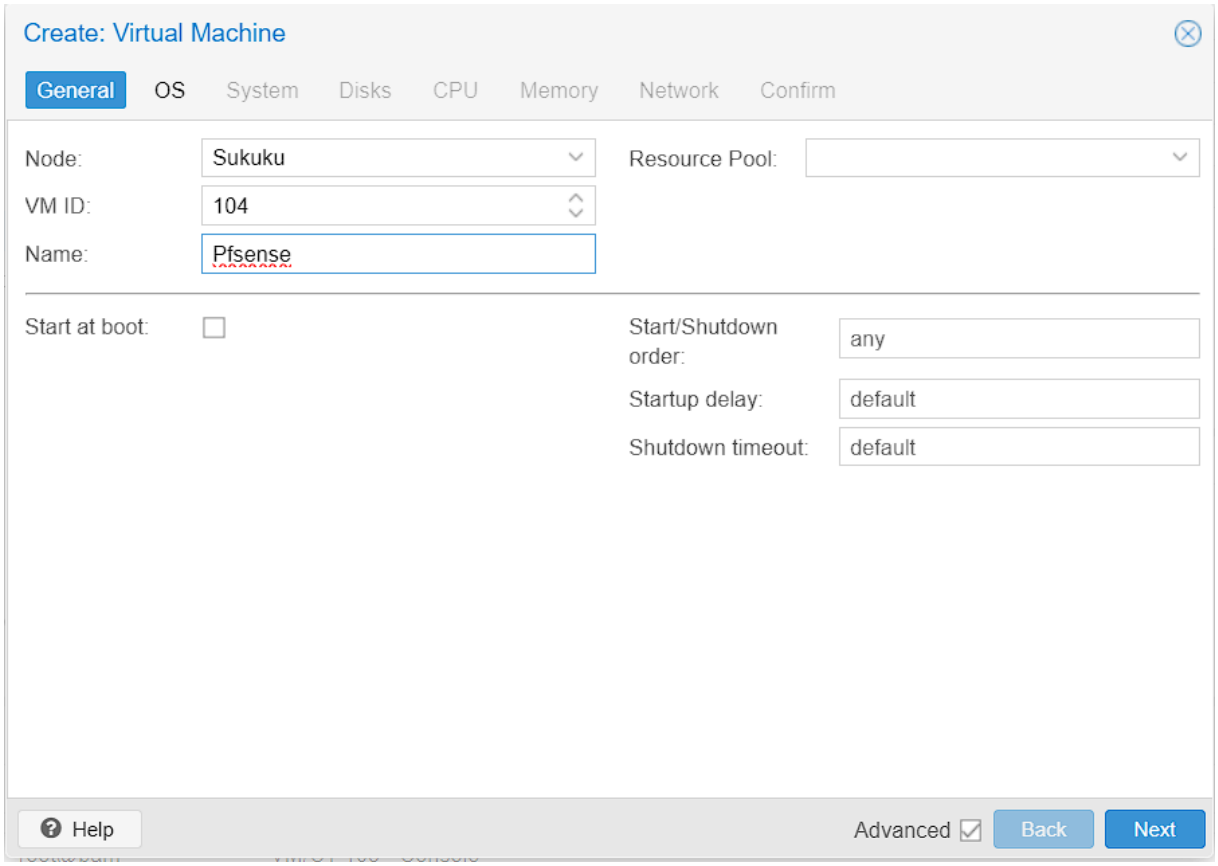
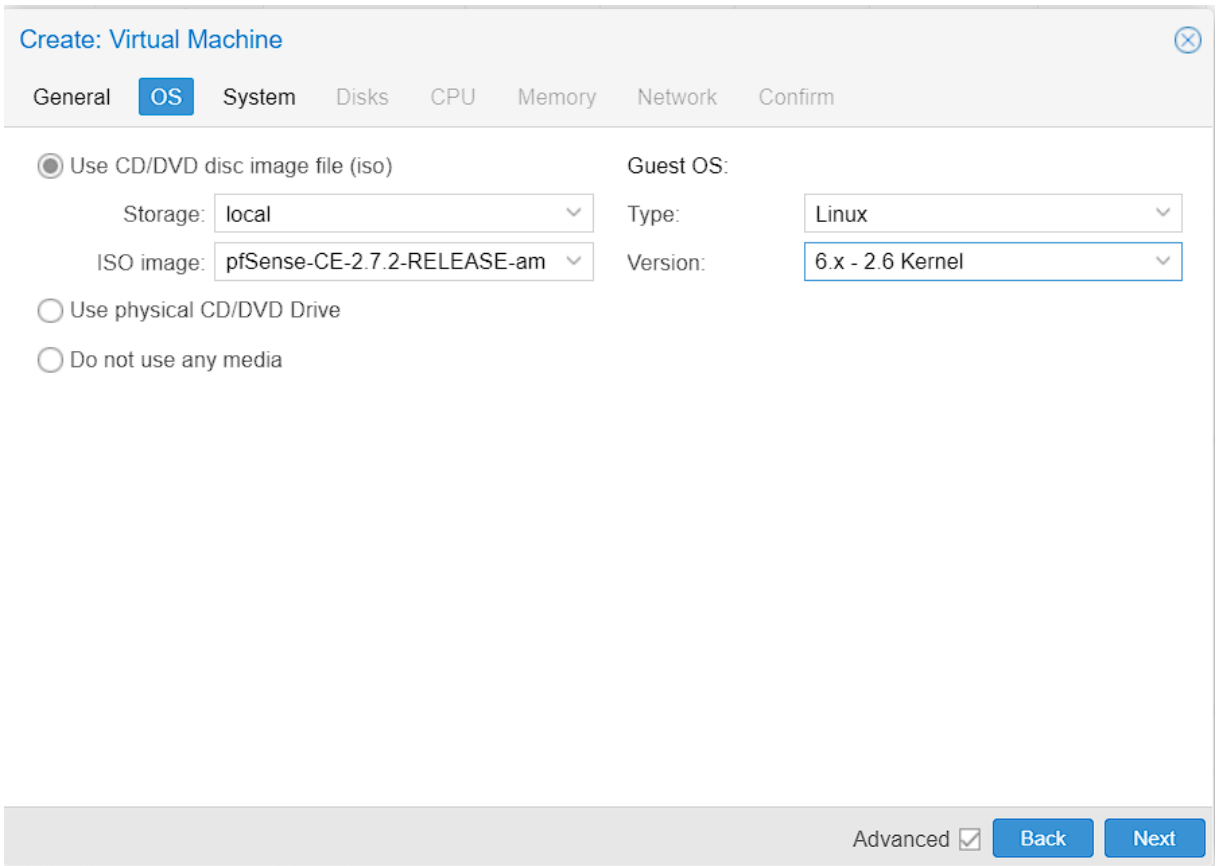
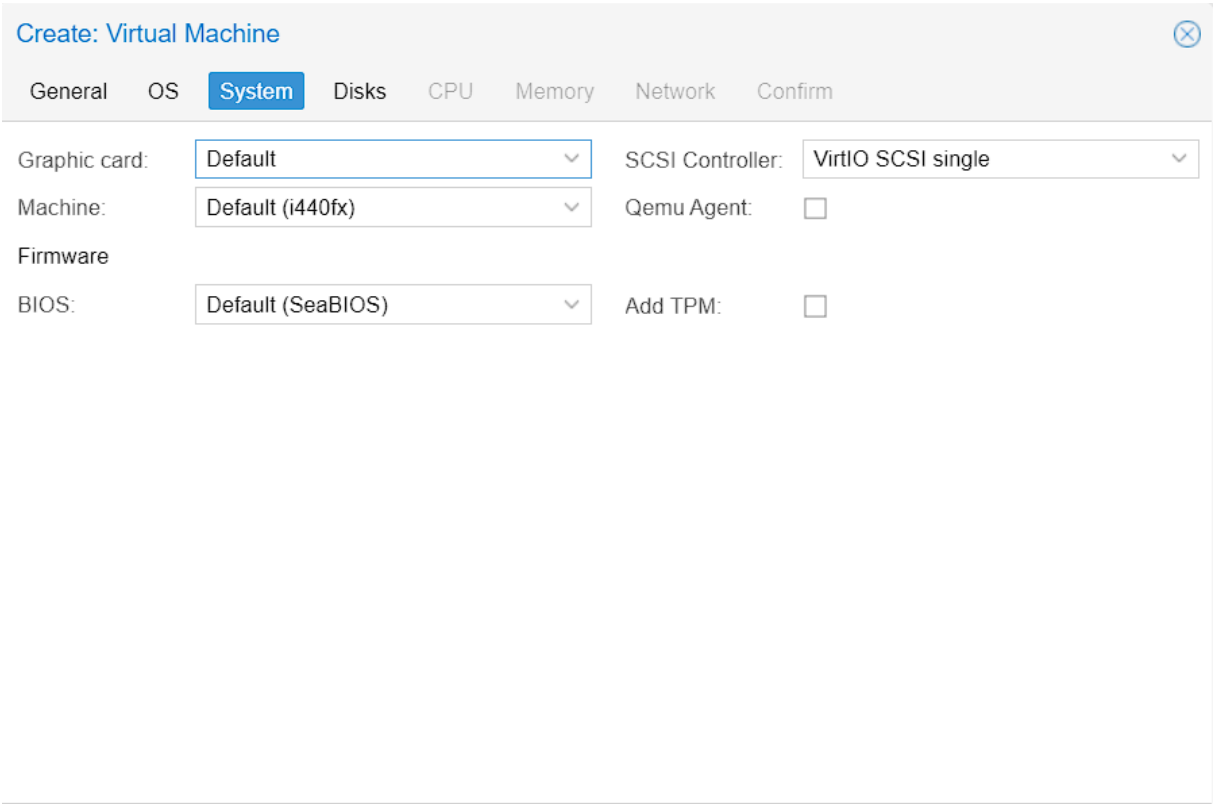
17/01/2024

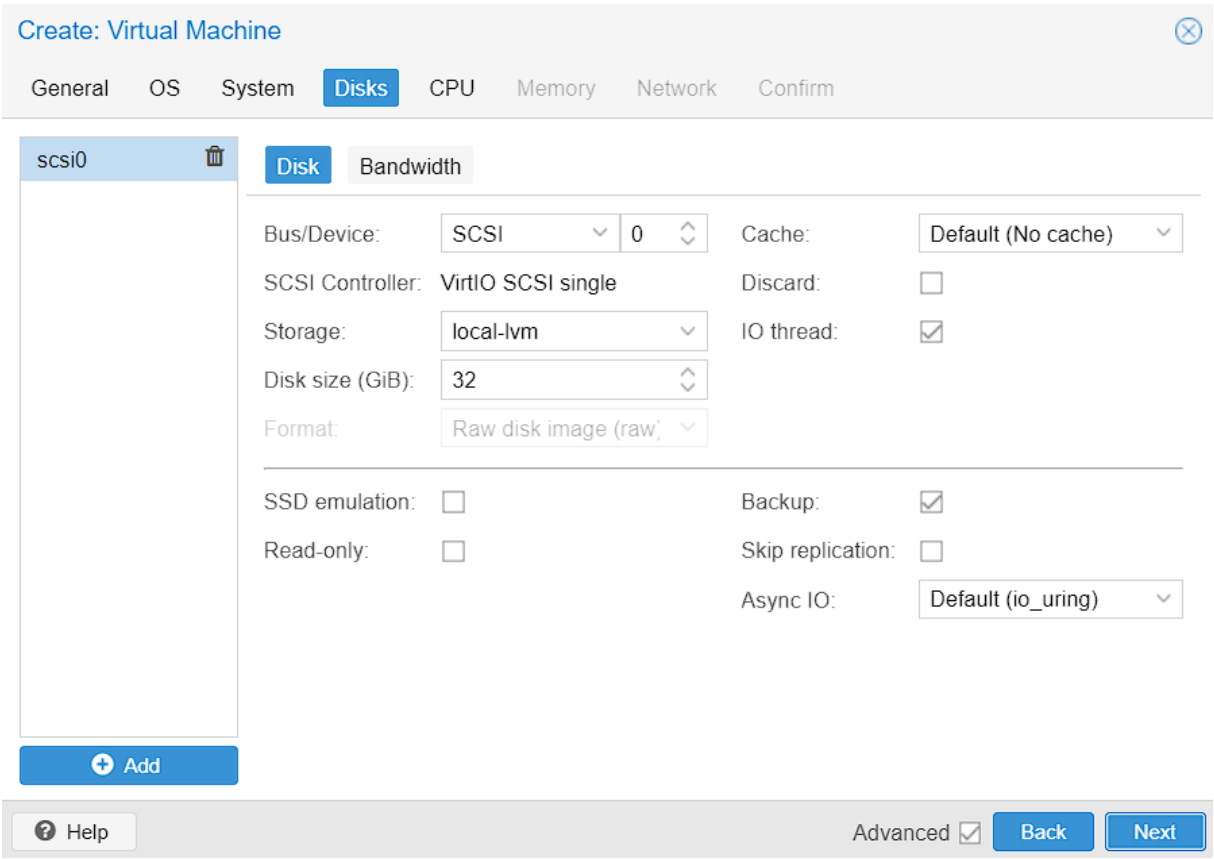
Pfsense

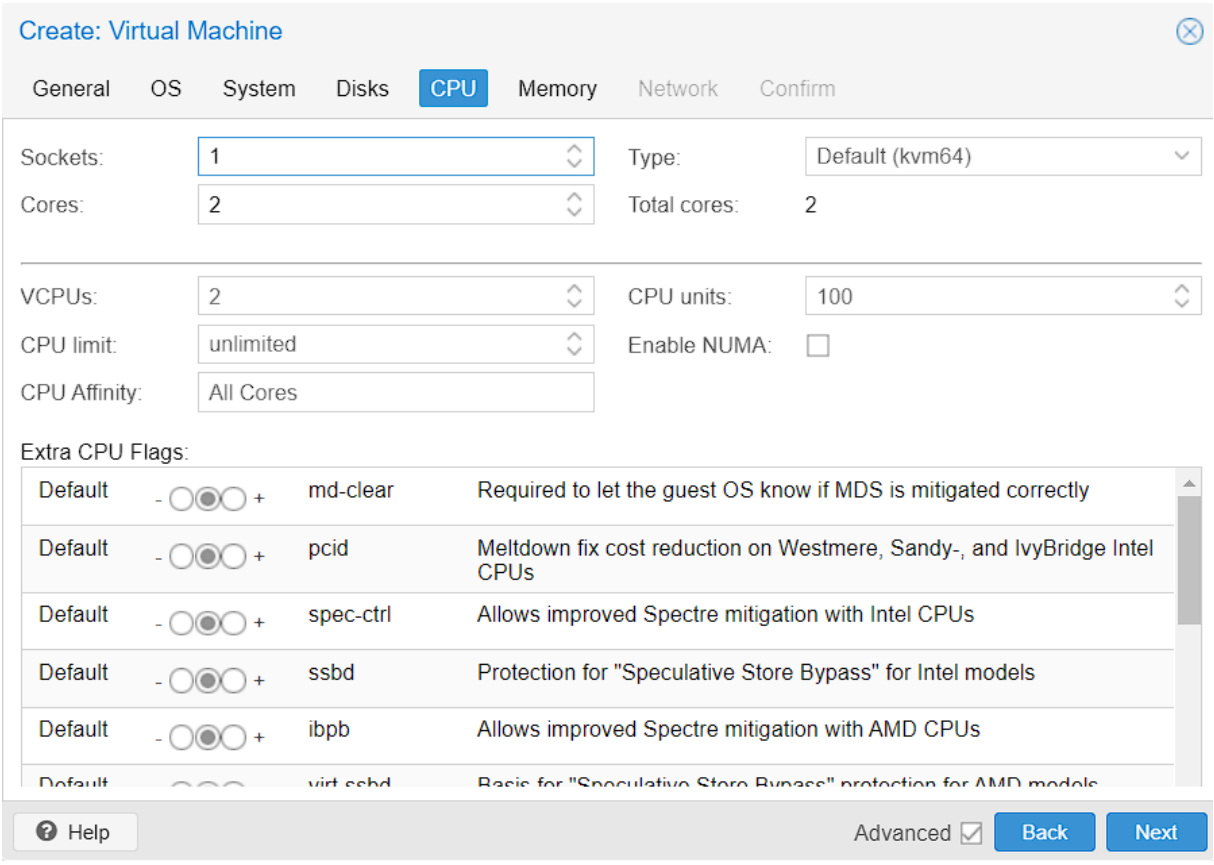
Création de la VM

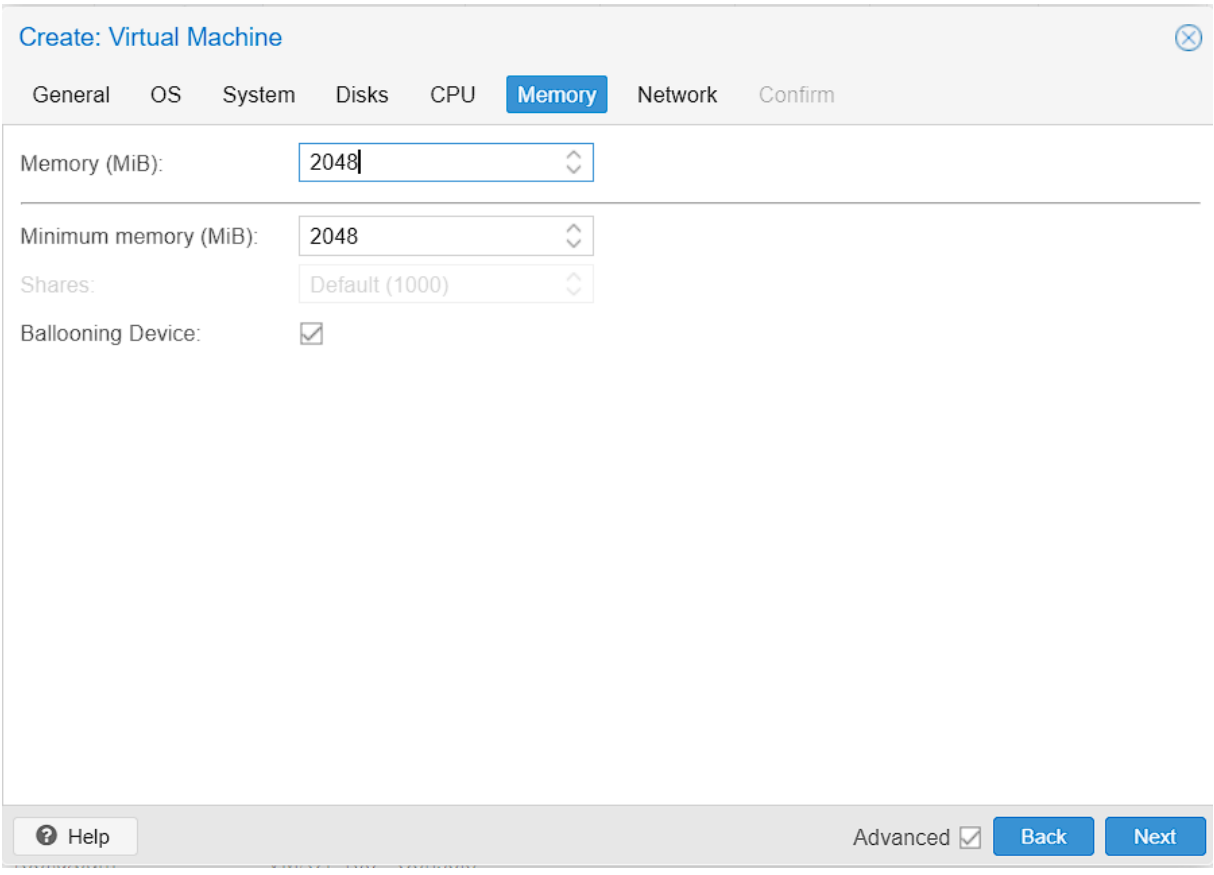




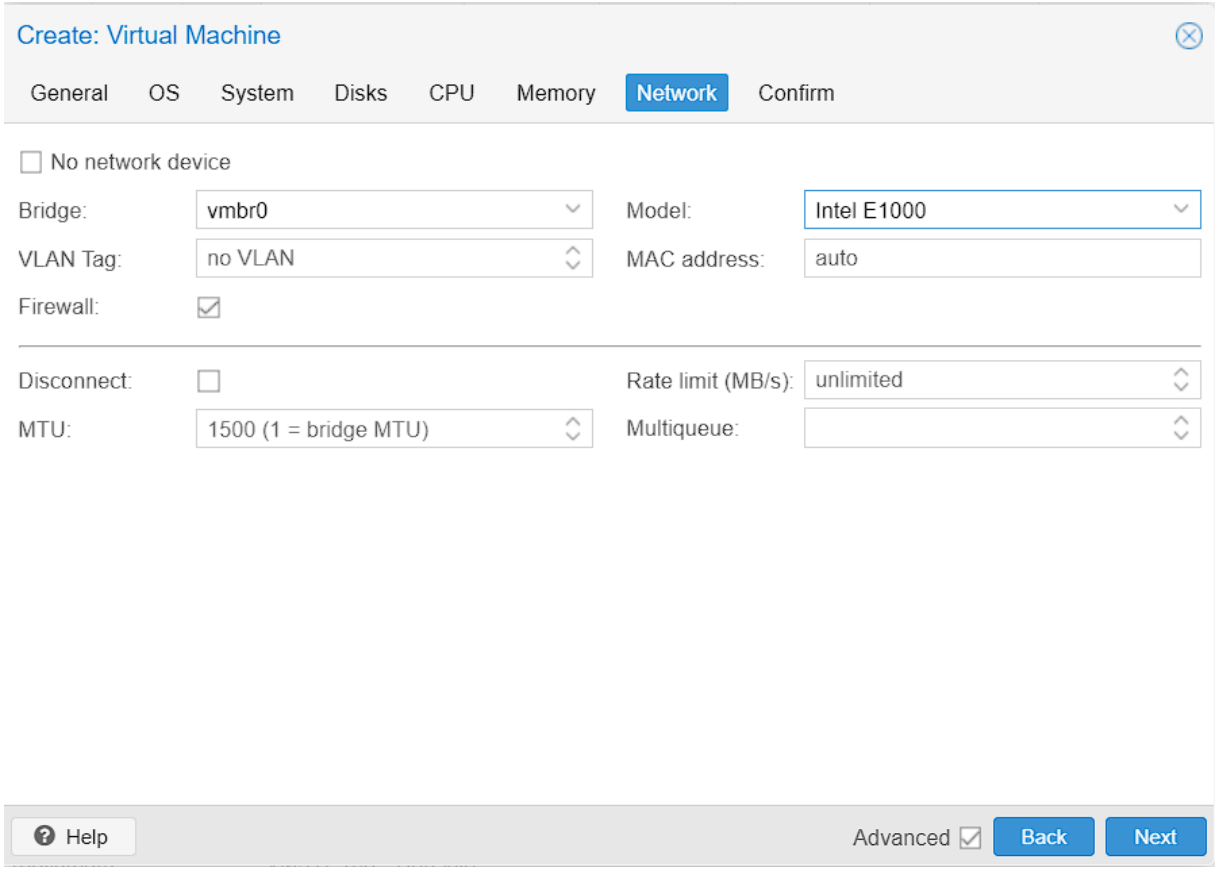

Create: Virtual Machine
General
OS
System
Disks
CPU
Memory
Network
Confirm
Graphic card:
Default
SCSI Controller:
VirtIO SCSI single
Machine:
Default (i440fx)
Qemu Agent:
Firmware
BIOS:
Default (SeaBIOS)
Add TPM:
Help
Advanced
Back
Next

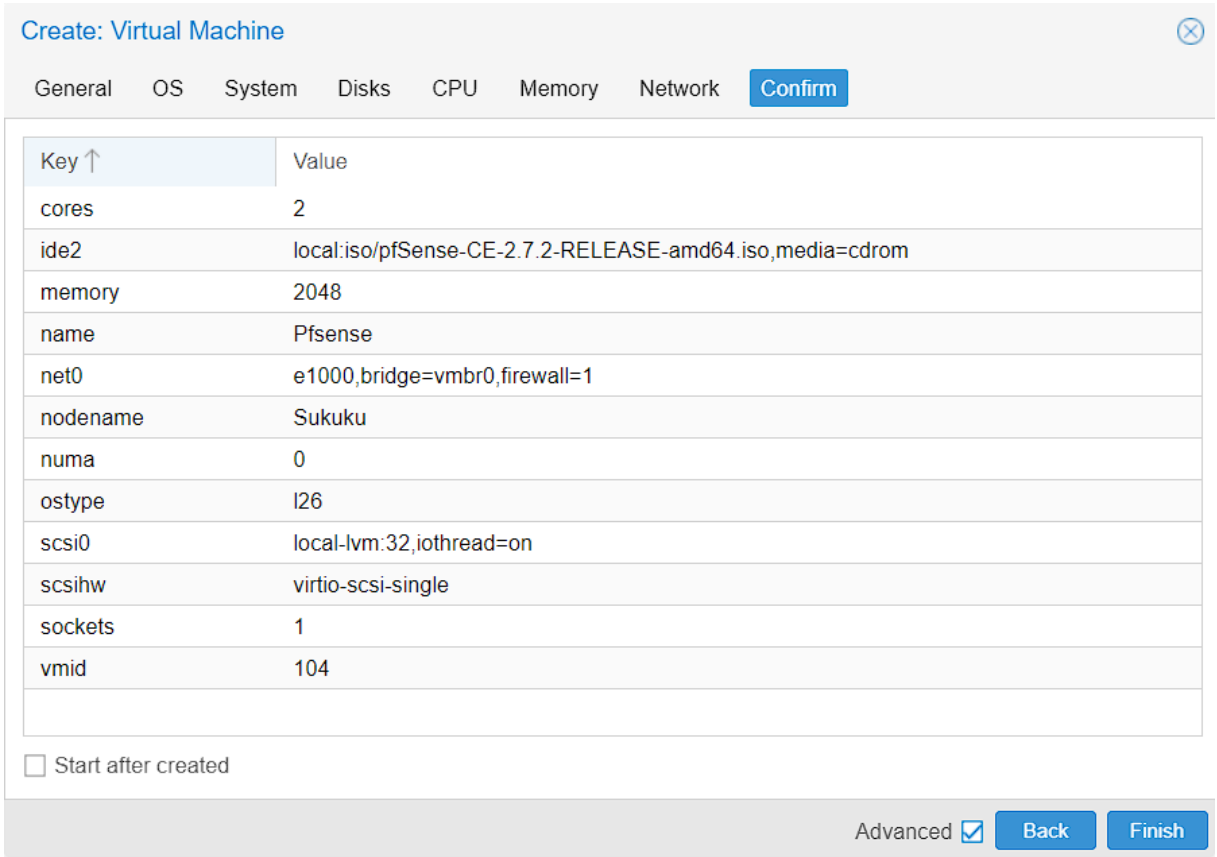

Create: Virtual Machine
General
OS
System
Disks
CPU
Memory
Network
Confirm
scsi0
Disk
Bandwidth
Bus/Device:
SCSI
0
Cache:
Default (No cache)
SCSI Controller:
VirtIO SCSI single
Discard:
Storage:
local-lvm
IO thread:
Disk size (GiB):
32
Format:
Raw disk image (raw)
SSD emulation:
Backup:
Read-only:
Skip replication:
Async IO:
Default (io_uring)
Add
Help
Advanced
Back
Next


Create: Virtual Machine
General
OS
System
Disks
CPU
Memory
Network
Confirm
Sockets:
1
Type:
Default (kvm64)
Cores:
2
Total cores:
2
VCPUs:
2
CPU units:
100
CPU limit:
unlimited
Enable NUMA:
CPU Affinity:
All Cores
Extra CPU Flags:
Default
md-clear
Required to let the guest OS know if MDS is mitigated correctly
Default
pcid
Meltdown fix cost reduction on Westmere, Sandy-, and IvyBridge Intel CPUs
Default
spec-ctrl
Allows improved Spectre mitigation with Intel CPUs
Default
ssbd
Protection for "Speculative Store Bypass" for Intel models
Default
ibpb
Allows improved Spectre mitigation with AMD CPUs
Help
Advanced
Back
Next

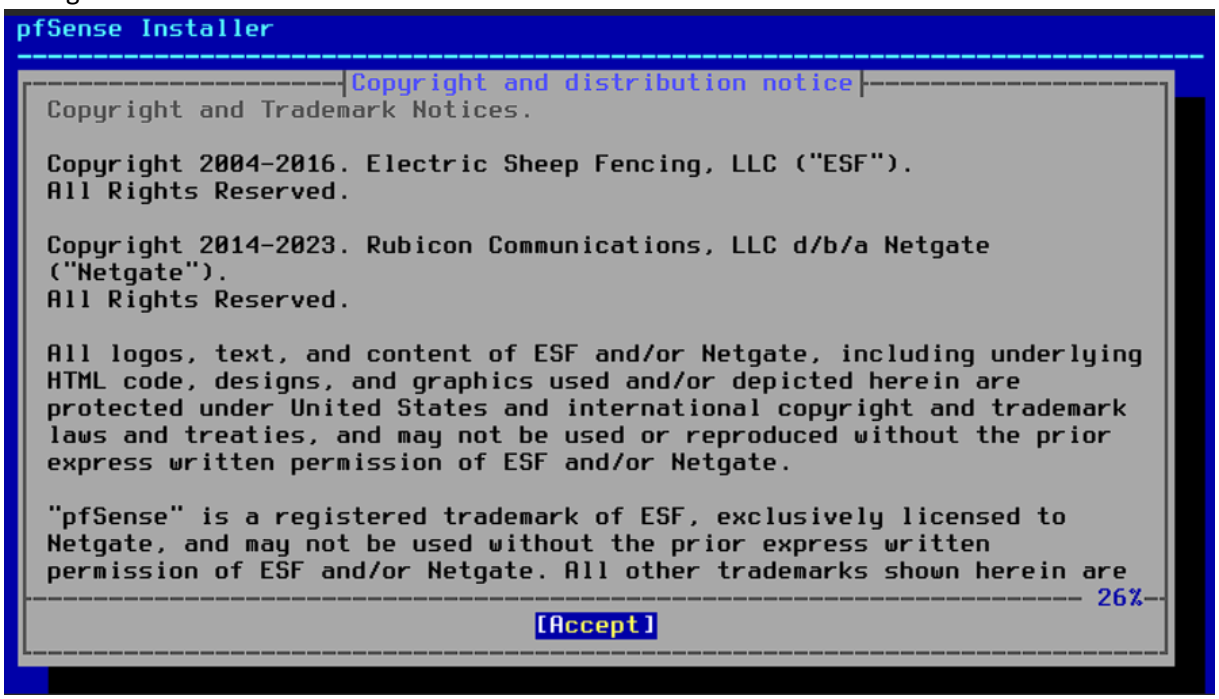

Create: Virtual Machine
General
OS
System
Disks
CPU
Memory
Network
Confirm
Memory (MiB):
2048
Minimum memory (MiB):
2048
Shares:
Default (1000)
Ballooning Device:
Help
Advanced
Back
Next

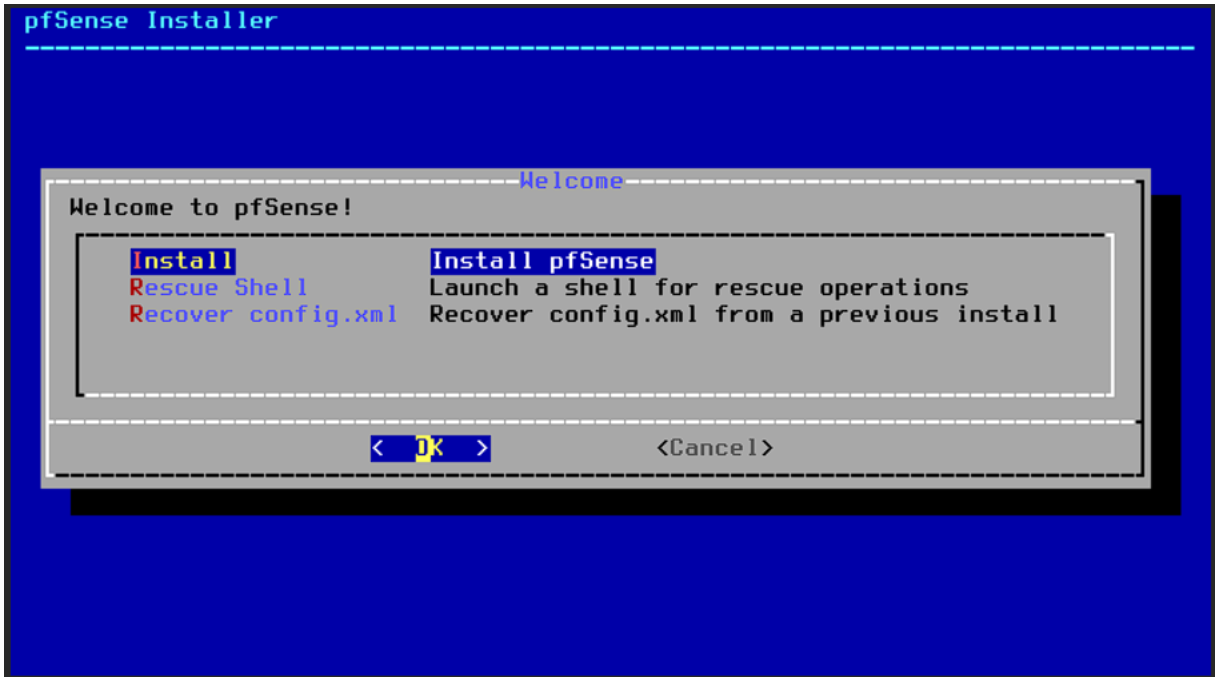
Si problème réseau changer le modèle Networking

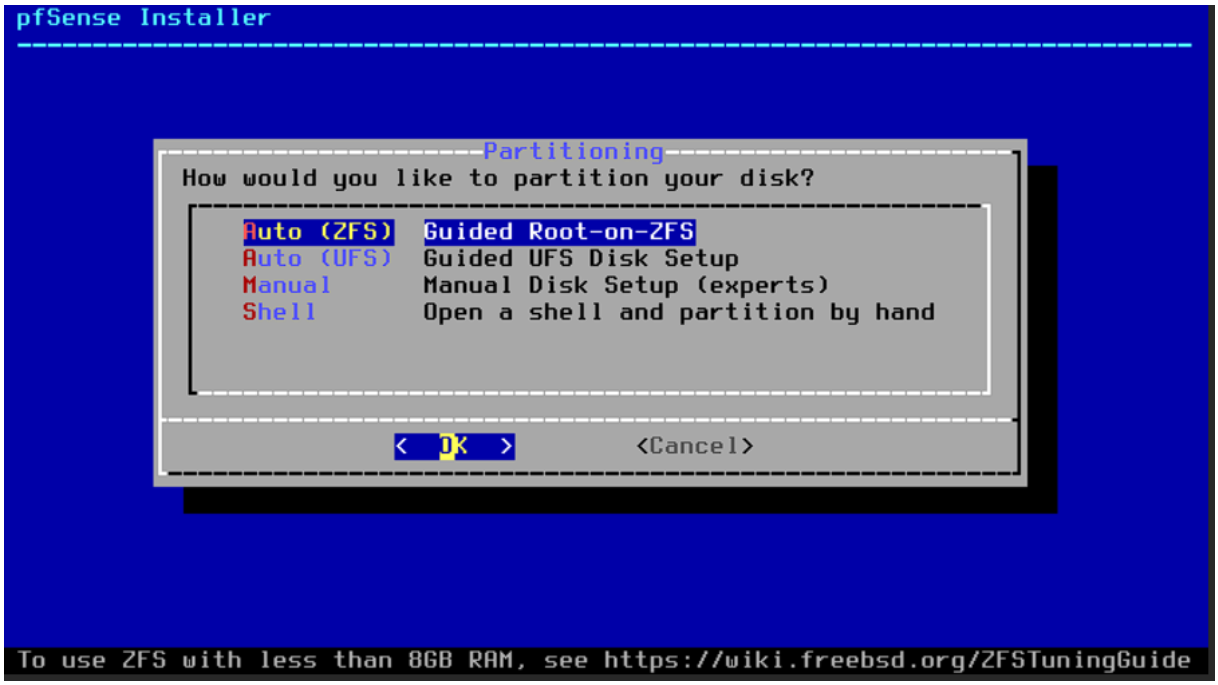


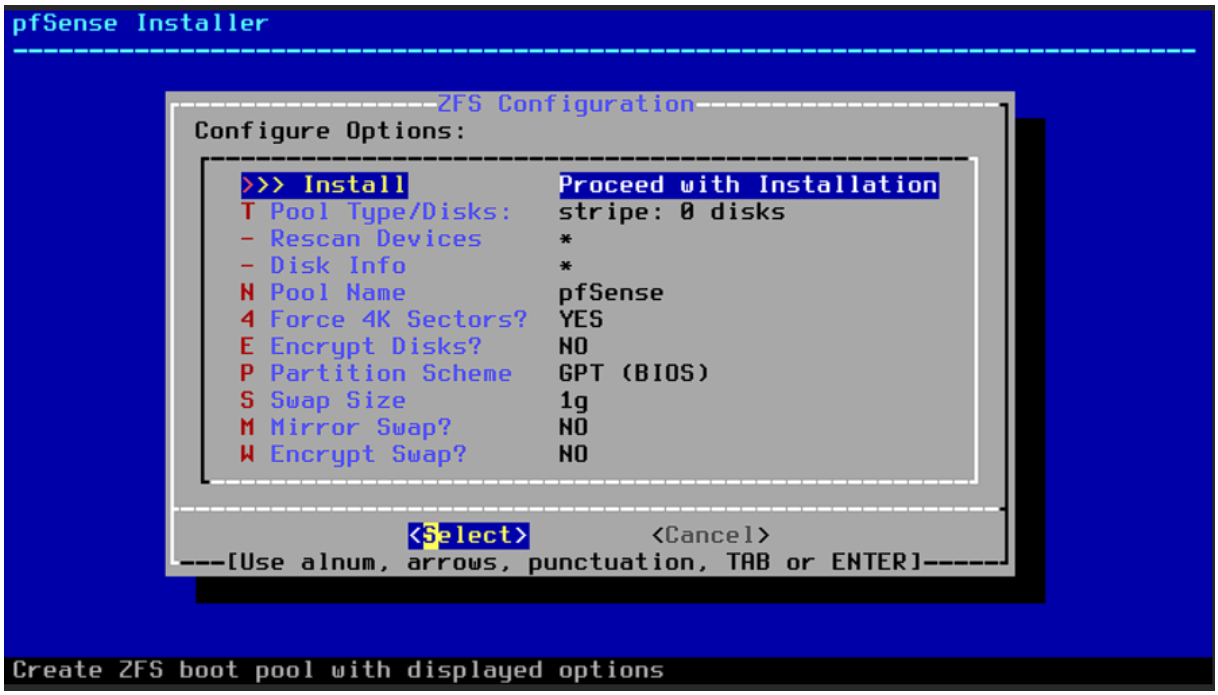


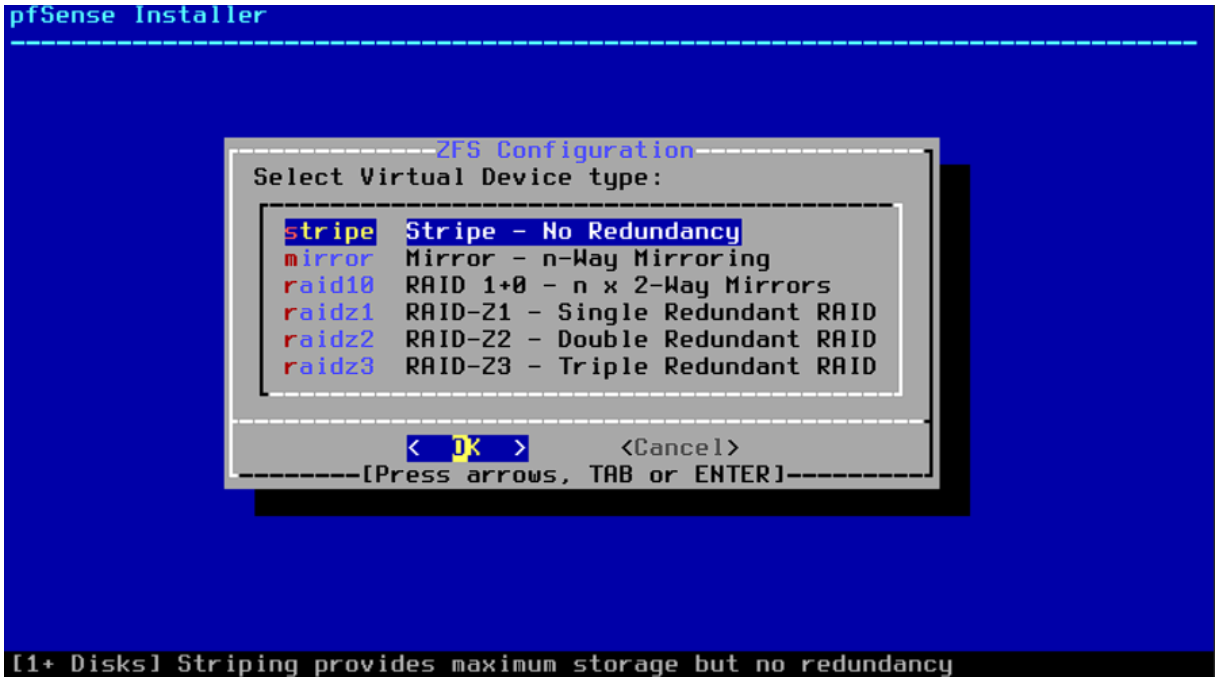
Configuration Pfsense

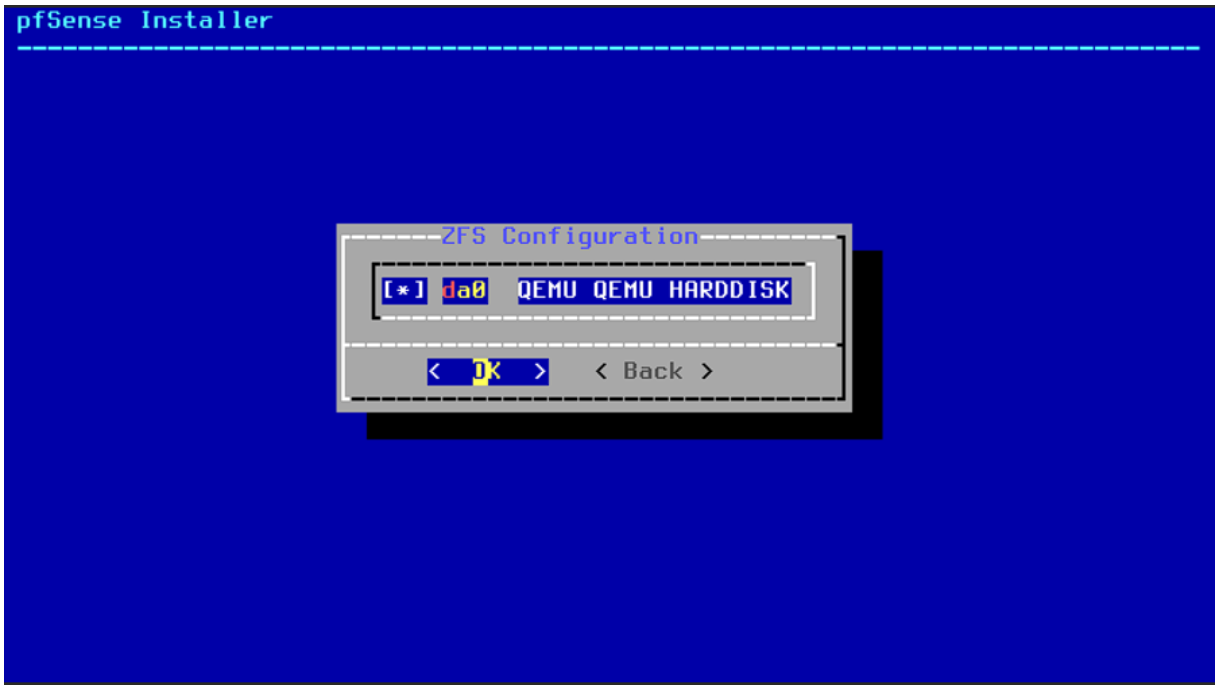


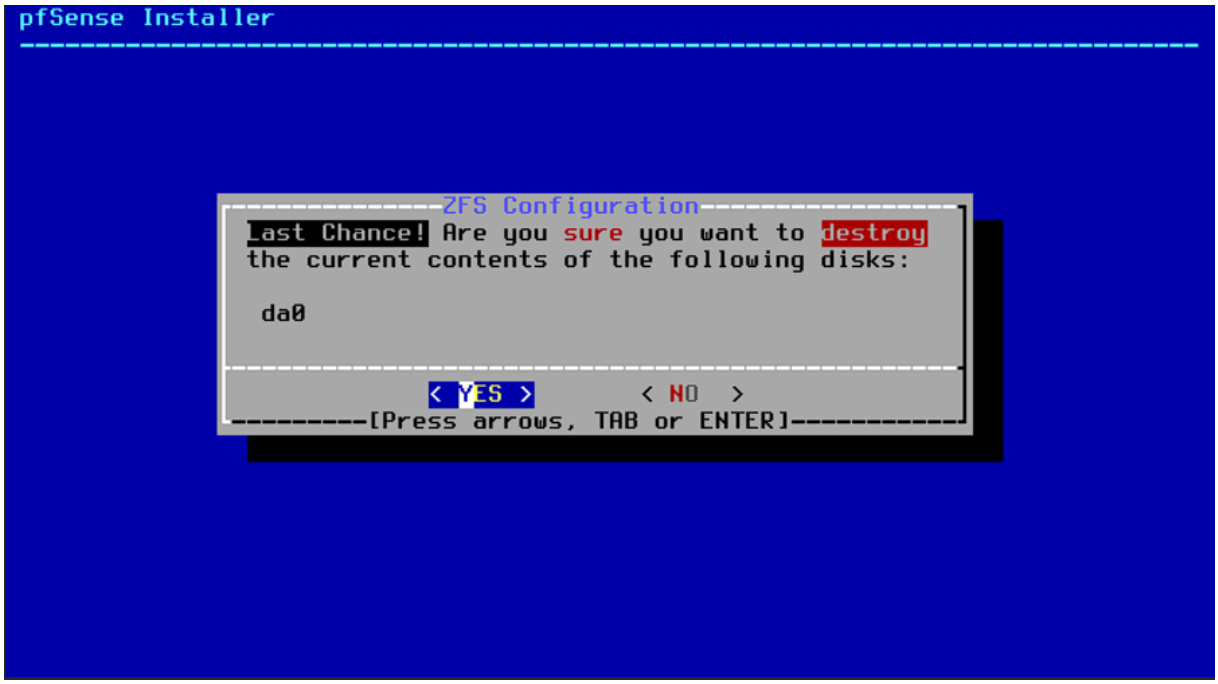


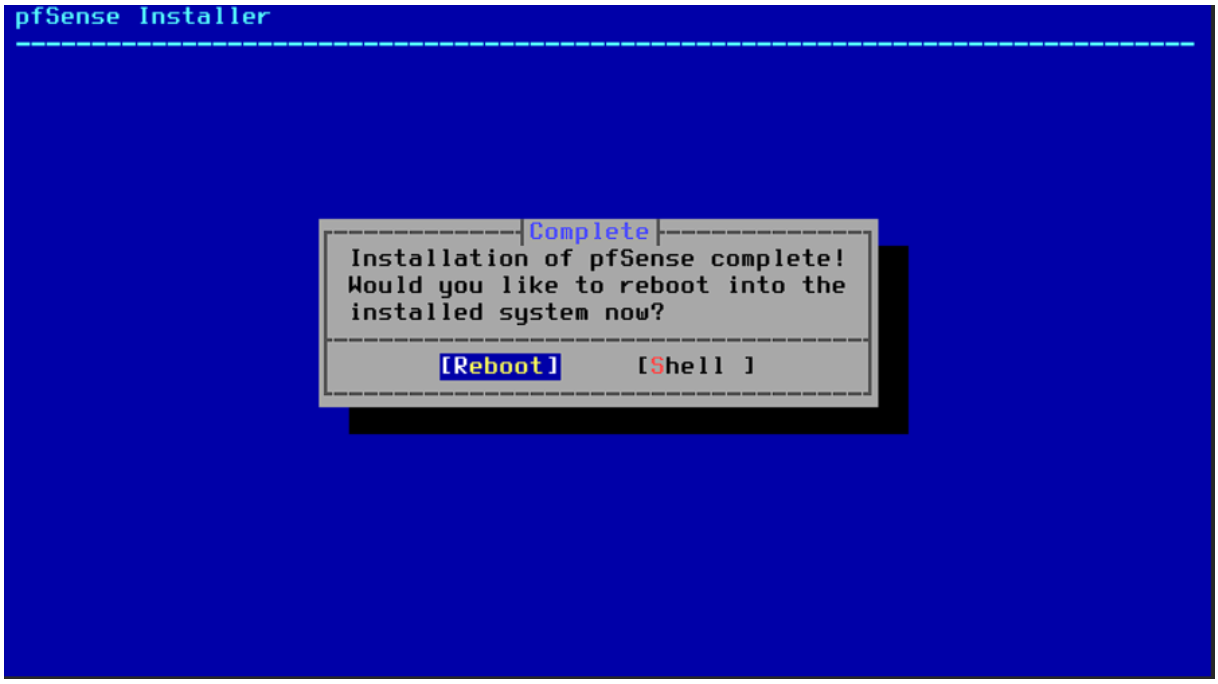

pfSense Installer
Partitioning
How would you like to partition your disk?
Auto (ZFS) Guided Root-on-ZFS
Auto (UFS) Guided UFS Disk Setup
Manual Manual Disk Setup (experts)
Shell Open a shell and partition by hand
< OK >
<Cancel>
To use ZFS with less than 8GB RAM, see https://wiki.freebsd.org/ZFSTuningGuide


pfSense Installer
ZFS Configuration
Configure Options:
>>> Install Proceed with Installation
T Pool Type/Disks: stripe: 0 disks
- Rescan Devices *
- Disk Info *
N Pool Name pfSense
4 Force 4K Sectors? YES
E Encrypt Disks? NO
P Partition Scheme GPT (BIOS)
S Swap Size 1g
M Mirror Swap? NO
W Encrypt Swap? NO
<Select>
<Cancel>
[Use alnum, arrows, punctuation, TAB or ENTER]
Create ZFS boot pool with displayed options


pfSense Installer
ZFS Configuration
Select Virtual Device type:
stripe Stripe - No Redundancy
mirror Mirror - n-Way Mirroring
raid10 RAID 1+0 - n x 2-Way Mirrors
raidz1 RAID-Z1 - Single Redundant RAID
raidz2 RAID-Z2 - Double Redundant RAID
raidz3 RAID-Z3 - Triple Redundant RAID
< OK >
<Cancel>
[Press arrows, TAB or ENTER]
[1+ Disks] Striping provides maximum storage but no redundancy


pfSense Installer
ZFS Configuration
[*] da0 QEMU QEMU HARDDISK
< OK >
< Back >


pfSense Installer
ZFS Configuration
Last Chance! Are you sure you want to destroy
the current contents of the following disks:
da0
< YES >
< NO >
[Press arrows, TAB or ENTER]


pfSense Installer
Complete
Installation of pfSense complete!
Would you like to reboot into the
installed system now?
[Reboot]
[Shell]

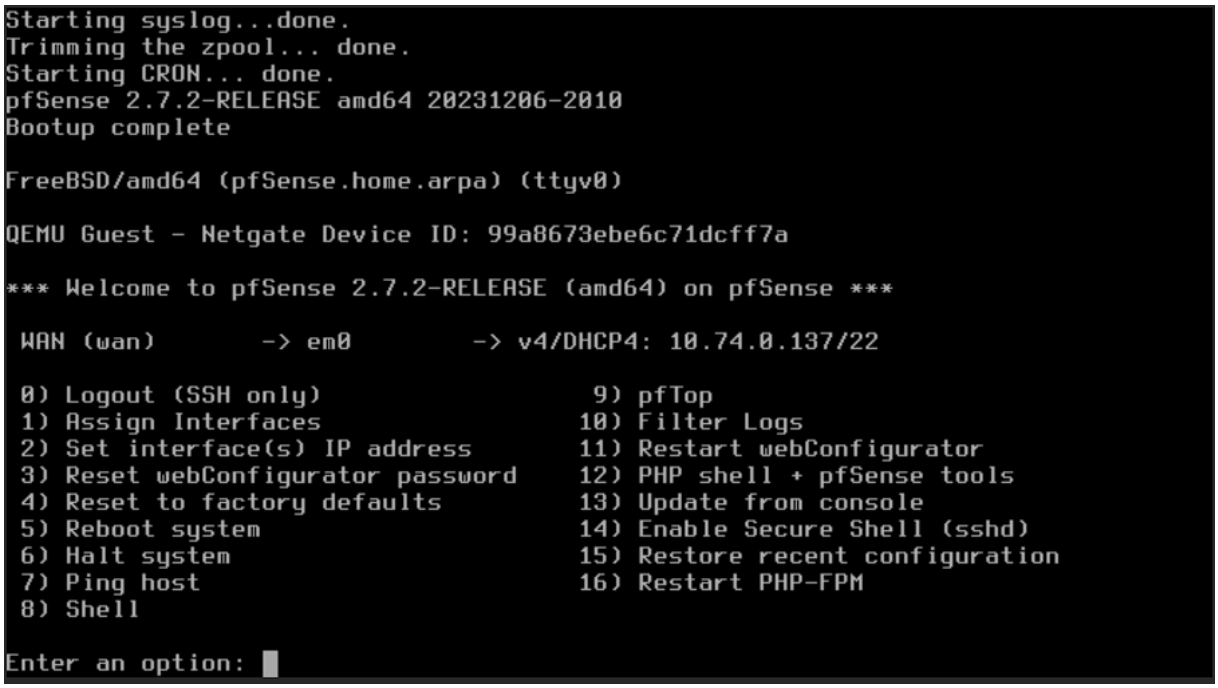
```
 done.
Initializing..... done.
Starting device manager (devd)...done.
Loading configuration....done.
Updating configuration....done.
Warning: Configuration references interfaces that do not exist: em1

Network interface mismatch -- Running interface assignment option.

Valid interfaces are:

em0     0e:e6:c7:7f:23:d5 (down) Intel(R) Legacy PRO/1000 MT 82540EM

Do VLANs need to be set up first?
If VLANs will not be used, or only for optional interfaces, it is typical to
say no here and use the webConfigurator to configure VLANs later, if required.

Should VLANs be set up now [y|n]? em0: link state changed to UP
2024-01-17T08:50:21.145800+00:00 - php-fpm 394 - - /rc.linkup: DHCP Client not r
unning on wan (em0), reconfiguring dhclient.
2024-01-17T08:50:26.631910+00:00 - php-fpm 394 - - /rc.newwanip: rc.newwanip: In
fo: starting on em0.
2024-01-17T08:50:26.632035+00:00 - php-fpm 394 - - /rc.newwanip: rc.newwanip: on
 (IP address: 10.74.0.137) (interface: WAN[wan]) (real interface: em0).
```

Configuration du WAN

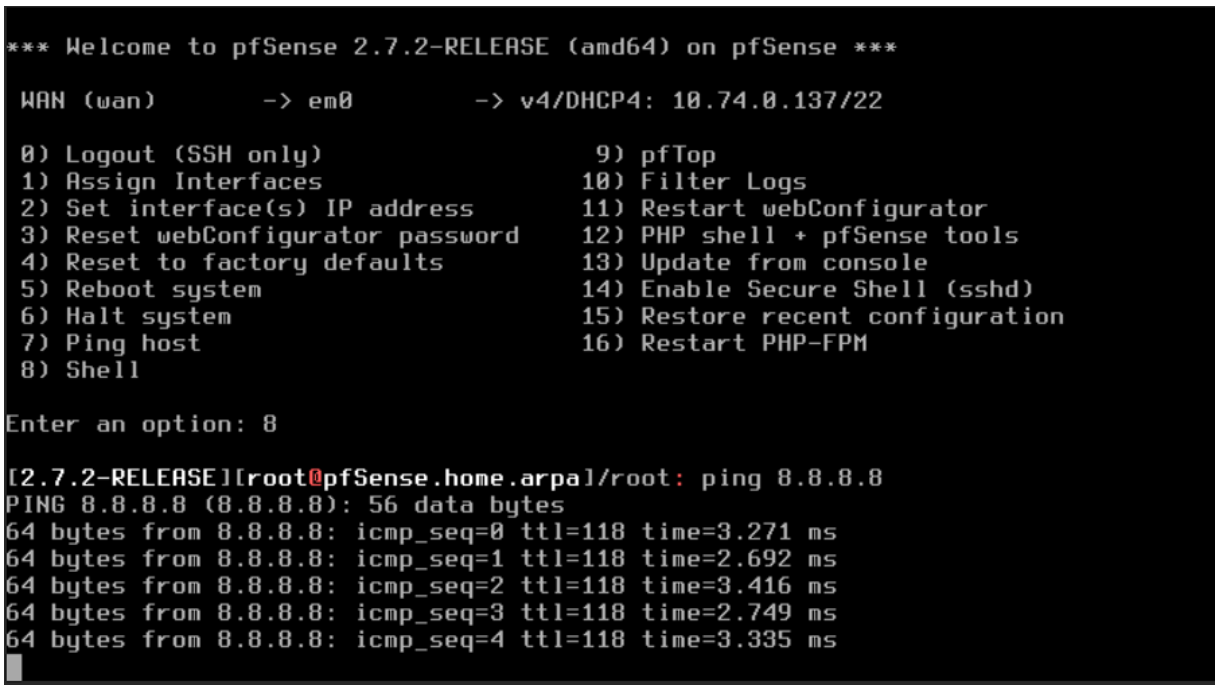
```
Network interface mismatch -- Running interface assignment option.

Valid interfaces are:

em0     0e:e6:c7:7f:23:d5 (down) Intel(R) Legacy PRO/1000 MT 82540EM

Do VLANs need to be set up first?
If VLANs will not be used, or only for optional interfaces, it is typical to
say no here and use the webConfigurator to configure VLANs later, if required.

Should VLANs be set up now [y|n]? em0: link state changed to UP
2024-01-17T08:50:21.145800+00:00 - php-fpm 394 - - /rc.linkup: DHCP Client not r
unning on wan (em0), reconfiguring dhclient.
2024-01-17T08:50:26.631910+00:00 - php-fpm 394 - - /rc.newwanip: rc.newwanip: In
fo: starting on em0.
2024-01-17T08:50:26.632035+00:00 - php-fpm 394 - - /rc.newwanip: rc.newwanip: on
 (IP address: 10.74.0.137) (interface: WAN[wan]) (real interface: em0).


If the names of the interfaces are not known, auto-detection can
be used instead. To use auto-detection, please disconnect all
interfaces before pressing 'a' to begin the process.

Enter the WAN interface name or 'a' for auto-detection
(em0 or a): em0
```

```
em0     0e:e6:c7:7f:23:d5 (down) Intel(R) Legacy PRO/1000 MT 82540EM

Do VLANs need to be set up first?
If VLANs will not be used, or only for optional interfaces, it is typical to
say no here and use the webConfigurator to configure VLANs later, if required.

Should VLANs be set up now [y|n]? em0: link state changed to UP
2024-01-17T08:50:21.145800+00:00 - php-fpm 394 - - /rc.linkup: DHCP Client not r
unning on wan (em0), reconfiguring dhclient.
2024-01-17T08:50:26.631910+00:00 - php-fpm 394 - - /rc.newwanip: rc.newwanip: In
fo: starting on em0.
2024-01-17T08:50:26.632035+00:00 - php-fpm 394 - - /rc.newwanip: rc.newwanip: on
 (IP address: 10.74.0.137) (interface: WAN[wan]) (real interface: em0).


If the names of the interfaces are not known, auto-detection can
be used instead. To use auto-detection, please disconnect all
interfaces before pressing 'a' to begin the process.

Enter the WAN interface name or 'a' for auto-detection
(em0 or a): em0

Enter the LAN interface name or 'a' for auto-detection
NOTE: this enables full Firewalling/NAT mode.
( a or nothing if finished):
```

```
Should VLANs be set up now [y|n]? em0: link state changed to UP
2024-01-17T08:50:21.145800+00:00 - php-fpm 394 - - /rc.linkup: DHCP Client not r
unning on wan (em0), reconfiguring dhclient.
2024-01-17T08:50:26.631910+00:00 - php-fpm 394 - - /rc.newwanip: rc.newwanip: In
fo: starting on em0.
2024-01-17T08:50:26.632035+00:00 - php-fpm 394 - - /rc.newwanip: rc.newwanip: on
 (IP address: 10.74.0.137) (interface: WAN[wan]) (real interface: em0).


If the names of the interfaces are not known, auto-detection can
be used instead. To use auto-detection, please disconnect all
interfaces before pressing 'a' to begin the process.

Enter the WAN interface name or 'a' for auto-detection
(em0 or a): em0

Enter the LAN interface name or 'a' for auto-detection
NOTE: this enables full Firewalling/NAT mode.
( a or nothing if finished):

The interfaces will be assigned as follows:

WAN  -> em0

Do you want to proceed [y|n]? Y
```



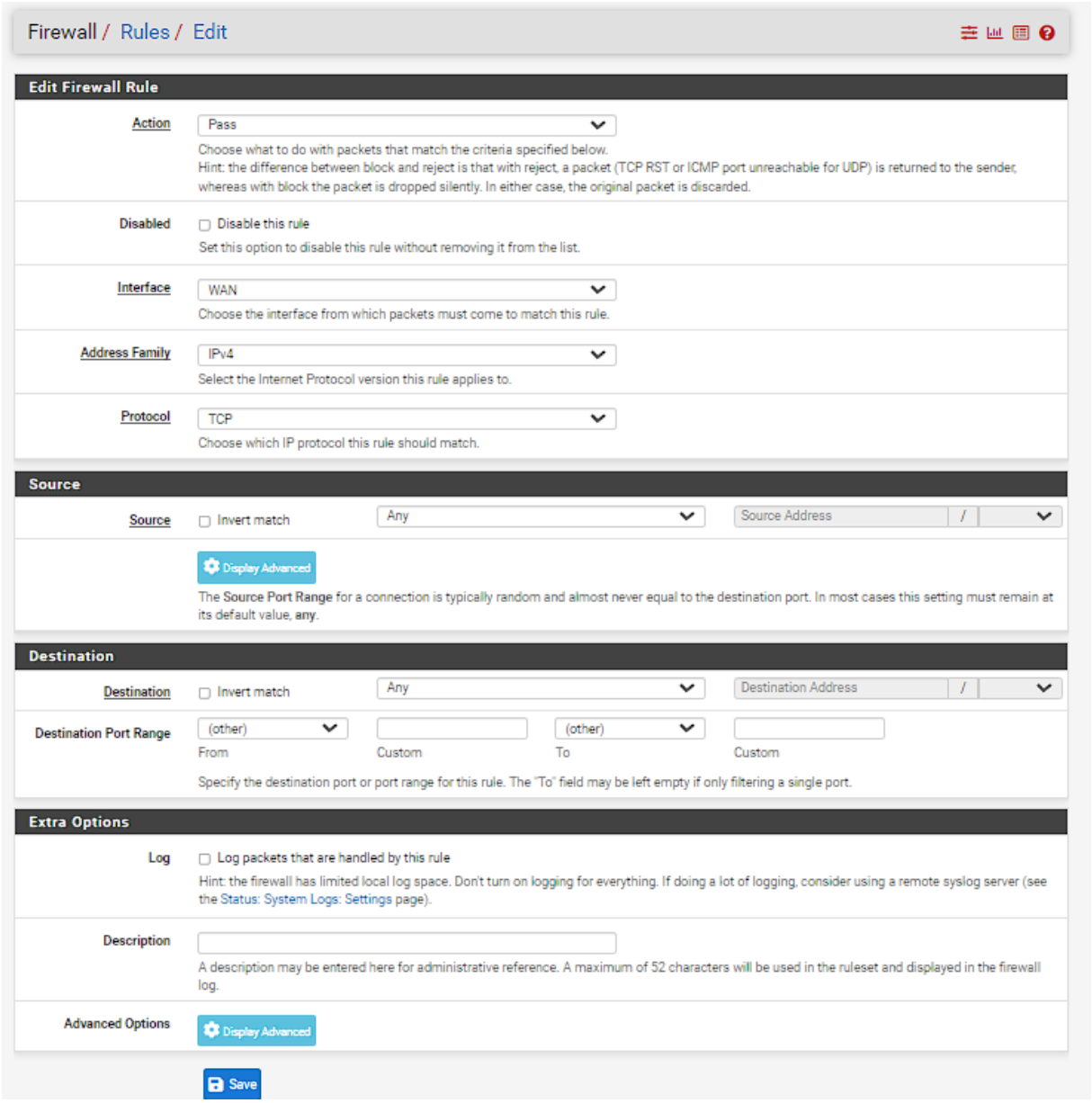
Vérifier accès interface WEB et si la machine ping internet



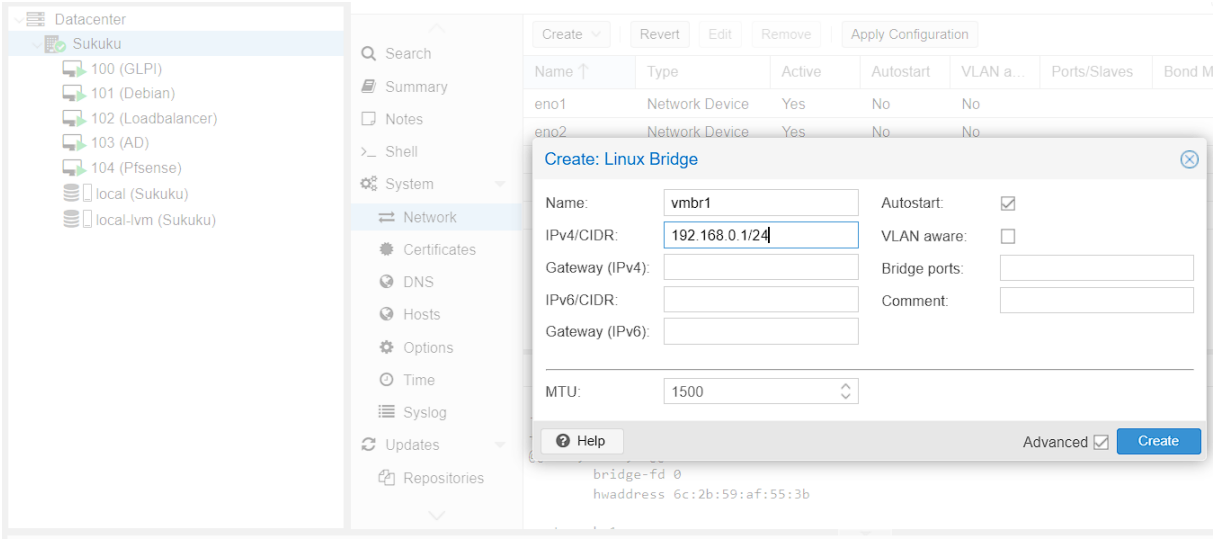
Connexion interface WEB
login admin

Mdp : pfsense

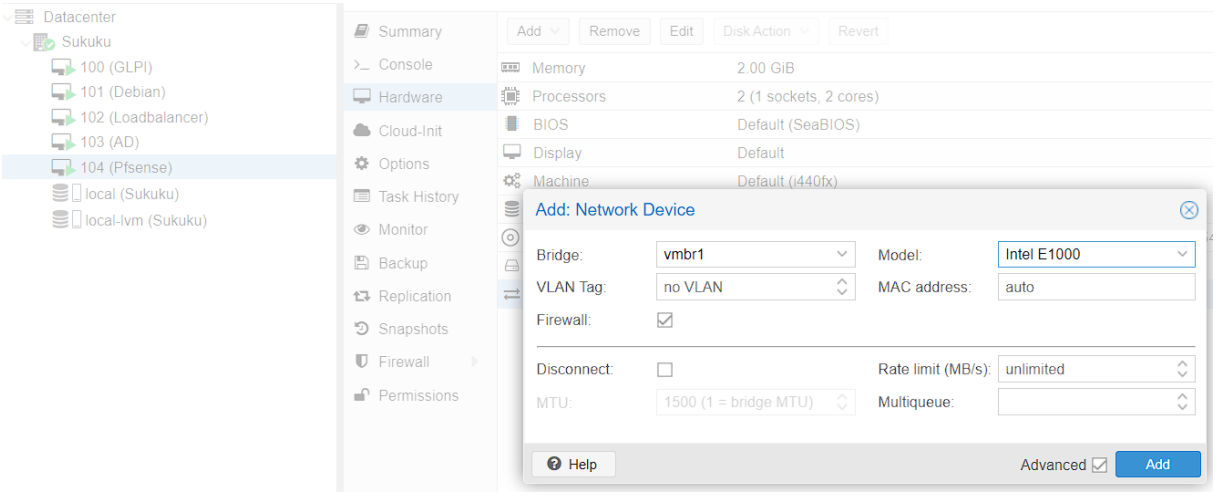
Ajout de la règle de firewall



Ajout 2 ème interface réseau

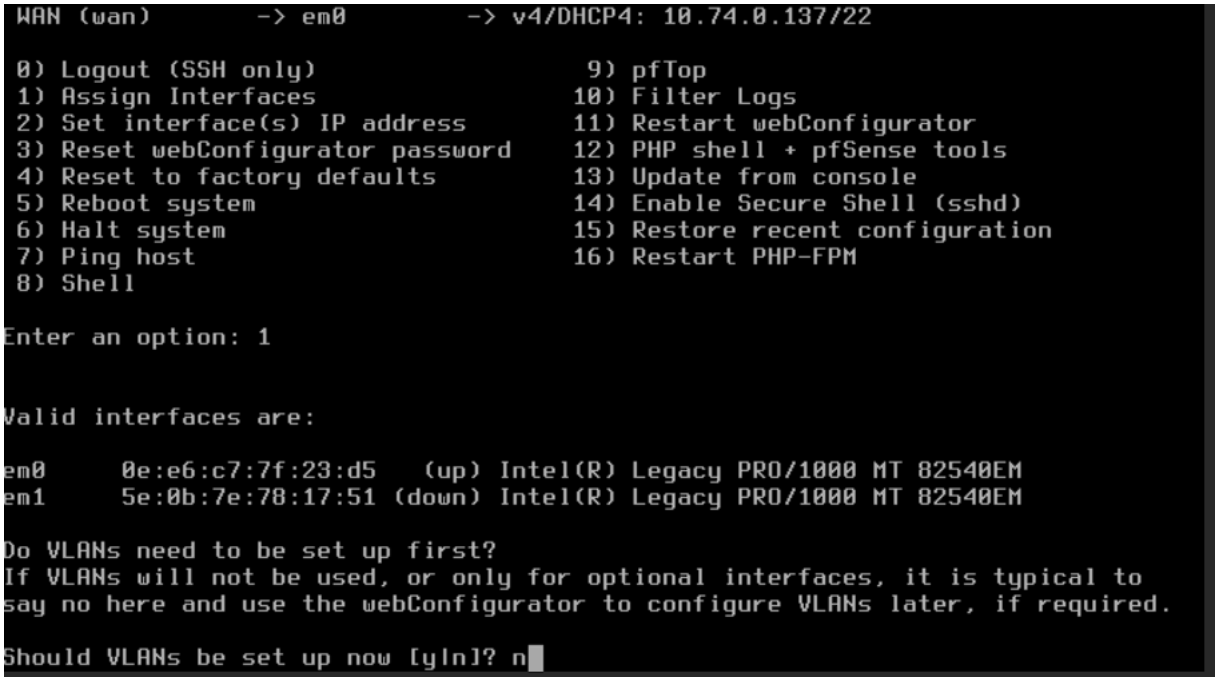


Add vmbr1 sur machine pfsense dans hardware



Reboot la machine pfsense

Après reboot sélectionner 1 pour configurer le WAN et le LAN



```
say no here and use the webConfigurator to configure VLANs later, if required.

Should VLANs be set up now [y|n]? n

If the names of the interfaces are not known, auto-detection can
be used instead. To use auto-detection, please disconnect all
interfaces before pressing 'a' to begin the process.

Enter the WAN interface name or 'a' for auto-detection
(em0 em1 or a): em0

Enter the LAN interface name or 'a' for auto-detection
NOTE: this enables full Firewalling/NAT mode.
(em1 a or nothing if finished): em1

The interfaces will be assigned as follows:

WAN  -> em0
LAN  -> em1

Do you want to proceed [y|n]? y

Writing configuration...done.
One moment while the settings are reloading... done!
```

Conf WAN

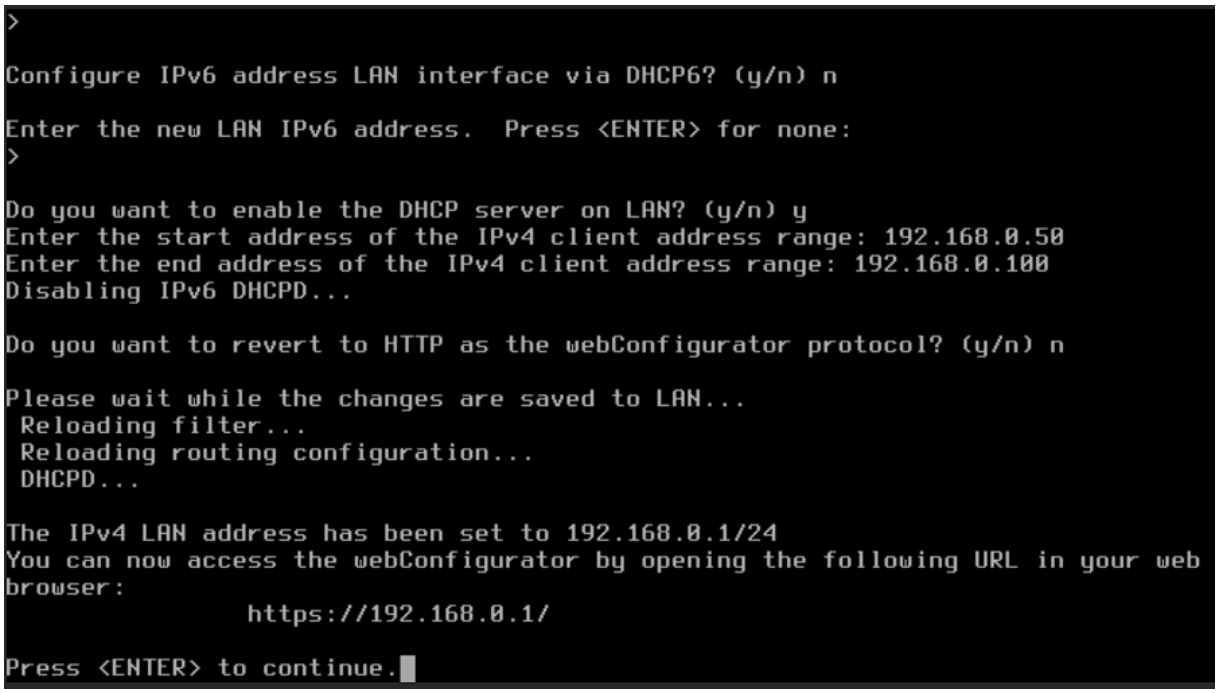
```
 6) Halt system                      15) Restore recent configuration
 7) Ping host                        16) Restart PHP-FPM
 8) Shell

Enter an option: 2

Available interfaces:

1 - WAN (em0 - dhcp, dhcp6)
2 - LAN (em1)

Enter the number of the interface you wish to configure: 1

Configure IPv4 address WAN interface via DHCP? (y/n) n

Enter the new WAN IPv4 address.  Press <ENTER> for none:
> 10.74.0.137

Subnet masks are entered as bit counts (as in CIDR notation) in pfSense.
e.g. 255.255.255.0 = 24
     255.255.0.0   = 16
     255.0.0.0     = 8

Enter the new WAN IPv4 subnet bit count (1 to 32):
> 22
```

```
For a LAN, press <ENTER> for none:
>

Configure IPv6 address WAN interface via DHCP6? (y/n) n

Enter the new WAN IPv6 address.  Press <ENTER> for none:
>

Do you want to enable the DHCP server on WAN? (y/n) n
Disabling IPv4 DHCPD...
Disabling IPv6 DHCPD...

Do you want to revert to HTTP as the webConfigurator protocol? (y/n) n

Please wait while the changes are saved to WAN...
 Reloading filter...
 Reloading routing configuration...
 DHCPD...

The IPv4 WAN address has been set to 10.74.0.137/22
You can now access the webConfigurator by opening the following URL in your web
browser:
                https://10.74.0.137/

Press <ENTER> to continue.
```

Conf LAN

```
Enter an option: 2

Available interfaces:

1 - WAN (em0 - static)
2 - LAN (em1)

Enter the number of the interface you wish to configure: 2

Configure IPv4 address LAN interface via DHCP? (y/n) n

Enter the new LAN IPv4 address.  Press <ENTER> for none:
> 192.168.0.1

Subnet masks are entered as bit counts (as in CIDR notation) in pfSense.
e.g. 255.255.255.0 = 24
     255.255.0.0   = 16
     255.0.0.0     = 8

Enter the new LAN IPv4 subnet bit count (1 to 32):
> 24

For a WAN, enter the new LAN IPv4 upstream gateway address.
For a LAN, press <ENTER> for none:
>
```

Conf DHCP range



Vérification :

Vérifier si le pfsense a internet
vérifier sur une machine qui est sur le LAN quelle est bien sur la bonne plage DHCP
Vérifier sur la machine sur le LAN a bien internet
Vérifier si la machine dans le LAN accède au pfsense en /24