

Machine Client :

Modification de Connexion filaire 1

Nom de connexion Connexion filaire 1

Général Ethernet Sécurité 802.1X DCB Proxy Paramètres IPv4 Paramètres IPv6

Méthode Manuel

Adresses

Adresse	Masque de réseau	Passerelle
192.168.4.10	24	192.168.4.254

Ajouter Supprimer

Serveurs DNS 1.1.1.1

Domaines de recherche

Identifiant de client DHCP

☐ Requiert un adressage IPv4 pour que cette connexion fonctionne

Routes...

Annuler ✓ Enregistrer

```
Terminal - liam@liam-VirtualBox: ~
Fichier  Édition  Affichage  Terminal  Onglets  Aide

liam@liam-VirtualBox:~$ ping google.fr
PING google.fr (142.250.75.227) 56(84) bytes of data:
64 octets de par10s41-in-f3.1e100.net (142.250.75.227) : icmp_seq=1 ttl=110 temp
=9.85 ms
64 octets de par10s41-in-f3.1e100.net (142.250.75.227) : icmp_seq=2 ttl=110 temp
=10.8 ms
64 octets de par10s41-in-f3.1e100.net (142.250.75.227) : icmp_seq=3 ttl=110 temp
=10.5 ms
C
--- statistiques ping google.fr ---
8 paquets transmis, 3 reçus, 0 % paquets perdus, temps 2009 ms
rtt min/avg/max/mdev = 9.845/10.377/10.759/0.388 ms
liam@liam-VirtualBox:~$
```

Kali Linux :

Wired

Details
Security
Identity
IPv4
IPv6
Reset

IPv4

Addresses Manual

Address

Netmask

Gateway

+

DNS Automatic

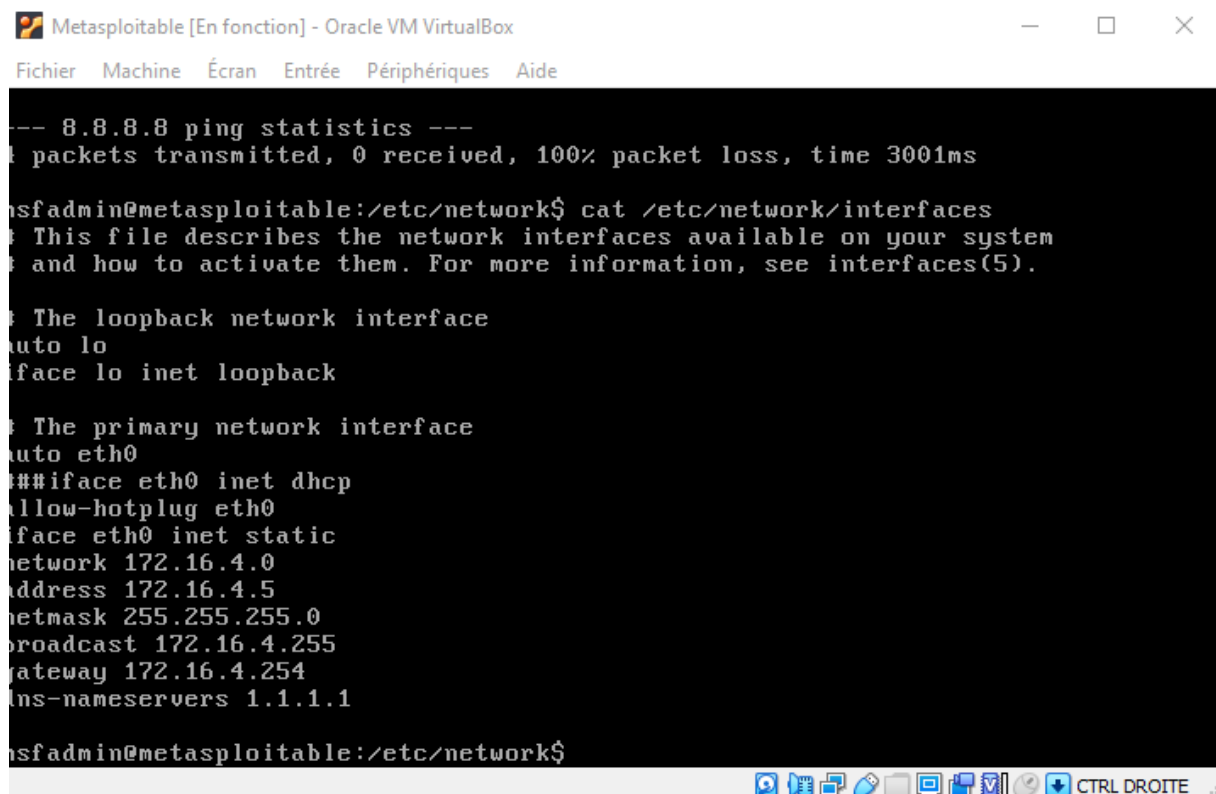
Server

+

Cancel Apply

```
root@kali: ~  
File Edit View Search Terminal Help  
root@kali:~# ping google.fr  
PING google.fr (172.217.22.131) 56(84) bytes of data:  
64 bytes from par21s12-in-f3.1e100.net (172.217.22.131): icmp_seq=1 ttl=110 time  
11.8 ms  
64 bytes from par21s12-in-f3.1e100.net (172.217.22.131): icmp_seq=2 ttl=110 time  
12.0 ms  
64 bytes from par21s12-in-f3.1e100.net (172.217.22.131): icmp_seq=3 ttl=110 time  
11.4 ms  
^C  
--- google.fr ping statistics ---  
8 packets transmitted, 3 received, 0% packet loss, time 2004ms  
rtt min/avg/max/mdev = 11.485/11.777/12.027/0.256 ms  
root@kali:~#
```

Metasploit :



Metasploitable [En fonction] - Oracle VM VirtualBox

Fichier Machine Écran Entrée Périphériques Aide

```
--- 8.8.8.8 ping statistics ---
4 packets transmitted, 0 received, 100% packet loss, time 3001ms

nsfadmin@metasploitable:/etc/network$ cat /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

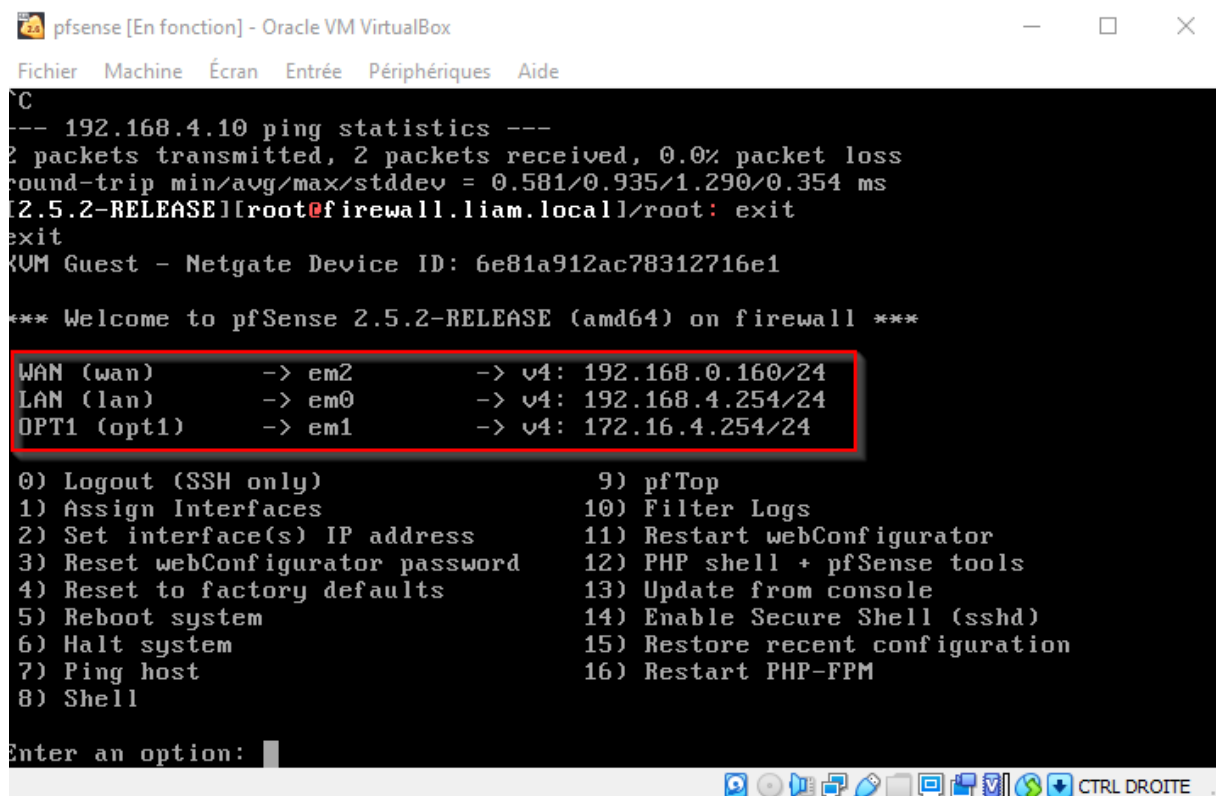
# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
##iface eth0 inet dhcp
allow-hotplug eth0
iface eth0 inet static
network 172.16.4.0
address 172.16.4.5
netmask 255.255.255.0
broadcast 172.16.4.255
gateway 172.16.4.254
dns-nameservers 1.1.1.1

nsfadmin@metasploitable:/etc/network$
```

Pfsense :

Installation : <https://techexpert.tips/fr/pfsense-fr/installation-du-serveur-pfsense/>



pfSense [En fonction] - Oracle VM VirtualBox

Fichier Machine Écran Entrée Périphériques Aide

```
^C
--- 192.168.4.10 ping statistics ---
2 packets transmitted, 2 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 0.581/0.935/1.290/0.354 ms
[2.5.2-RELEASE][root@firewall.liam.local]/root: exit
exit
KVM Guest - Netgate Device ID: 6e81a912ac78312716e1

*** Welcome to pfSense 2.5.2-RELEASE (amd64) on firewall ***

WAN (wan)      -> em2      -> v4: 192.168.0.160/24
LAN (lan)      -> em0      -> v4: 192.168.4.254/24
OPT1 (opt1)    -> em1      -> v4: 172.16.4.254/24

0) Logout (SSH only)          9) pfTop
1) Assign Interfaces          10) Filter Logs
2) Set interface(s) IP address 11) Restart webConfigurator
3) Reset webConfigurator password 12) PHP shell + pfSense tools
4) Reset to factory defaults    13) Update from console
5) Reboot system               14) Enable Secure Shell (sshd)
6) Halt system                 15) Restore recent configuration
7) Ping host                   16) Restart PHP-FPM
8) Shell

Enter an option: 
```

Identifiants de connexion :

admin

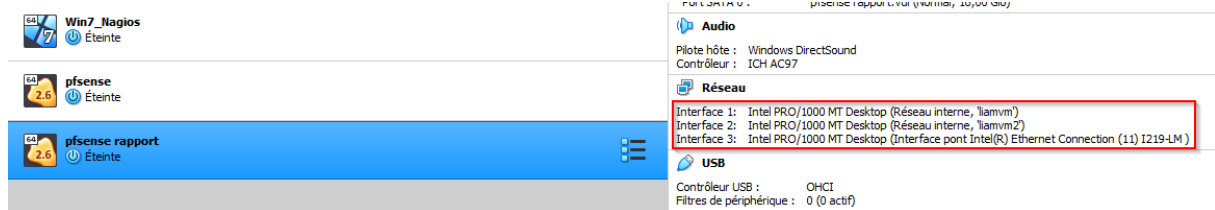
pfsense

Éléments modifié dans la page de mise en route pfsense :

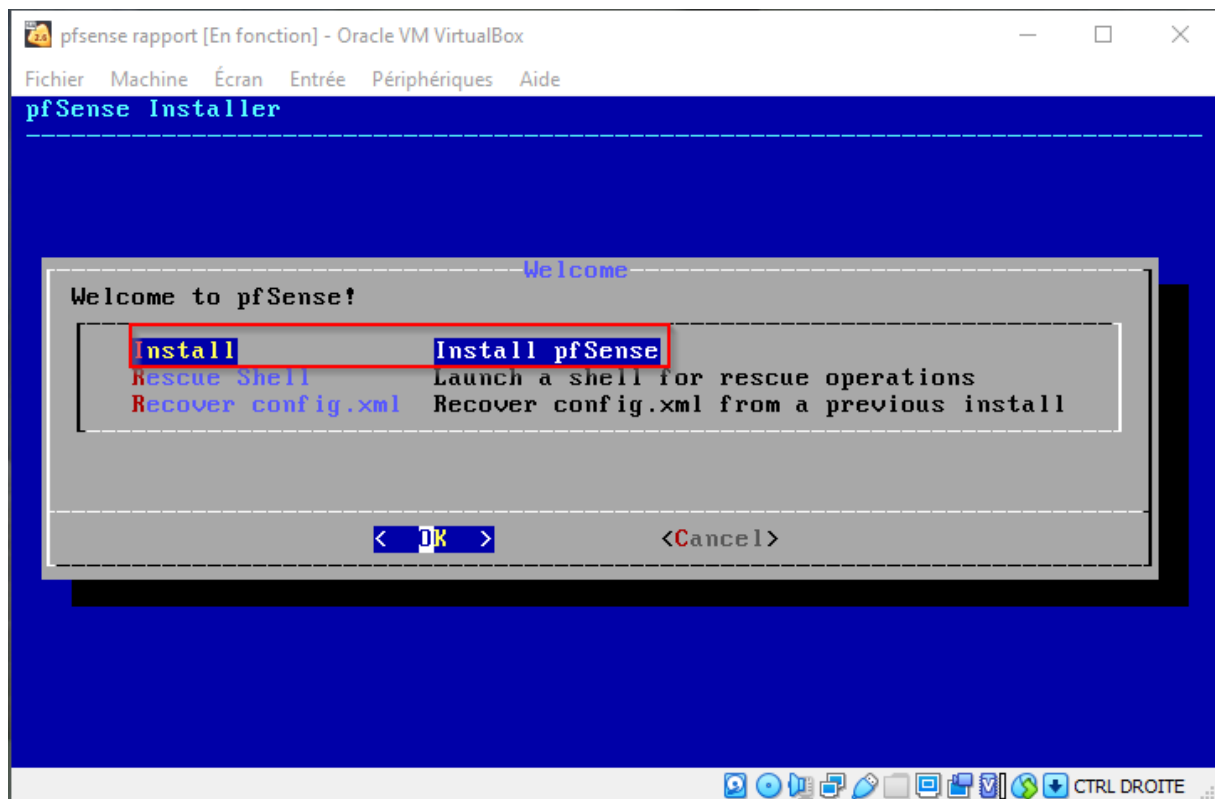
Hostname	<input type="text" value="firewall"/>	
	Name of the firewall host, without domain part	
Domain	<input type="text" value="liam.local"/>	
	Do not end the domain name with 'local' as the final part (Top Level Domain, TLD). The 'local' TLD is widely used by mDNS (e.g. Avahi, Bonjour, Rendezvous, AirPrint, AirPlay) and some Windows systems and networked devices. These will not network correctly if the router uses 'local' as its TLD. Alternative TLDs such as 'local.lan' or 'mylocal' are safe.	
DNS Server Settings		
DNS Servers	<input type="text" value="192.168.0.1"/>	<input type="text" value="DNS Hostname"/> Delete
	<input type="text" value="1.1.1.1"/>	<input type="text" value="DNS Hostname"/> Delete
	Address Enter IP addresses to be used by the system for DNS resolution. These are also used for the DHCP service, DNS Forwarder and DNS Resolver when it has DNS Query Forwarding enabled.	
	Hostname Enter the DNS Server Hostname for TLS Verification in the DNS Resolver (optional).	
Add DNS Server	+ Add DNS Server	
DNS Server Override	<input checked="" type="checkbox"/> Allow DNS server list to be overridden by DHCP/PPP on WAN If this option is set, pfsense will use DNS servers assigned by a DHCP/PPP server on WAN for its own purposes (including the DNS Forwarder/DNS Resolver). However, they will not be assigned to DHCP clients.	
DNS Resolution Behavior	<input type="text" value="Use local DNS (127.0.0.1), fall back to remote DNS Servers (Default)"/> v By default the firewall will use local DNS service (127.0.0.1, DNS Resolver or Forwarder) as the first DNS server when possible, and it will fall back to remote DNS servers otherwise. Use this option to choose alternate behaviors.	
Localization		
Timezone	<input type="text" value="Europe/Paris"/>	
	Select a geographic region name (Continent/Location) to determine the timezone for the firewall. Choose a special or "Etc" zone only in cases where the geographic zones do not properly handle the clock offset required for this firewall.	
Timeservers	<input type="text" value="2.pool.ntp.org"/>	
	Use a space to separate multiple hosts (only one required). Remember to set up at least one DNS server if a host name is entered here!	

Rapport détaillé pfsense :

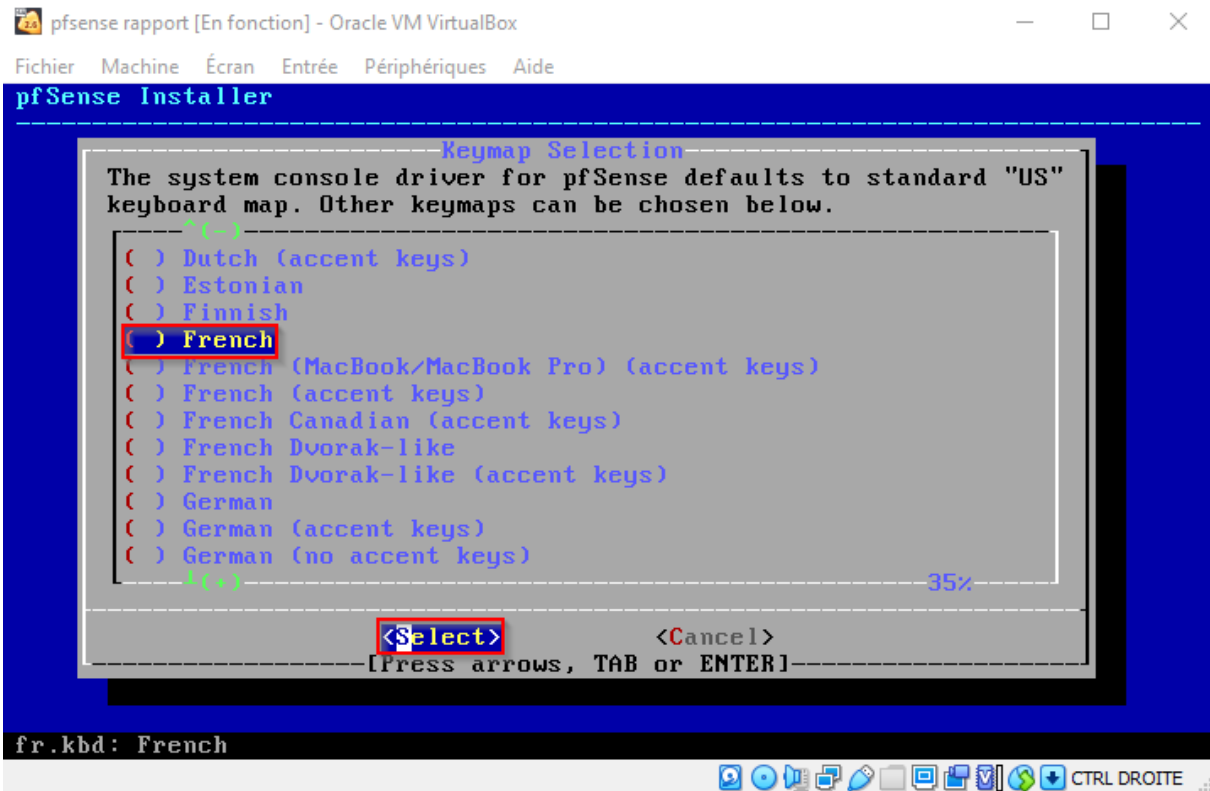
Configuration de 3 cartes réseau sous virtualbox :



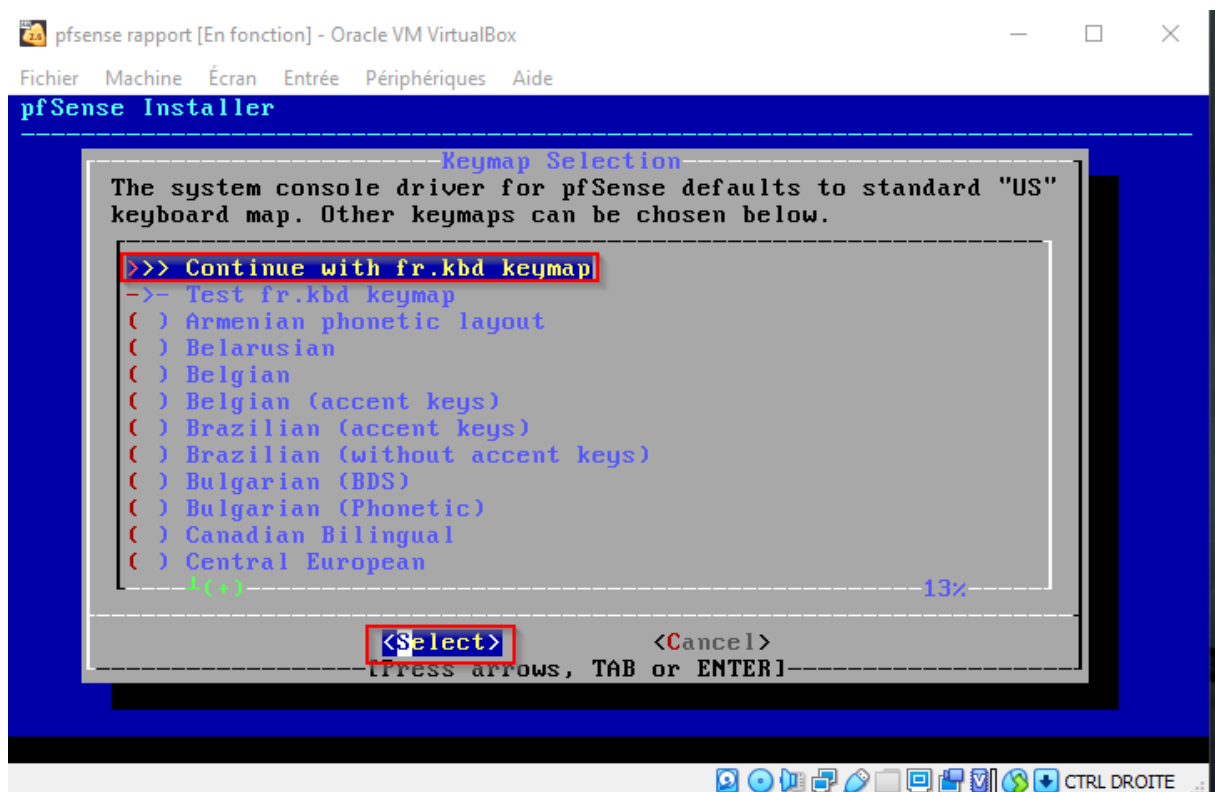
Install



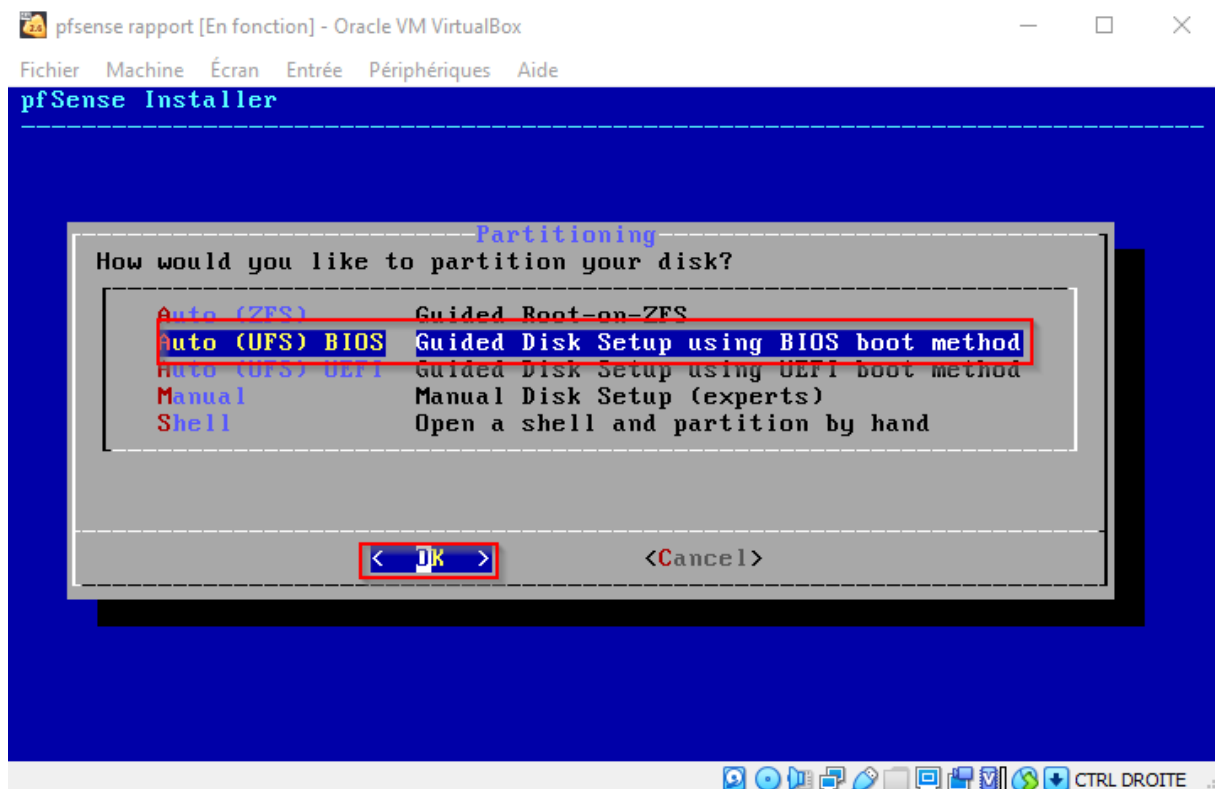
Clavier français (french)



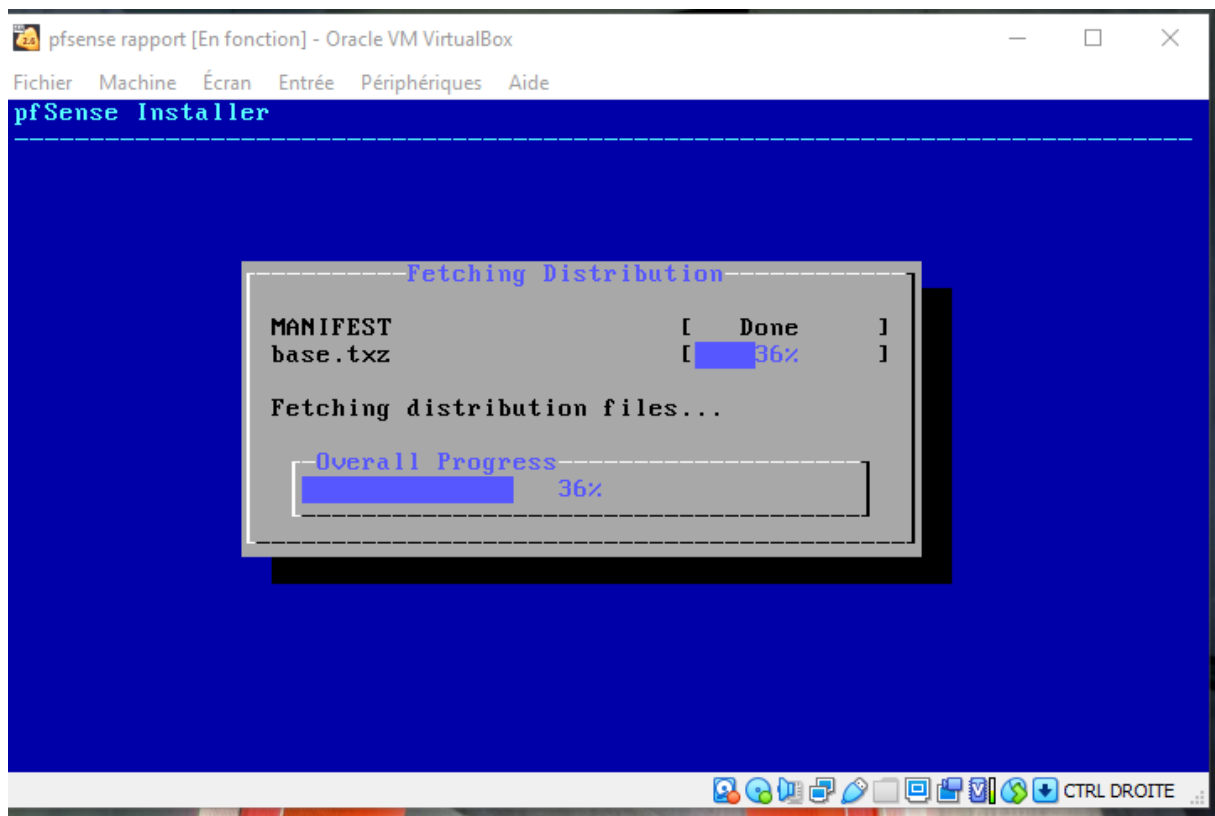
Continue with fr.kbd keymap



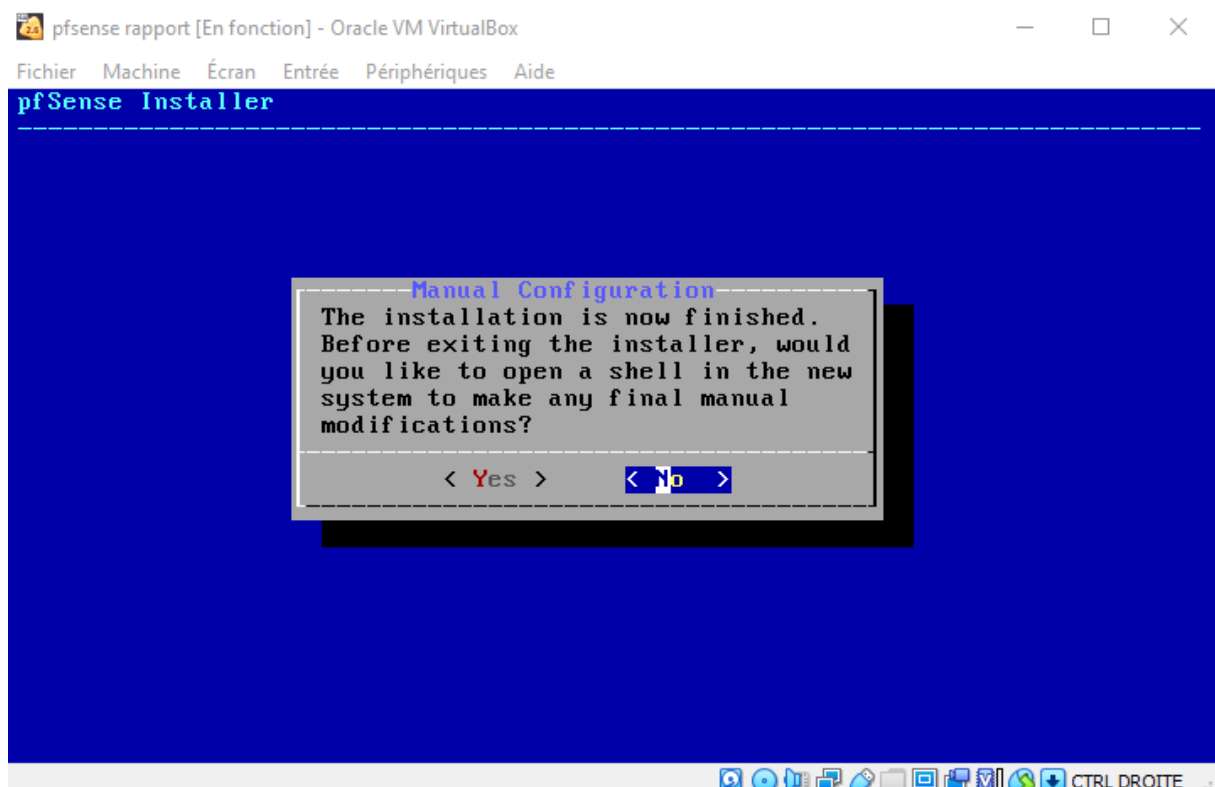
Utiliser la méthode automatique BIOS



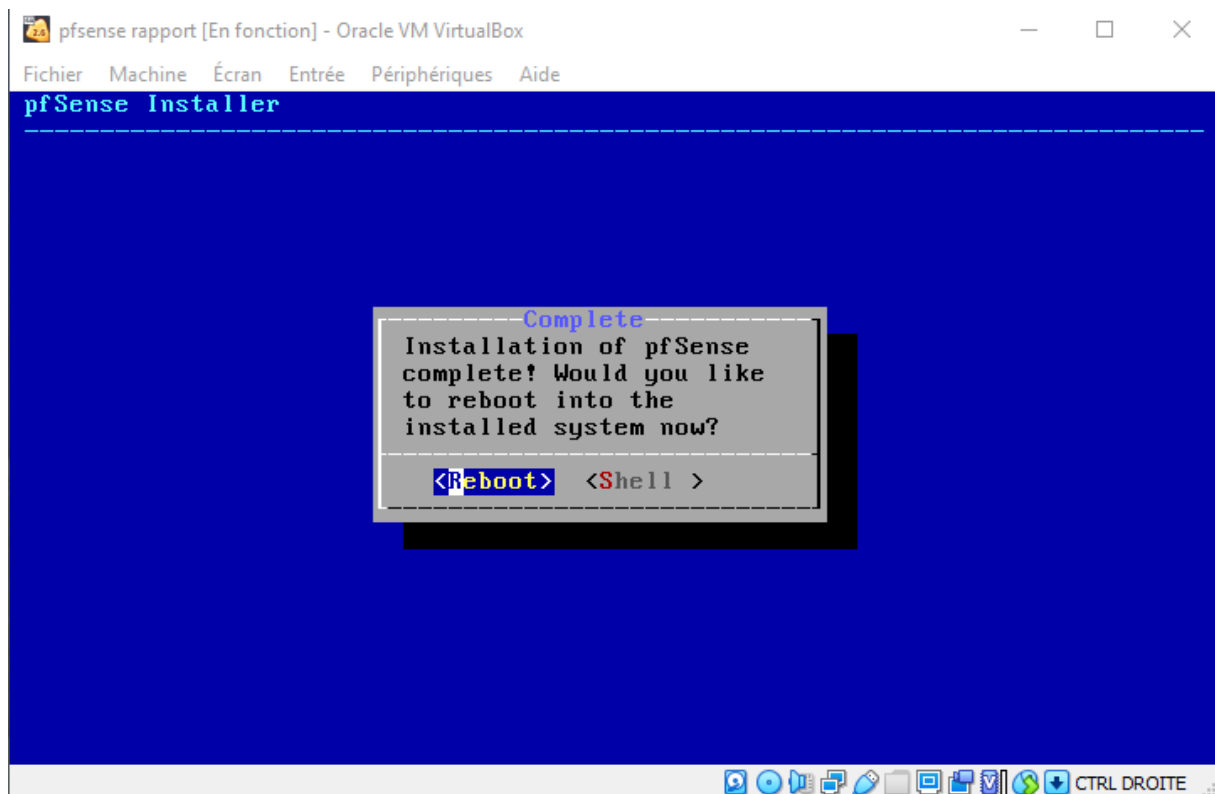
Installation :



Sélectionner non



Redémarrer



Configuration des cartes réseaux :

Réseau WAN :

```
pfsense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
Starting syslog...done.
Starting CRON... done.
pfSense 2.5.2-RELEASE amd64 Fri Jul 02 15:33:00 EDT 2021
Bootup complete

FreeBSD/amd64 (pfSense.home.arp) (ttyv0)
KVM Guest - Netgate Device ID: 110a33450d77a6c2983b

*** Welcome to pfSense 2.5.2-RELEASE (amd64) on pfSense ***

WAN (wan)      -> em0      ->
LAN (lan)      -> em1      -> v4: 192.168.1.1/24

0) Logout (SSH only)          9) pfTop
1) Assign Interfaces          10) Filter Logs
2) Set interface(s) IP address 11) Restart webConfigurator
3) Reset webConfigurator password 12) PHP shell + pfSense tools
4) Reset to factory defaults  13) Update from console
5) Reboot system              14) Enable Secure Shell (sshd)
6) Halt system                15) Restore recent configuration
7) Ping host                  16) Restart PHP-FPM
8) Shell

Enter an option: 1
```

```
pfsense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide

0) Logout (SSH only)          9) pfTop
1) Assign Interfaces          10) Filter Logs
2) Set interface(s) IP address 11) Restart webConfigurator
3) Reset webConfigurator password 12) PHP shell + pfSense tools
4) Reset to factory defaults  13) Update from console
5) Reboot system              14) Enable Secure Shell (sshd)
6) Halt system                15) Restore recent configuration
7) Ping host                  16) Restart PHP-FPM
8) Shell

Enter an option: 1

Valid interfaces are:

em0      08:00:27:48:cc:1b   (up) Intel(R) PRO/1000 Network Connection
em1      08:00:27:c4:9d:69   (up) Intel(R) PRO/1000 Network Connection
em2      08:00:27:a0:ce:0c   (down) Intel(R) PRO/1000 Network Connection

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]? n
```

```
pfsense rapport [En fonction] - Oracle VM VirtualBox
Fichier  Machine  Écran  Entrée  Périphériques  Aide

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

Enter an option: 1

Valid interfaces are:

em0      08:00:27:48:cc:1b   (up) Intel(R) PRO/1000 Network Connection
em1      08:00:27:c4:9d:69   (up) Intel(R) PRO/1000 Network Connection
em2      08:00:27:a0:ce:0c (down) Intel(R) PRO/1000 Network Connection

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]? 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 em2 or a): em2
```

```
pfsense rapport [En fonction] - Oracle VM VirtualBox
Fichier  Machine  Écran  Entrée  Périphériques  Aide

Enter an option: 1

Valid interfaces are:

em0      08:00:27:48:cc:1b   (up) Intel(R) PRO/1000 Network Connection
em1      08:00:27:c4:9d:69   (up) Intel(R) PRO/1000 Network Connection
em2      08:00:27:a0:ce:0c (down) Intel(R) PRO/1000 Network Connection

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If VLANs will not be used, or only for optional interfaces, it is typical to
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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 em2 or a): em2

Enter the LAN interface name or 'a' for auto-detection
NOTE: this enables full Firewalling/NAT mode.
(em0 em1 a or nothing if finished): em0
```

```
pfSense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide

Valid interfaces are:

em0      08:00:27:48:cc:1b   (up) Intel(R) PRO/1000 Network Connection
em1      08:00:27:c4:9d:69   (up) Intel(R) PRO/1000 Network Connection
em2      08:00:27:a0:ce:0c   (down) Intel(R) PRO/1000 Network Connection

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]? 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 em2 or a): em2

Enter the LAN interface name or 'a' for auto-detection
NOTE: this enables full Firewalling/NAT mode.
(em0 em1 a or nothing if finished): em0

Enter the Optional 1 interface name or 'a' for auto-detection
(em1 a or nothing if finished): em1
```

```
pfSense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide

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 em2 or a): em2

Enter the LAN interface name or 'a' for auto-detection
NOTE: this enables full Firewalling/NAT mode.
(em0 em1 a or nothing if finished): em0

Enter the Optional 1 interface name or 'a' for auto-detection
(em1 a or nothing if finished): em1

The interfaces will be assigned as follows:

WAN -> em2
LAN -> em0
OPT1 -> em1

Do you want to proceed [y/n]? y
```

```
pfSense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
PT1 -> em1

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

Writing configuration...done.
One moment while the settings are reloading... done!
KVM Guest - Netgate Device ID: 110a33450d77a6c2983b

*** Welcome to pfSense 2.5.2-RELEASE (amd64) on pfSense ***

WAN (wan)      -> em2      ->
LAN (lan)      -> em0      -> v4: 192.168.1.1/24
OPT1 (opt1)    -> em1      ->

0) Logout (SSH only)          9) pfTop
1) Assign Interfaces          10) Filter Logs
2) Set interface(s) IP address 11) Restart webConfigurator
3) Reset webConfigurator password 12) PHP shell + pfSense tools
4) Reset to factory defaults  13) Update from console
5) Reboot system              14) Enable Secure Shell (sshd)
6) Halt system                15) Restore recent configuration
7) Ping host                  16) Restart PHP-FPM
8) Shell

Enter an option: 2
```

```
pfSense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide

Available interfaces:
1 - WAN (em2 - dhcp, dhcp6)
2 - LAN (em0 - static)
3 - OPT1 (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:
> 192.168.0.160

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 31):
> 24

For a WAN, enter the new WAN IPv4 upstream gateway address.
For a LAN, press <ENTER> for none:
> 192.168.0.3
```

```
pfsense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
Enter the new WAN IPv4 subnet bit count (1 to 31):
> 24

For a WAN, enter the new WAN IPv4 upstream gateway address.
For a LAN, press <ENTER> for none:
> 192.168.0.3

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

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

Disabling IPv4 DHCPD...
Disabling IPv6 DHCPD...

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

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

The IPv4 WAN address has been set to 192.168.0.160/24

Press <ENTER> to continue.
```

Réseau LAN 1 :

```
pfsense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide

Enter an option: 2

Available interfaces:
1 - WAN (em2 - static)
2 - LAN (em0 - static)
3 - OPT1 (em1)

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

Enter the new LAN IPv4 address. Press <ENTER> for none:
> 192.168.4.254

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 31):
> 24

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

```
pfSense rapport [En fonction] - Oracle VM VirtualBox
Fichier  Machine  Écran  Entrée  Périphériques  Aide
Enter the new LAN IPv4 subnet bit count (1 to 31):
> 24

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

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

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

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

The IPv4 LAN address has been set to 192.168.4.254/24
You can now access the webConfigurator by opening the following URL in your web
browser:
      http://192.168.4.254/

Press <ENTER> to continue.
```

Réseau LAN 2 :

```
pfSense rapport [En fonction] - Oracle VM VirtualBox
Fichier  Machine  Écran  Entrée  Périphériques  Aide
Enter an option: 2

Available interfaces:
1 - WAN (em2 - static)
2 - LAN (em0 - static)
3 - OPT1 (em1)

Enter the number of the interface you wish to configure: 3

Enter the new OPT1 IPv4 address. Press <ENTER> for none:
> 172.16.4.254

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 OPT1 IPv4 subnet bit count (1 to 31):
> 24

For a WAN, enter the new OPT1 IPv4 upstream gateway address.
For a LAN, press <ENTER> for none: Réseaux LAN = entrée
>
```

```
pfsense rapport [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide
255.255.0.0 = 16
255.0.0.0 = 8

Enter the new OPT1 IPv4 subnet bit count (1 to 31):
> 24

For a WAN, enter the new OPT1 IPv4 upstream gateway address.
For a LAN, press <ENTER> for none:
>

Entrée
Enter the new OPT1 IPv6 address. Press <ENTER> for none:
>

Entrée
Do you want to enable the DHCP server on OPT1? (y/n) n
Disabling IPv4 DHCPD...
Disabling IPv6 DHCPD...

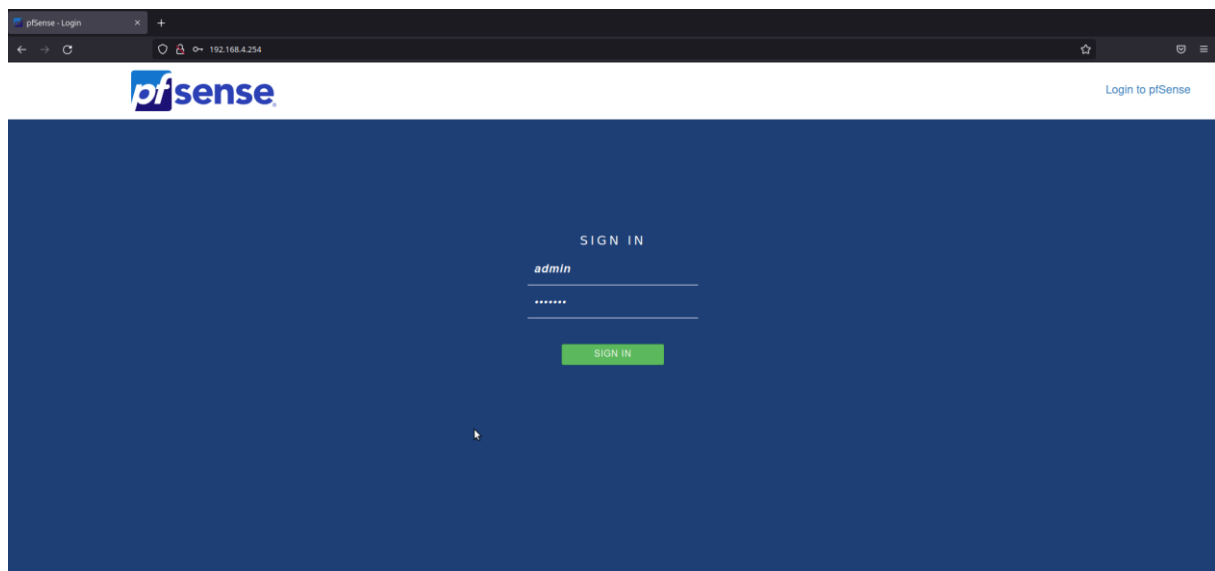
Please wait while the changes are saved to OPT1...
Reloading filter...
Reloading routing configuration...
DHCPD...

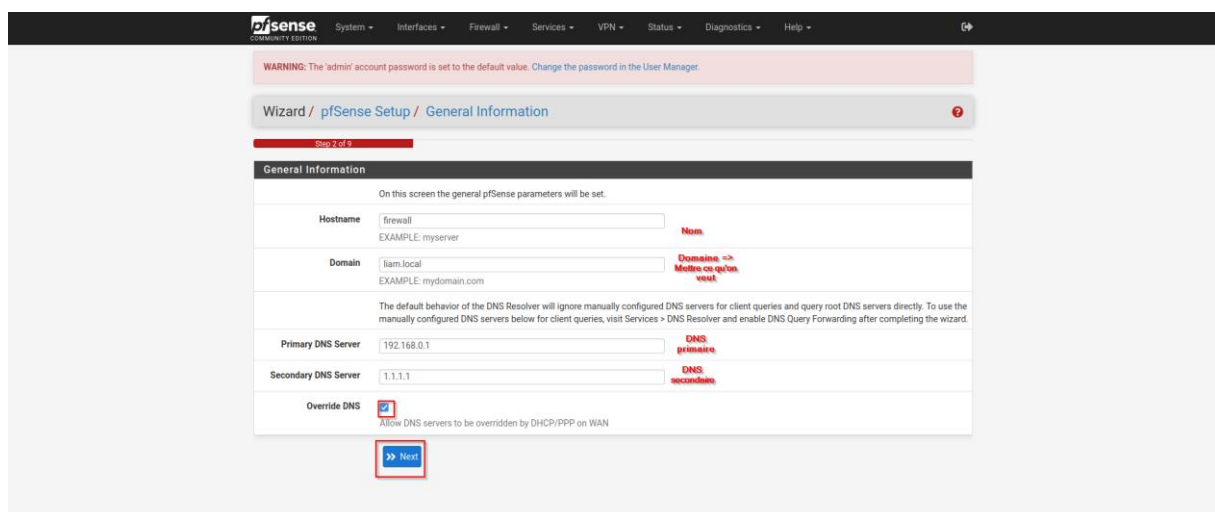
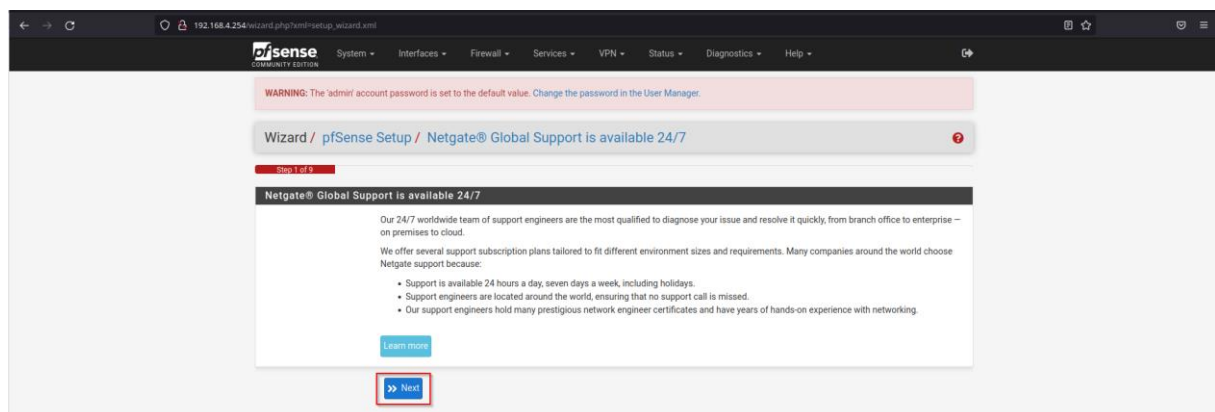
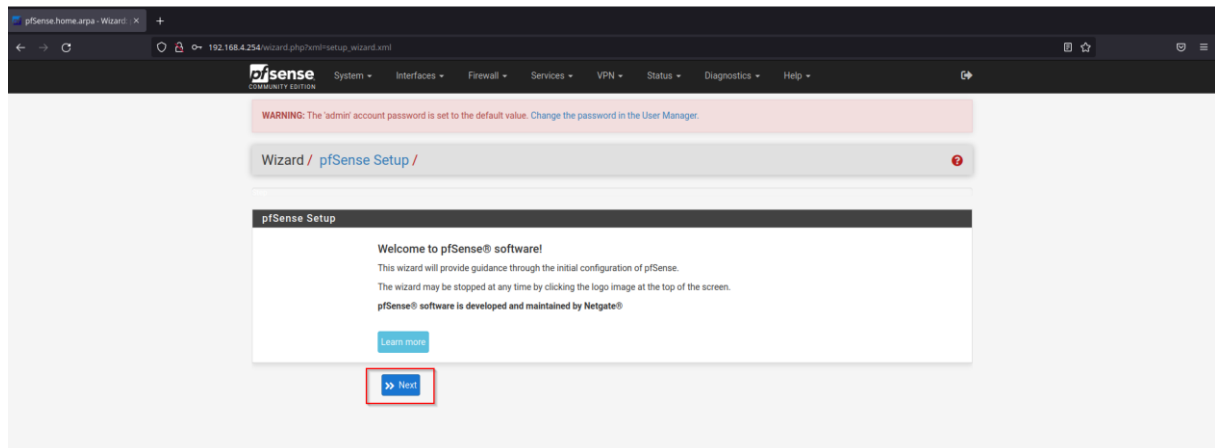
The IPv4 OPT1 address has been set to 172.16.4.254/24
Press <ENTER> to continue.
```

Sur l'ordinateur client, se connecter sur 192.168.4.254 avec les identifiants :

admin

pfsense





192.168.4.254/wizard.php?xml=setup_wizard.xml

pfSense
COMMUNITY EDITION

System ▾ Interfaces ▾ Firewall ▾ Services ▾ VPN ▾ Status ▾ Diagnostics ▾ Help ▾

WARNING: The 'admin' account password is set to the default value. Change the password in the User Manager.

Wizard / pfSense Setup / Time Server Information

Step 3 of 9

Time Server Information

Please enter the time, date and time zone.

Time server hostname
Enter the hostname (FQDN) of the time server.

Timezone

[» Next](#)

192.168.4.254/wizard.php?xml=setup_wizard.xml

pfSense
COMMUNITY EDITION

System ▾ Interfaces ▾ Firewall ▾ Services ▾ VPN ▾ Status ▾ Diagnostics ▾ Help ▾

WARNING: The 'admin' account password is set to the default value. Change the password in the User Manager.

Wizard / pfSense Setup / Configure WAN Interface

Step 4 of 9

Configure WAN Interface

On this screen the Wide Area Network information will be configured.

Selected Type

General configuration

MAC Address
This field can be used to modify ("spoof") the MAC address of the WAN interface (may be required with some cable connections). Enter a MAC address in the following format: xxxxxxxxxx or leave blank.

MTU
Set the MTU of the WAN interface. If this field is left blank, an MTU of 1492 bytes for PPPoE and 1500 bytes for all other connection types will be assumed.

MSS
If a value is entered in this field, then MSS clamping for TCP connections to the value entered above minus 40 (TCP/IP header size) will be in effect. If this field is left blank, an MSS of 1492 bytes for PPPoE and 1500 bytes for all other connection types will be assumed. This should match the above MTU value in most all cases.

Static IP Configuration

IP Address

Subnet Mask

[» Next](#)

Laisser par défaut sur cette page

192.168.4.254/wizard.php?xml=setup_wizard.xml

pfSense
COMMUNITY EDITION

System ▾ Interfaces ▾ Firewall ▾ Services ▾ VPN ▾ Status ▾ Diagnostics ▾ Help ▾

WARNING: The 'admin' account password is set to the default value. Change the password in the User Manager.

Wizard / pfSense Setup / Configure LAN Interface

Step 5 of 9

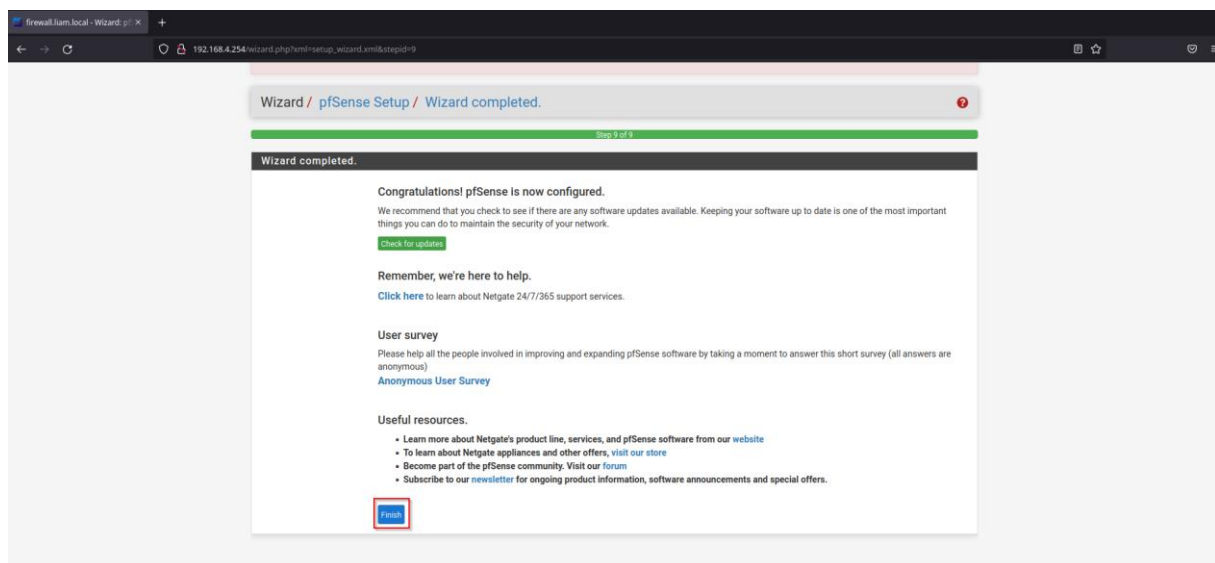
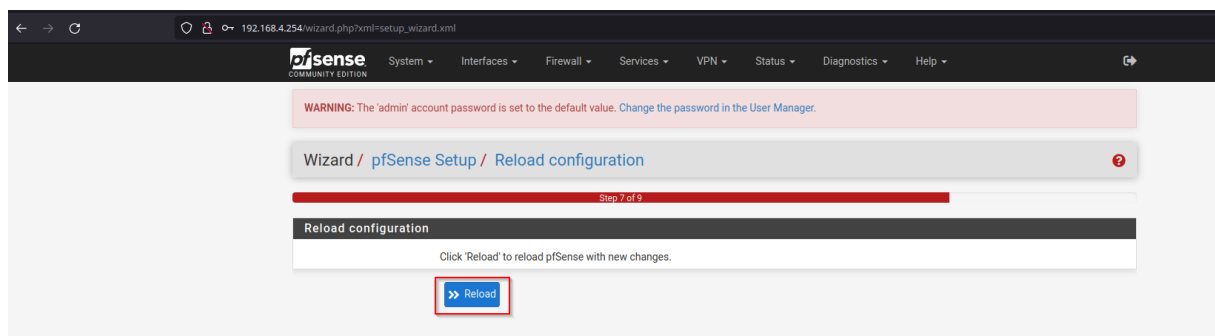
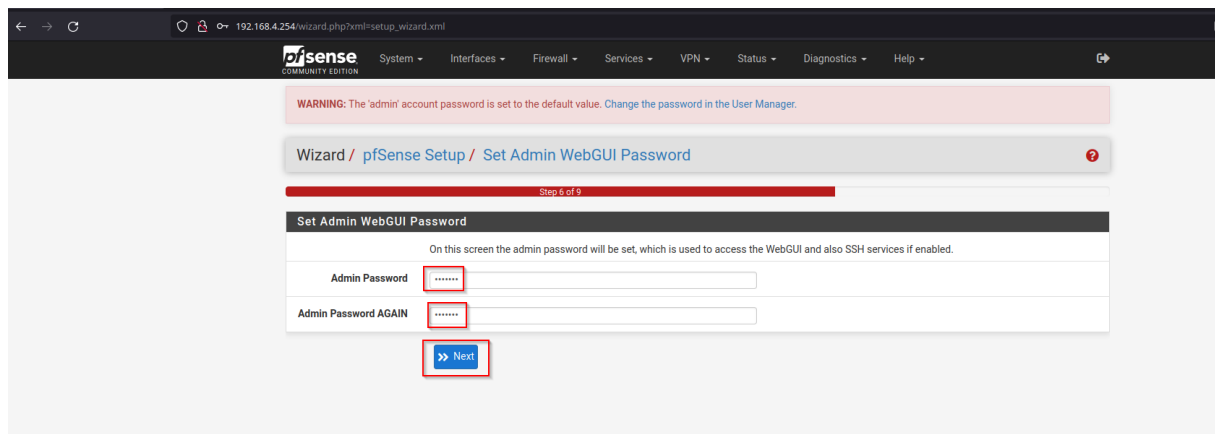
Configure LAN Interface

On this screen the Local Area Network information will be configured.

LAN IP Address
Type dhcp if this interface uses DHCP to obtain its IP address.

Subnet Mask

[» Next](#)



Configuration terminée :

freewall.ljam.local - Status: OK

192.168.4.254

Name	freewall.ljam.local
User	admin@192.168.4.10 (Local Database)
System	KVM Guest Netgate Device ID: 110a33450d77a6c2983b
BIOS	Vendor: innotek GmbH Version: VirtualBox Release Date: Fri Dec 1 2006
Version	2.5.2-RELEASE (amd64) built on Fri Jul 02 15:33:00 EDT 2021 FreeBSD 12.2-STABLE <small>The system is on the latest version. Version information updated at Thu Sep 23 10:48:59 CEST 2021</small>
CPU Type	Intel(R) Core(TM) i5-10500 CPU @ 3.10GHz 3 CPUs: 1 package(s) x 3 cache groups x 1 core(s) AES-NI CPU Crypto: Yes (inactive) QAT Crypto: No
Hardware crypto	
Kernel PTI	Disabled
MDS Mitigation	Inactive
Uptime	00 Hour 21 Minutes 10 Seconds
Current date/time	Thu Sep 23 10:48:52 CEST 2021
DNS server(s)	<ul style="list-style-type: none">127.0.0.1192.168.0.11.1.1.1
Last config change	Thu Sep 23 10:48:29 CEST 2021
State table size	0% (306/198000) Show states
MBUF Usage	0% (3006/1000000)

Contract type Community Support
Community Support Only

NETGATE AND pSense COMMUNITY SUPPORT RESOURCES

If you purchased your pSense gateway firewall appliance from Netgate and elected **Community Support** at the point of sale or installed pSense on your own hardware, you have access to various community support resources. This includes the **NETGATE RESOURCE LIBRARY**.

You also may upgrade to a Netgate Global Technical Assistance Center (TAC) Support subscription. We're always on! Our team is staffed 24x7x365 and committed to delivering enterprise-class, worldwide support at a price point that is more than competitive when compared to others in our space.

- Upgrade Your Support
- Community Support Resources
- Netgate Global Support FAQ
- Official pSense Training by Netgate
- Netgate Professional Services
- Visit Netgate.com

If you decide to purchase a Netgate Global TAC Support subscription, you **MUST** have your Netgate Device ID (NDI) from your firewall in order to validate support for this unit. Write down your NDI and store it in a safe place. You can purchase TAC support [here](#).

Interfaces

WAN	1000baseT <full-duplex>	192.168.0.160
LAN	1000baseT <full-duplex>	192.168.4.254
OPT1	1000baseT <full-duplex>	172.16.4.254