Installation de pfSense

Récupérez les informations liées à votre propre réseau. Dans ce mode opératoire, nous utiliserons les éléments suivants :

• IP Réseau local (LAN): 172.16.0.101/16

• IP Réseau INTERNET (WAN): 192.168.42.1/24

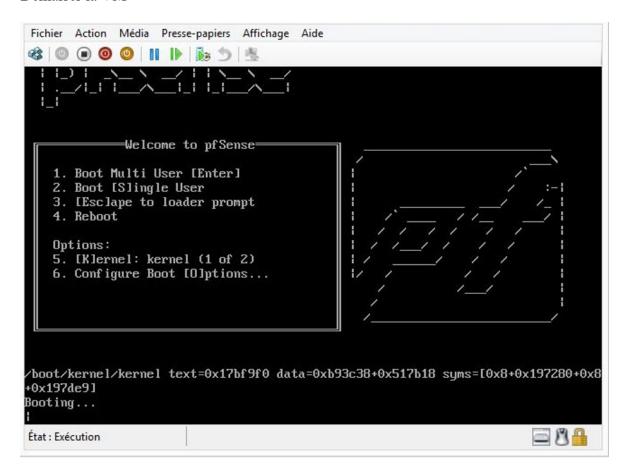
• IP DMZ: 172.17.0.101/16

• IP PASSERELLE Internet: 192.168.42.254/24 (Ip du routeur ou box internet)

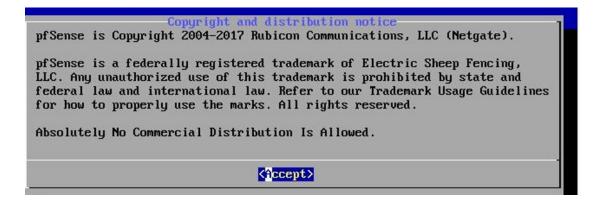
• IP DNS1 Internet : 192.168.42.254 (Passerelle d'accès à internet / Box)

• IP DNS2 Internet: 8.8.8.8 (DNS Google)

Démarrer la VM



Accepter la licence



Install pfSense : OK

```
Welcome to pfSense!

Install Install pfSense
Rescue Shell Launch a shell for rescue operations
Recover config.xml Recover config.xml from a previous install

Cancel>
```

Sélectionner French dans le menu déroulant

```
The system console driver for pfSense defaults to standard "US" keyboard map. Other keymaps can be chosen below.

( ) Central European
( ) Central European (QWERTY)
( ) Colemak ergonomic alternative
( ) Croatian
( ) Czech (QWERTZ, accent keys)
( ) Danish
( ) Danish (accent keys)
( ) Danish (macbook)
( ) Dutch (accent keys)
( ) Estonian
( ) Finnish
( ) French

Cancel>

[Press arrows, TAB or ENTER]
```

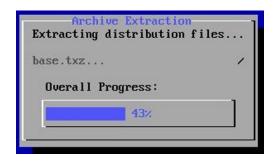
Sélectionner le type et la langue du clavier : Continue with fr.kbd keymap



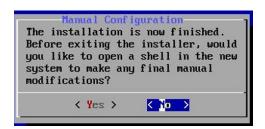
Auto (UFS): OK



Patientez pendant l'installation



Sélectionner: No



Sélectionner : Reboot (Ne pas oublier d'éjecter le CD avant le redémarrage)



Saisissez "n" pour "no" pour la création de VLAN

```
AMD Features2=0x21<LAHF,ABM>
 Structured Extended Features=0x2bb9<FSGSBASE,BMI1,HLE,AUX2,SMEP,BMI2,ERMS,RTM,
FPUSG>
 XSAVE Features=0x1<XSAVEOPT>
Hypervisor: Origin = "Microsoft Hv"
..... done.
Initializing......done.
Starting device manager (devd)...done.
Loading configuration.....done.
Updating configuration.....done.
Warning: Configuration references interfaces that do not exist: em0 em1
Network interface mismatch -- Running interface assignment option.
Valid interfaces are:
       00:15:5d:64:04:3f (down) Hyper-V Network Interface
hn0
       00:15:5d:64:04:40 (down) Hyper-V Network Interface
hn1
Do VLANs need to be set up first?
If VLAMs will not be used, or only for optional interfaces, it is typical to
say no here and use the webConfigurator to configure VLAMs later, if required.
Should VLANs be set up now [yin]? n
```

Sélectionner la carte réseau internet WAN : hn0 – (Voir dans Hyper-V l'adresse MAC qui correspond à la carte)

```
Initializing...... done.
Starting device manager (devd)...done.
Loading configuration.....done.
Updating configuration......done.
Warning: Configuration references interfaces that do not exist: em0 em1
Network interface mismatch -- Running interface assignment option.
Valid interfaces are:
        00:15:5d:64:04:3f (down) Hyper-V Network Interface
hn0
        00:15:5d:64:04:40 (down) Hyper-V Network Interface
hn1
Do VLANs need to be set up first?
If VLAMs 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 [yin]? 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
(hn0 hn1 or a): hn0
```

Sélectionner la carte réseau local LAN : hn1 – (Voir dans Hyper-V l'adresse MAC qui correspond à la carte)

```
Warning: Configuration references interfaces that do not exist: em0 em1
Network interface mismatch -- Running interface assignment option.
Valid interfaces are:
        00:15:5d:64:04:3f (down) Hyper-V Network Interface
hn0
       00:15:5d:64:04:40 (down) Hyper-V Network Interface
hn1
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 reguired.
Should VLANs be set up now [yin]? 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
(hn0 hn1 or a): hn0
Enter the LAN interface name or 'a' for auto-detection
NOTE: this enables full Firewalling/NAT mode.
(hm1 a or nothing if finished): hm1
```

Appliquer les changements : "y" pour "yes"

```
The interfaces will be assigned as follows:

WAN -> hn0

LAN -> hn1

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

Maintenant les cartes sont attribuées aux interfaces

```
Starting syslog...done.
Starting CRON... done.
pfSense 2.4.4-RELEASE amd64 Thu Sep 20 09:03:12 EDT 2018
Bootup complete
FreeBSD/amd64 (pfSense.localdomain) (ttyv0)
Hyper-V Virtual Machine - Netgate Device ID: 391ed73786ee43989c09
*** Welcome to pfSense 2.4.4-RELEASE (amd64) on pfSense ***
                 -> hn0
                               -> v4/DHCP4: 192.168.100.150/24
LAN (lan)
                 -> hn1
                               -> v4: 192.168.1.1/24
0) Logout (SSH only)
                                       9) pf Top
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
5) Reboot system
                                      13) Update from console
                                      14) Enable Secure Shell (sshd)
6) Halt system
                                      15) Restore recent configuration
7) Ping host
                                      16) Restart PHP-FPM
8) Shell
Enter an option:
```

Retour au Menu

Configuration de l'adresse IP de la carte réseau local LAN hn1

Séléctionner option 2 (Set interface IP address) pour configure les interfaces

```
0) Logout (SSH only)
                                      9) pfTop
10) Filter Logs
1) Assign Interfaces
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
                                      16) Restart PHP-FPM
7) Ping host
8) Shell
Enter an option: 2
```

Sélectionner la carte réseau local LAN: 2

```
Available interfaces:

1 - WAN (hm0 - dhcp, dhcp6)

2 - LAN (hm1 - static)

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

Saisissez l'adresse IP souhaitée : 172.16.0.101 (pour notre exemple)

```
Enter the new LAN IPv4 address. Press <ENTER> for none:
> 172.16.0.101
```

Saisissez le masque sous réseau au format CIDR: 16

Laissez vide pour ne pas définir la passerelle : Tapez ENTREE

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

Laissez vide pour ne pas définir d'adresse IPV6 : Tapez ENTREE

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

Activer le Serveur DHCP: dans notre cas on n'a pas besoin donc « n »

```
Do you want to enable the DHCP server on LAN? (y/n) n
```

Activez le retour à http en tant que protocole de configuration Web. Entrez : y

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

Configuration terminée. Cliquez : ENTREE

```
Please wait while the changes are saved to LAN...

Reloading filter...

Reloading routing configuration...

DHCPD...

Restarting webConfigurator...

The IPv4 LAN address has been set to 172.16.0.101

You can now access the webConfigurator by opening the following URL in your web browser:

http://172.16.0.101

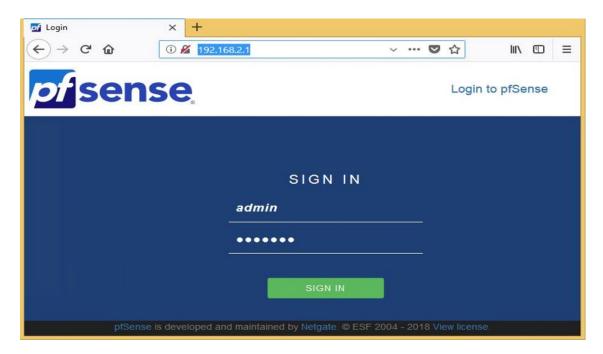
Press <ENTER> to continue.
```

Retour au Menu. L'adresse IP de pfSense est notée dans la partie LAN: 172.16.0.101

```
Hyper-V Virtual Machine - Netgate Device ID: 391ed73786ee43989c09
*** Welcome to pfSense 2.4.4-RELEASE (amd64) on pfSense ***
WAN (wan)
                -> hn0
                               -> v4/DHCP4: 192.168.100.150/24
LAN (lan)
                -> hn1
                              -> v4: 192.168.2.1/24
0) Logout (SSH only)
                                       9) pf Top
                                      10) Filter Logs
1) Assign Interfaces
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
                                      16) Restart PHP-FPM
7) Ping host
8) Shell
Enter an option: 🛮
```

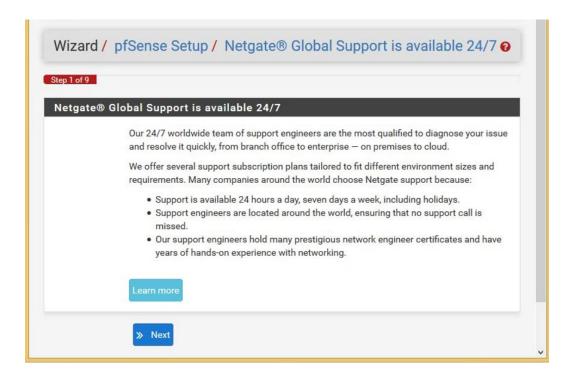
On peut maintenant accéder à l'interface du Pfsense via http://172.16.0.101

Tapez L'adresse IP dans le navigateur : 172.16.0.101 – Username : admin – Password : pfsense

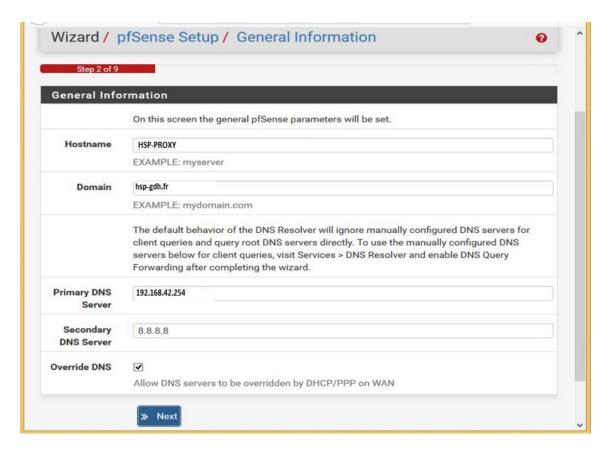


Configuration de l'installation de Base de pfSense

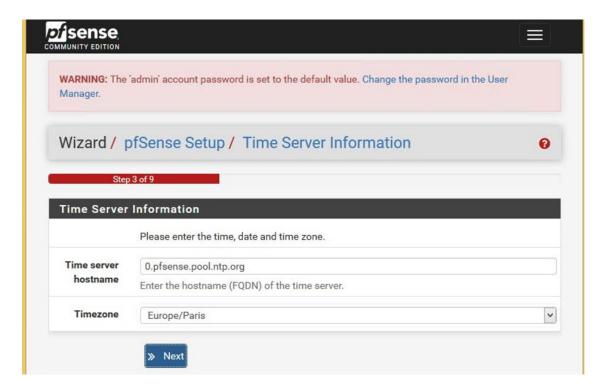
Sélectionner: Next



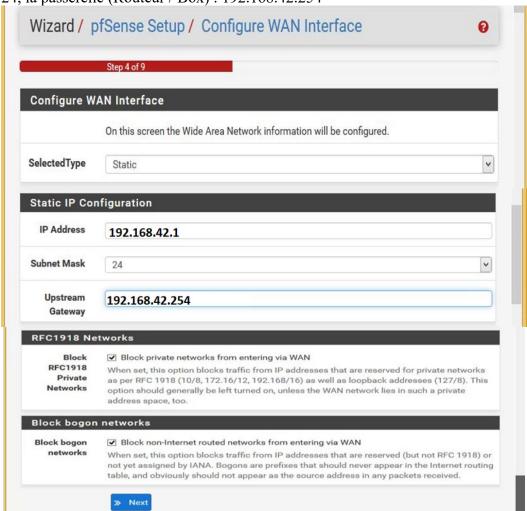
Renseigner: Hostname, Domain, Primary DNS (Routeur/Box), Secondary DNS (Google) et cocher Override DNS



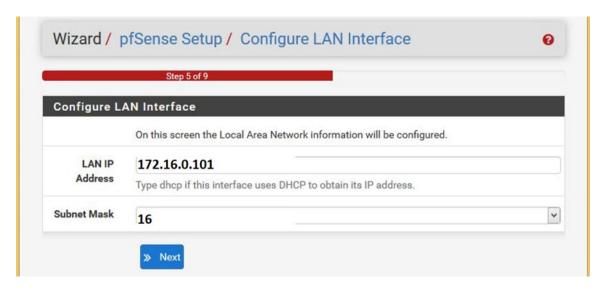
Sélectionner la Timezone Europe



Configuration de la carte réseau internet WAN : 192.168.42.1, Masque sous réseau (CIDR) : 24, la passerelle (Routeur / Box) : 192.168.42.254



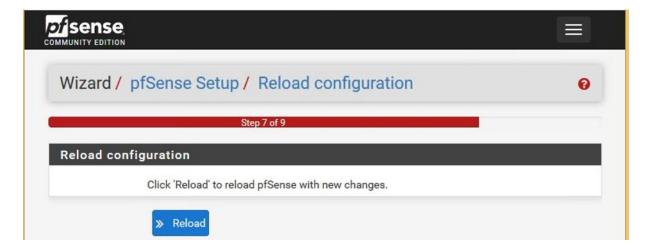
Vérification de la configuration de la carte réseau local LAN



Modifier le mot de passe admin

	Step 6 of 9
Set Admin WebGUI Password	
	On this screen the admin password will be set, which is used to access the WebGUI and also SSH services if enabled.
Admin Password	•••••
Admin Password AGAIN	••••

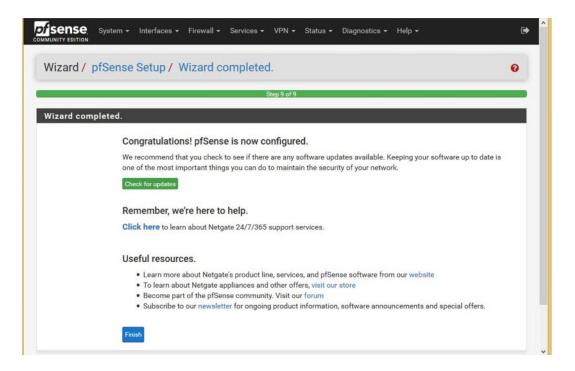
Cliquer sur : Reload



Patientez ...



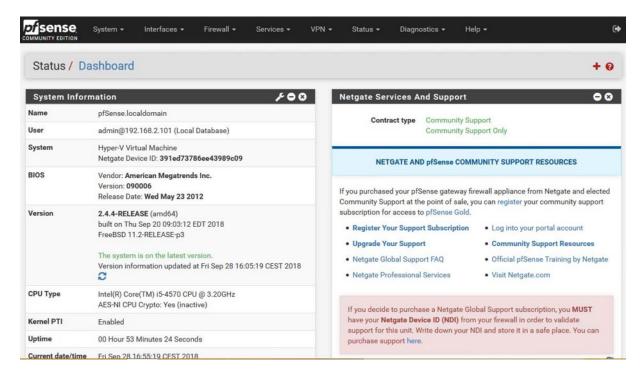
Sélectionner: Finish



Accepter la licence



Tableau de bord de pfSense



Fin d'installation