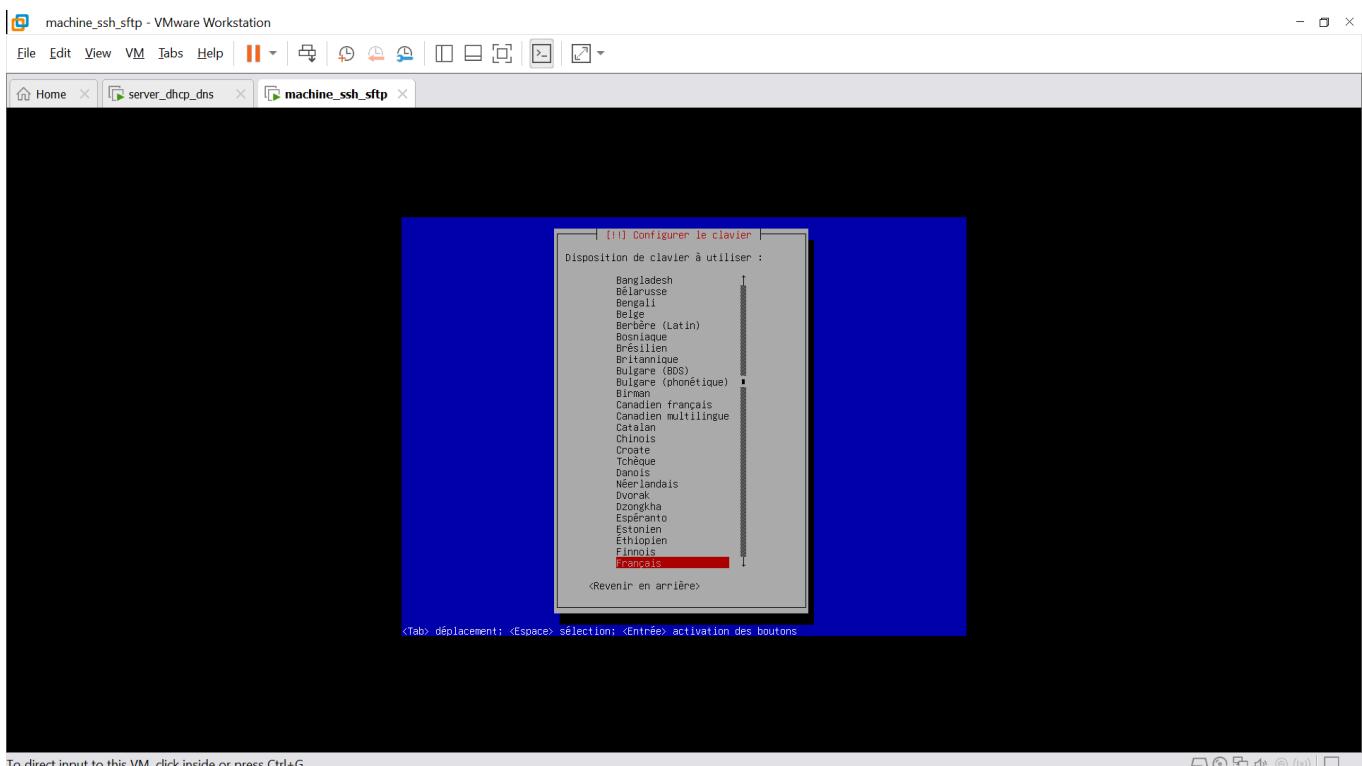
To direct input to this VM, click inside or press Ctrl+G.



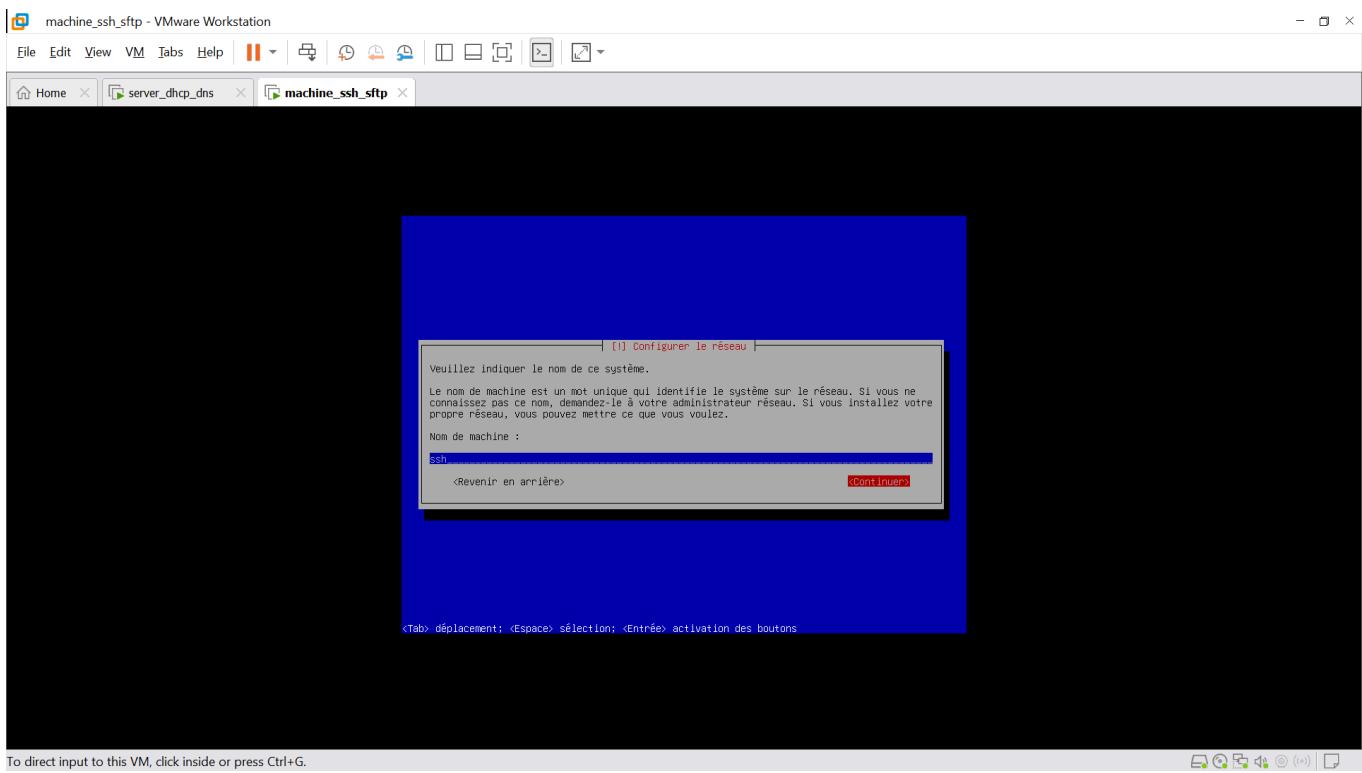
To direct input to this VM, click inside or press Ctrl+G.



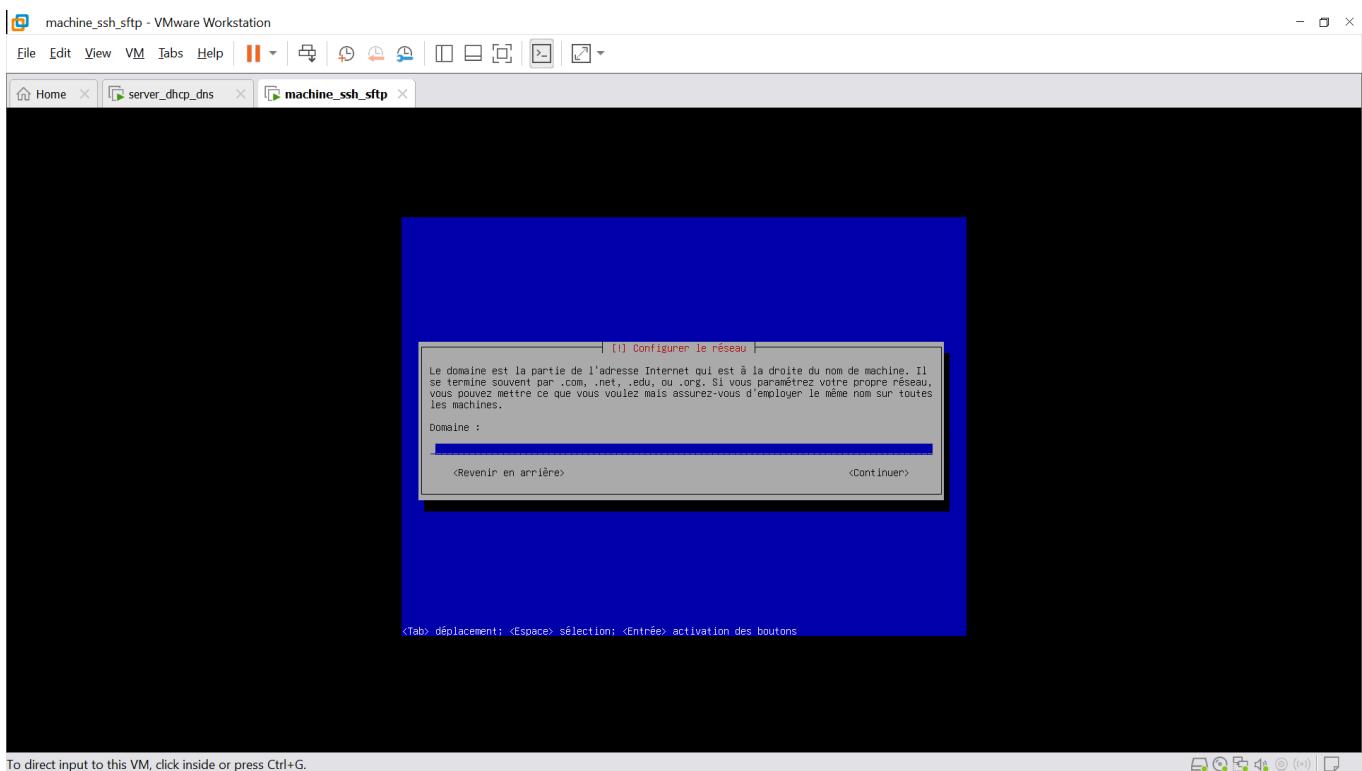
To direct input to this VM, click inside or press Ctrl+G.



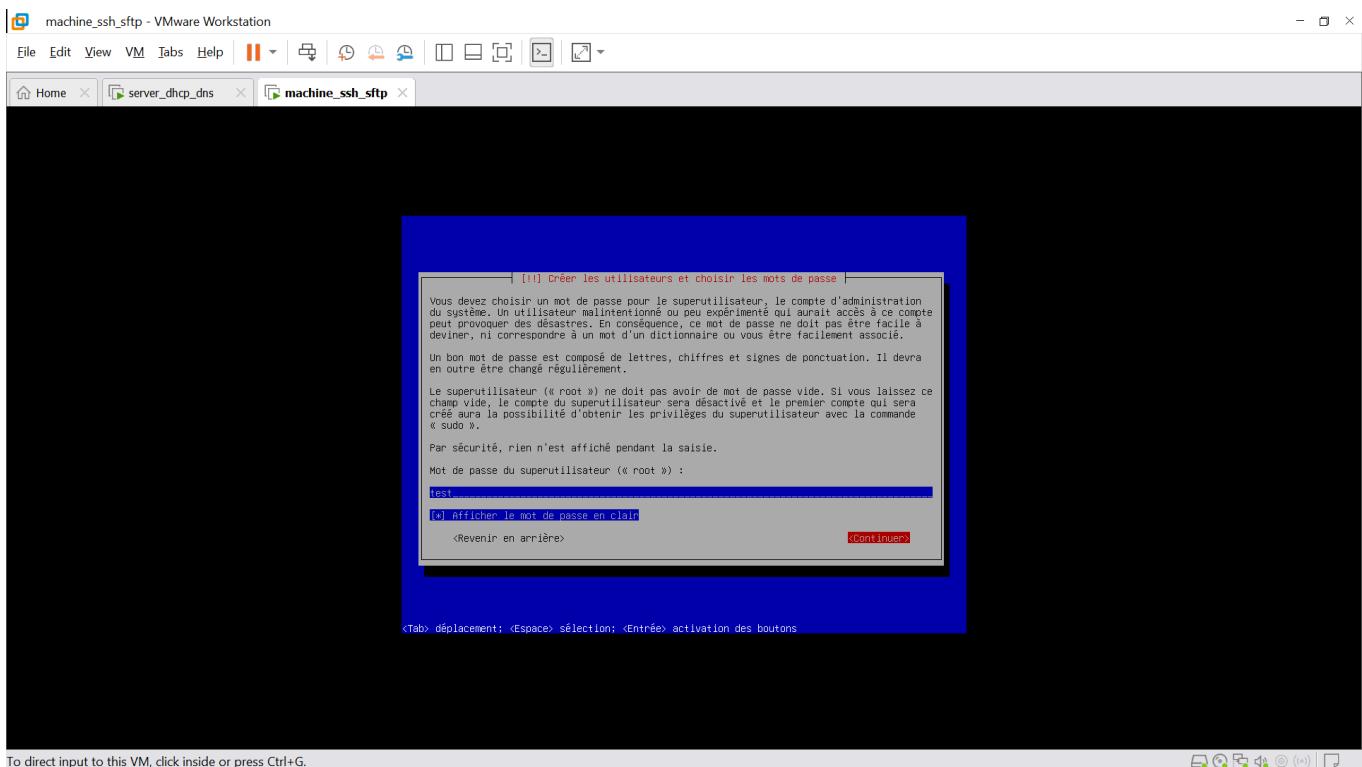
To direct input to this VM, click inside or press Ctrl+G.



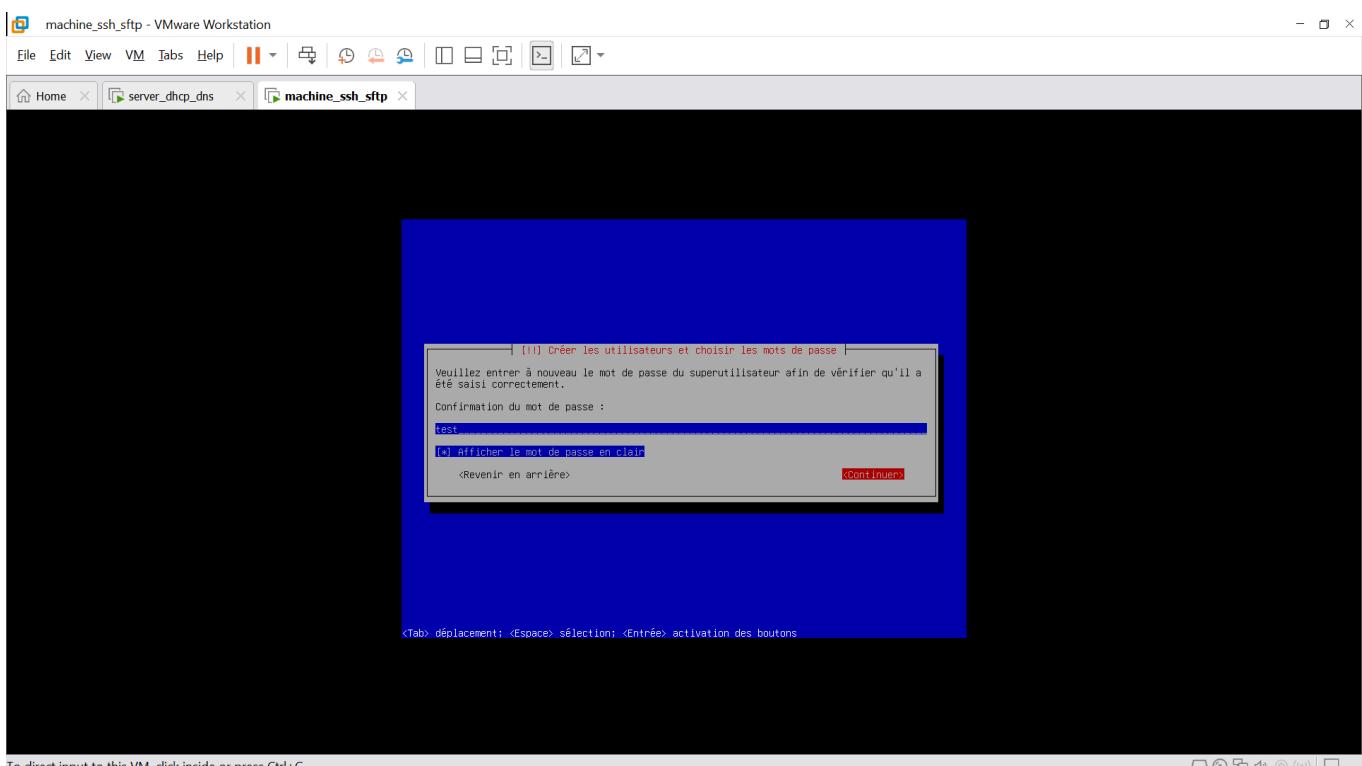
To direct input to this VM, click inside or press Ctrl+G.



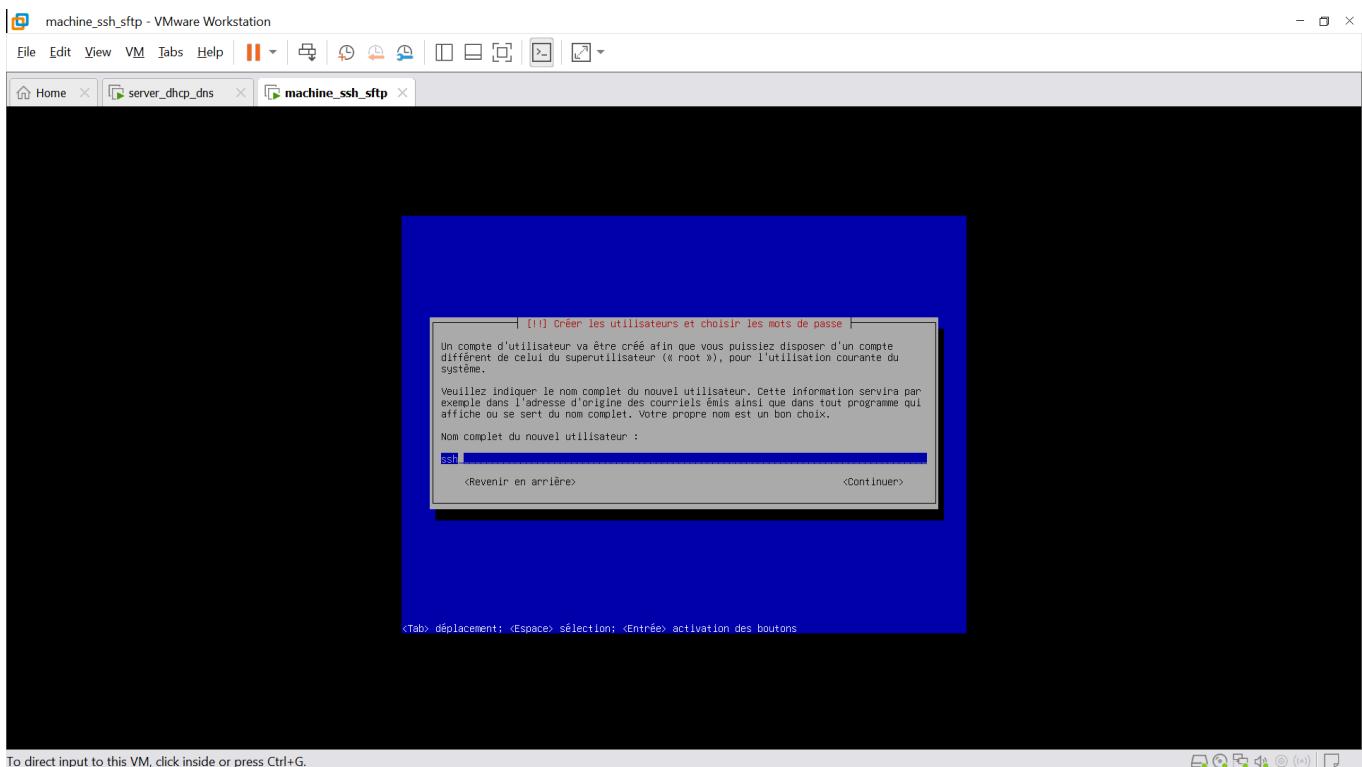
To direct input to this VM, click inside or press Ctrl+G.



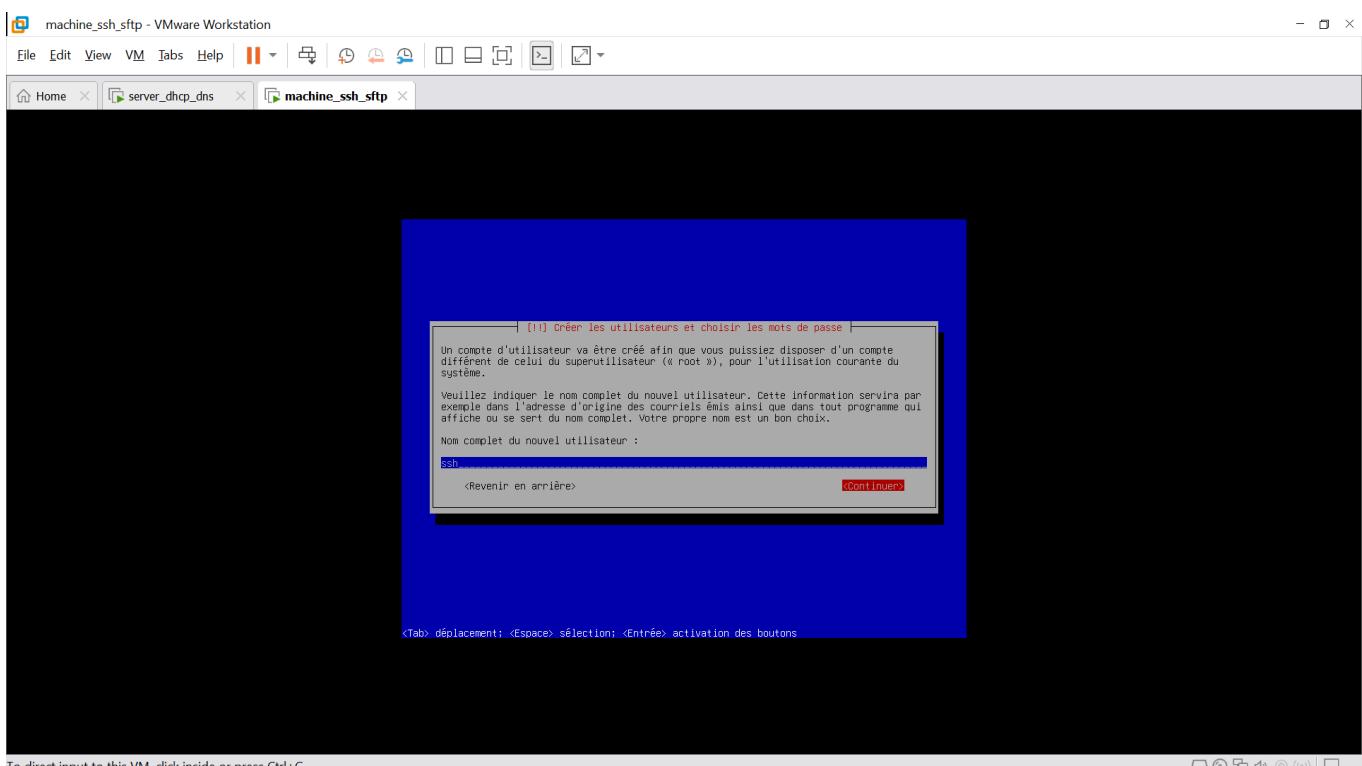
To direct input to this VM, click inside or press Ctrl+G.



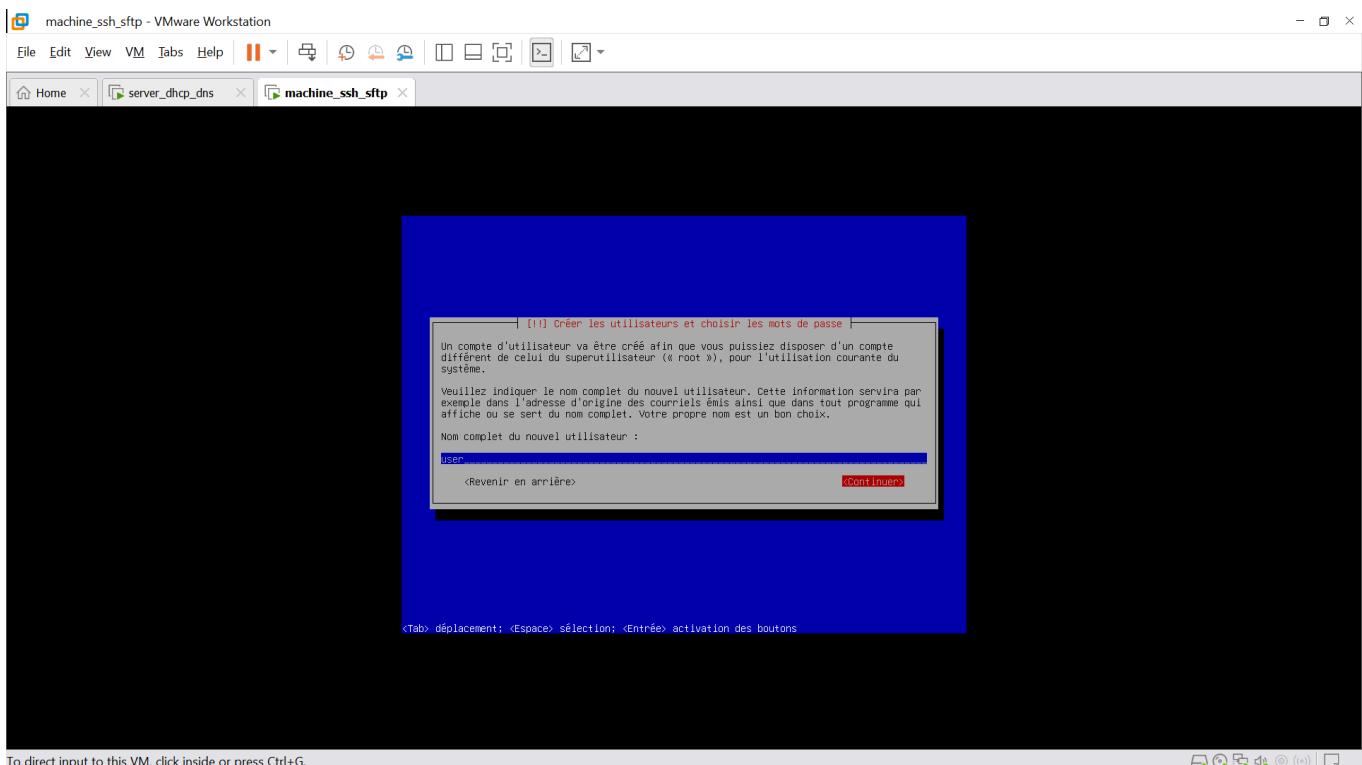
To direct input to this VM, click inside or press Ctrl+G.



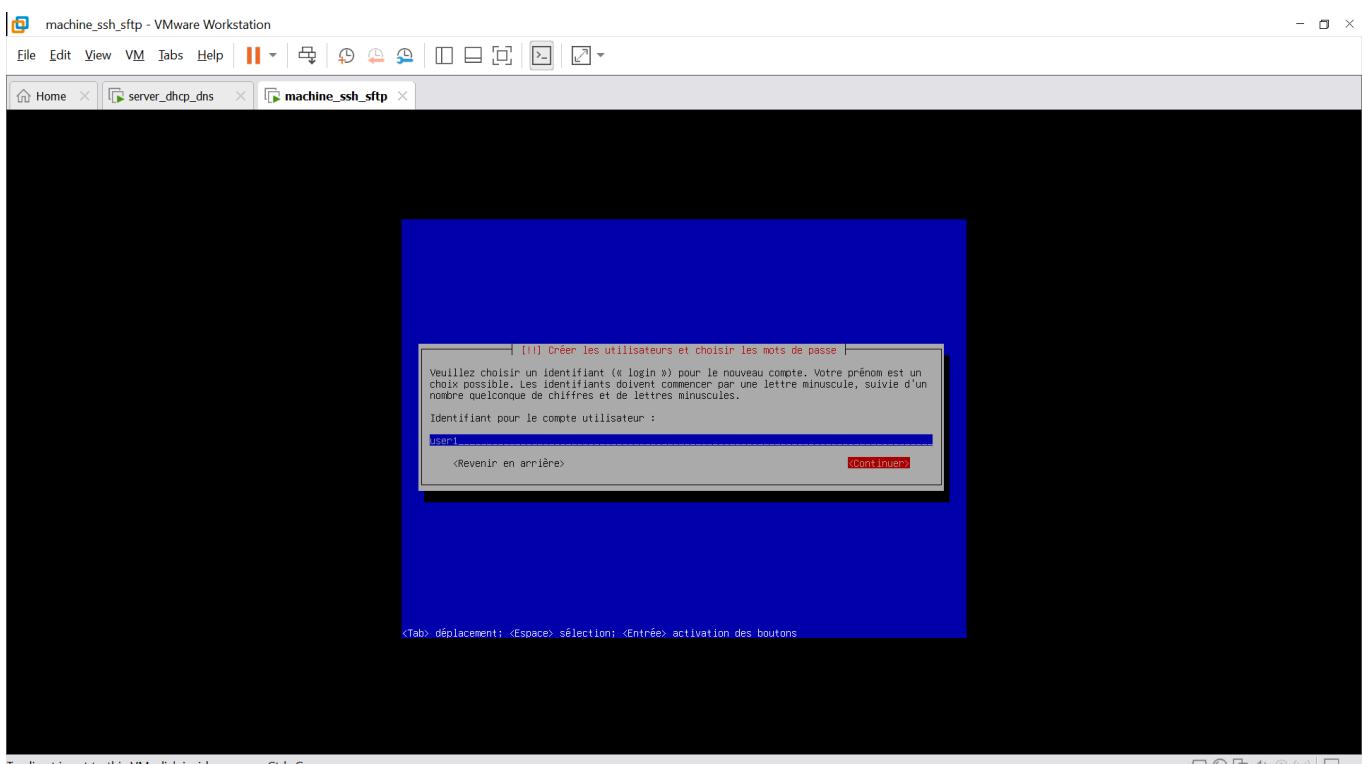
To direct input to this VM, click inside or press Ctrl+G.



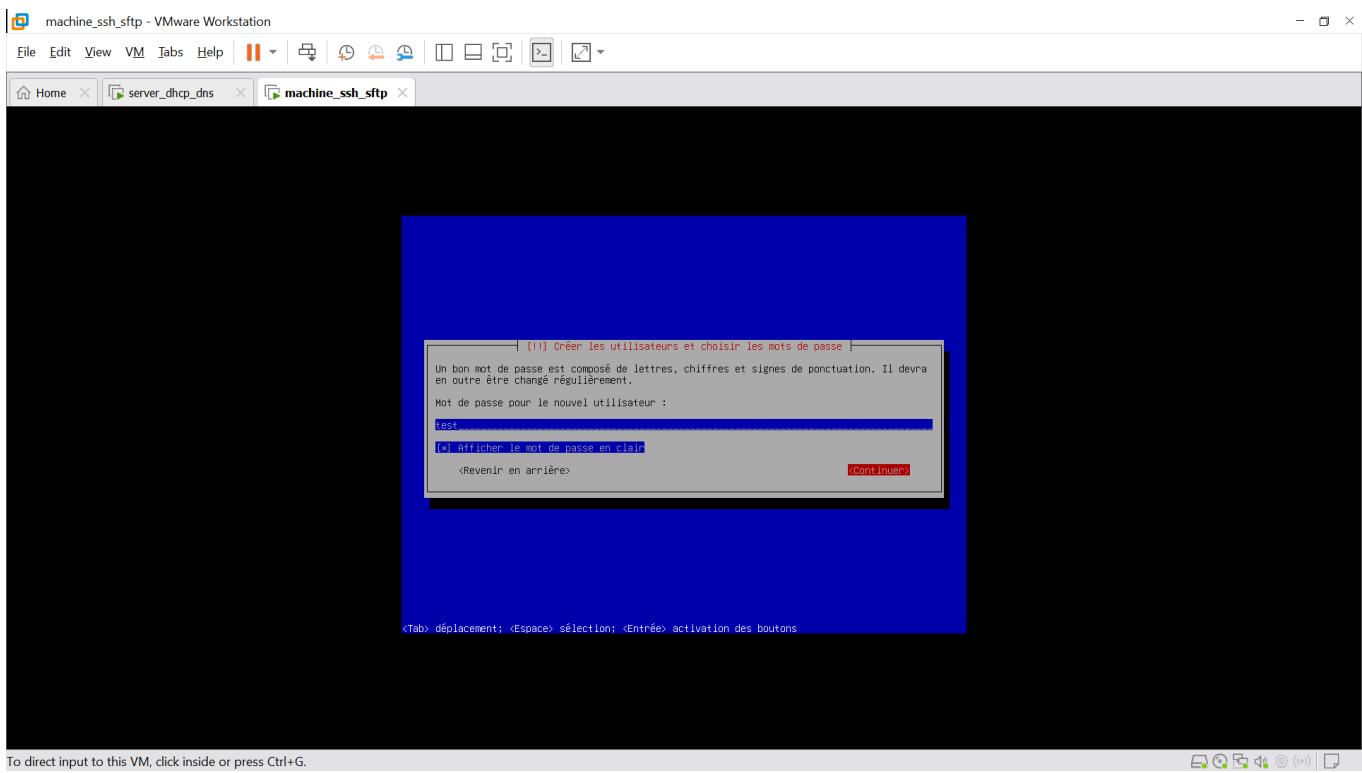
To direct input to this VM, click inside or press Ctrl+G.



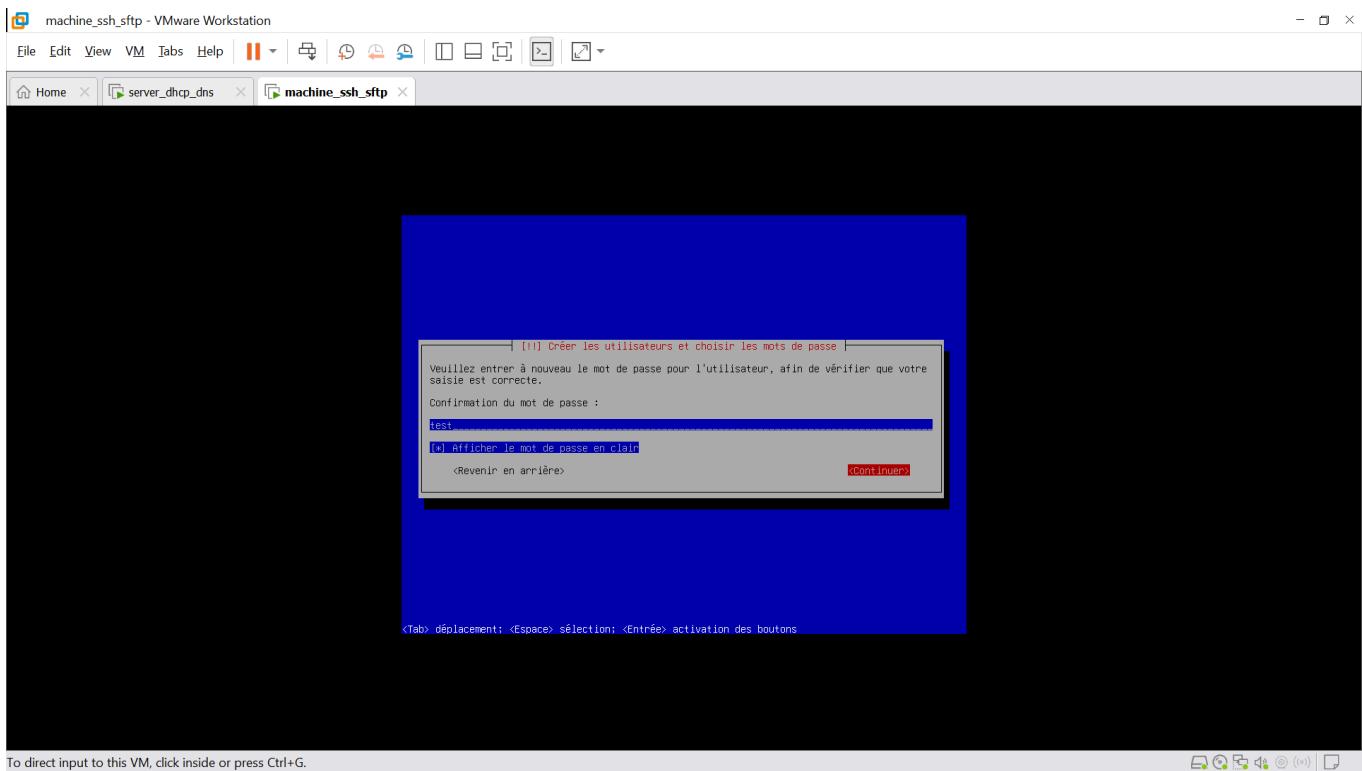
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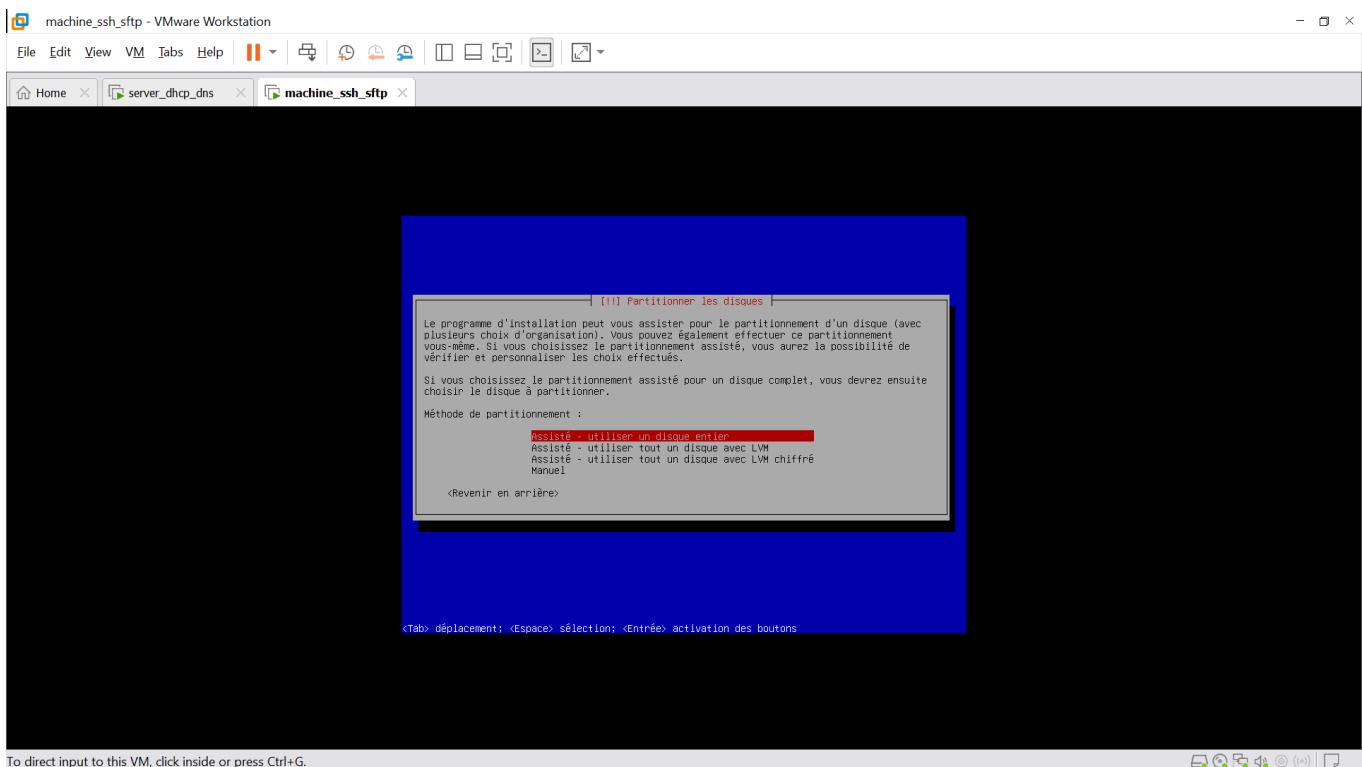
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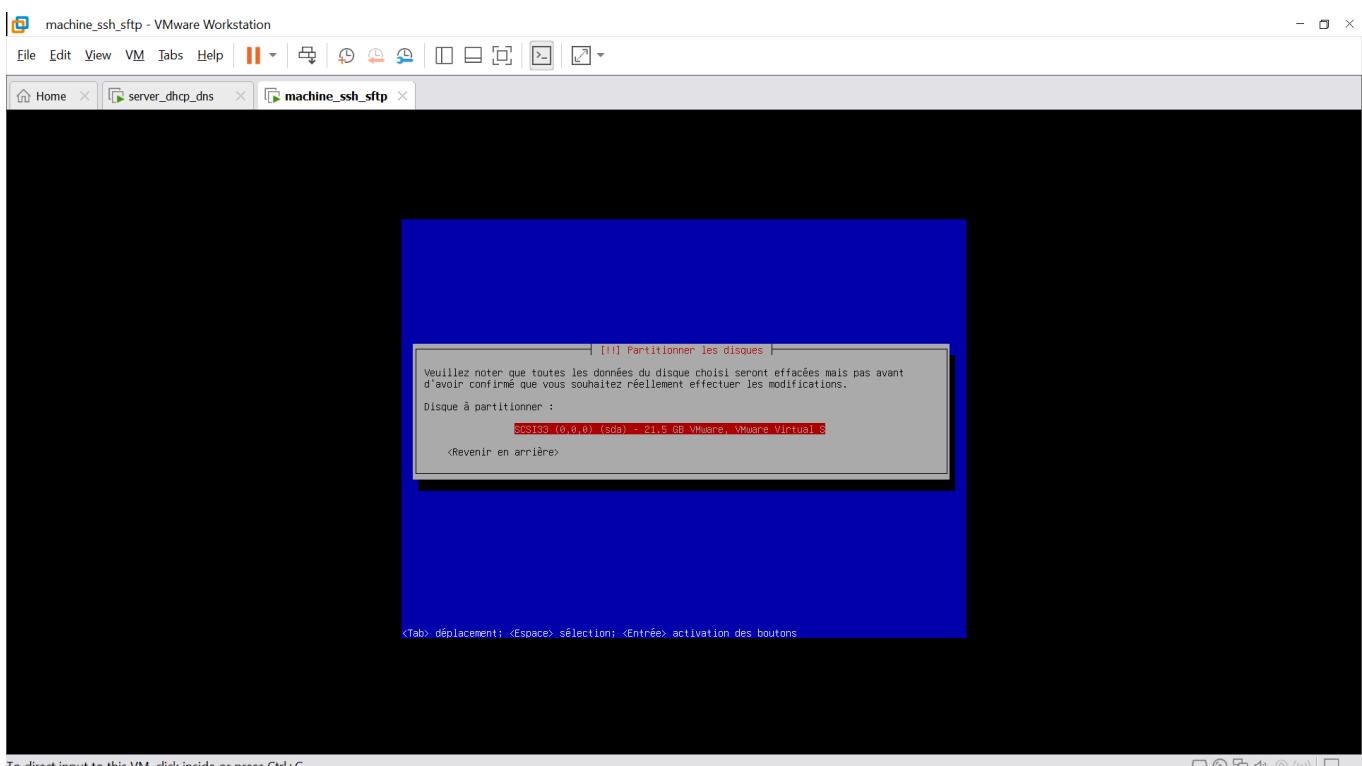
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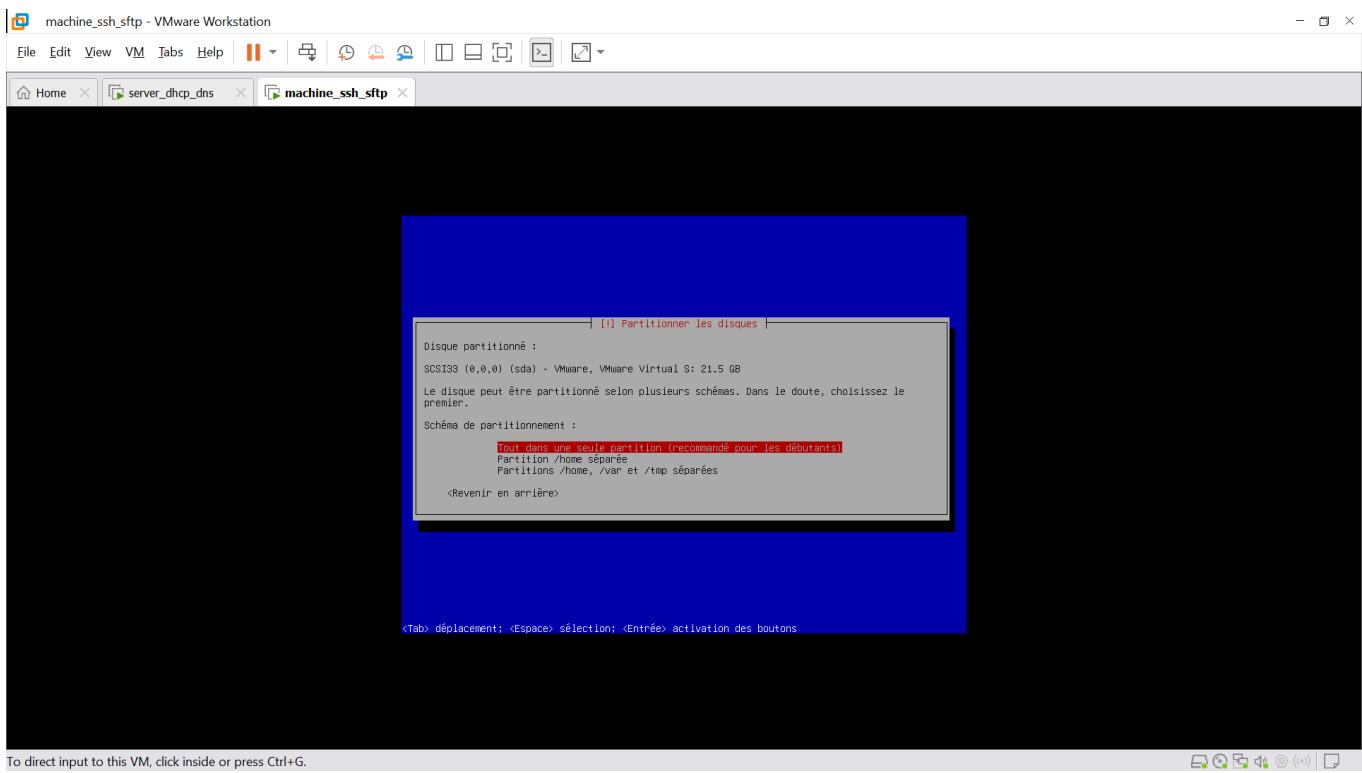
To direct input to this VM, click inside or press Ctrl+G.



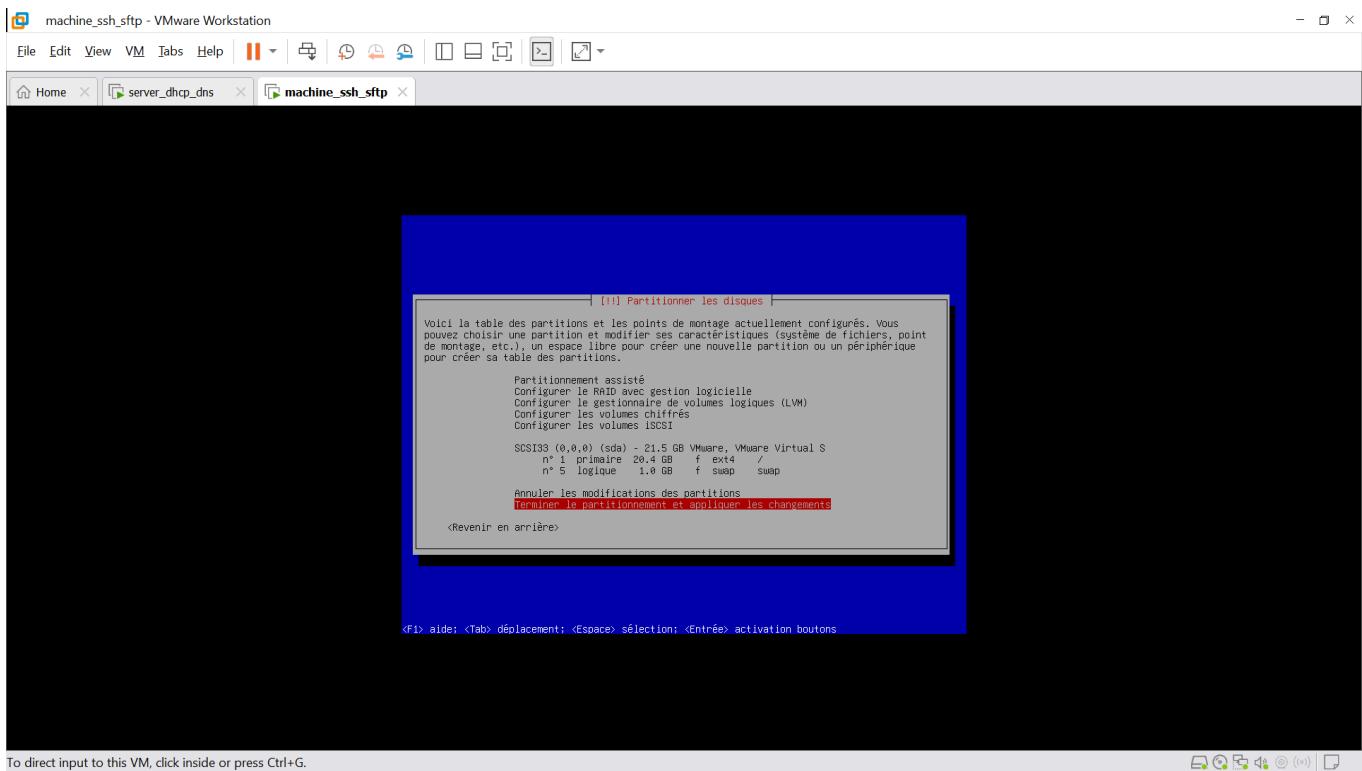
To direct input to this VM, click inside or press Ctrl+G.



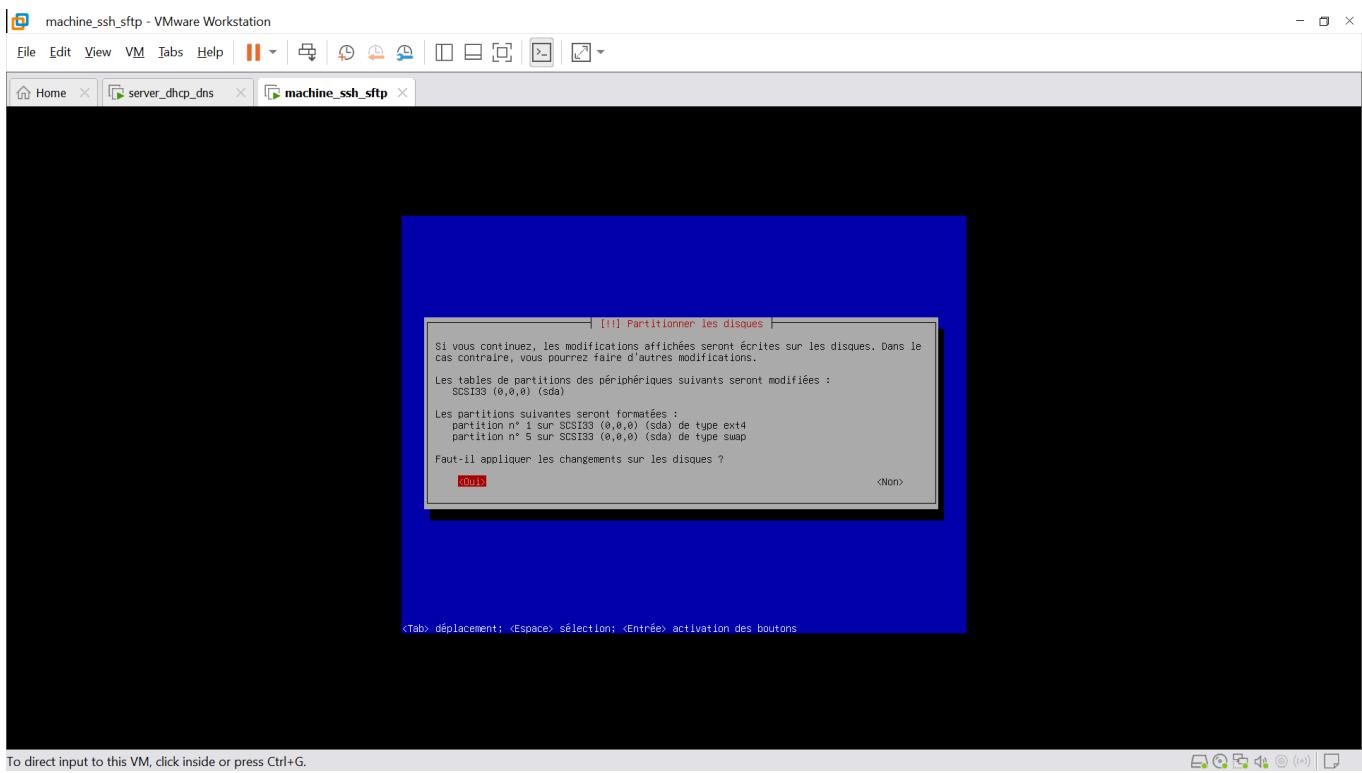
To direct input to this VM, click inside or press Ctrl+G.



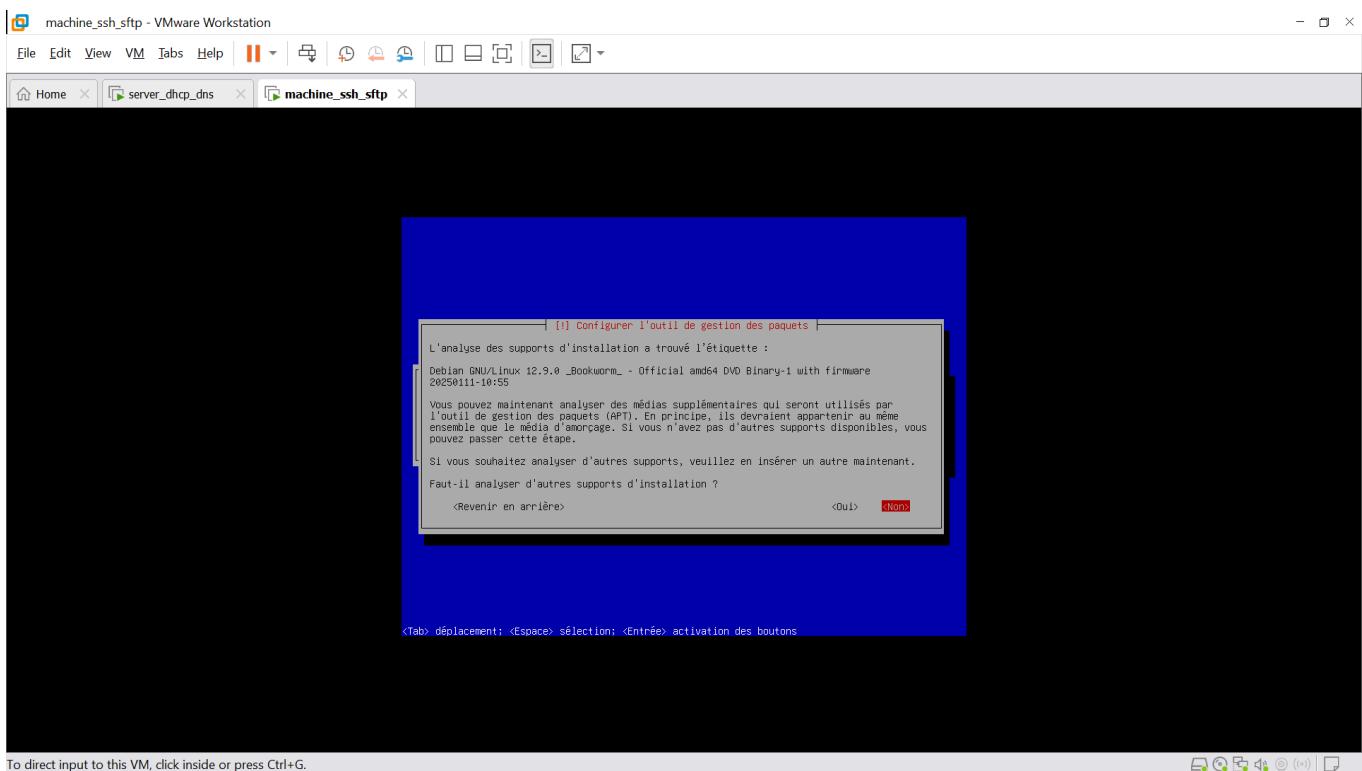
To direct input to this VM, click inside or press Ctrl+G.



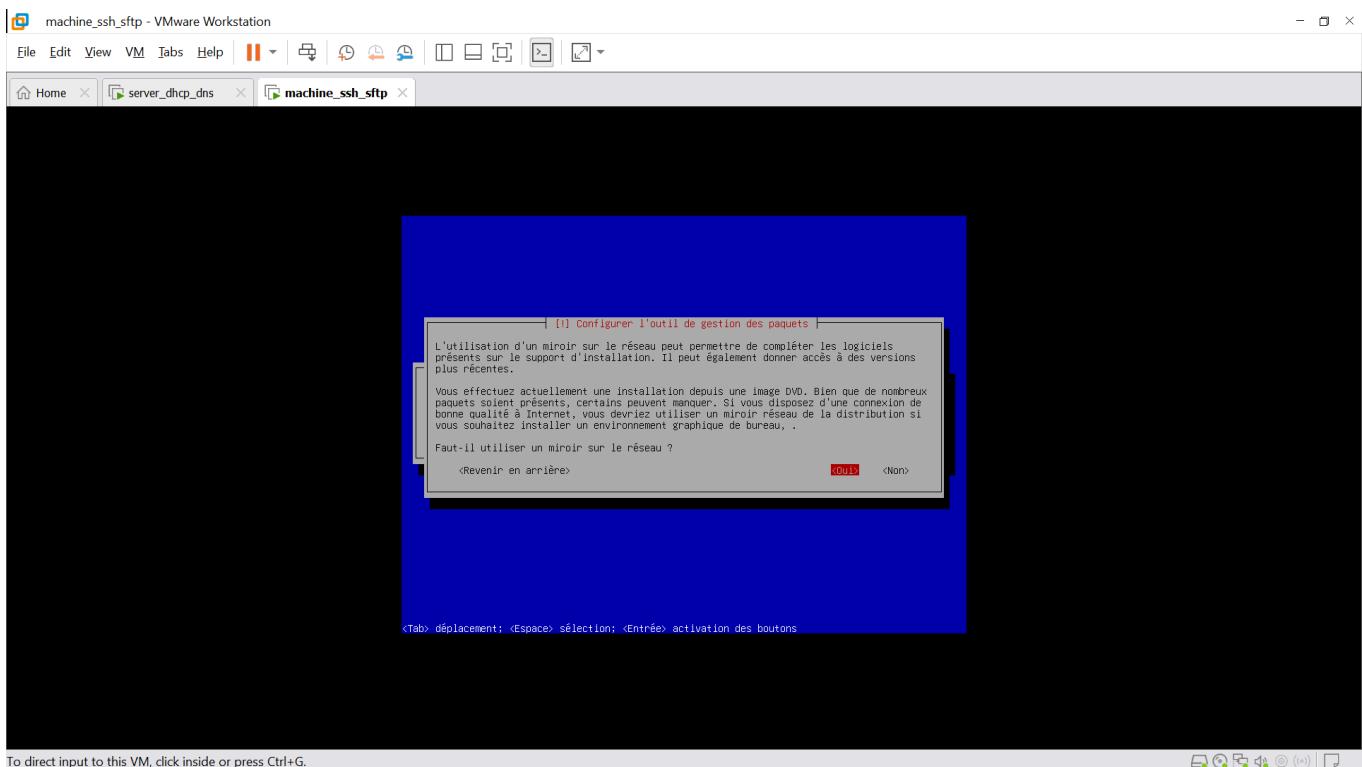
To direct input to this VM, click inside or press Ctrl+G.



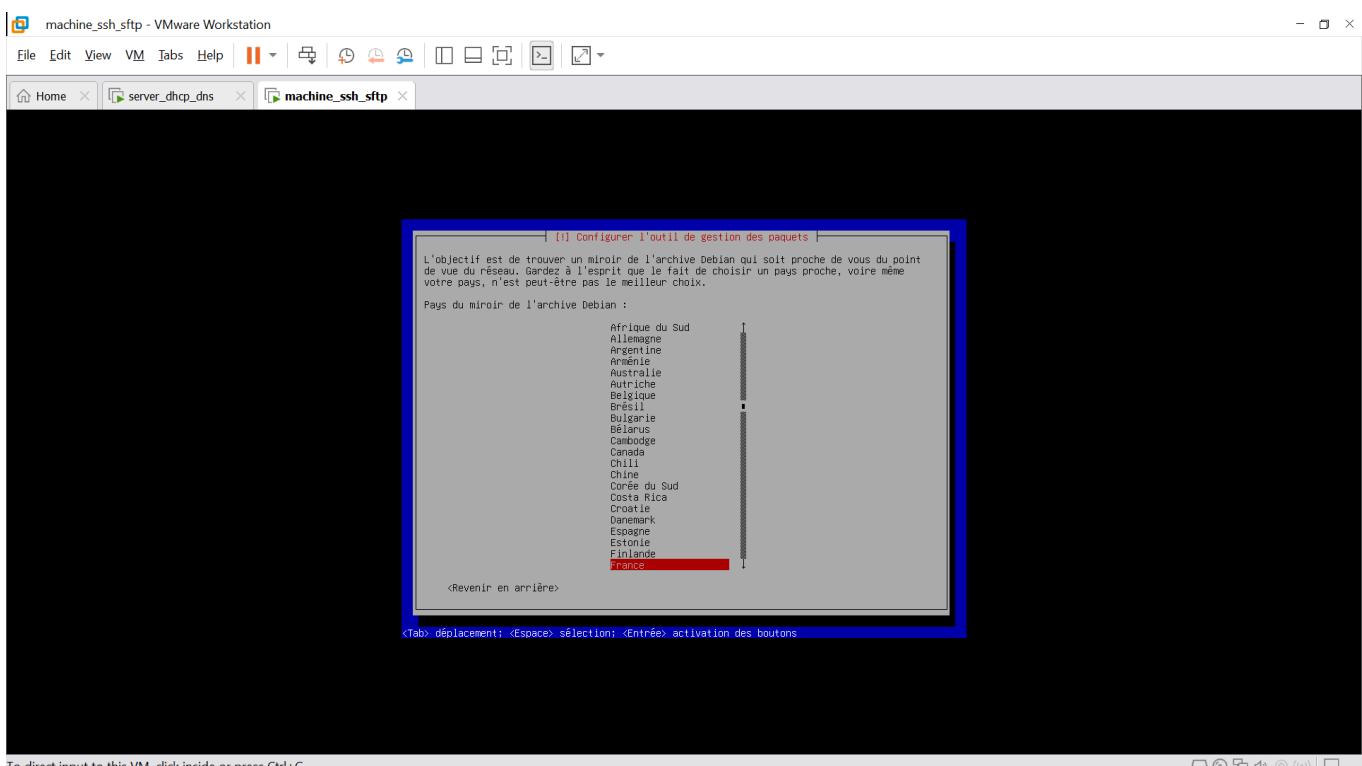
To direct input to this VM, click inside or press Ctrl+G.



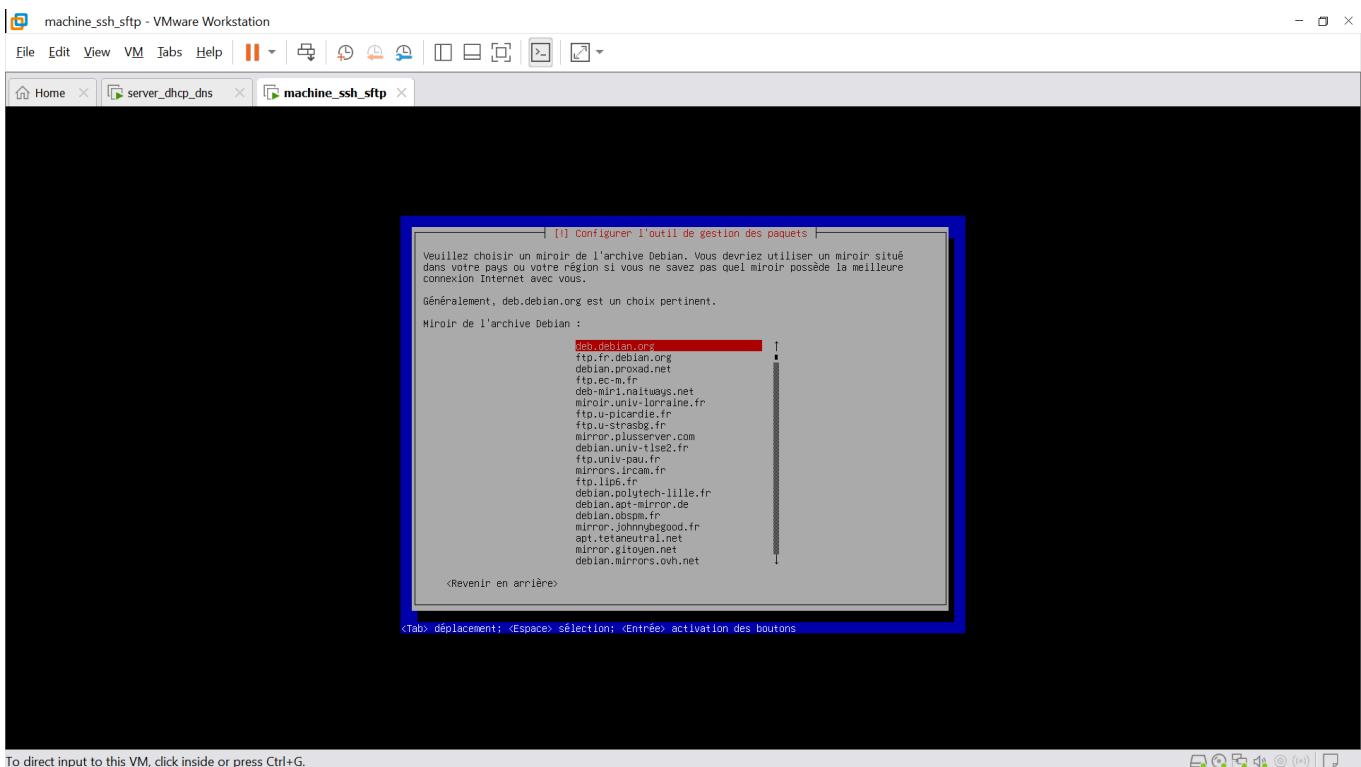
To direct input to this VM, click inside or press Ctrl+G.



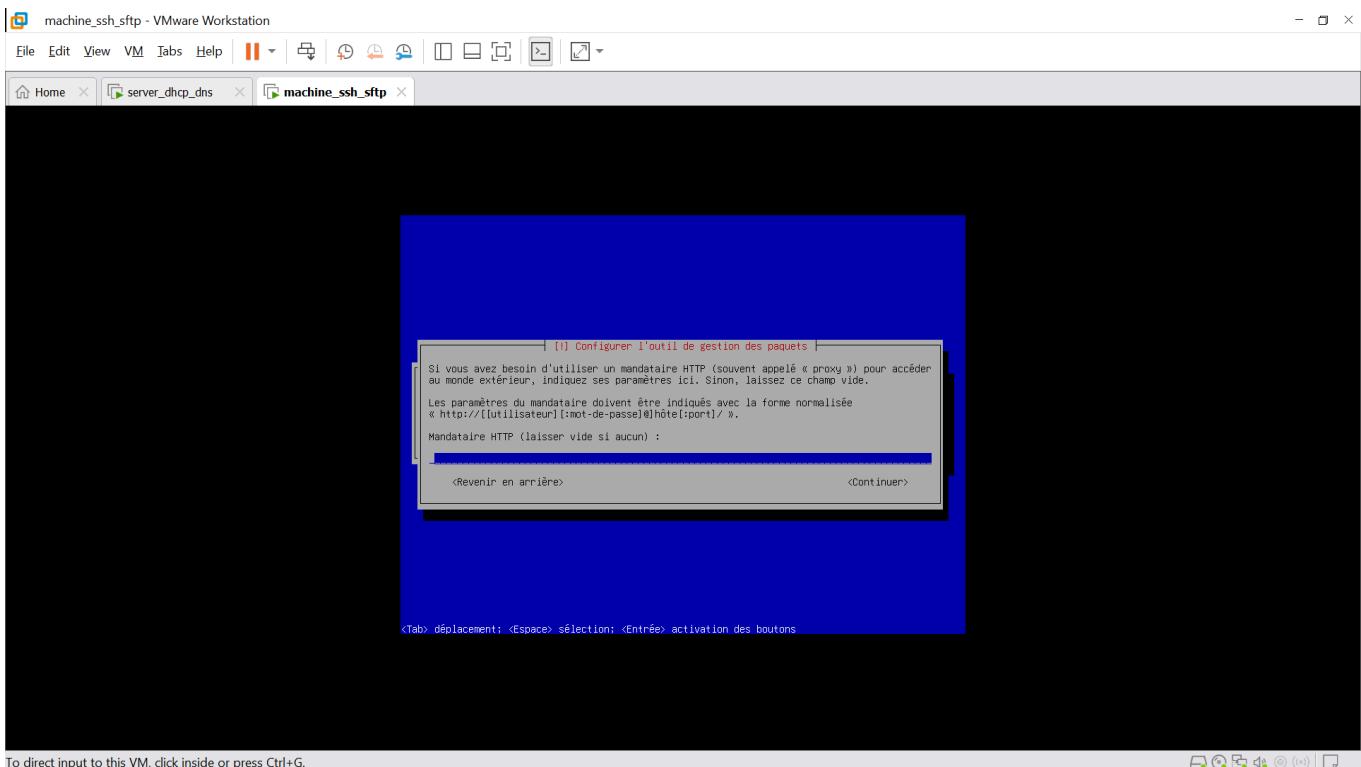
To direct input to this VM, click inside or press Ctrl+G.



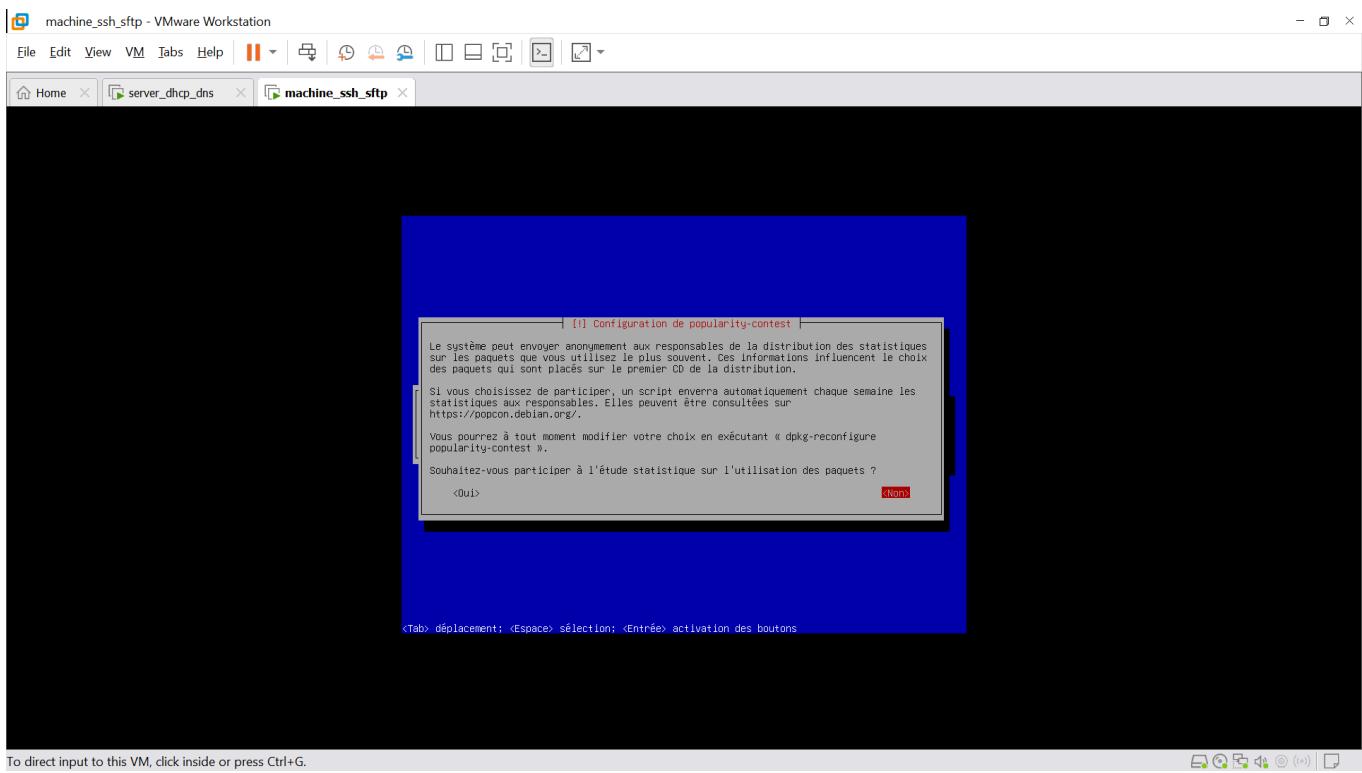
To direct input to this VM, click inside or press Ctrl+G.



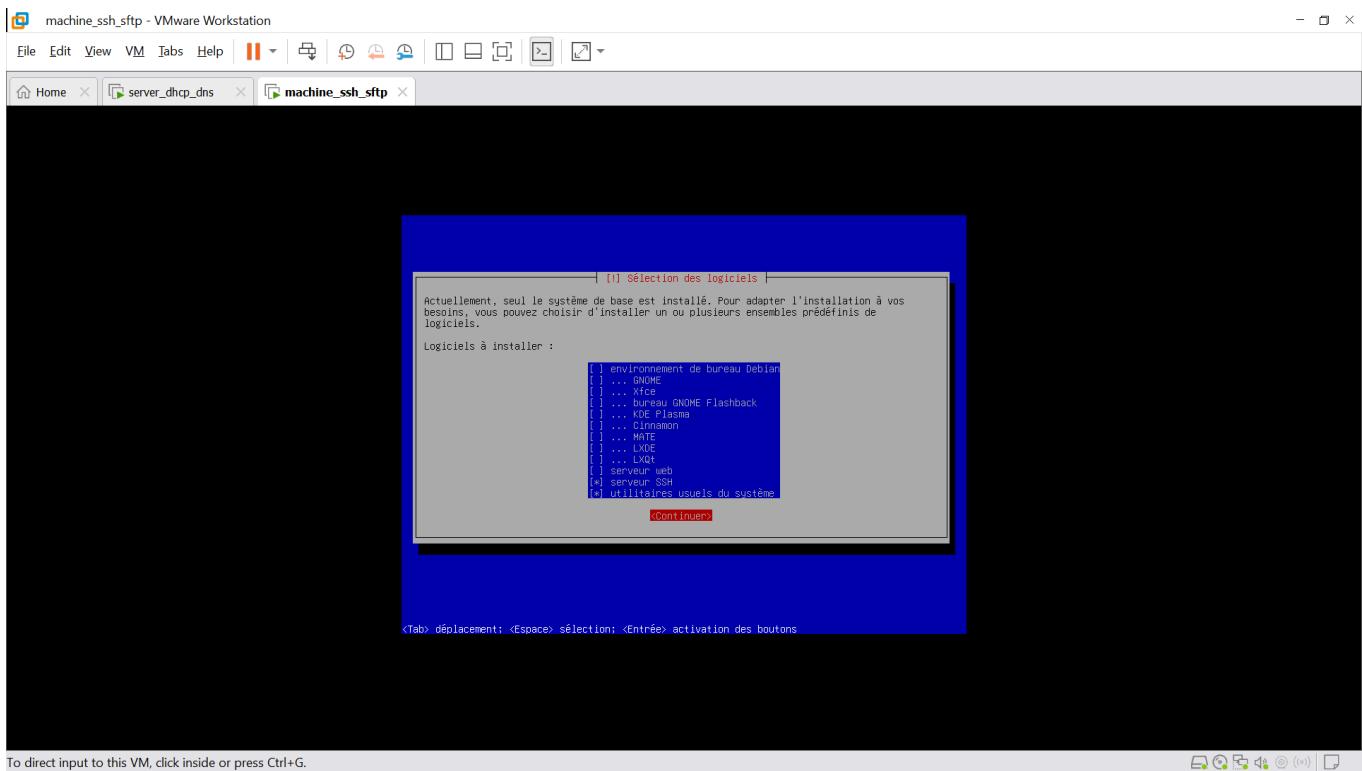
To direct input to this VM, click inside or press Ctrl+G.



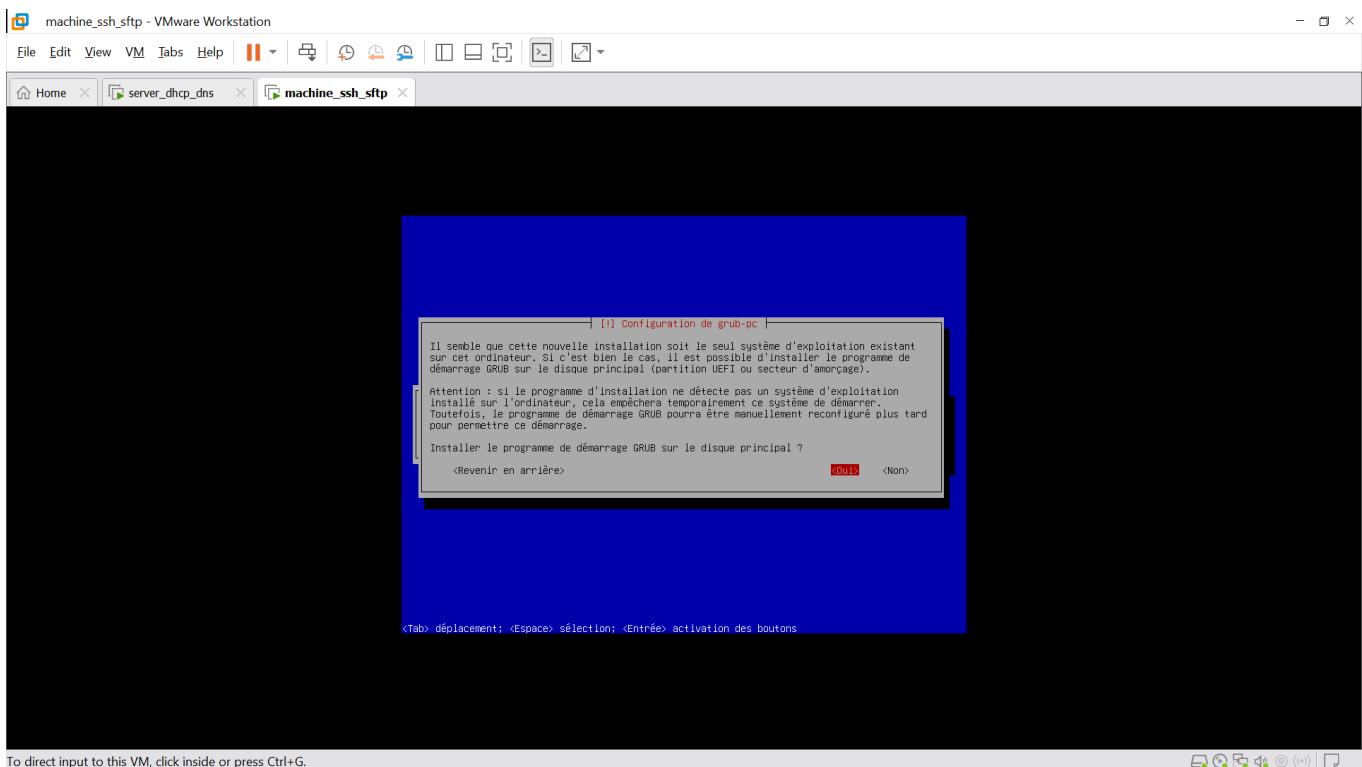
To direct input to this VM, click inside or press Ctrl+G.



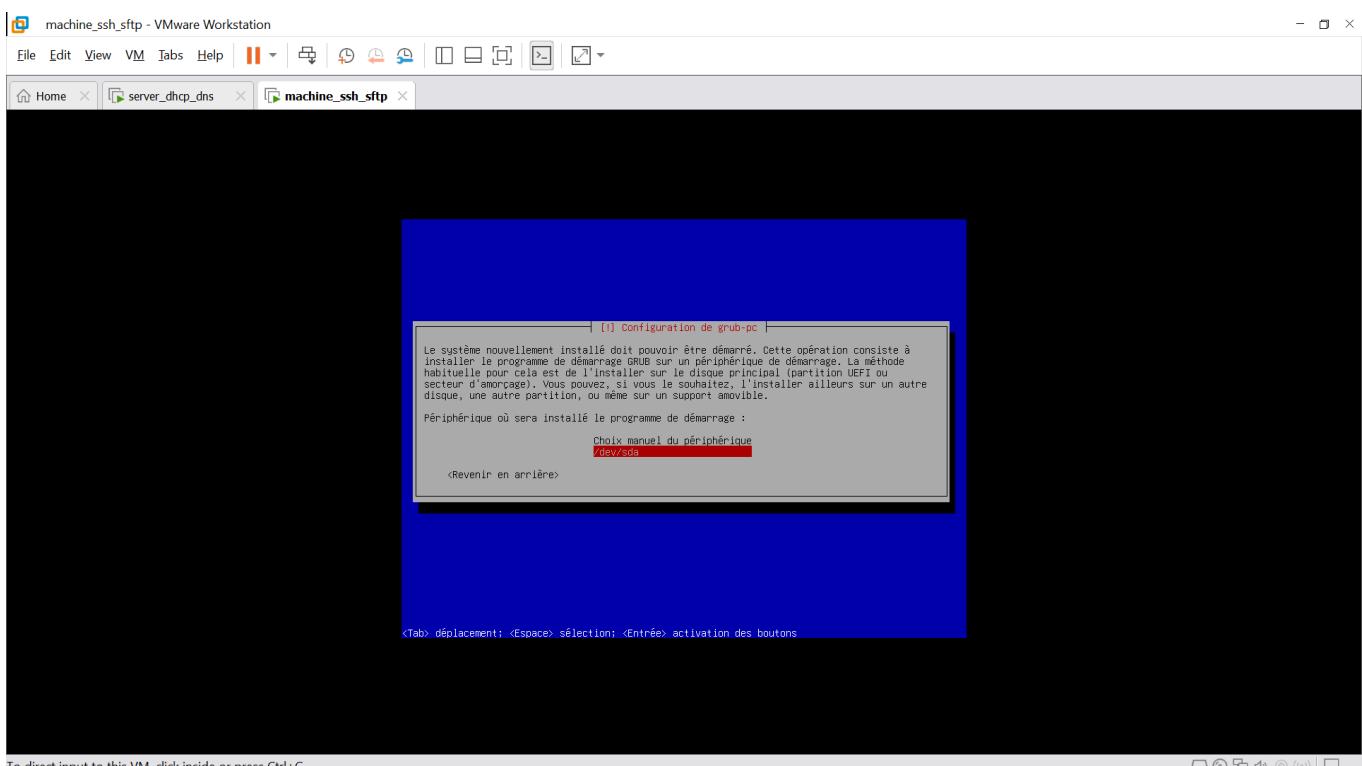
To direct input to this VM, click inside or press Ctrl+G.



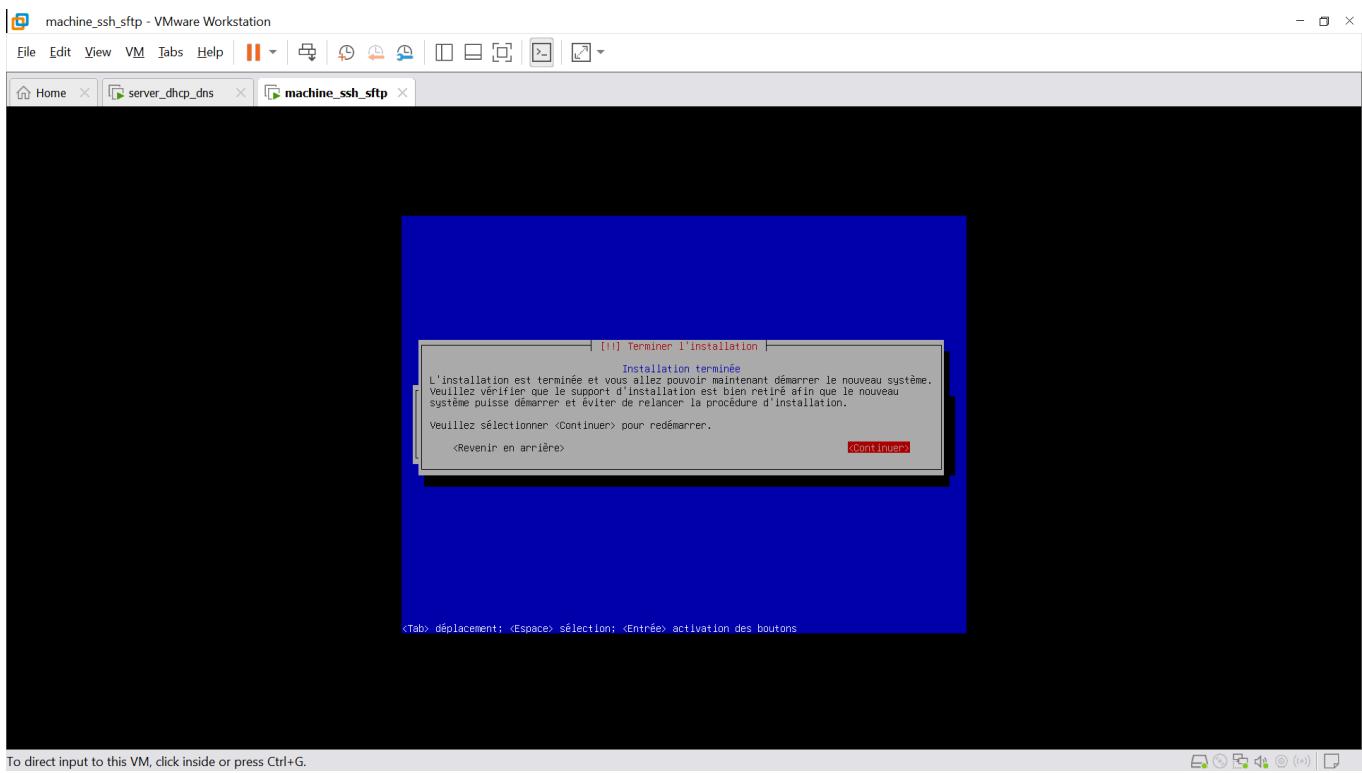
To direct input to this VM, click inside or press Ctrl+G.



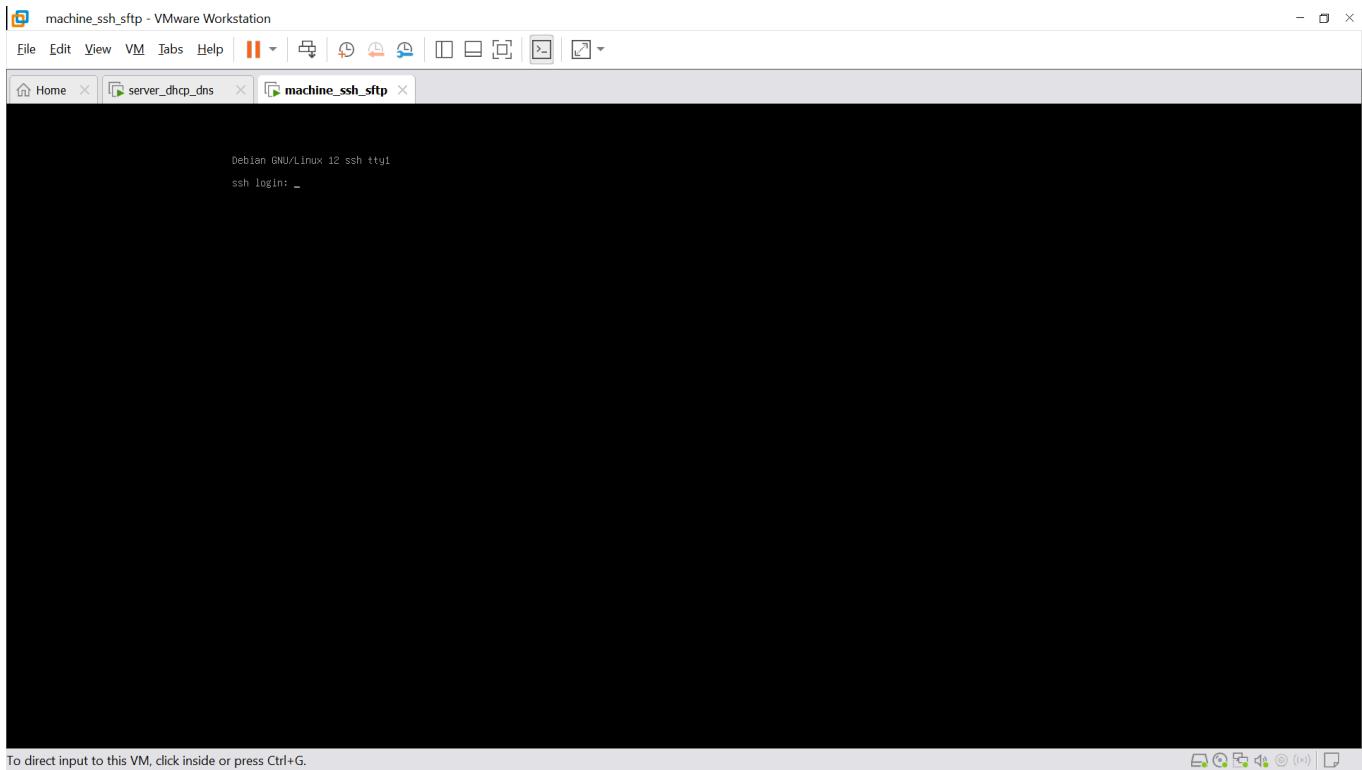
To direct input to this VM, click inside or press Ctrl+G.

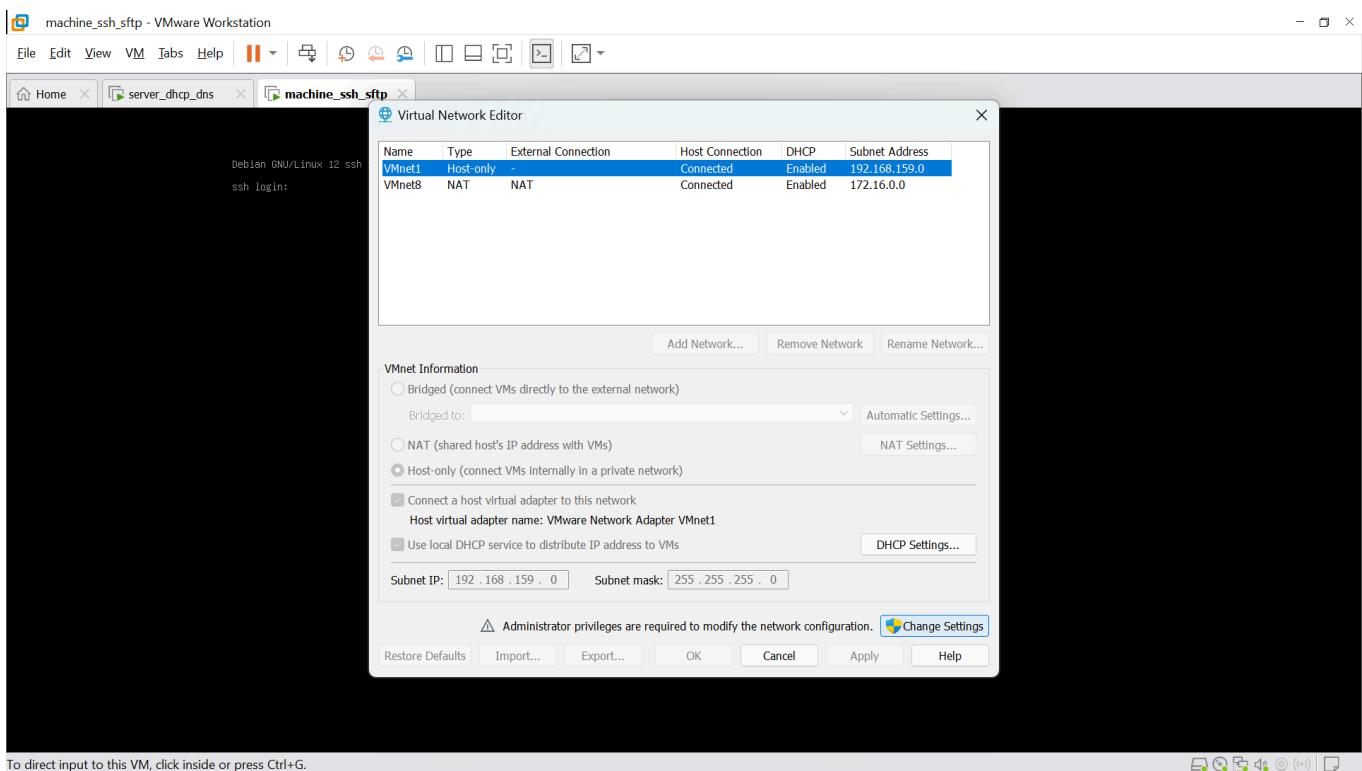
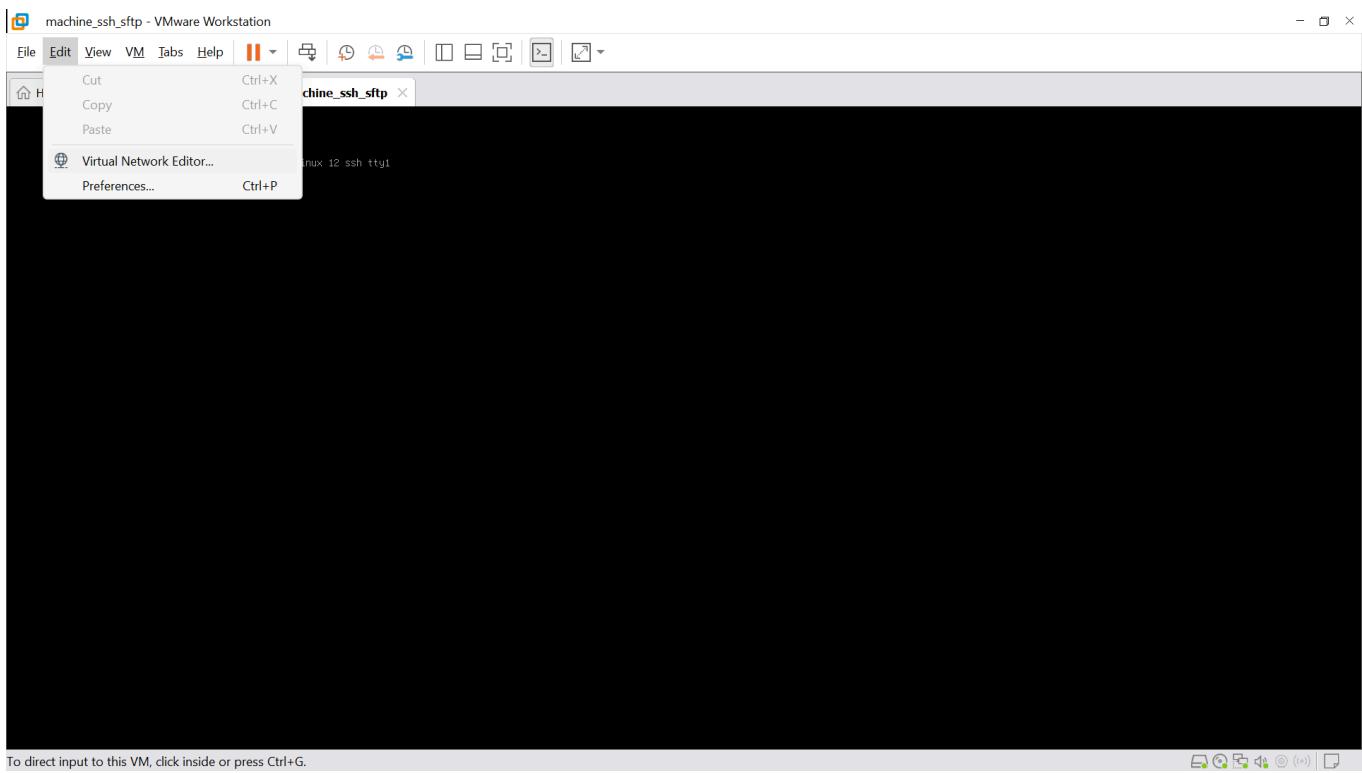


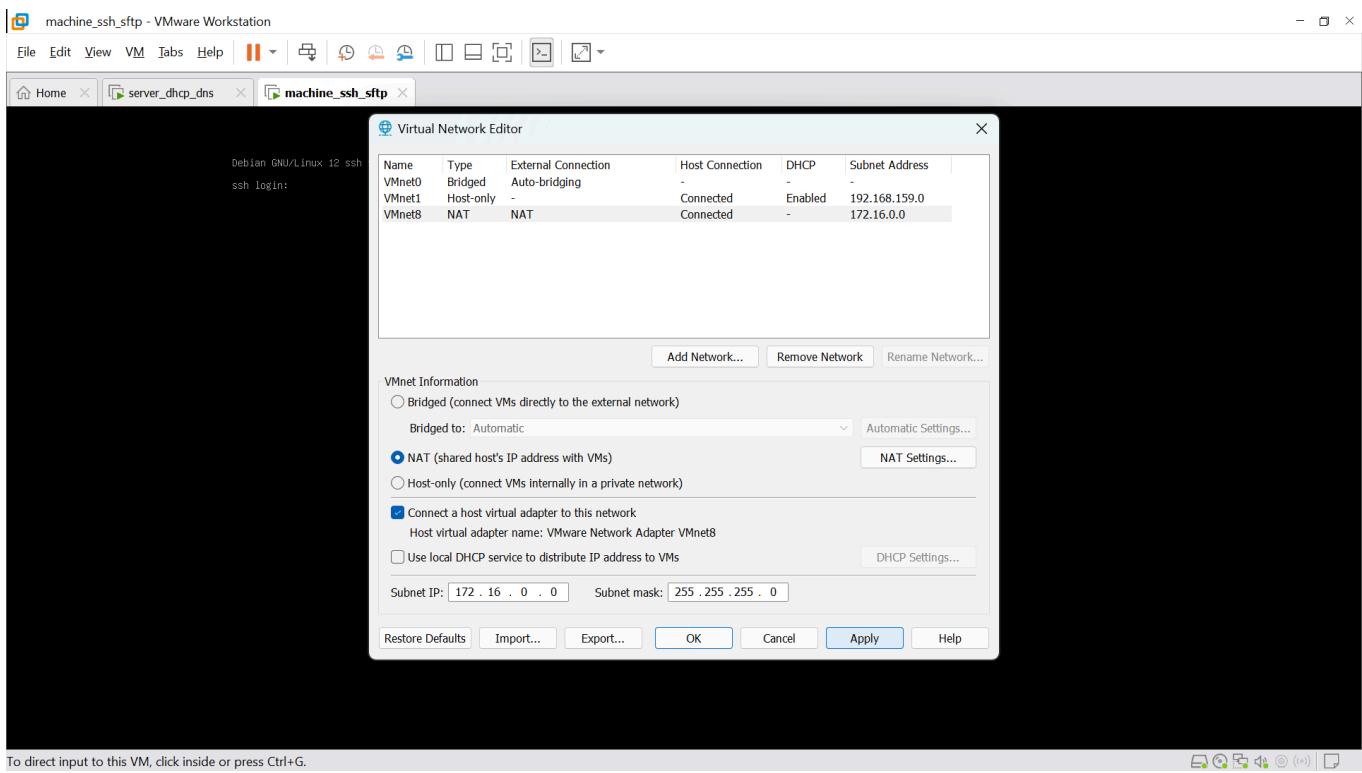
To direct input to this VM, click inside or press Ctrl+G.



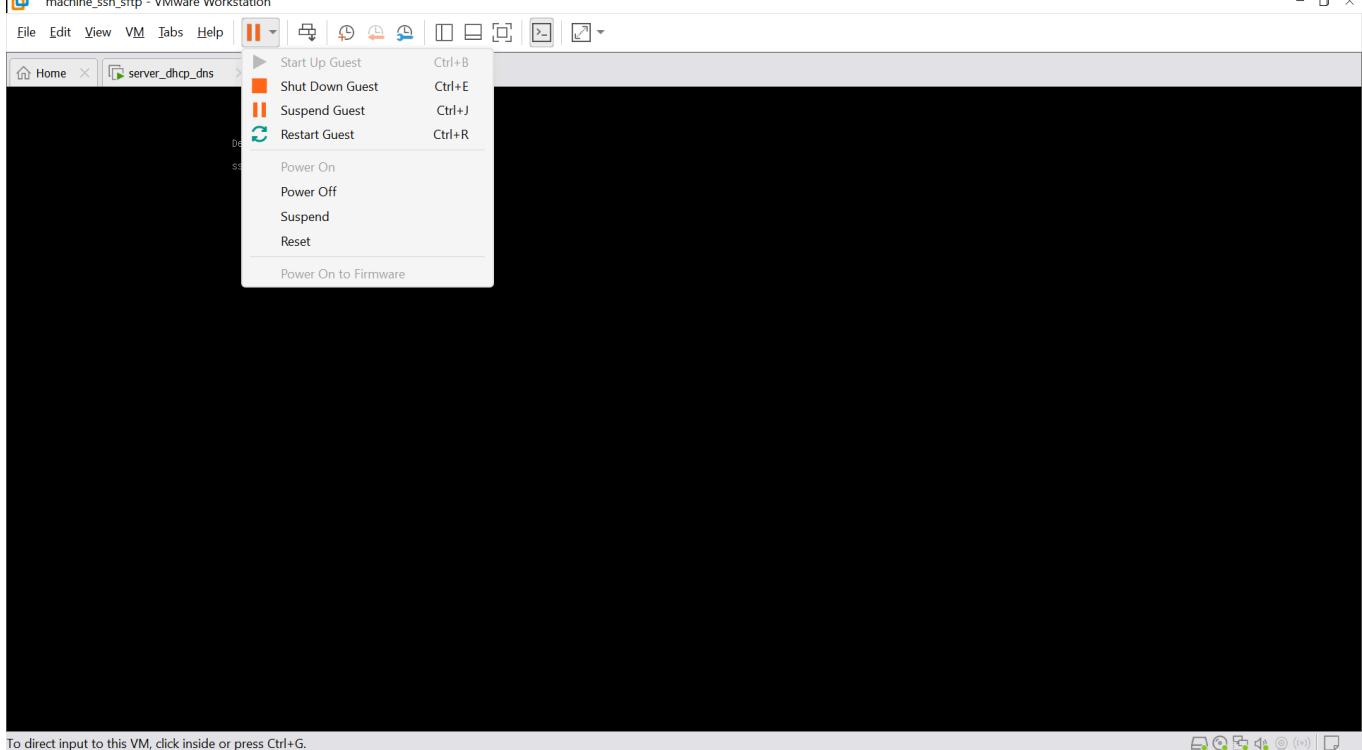
Etape 7 : Test de fonctionnement du serveur DHCP

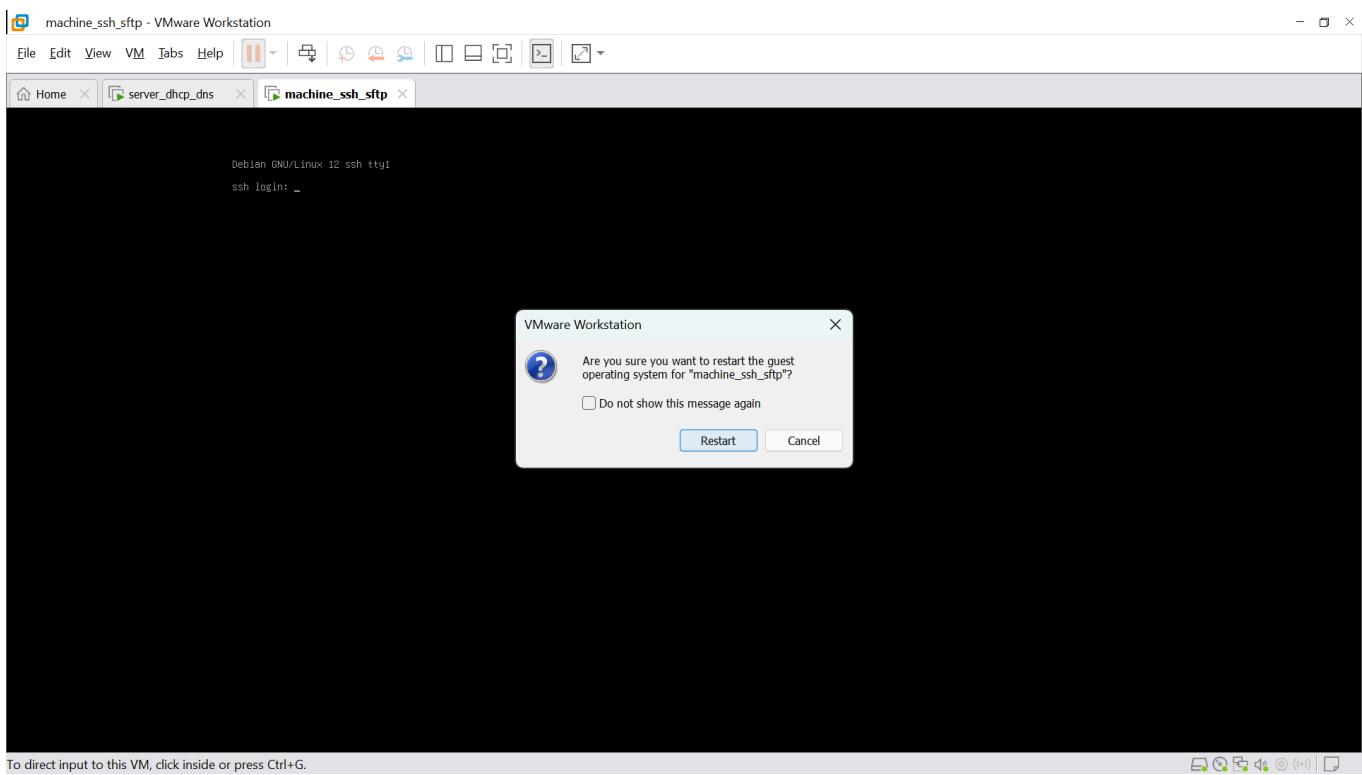
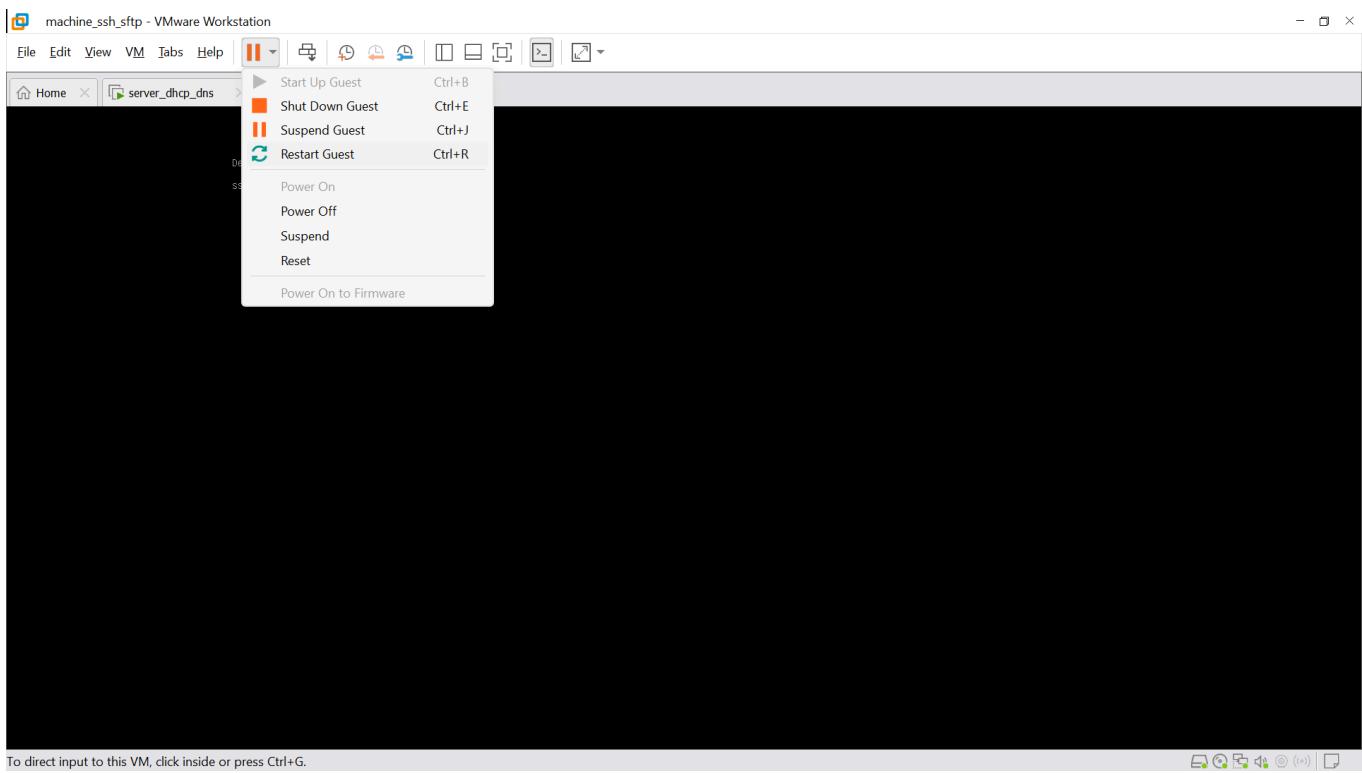


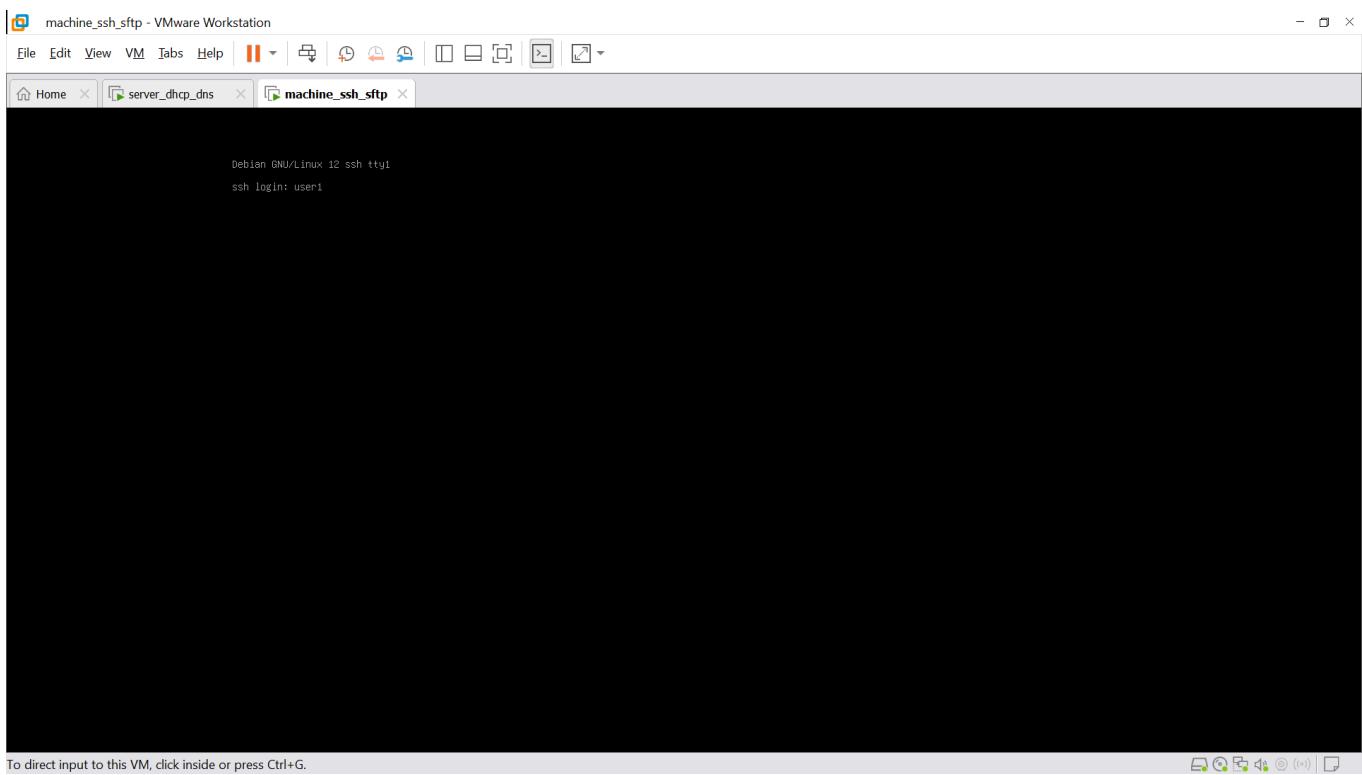
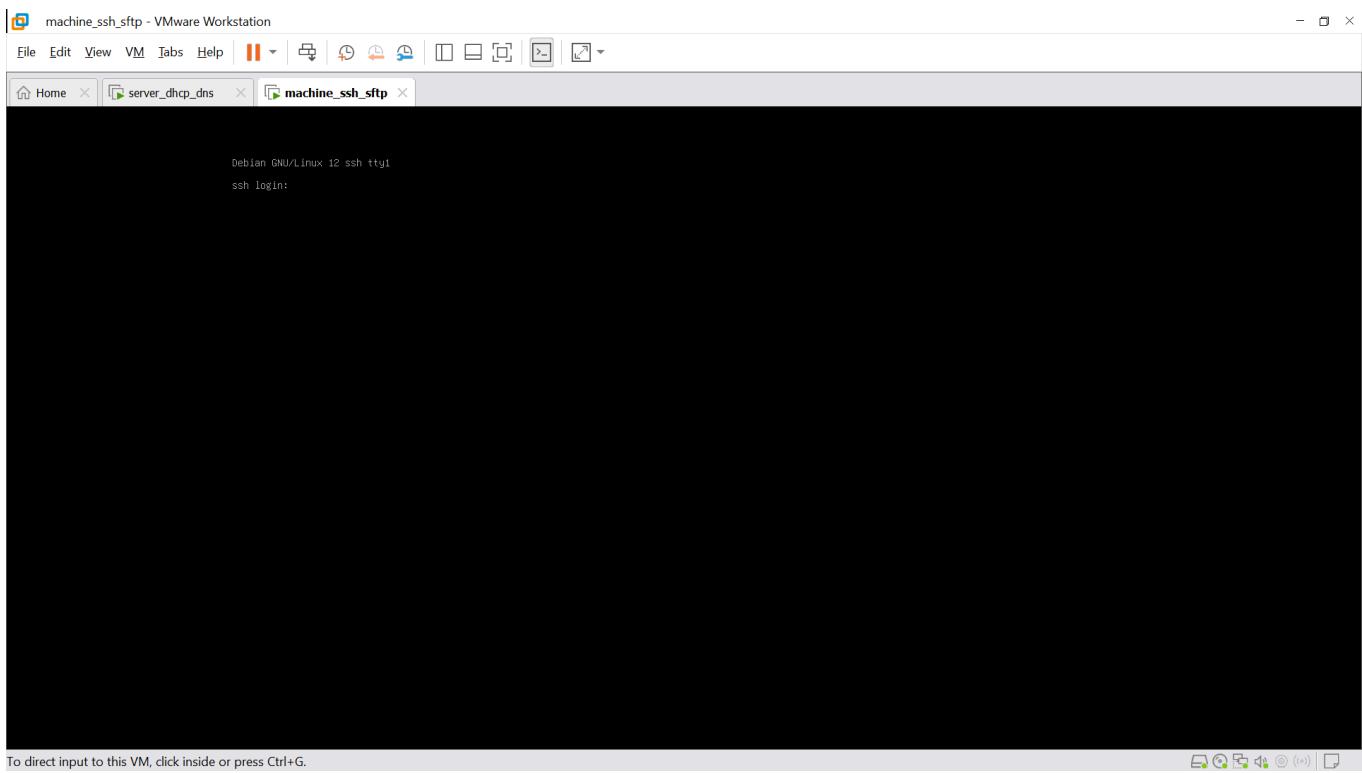


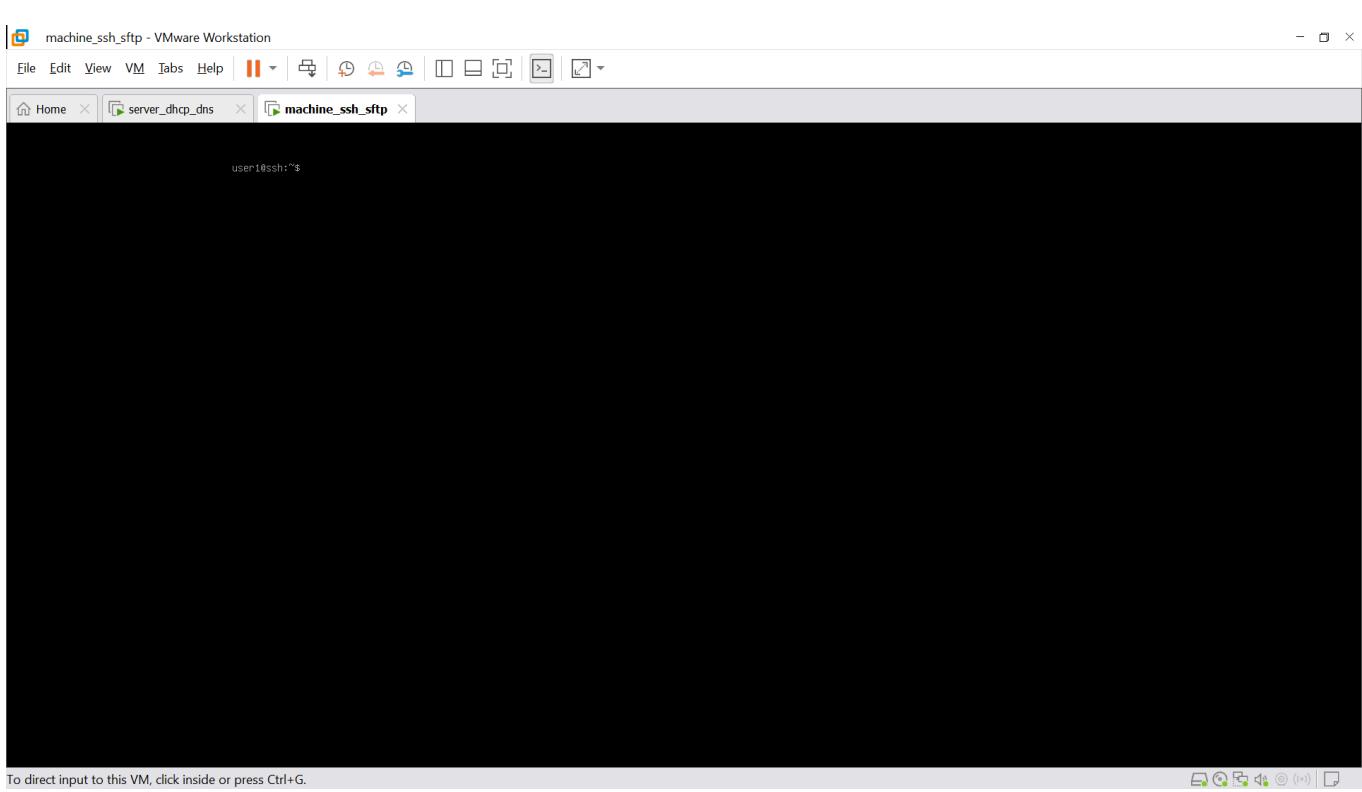
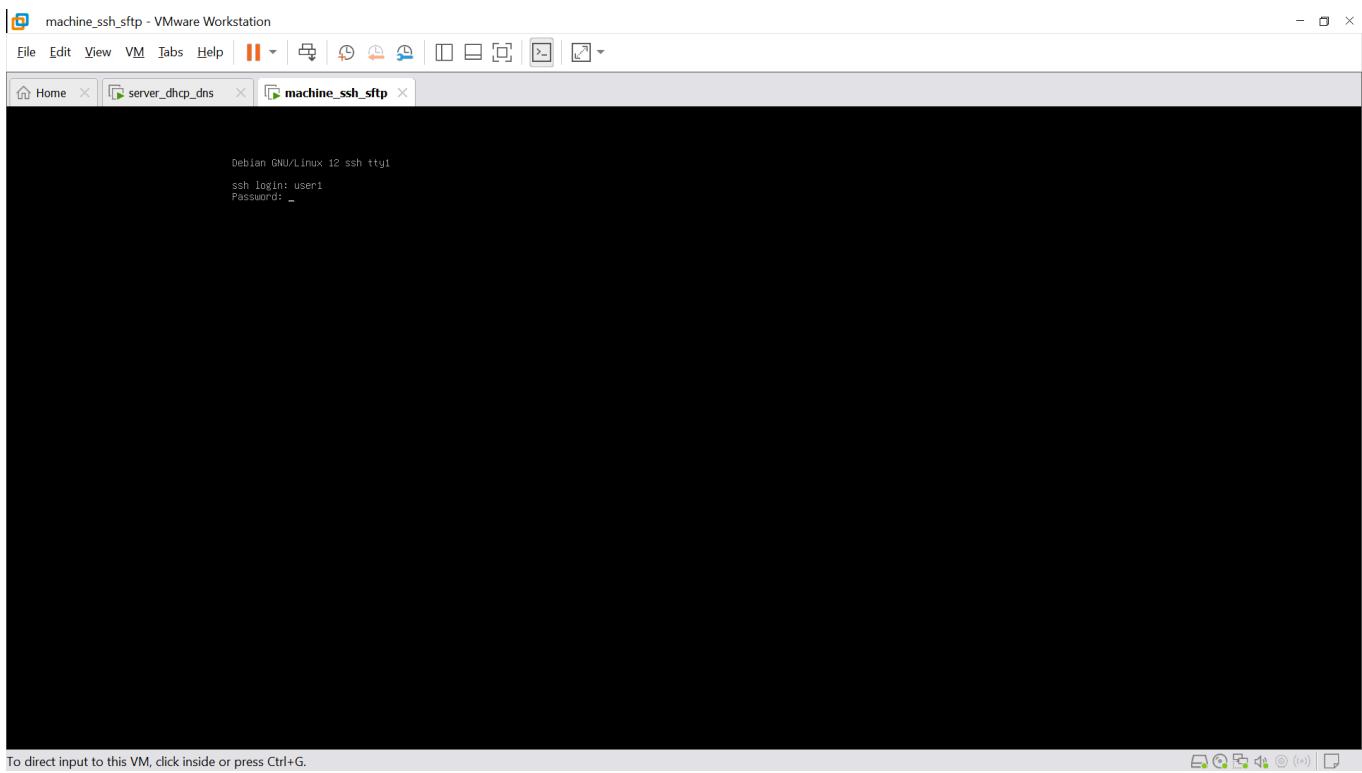


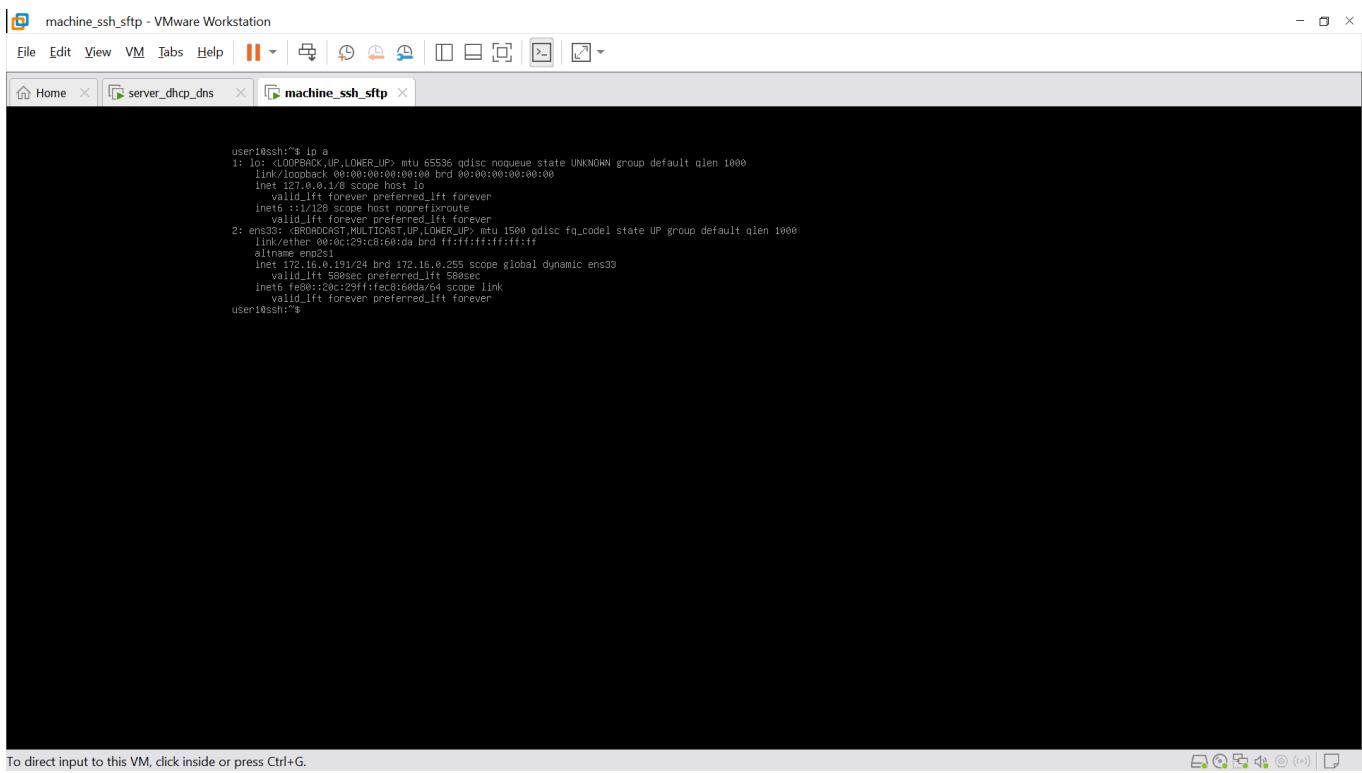
To direct input to this VM, click inside or press Ctrl+G.





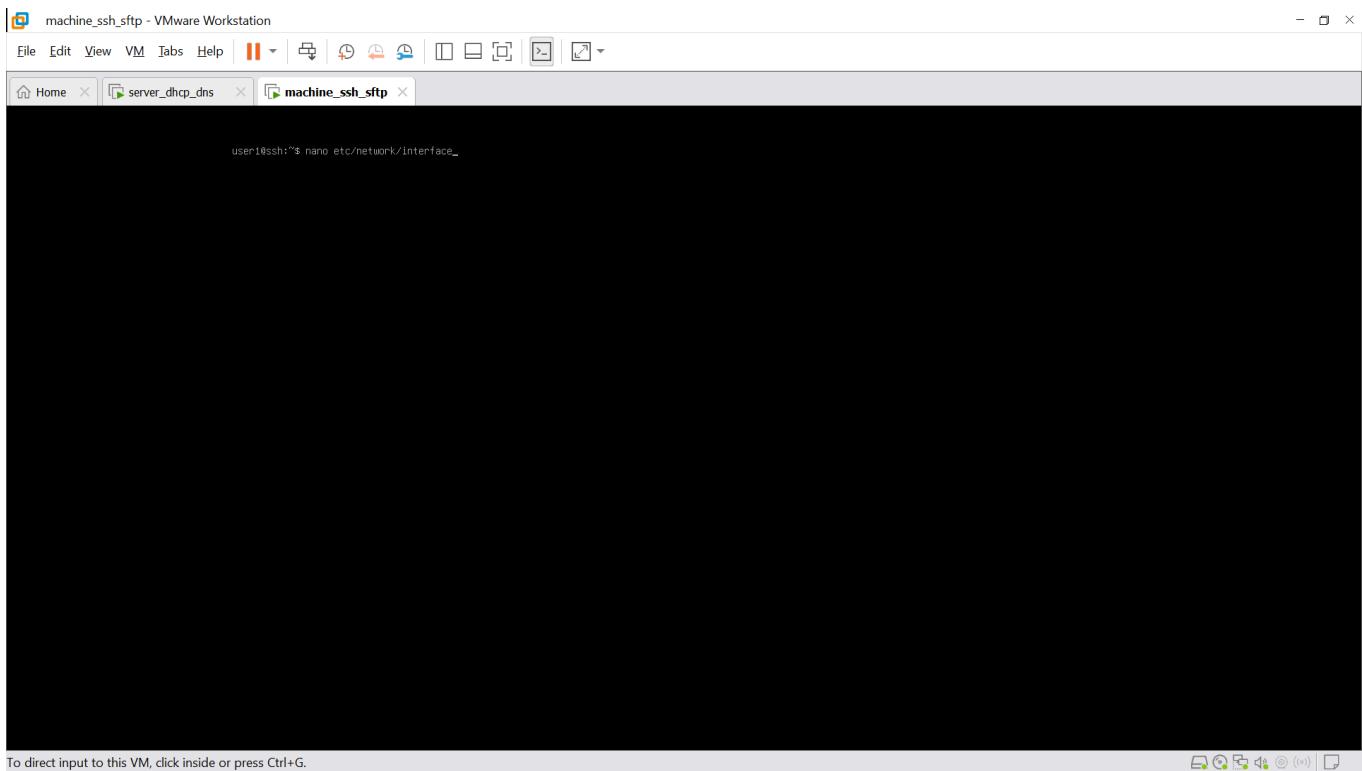






```
user1@ssh:~$ ip a
1: ens3:   
    state UNKNOWN group default qlen 1000  
        link/ether 00:0c:29:cd:6d:da brd ff:ff:ff:ff:ff:ff  
        inet 172.16.0.1/24 brd 172.16.0.255 scope global dynamic ens3  
            valid_lft forever preferred_lft forever  
            link/ether 00:0c:29:cd:6d:da brd ff:ff:ff:ff:ff:ff  
            altname ens3  
            altname ens31  
            inet 172.16.0.191/24 brd 172.16.0.255 scope global dynamic ens33  
                valid_lft 580sec preferred_lft 580sec  
                link/ether fe:80::20c:29ff:fe00:0/64 scope link  
                    valid_lft forever preferred_lft forever  
user1@ssh:~$
```

To direct input to this VM, click inside or press Ctrl+G.



```
user1@ssh:~$ nano etc/network/interface
```

To direct input to this VM, click inside or press Ctrl+G.

machine_ssh_sftp - VMware Workstation

File Edit View VM Help | |

Home server_dhcp_dns machine_ssh_sftp

```
GNU nano 7.2                               /etc/network/interfaces
# THIS file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
source /etc/network/interfaces.d/
# The loopback network interface
auto lo
iface lo inet loopback
# The primary network interface
allow-hotplug ens33
iface ens33 inet dhcp
```

[Le fichier « /etc/network/interfaces » n'est pas accessible en écriture.]

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To direct input to this VM, click inside or press Ctrl+G.

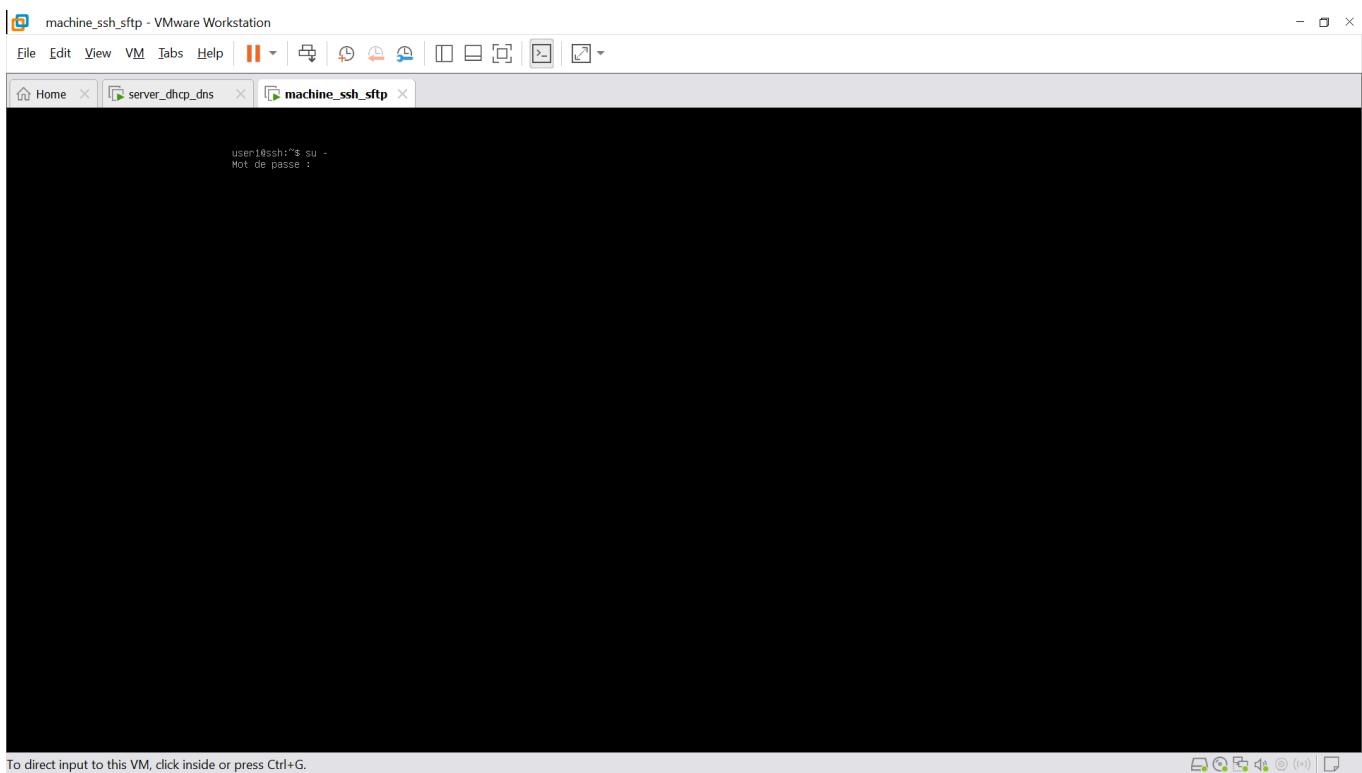
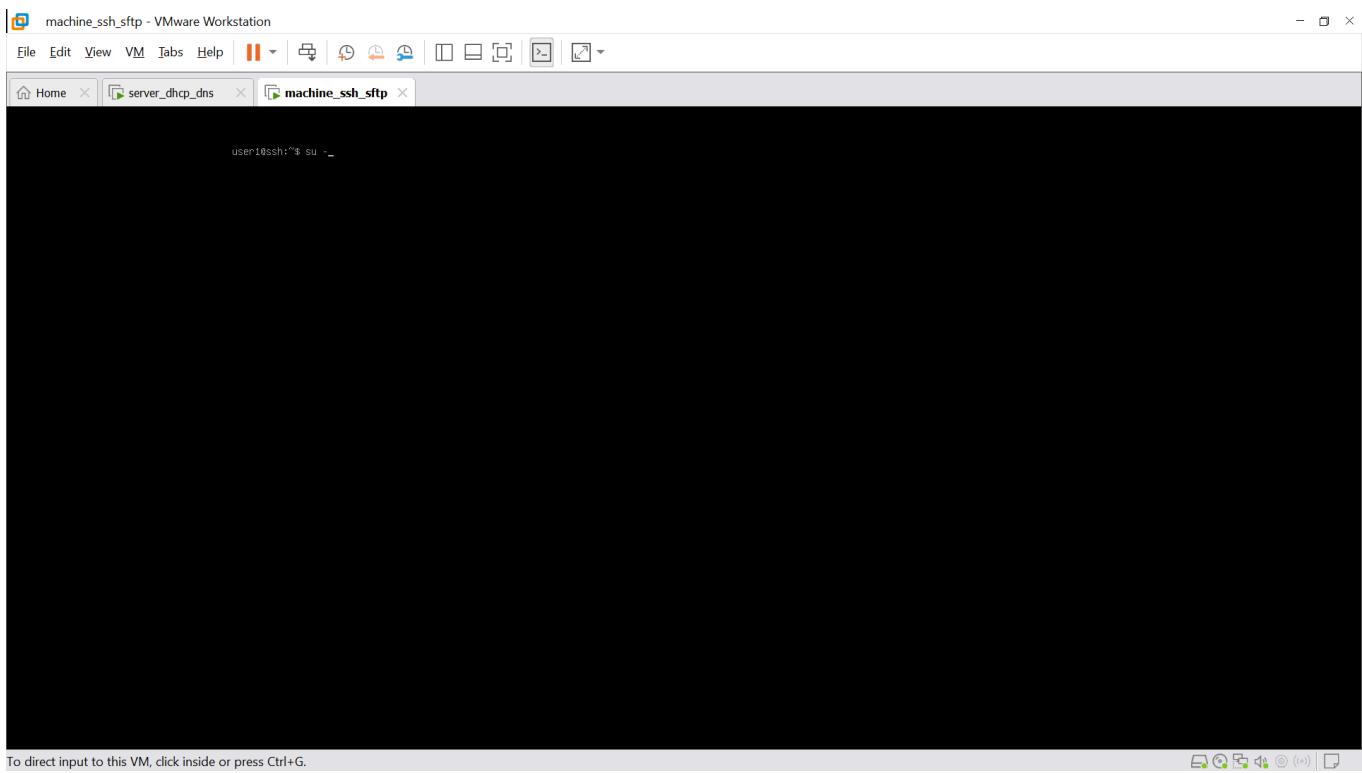
machine_ssh_sftp - VMware Workstation

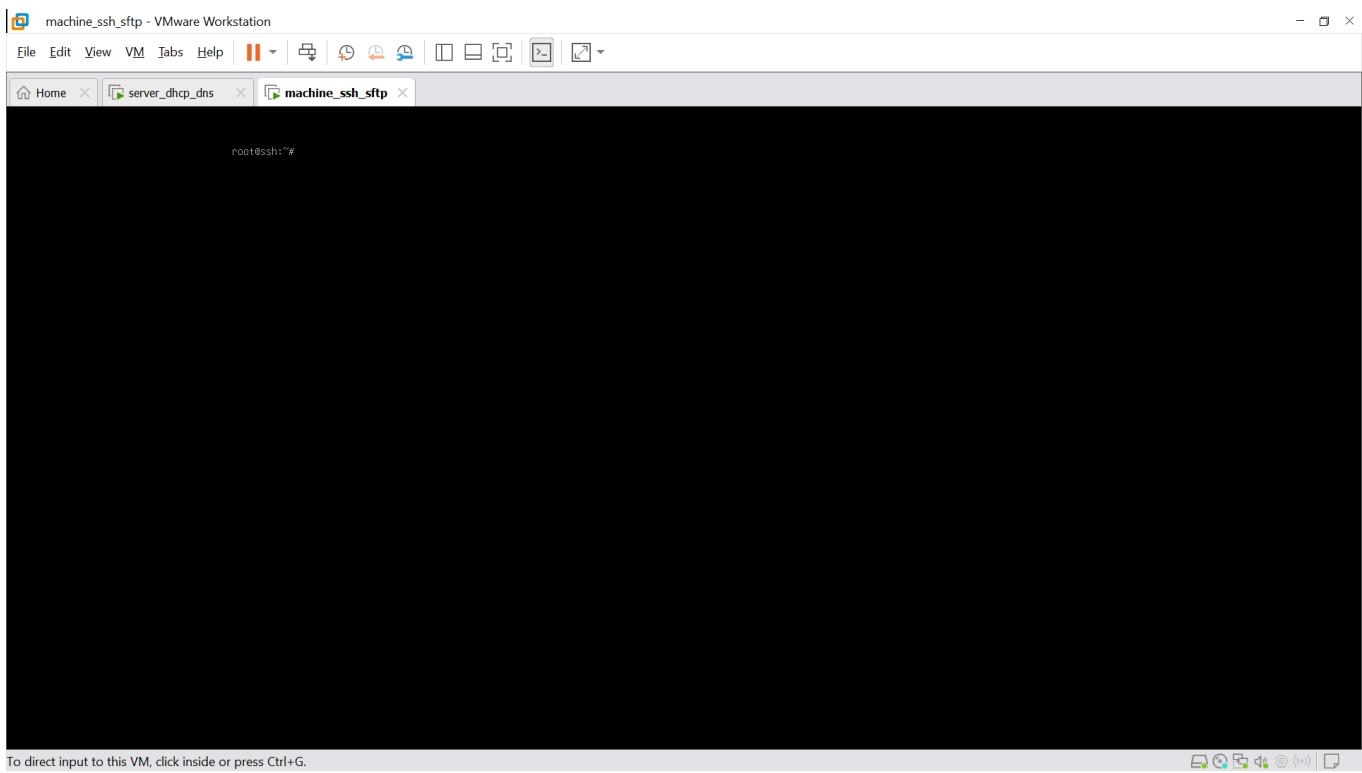
File Edit View VM Help | |

Home server_dhcp_dns machine_ssh_sftp

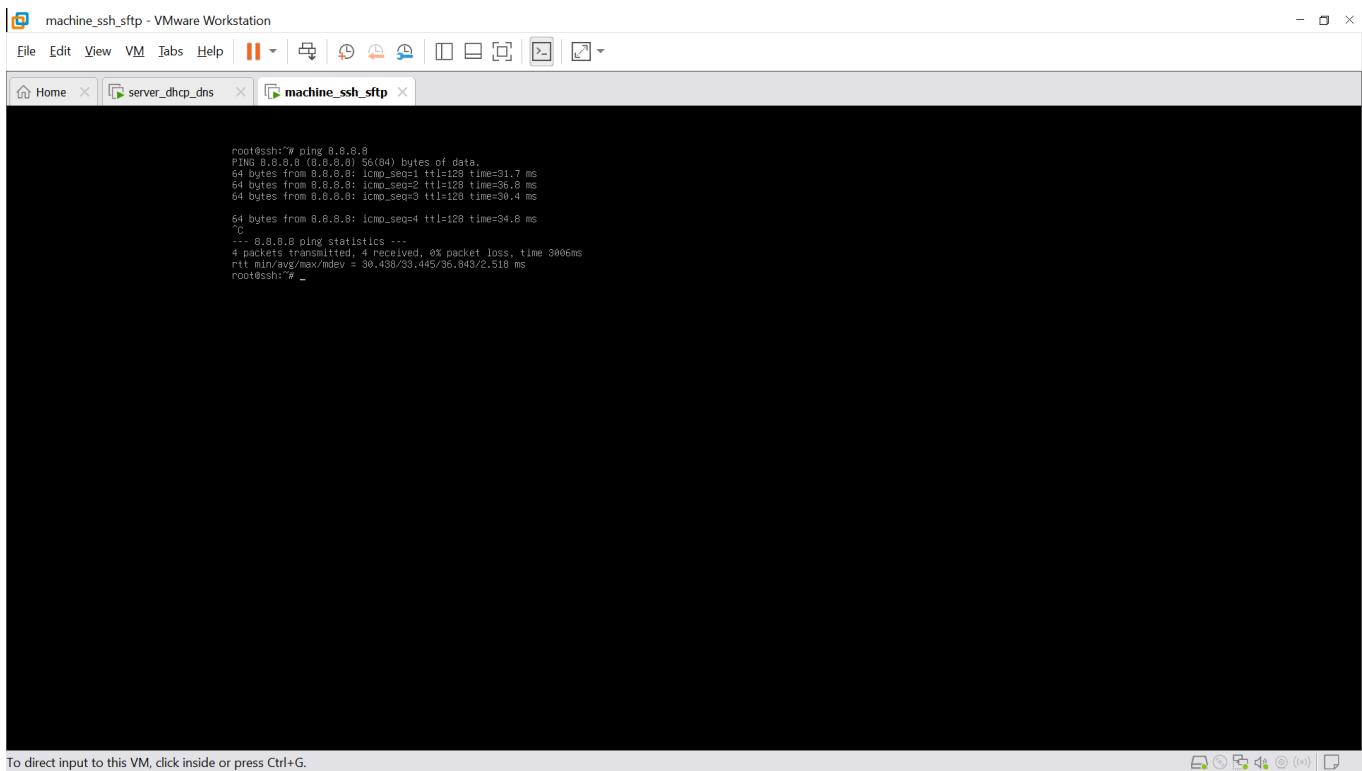
```
user@ssh:~$ su_
```

To direct input to this VM, click inside or press Ctrl+G.





To direct input to this VM, click inside or press Ctrl+G.



To direct input to this VM, click inside or press Ctrl+G.

Etape 8 : Mises à jours sur la VM DHCP_DNS

machine_ssh_sftp - VMware Workstation

File Edit View VM Tabs Help || | | | | | | | | | | |

Home server_dhcp_dns machine_ssh_sftp

```
root@ssh:~# nano /etc/apt/sources.list
```

The screenshot shows a VMware Workstation interface with a terminal window open. The terminal window title is 'machine_ssh_sftp'. The user is in the root shell, editing the '/etc/apt/sources.list' file with the nano editor. The file content is as follows:

```
GNU nano 7.2                               /etc/apt/sources.list
# deb cdrom:[Debian GNU/Linux 12.9.0 _Bookworm_ - Official amd64 DVD Binary-1 with firmware 20250111-10:59] / bookworm contrib main non-free-firmware
deb http://deb.debian.org/debian/ bookworm main non-free-firmware
deb-src http://deb.debian.org/debian/ bookworm main non-free-firmware
deb http://security.debian.org/debian-security bookworm-security main non-free-firmware
deb-src http://security.debian.org/debian-security bookworm-security main non-free-firmware

# bookworm-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/ bookworm-updates main non-free-firmware
deb-src http://deb.debian.org/debian/ bookworm-updates main non-free-firmware
```

machine_ssh_sftp - VMware Workstation

File Edit View VM Tabs Help | | | | | | | |

Home server_dhcp_dns machine_ssh_sftp

```
GNU nano 7.2                               /etc/apt/sources.list
#deb cdrom:[Debian GNU/Linux 12.9.0 _Bookworm - Official amd64 DVD Binary-1 with firmware 20250111-10:55] / bookworm contrib main non-free-firmware
deb http://deb.debian.org/debian/ bookworm main non-free-firmware
deb-src http://deb.debian.org/debian/ bookworm main non-free-firmware
deb http://security.debian.org/debian-security bookworm-security main non-free-firmware
deb-src http://security.debian.org/debian-security bookworm-security main non-free-firmware

# bookworm-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/ bookworm-updates main non-free-firmware
deb-src http://deb.debian.org/debian/ bookworm-updates main non-free-firmware
```

Nom du fichier à écrire: /etc/apt/sources.list

[Aide M-H Format DOS M-H Ajout (à la fin) M-H Copie de sécu.
[Annuler M-H Format Mac M-H Ajout (au début) M-H Parcourir]

To direct input to this VM, click inside or press Ctrl+G.

machine_ssh_sftp - VMware Workstation

File Edit View VM Tabs Help | | | | | | | |

Home server_dhcp_dns machine_ssh_sftp

```
GNU nano 7.2                               /etc/apt/sources.list
#deb cdrom:[Debian GNU/Linux 12.9.0 _Bookworm - Official amd64 DVD Binary-1 with firmware 20250111-10:55] / bookworm contrib main non-free-firmware
deb http://deb.debian.org/debian/ bookworm main non-free-firmware
deb-src http://deb.debian.org/debian/ bookworm main non-free-firmware
deb http://security.debian.org/debian-security bookworm-security main non-free-firmware
deb-src http://security.debian.org/debian-security bookworm-security main non-free-firmware

# bookworm-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/ bookworm-updates main non-free-firmware
deb-src http://deb.debian.org/debian/ bookworm-updates main non-free-firmware
```

[Aide Ecrire Chercher Couper Collier [12 lignes écrites] Exécuter Emplacement Annuler Marquer → Crochet Retrouver Précédent Quitter Lire fich. Remplacer Justifier Aller ligne Réfaire Copier Suivant]

To direct input to this VM, click inside or press Ctrl+G.

```
root@ssh:~# apt update
Hit:1 http://security.debian.org/debian-security bookworm-security InRelease
Hit:2 http://deb.debian.org/debian bookworm InRelease
Hit:3 http://deb.debian.org/debian bookworm-updates InRelease
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Tous les paquets sont à jour.
root@ssh:~#
```

To direct input to this VM, click inside or press Ctrl+G.

```
root@ssh:~# apt install sudo
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Les NOUVEAUX paquets suivants seront installés :
  sudo
0 mis à jour, 1 nouvellement installés, 0 à enlever et 0 non mis à jour.
Il est nécessaire de prendre 1 089 ko dans les archives.
Après cette opération, 6 199 ko d'espace disque supplémentaires seront utilisés.
root@ssh:~# apt install sudo
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  sudo
0 to upgrade, 1 newly installed, 0 to remove and 0 not upgraded.
Selecting previously deselected package sudo.
(Reading database ... 314180 files and directories currently installed.)
Preparing to unpack .../sudo_1%3.1+deb12u1_amd64.deb ...
Unpacking sudo (1%3.1+deb12u1) ...
Setting up sudo (1%3.1+deb12u1) ...
Processing triggers for man-db (2.11.2-2) ...
Processing triggers for libc-bin (2.36-9+deb12u9) ...
root@ssh:~#
```

To direct input to this VM, click inside or press Ctrl+G.

machine_ssh_sftp - VMware Workstation

File Edit View VM Help

Home server_dhcp_dns machine_ssh_sftp

```
root@ssh:~# apt install net-tools
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Les NOUVEAUX paquets suivants seront installés :
  net-tools
0 mis à jour, 1 nouvellement installé, 0 à enlever et 0 non mis à jour.
Il est nécessaire de prendre 243 Ko dans les archives.
Après cette opération, 1 001 Ko d'espace disque supplémentaires seront utilisés.
Récupération de 11 http://deb.debian.org/delian/bookworm/main amd64 net-tools amd64 2.10-0.1 [243 kB]
243 Ko téléchargement en 0s (574 ko/s)
3 paquets à télécharger, 0 à enlever et 0 non mis à jour.
(Lecture de la liste de commandes... 34321 fichiers et répertoires déjà installés.)
Préparation du dépaquetage de .../net-tools_2.10-0.1_amd64.deb ...
Dépaquetage de net-tools (2.10-0.1) ...
Paramétrage de net-tools (2.10-0.1) ...
Traitement des actions différences (« triggers ») pour man-db (2.11.2-2) ...
root@ssh:~# _
```

To direct input to this VM, click inside or press Ctrl+G.

machine_ssh_sftp - VMware Workstation

File Edit View VM Help

Home server_dhcp_dns machine_ssh_sftp

```
root@ssh:~# apt upgrade
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Calcul de la mise à jour... Fait
0 mis à jour, 0 nouvellement installés, 0 à enlever et 0 non mis à jour.
root@ssh:~# _
```

To direct input to this VM, click inside or press Ctrl+G.

```
root@ssh:~# systemctl status
● ssh
   State: running
     Since: Sat 2025-02-01 13:36:15 CET; 1h 47min ago
    Process: 252 /usr/sbin/sshd -D
   Main PID: 252 (sshd)
      Tasks: 9 (limit: 4092)
     Memory: 1.0M
        CPU: 0.000 CPU(s) since start
     CGroup: /system.slice/systemd-user-sessions.slice
             └─● 252 /usr/sbin/sshd -D

      Tasks: 9 (limit: 4092)
     Memory: 1.0M
        CPU: 0.000 CPU(s) since start
     CGroup: /system.slice/ssh.service
             └─● 252 /usr/sbin/sshd -D [sshd]
                 ├ 699 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
                 └─699 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

● system-journal.service
   State: active (running)
     Since: Sat 2025-02-01 13:36:15 CET; 1h 47min ago
    Process: 468 /lib/systemd/systemd-journald
   Main PID: 468 /lib/systemd/systemd-journald
      Tasks: 1 (limit: 4092)
     Memory: 1.0M
        CPU: 0.000 CPU(s) since start
     CGroup: /system.slice/systemd-journal.service
             └─● 468 /lib/systemd/systemd-journald

● user@1000.service
   State: active (running)
     Since: Sat 2025-02-01 13:36:15 CET; 1h 47min ago
    Process: 1196 /lib/systemd/systemctl status
   Main PID: 1196 /lib/systemd/systemctl status
      Tasks: 1 (limit: 4092)
     Memory: 1.0M
        CPU: 0.000 CPU(s) since start
     CGroup: /system.slice/user@1000.service
             └─● 1196 /lib/systemd/systemctl status
                 ├ 655 /bin/login -p --
                 ├ 852 bash
                 ├ 853 less
                 ├ 864 bash
                 └ 1196 /lib/systemctl status
                     ├ 1197 less
                     └ 1198 /lib/systemd/systemctl --user
                         ├ 845 /lib/systemd/systemctl --user
                         └ 846 (sd-pam)"
```

Etape 9 : Installation du mode SFTP SSH

root@ssh:~# sudo apt update && sudo apt install proftpd openssh-server -y
Attente :: http://security.debian.org/debian-security bookworm-security InRelease
Attente :: http://deb.debian.org/debian bookworm InRelease
Attente :: http://deb.debian.org/debian bookworm-updates InRelease
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Tous les packages sont à jour.
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Note : sélection de « proftpd-core » au lieu de « proftpd »
proftpd-core est déjà la version la plus récente (1:3.0.0dfsg-4+deb12u4).
proftpd-server est déjà la version la plus récente (1:3.0.0-2+deb12u4).
0 mis à jour, 0 nouvellement installés, 0 à enlever et 0 non mis à jour.
root@ssh:~# _

To direct input to this VM, click inside or press Ctrl+G

```
root@ssh:~# systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; preset: enabled)
     Active: active (running) since Sat 2025-02-01 13:36:10 CET; 2h 19min ago
       Docs: man:sshd(8)
             man:sshd_config(5)
     Main PID: 669 (sshd)
        Tasks: 1 (limit: 2273)
       Memory: 3.3K
          CPU: 51ms
         CGroup: /system.slice/ssh.service
                 └─ 669 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

févr. 01 13:36:16 ssh systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
févr. 01 13:36:18 ssh sshd[669]: Server listening on 0.0.0.0 port 22.
févr. 01 13:36:18 ssh sshd[669]: Server listening on :: port 22.
févr. 01 13:36:18 ssh systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
root@ssh: #
```

To direct input to this VM, click inside or press Ctrl+G

```
root@ssh:~# systemctl status proftpd
● proftpd.service - ProFTPD FTP Server
   Loaded: loaded (/lib/systemd/system/proftpd.service; enabled; preset: enabled)
   Active: active (running) since Sat 2025-02-01 15:34:04 CET; 26min ago
     Docs: man:proftpd(8)
 Process: 1664 ExecStartPre=/usr/sbin/proftpd --configtest -c $CONFIG_FILE $OPTIONS (code=exited, status=0/SUCCESS)
 Process: 1666 ExecStart=/usr/sbin/proftpd -c $CONFIG_FILE $OPTIONS (code=exited, status=0/SUCCESS)
 Main PID: 1666 (proftpd)
   Tasks: 1 (limit: 2273)
    Memory: 1.0M
      CPU: 190ms
     CGroup: /system.slice/proftpd.service
             └─1666 "proftpd: (accepting connections)"

févr. 01 15:34:04 ssh systemd[1]: Starting proftpd.service - ProFTPD FTP Server...
févr. 01 15:34:04 ssh proftpd[1664]: Checking syntax of configuration file
févr. 01 15:34:04 ssh systemd[1]: Started proftpd.service - ProFTPD FTP Server.
root@ssh:~#
```

Etape 10 : Configuration du serveur SSH et du serveur SFTP

```
root@ssh:~# sudo nano /etc/proftpd/proftpd.conf
```

machine_ssh_sftp - VMware Workstation

File Edit View VM Help

Home server_dhcp_dns machine_ssh_sftp

GNU nano 7.2 /etc/proftpd/proftpd.conf *

```
# To prevent DoS attacks, set the maximum number of child processes
# to 30. If you need to allow more than 30 concurrent connections
# at once, simply increase this value. Note that this ONLY works
# in standalone mode, in inetd mode you should use an inetd server
# that allows you to limit maximum number of processes per service
# (e.g. xinetd)
MaxInstances 1
MaxClientPerUser 1

# Set the user and group that the server normally runs at.
User nobody
Group nogroup

# Umask 022 is a good standard umask to prevent new files and dirs
# (second param) from being group and world writable.
# Umask 022
# Normally we want files to be overwritable.
AllowOverwrite on

# Uncomment this if you are using NIS or LDAP via NSS to retrieve passwords:
# PersistentPasswd off

# This is required to use both PAM-based authentication and local passwords
# AuthOrder mod_auth_pam.c+ mod_auth_unix.c

# Be warned: use of this directive impacts CPU usage load!
# Uncomment this if you like to see progress and transfer rate with ftputo
# in downloads. That is not needed for upload rates.
#
# UseSendfile off

TransferLog /var/log/proftpd/xferlog
SystemLog /var/log/proftpd/proftpd.log

# Logging onto /var/log/lastlog is enabled but set to off by default
#UseLastlog on

# In order to keep log file dates consistent after chroot, use timezone info
# from /etc/localtime. If this is not set, and proftpd is configured to
# chroot (e.g. defaultroot or <anonymous>), it will use the non-daylight
# savings timezone regardless of whether DST is in effect.
#SetEnv TZ :/etc/localtime

<IfModule mod_quotatab.c>
QuotaEngine off
```

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To direct input to this VM, click inside or press Ctrl+G.

machine_ssh_sftp - VMware Workstation

File Edit View VM Help

Home server_dhcp_dns machine_ssh_sftp

root@ssh:~# sudo nano /etc/ssh/sshd_config

To direct input to this VM, click inside or press Ctrl+G.

A screenshot of a VMware Workstation window titled "server_dhcp_dns - VMware Workstation". The window contains a terminal session. The title bar has icons for File, Edit, View, VM, Tabs, Help, and various window controls. The terminal tabs are "Home" and "server_dhcp_dns". The "server_dhcp_dns" tab is active and shows the command "root@server1:~# sudo useradd -m laplateforme" being typed. The background of the terminal is black, and the text is white.

The screenshot shows a VMware Workstation interface with a terminal window titled "server_dhcp_dns". The terminal window contains the following command:

```
root@server1:~# echo "laplateforme:Marseille13!" | sudo chpasswd
```

To direct input to this VM, click inside or press Ctrl+G.

The screenshot shows a VMware Workstation interface with a single running virtual machine named "server_dhcp_dns". The window title bar indicates it's a VMware Workstation window. The menu bar includes "File", "Edit", "View", "VM", "Tabs", "Help", and various icons for file operations like copy, paste, and search. Below the menu is a toolbar with icons for file operations. The main area is a terminal window titled "server_dhcp_dns" showing a root shell on the host system. The command entered was "ls -l /home/laplateforme", which lists a file named "laplateforme" with permissions 4096 and modification date "1 févr. 16:24". The terminal prompt is "root@server1:~#".

To direct input to this VM, click inside or press Ctrl+G.

```
root@server1:~# sudo apt update && sudo apt install openssh-server -y
[...]
Ign :3 http://security.debian.org/debian-security bookworm-security InRelease
Ign :3 http://security.debian.org/debian-security bookworm-security InRelease
Ign :3 http://security.debian.org/debian-security bookworm-security InRelease
Err :3 http://security.debian.org/debian-security bookworm-security InRelease
  Nécessite une connexion Internet pour continuer.
  Notez que les packages peuvent être déverrouillés avec 'apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 477CE4C6D08D3061'.
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances... Fait
Lecture des informations d'état... Fait
Nécessite une connexion Internet pour continuer à jour les listes de paquets.
W: Impossible de télécharger http://security.debian.org/debian-security/dists/bookworm-security/InRelease. Ne parvient pas à résoudre « security.debian.org »
W: Le téléchargement de quelques fichiers d'index a échoué, ils ont été ignorés, ou les anciens ont été utilisés à la place.
E: L'opération instal n'est pas valable
root@server1:~#
```

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```
root@server1:~# systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; preset: enabled)
   Active: active (running) since Sat 2025-02-01 16:11:12 CET; 2min 59s ago
     Docs: man:sshd(8)
           man:SShd_Config(5)
 Main PID: 1830 (sshd)
   Tasks: 1 (limit: 2273)
    Memory: 1.5M
      CPU: 0.00ms
     CGroup: /system.slice/ssh.service
             └─1830 "sshd: /usr/sbin/sshd -D [listener] 0 of 10+100 startups"

févr. 01 16:11:12 server1 systemd[1]: Starting ssh.service - OpenBSD Secure Shell server...
févr. 01 16:11:12 server1 sshd[1830]: Server listening on 0.0.0.0 port 22.
févr. 01 16:11:12 server1 sshd[1830]: Server listening on :: port 22.
févr. 01 16:11:12 server1 systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
root@server1:~#
```

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Etape 11 : Test de la connexion SFTP

The screenshot shows a VMware Workstation interface with two windows open. The title bar at the top reads "server_dhcp_dns - VMware Workstation". The menu bar includes "File", "Edit", "View", "VM", "Tabs", "Help". Below the menu is a toolbar with icons for copy, paste, cut, find, search, and others. The main area has two tabs: "Home" and "server_dhcp_dns". The "server_dhcp_dns" tab is active, displaying a terminal window. The terminal prompt shows "server1@server1:" followed by the command "\$ su -". The status bar at the bottom indicates "To direct input to this VM, click inside or press Ctrl+G".

server_dhcp_dns - VMware Workstation

File Edit View VM Help | |

Home server_dhcp_dns machine_ssh_sftp

```
server1@server1:~$ su -
Mot de passe : _
```

To direct input to this VM, click inside or press Ctrl+G.

server_dhcp_dns - VMware Workstation

File Edit View VM Help | |

Home server_dhcp_dns machine_ssh_sftp

```
root@server1:~# cd /home/laplateforme
root@server1:/home/laplateforme# ls
dossier dossier2000 dossiertest
root@server1:/home/laplateforme# _
```

To direct input to this VM, click inside or press Ctrl+G.