



ECORIS		
pfSense		
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Fichier pfSense

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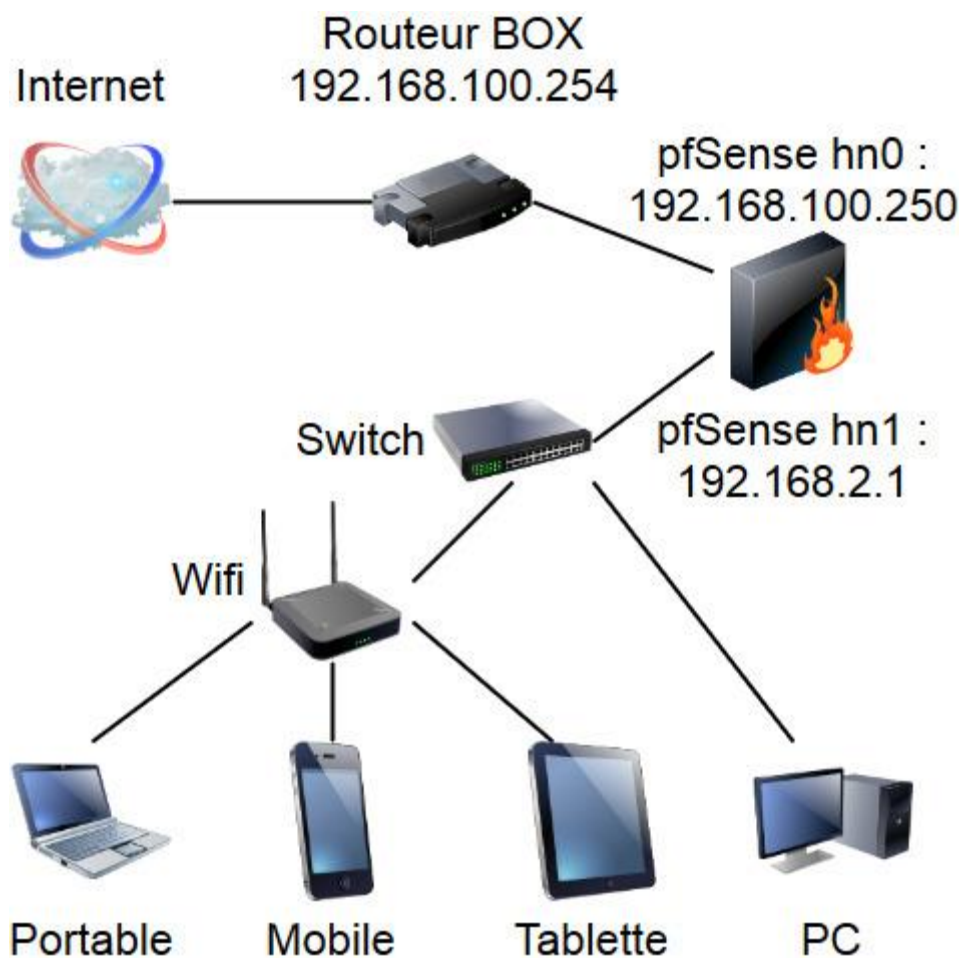
1- PRESENTATION


pfSense est un routeur / pare-feu basé sur **FreeBSD**. Il s'administre à distance via une interface Web.

il utilise le pare-feu à états Packet Filter, des fonctions de routage et de NAT lui permettant de connecter plusieurs réseaux informatiques. Il comporte l'équivalent libre des outils et services utilisés habituellement sur des routeurs professionnels propriétaires.

pfSense intègre aussi un gestionnaire de paquets pour installer des fonctionnalités supplémentaires, comme un proxy, serveur VoIP ...

Schéma de L'installation

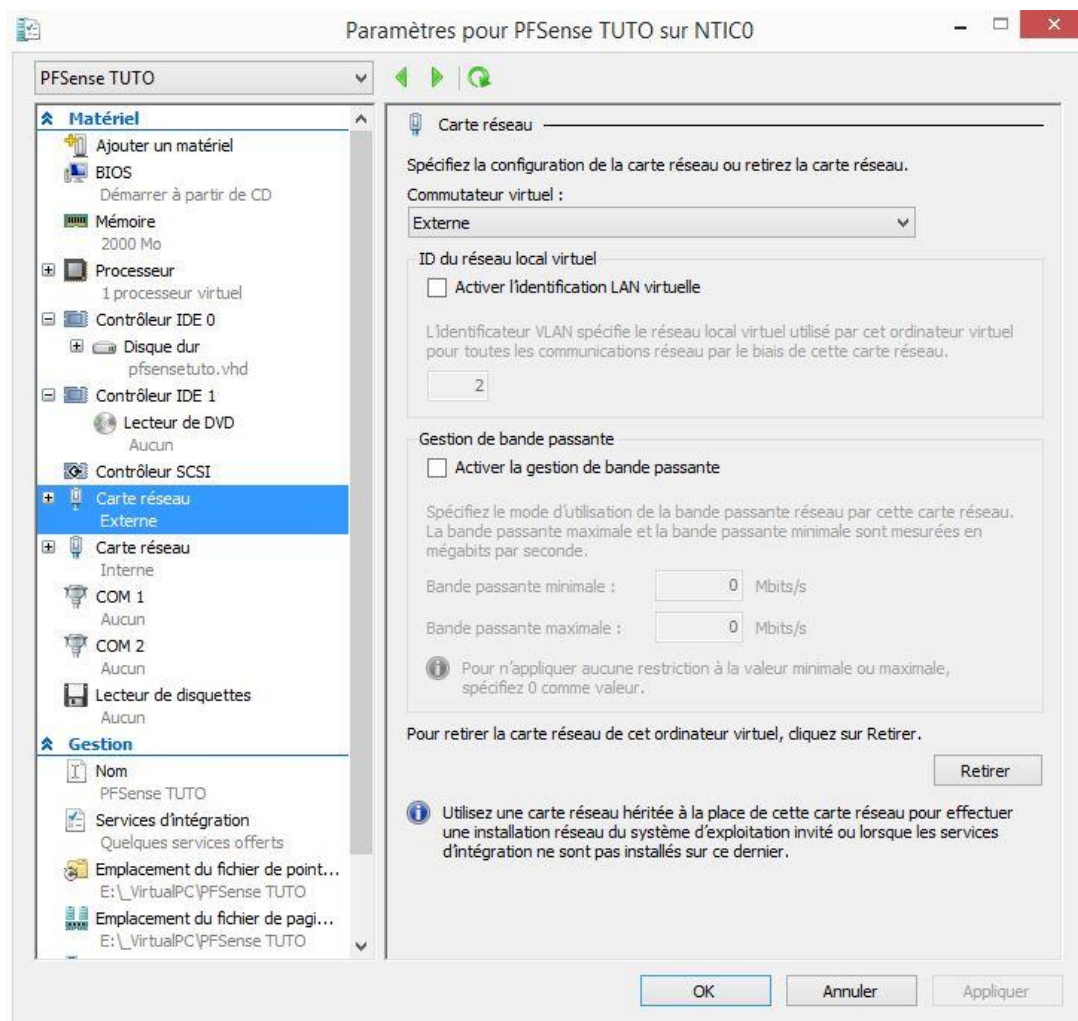



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2- CONFIGURATION HYPER-V

Il s'agit d'Une machine virtuelle sous **Hyper-V**. La configuration est la suivante :

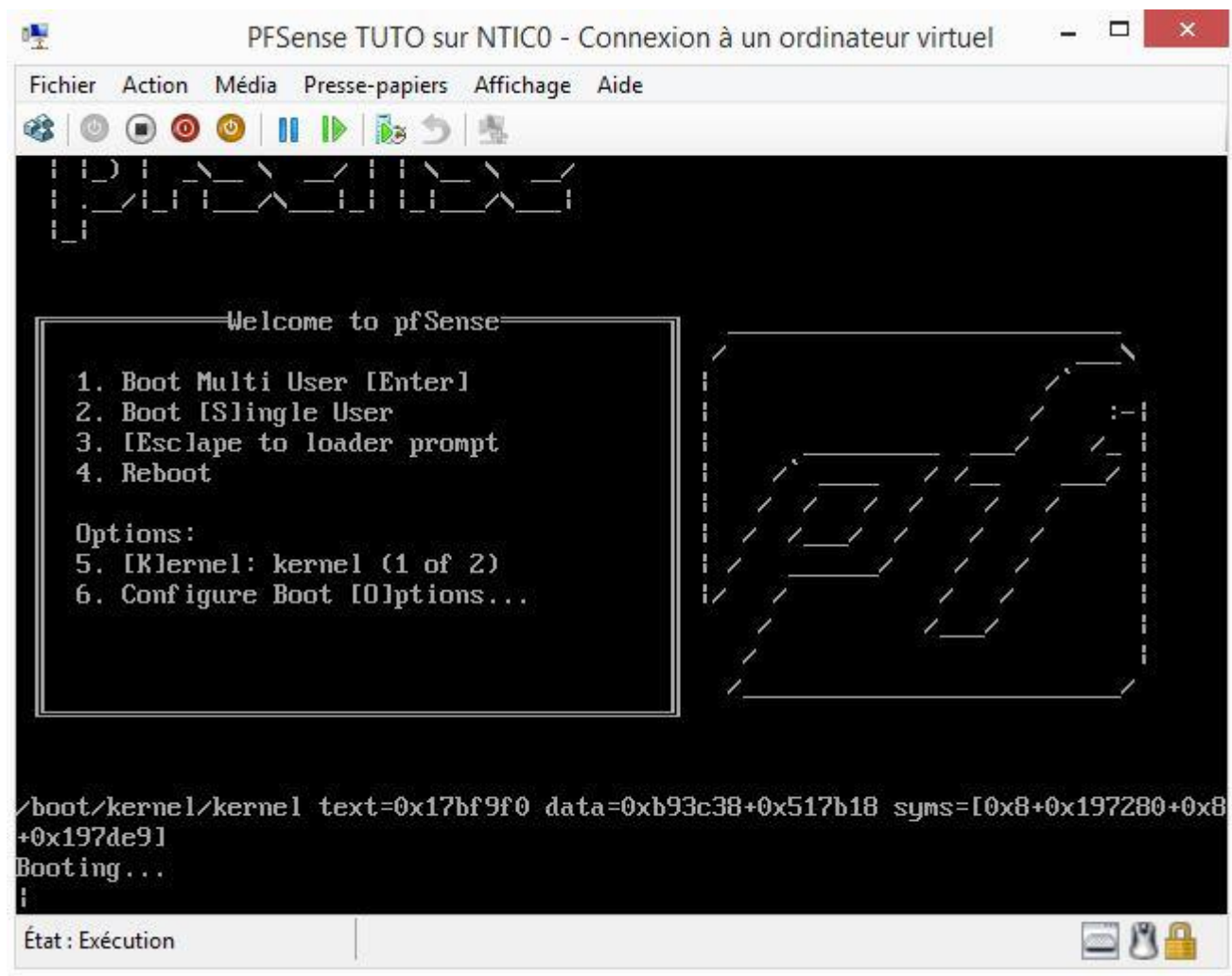
- 2 Cartes réseaux
- Disque dur de 60Go (minimum)
- Mémoire vive de 2 Go (minimum)



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3- INSTALLATION

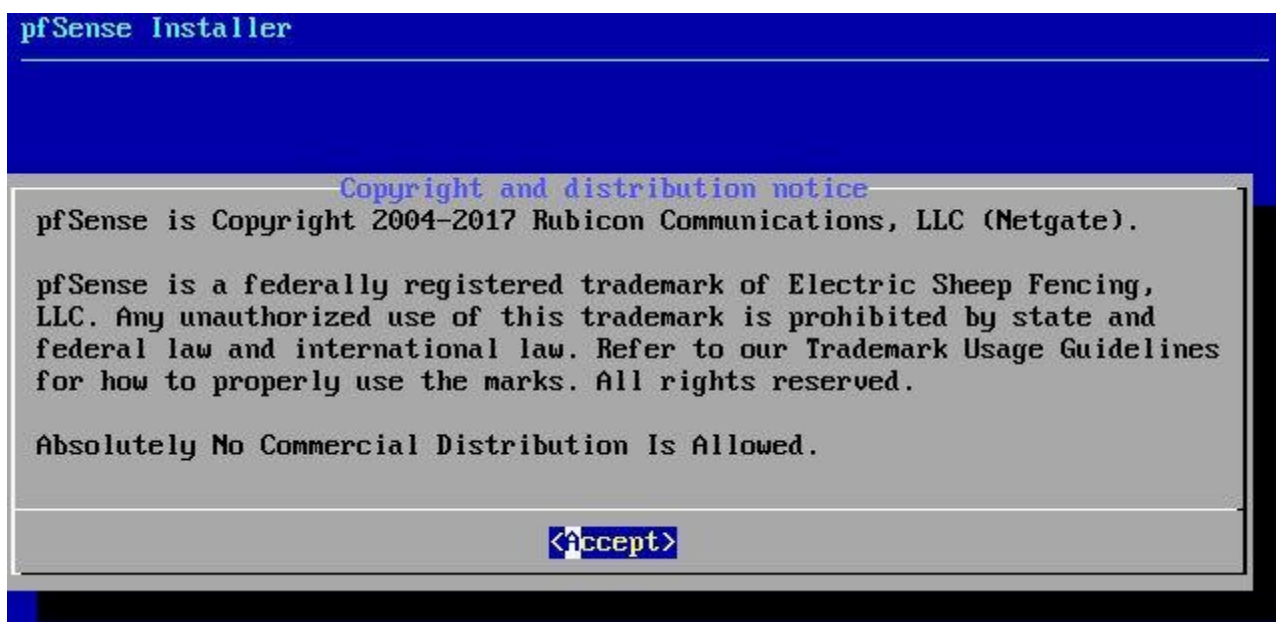
Démarrer la VM



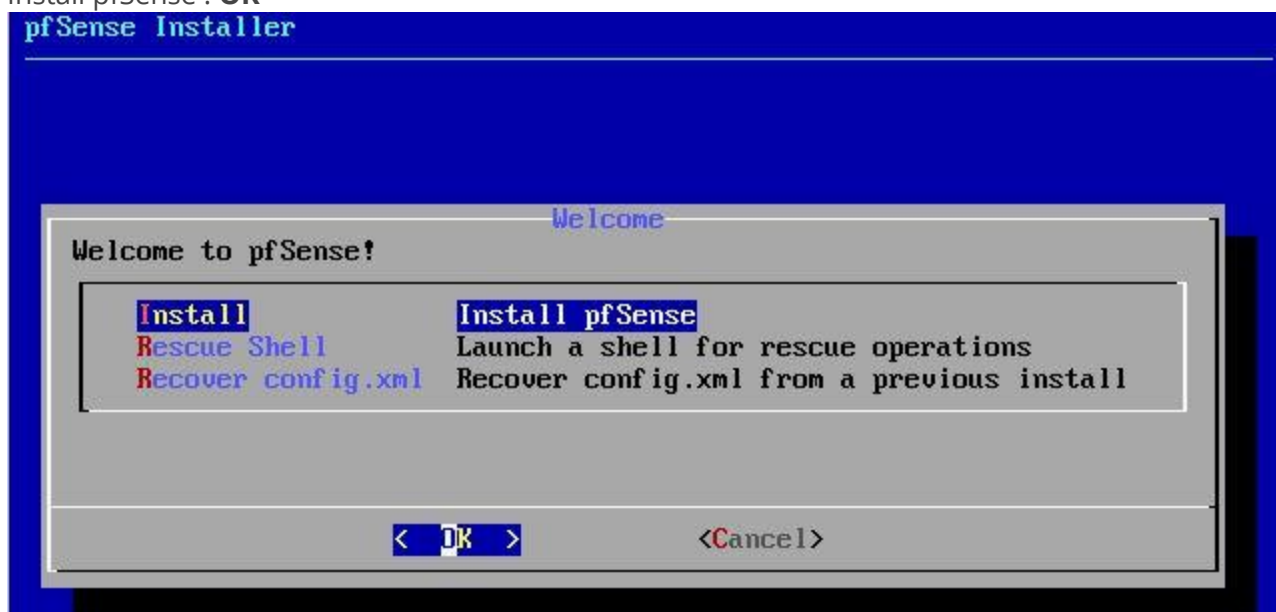
- 4-
- 5- **Accepter** la licence



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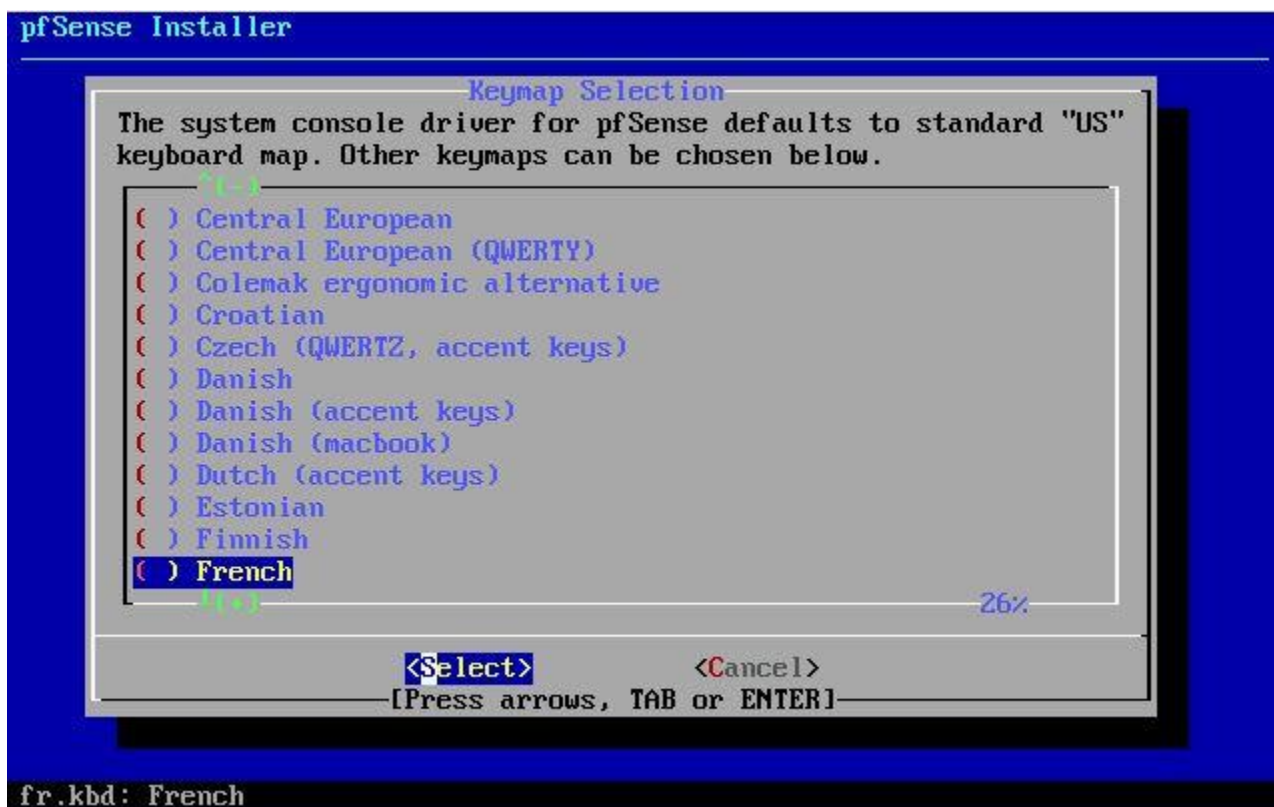
- 6-
- 7- Install pfSense : **OK**



- 8-
- 9- Sélectionner **French** dans le menu déroulant




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10- fr.kbd: French

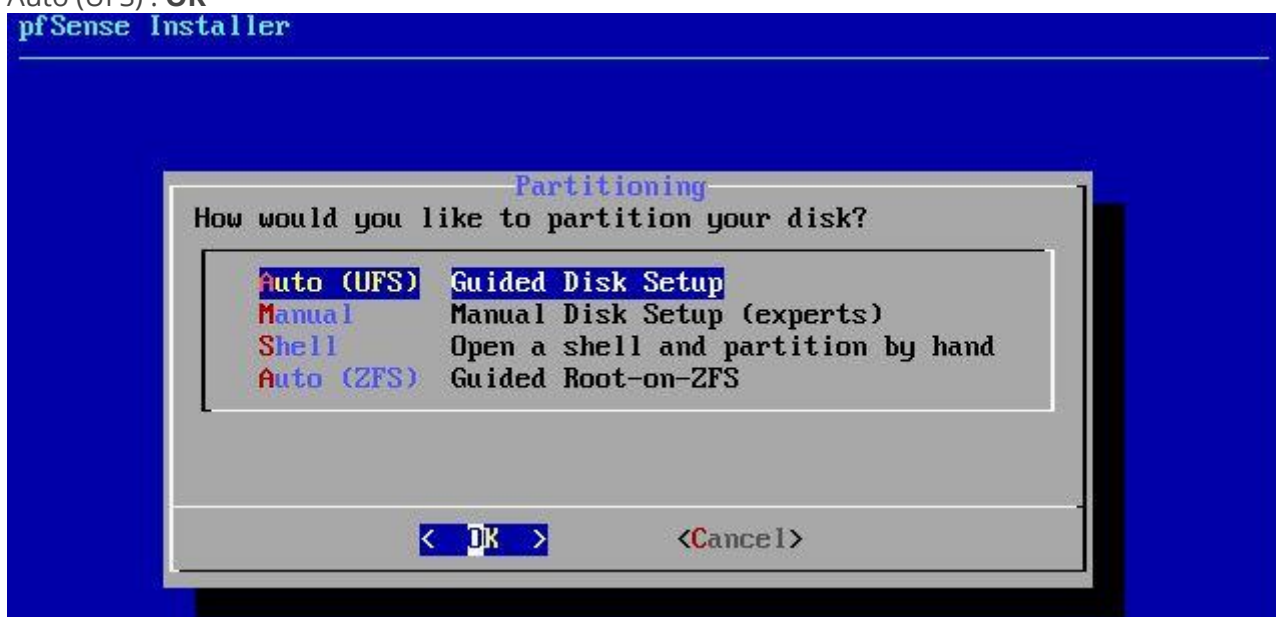
11- Sélectionner : Continue with fr.kbd keymap



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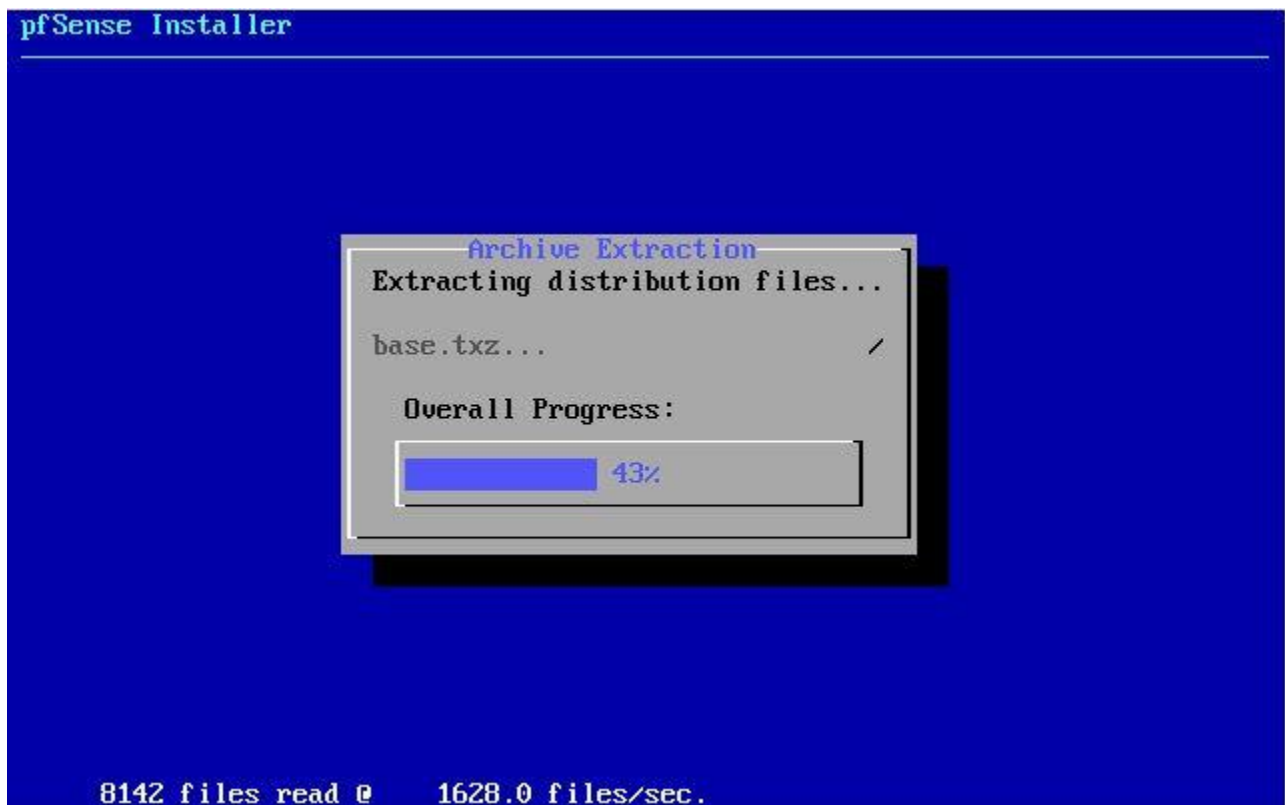
- 12-
13- Auto (UFS) : OK



- 14-
15- Patientez pendant l'installation

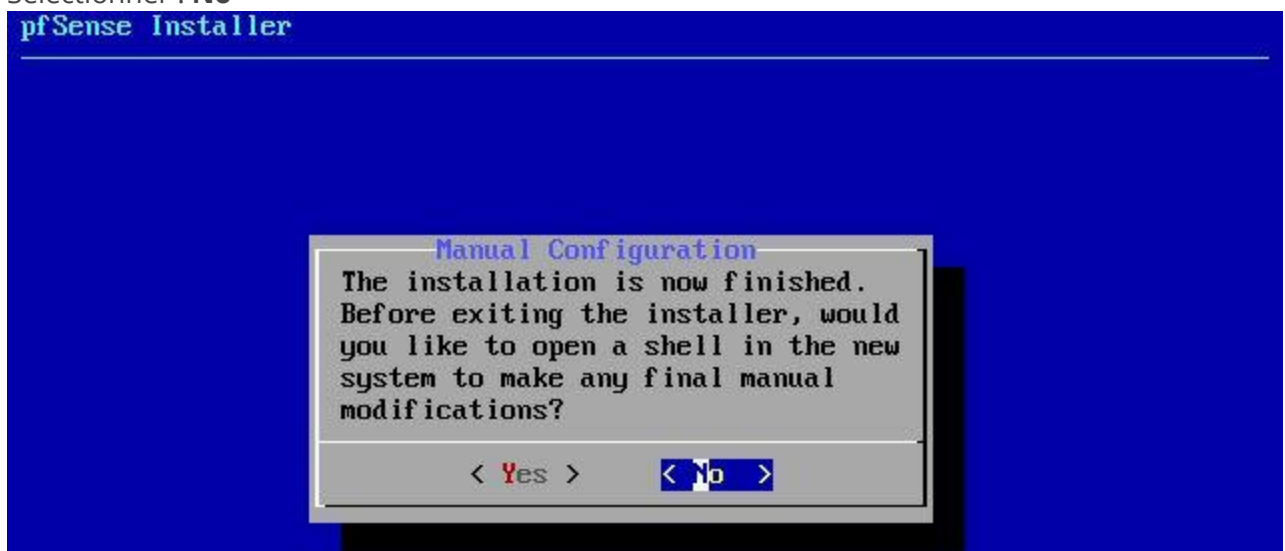


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16- 8142 files read @ 1628.0 files/sec.


17- Sélectionner : **No**



18-

19- Sélectionner : **Reboot** (Ne pas oublier d'éjecter le CD)



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20-

21- 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,
NFPUSG>
XSAVE Features=0x1<XSAVEOPT>
Hypervisor: Origin = "Microsoft Hv"
Done.
..... 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:

hn0      00:15:5d:64:04:3f (down) Hyper-V Network Interface
hn1      00:15:5d:64:04:40 (down) Hyper-V Network Interface

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

```

22-

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



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```

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:

hn0      00:15:5d:64:04:3f (down) Hyper-V Network Interface
hn1      00:15:5d:64:04:40 (down) Hyper-V Network Interface

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
(hn0 hn1 or a): hn0

```

- 24-
- 25- Sélectionner la carte réseau local **LAN : hn1** – (Voir dans Hyper-V l'adresse MAC qui correspond à votre carte)



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```
Warning: Configuration references interfaces that do not exist: em0 em1

Network interface mismatch -- Running interface assignment option.

Valid interfaces are:

hn0      00:15:5d:64:04:3f (down) Hyper-V Network Interface
hn1      00:15:5d:64:04:40 (down) Hyper-V Network Interface

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
(hn0 hn1 or a): hn0

Enter the LAN interface name or 'a' for auto-detection
NOTE: this enables full Firewalling/NAT mode.
(hn1 a or nothing if finished): hn1
```


- 26-
27- Appliquer les changements : "y" pour "yes"

```
The interfaces will be assigned as follows:

WAN  -> hn0
LAN  -> hn1
```

- 28- Do you want to proceed [y/n]? y
29- Retour au Menu



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```

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) (ttyu0)

Hyper-V Virtual Machine - Netgate Device ID: 391ed73786ee43989c09

*** Welcome to pfSense 2.4.4-RELEASE (amd64) on pfSense ***

WAN (wan)      -> hm0      -> v4/DHCP4: 192.168.100.150/24
LAN (lan)      -> hn1      -> 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

```

30- Enter an option: █

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

32- Sélectionner : 2 (Set interface IP address)

```

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

```

33- Enter an option: 2 █

34- Sélectionner la carte réseau local LAN : 2

```

Available interfaces:


1 - WAN (hm0 - dhcp, dhcp6)
2 - LAN (hn1 - static)

```

35- Enter the number of the interface you wish to configure: 2 █

36- Saisissez l'adresse IP souhaitée : 192.168.2.1 (pour notre exemple)



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- ```

Enter the new LAN IPv4 address. Press <ENTER> for none:
37- > 192.168.2.1
38- Saisissez le masque sous réseau au format CIDR : 24
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):
39- > 24
40- 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:
41- >
42- Laissez vide pour ne pas définir d'adresse IPV6 : Tapez ENTREE
Enter the new LAN IPv6 address. Press <ENTER> for none:
43- >
44- Activer le Serveur DHCP : "y" pour "yes"
45- Do you want to enable the DHCP server on LAN? (y/n) y
46- Définir la plage d'adressage IP du DHCP (exemple : 192.168.2.101 jusqu'à 192.168.2.199)
Do you want to enable the DHCP server on LAN? (y/n) y
Enter the start address of the IPv4 client address range: 192.168.2.101
47- Enter the end address of the IPv4 client address range: 192.168.2.199
48- Activez le retour a http en tant que protocole de configuration Web. Entrez : "y" pour "yes"
49- Do you want to revert to HTTP as the webConfigurator protocol? (y/n) y
50- 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 192.168.2.1/24
You can now access the webConfigurator by opening the following URL in your web
browser:
http://192.168.2.1/
51- Press <ENTER> to continue.
52- Retour au Menu. L'adresse IP de pfSense est notée dans la partie LAN : 192.168.2.1

```



|                |               |                                                                                     |
|----------------|---------------|-------------------------------------------------------------------------------------|
| <b>ECORIS</b>  |               |  |
| <b>pfSense</b> |               |                                                                                     |
| <b>Date</b>    | <b>Auteur</b> |                                                                                     |
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```

Hyper-V Virtual Machine - Netgate Device ID: 391ed73786ee43989c09

*** Welcome to pfSense 2.4.4-RELEASE (amd64) on pfSense ***

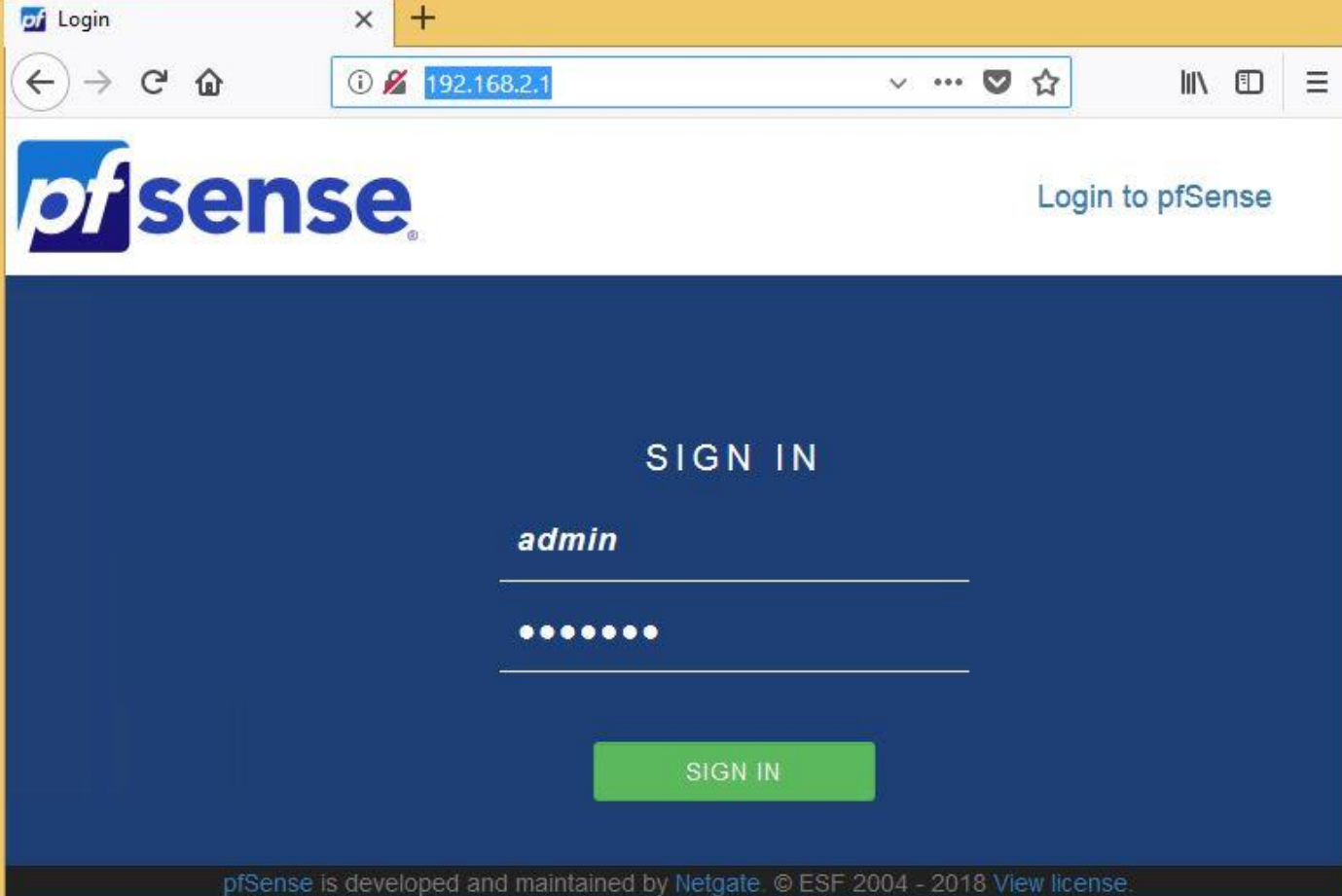
WAN (wan) -> hm0 -> v4/DHCP4: 192.168.100.150/24
LAN (lan) -> hm1 -> v4: 192.168.2.1/24

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

```

53- Enter an option: █


54- Tapez L'adresse IP dans le navigateur : 192.168.2.1 – Username : **admin** – Password : **pfsense**



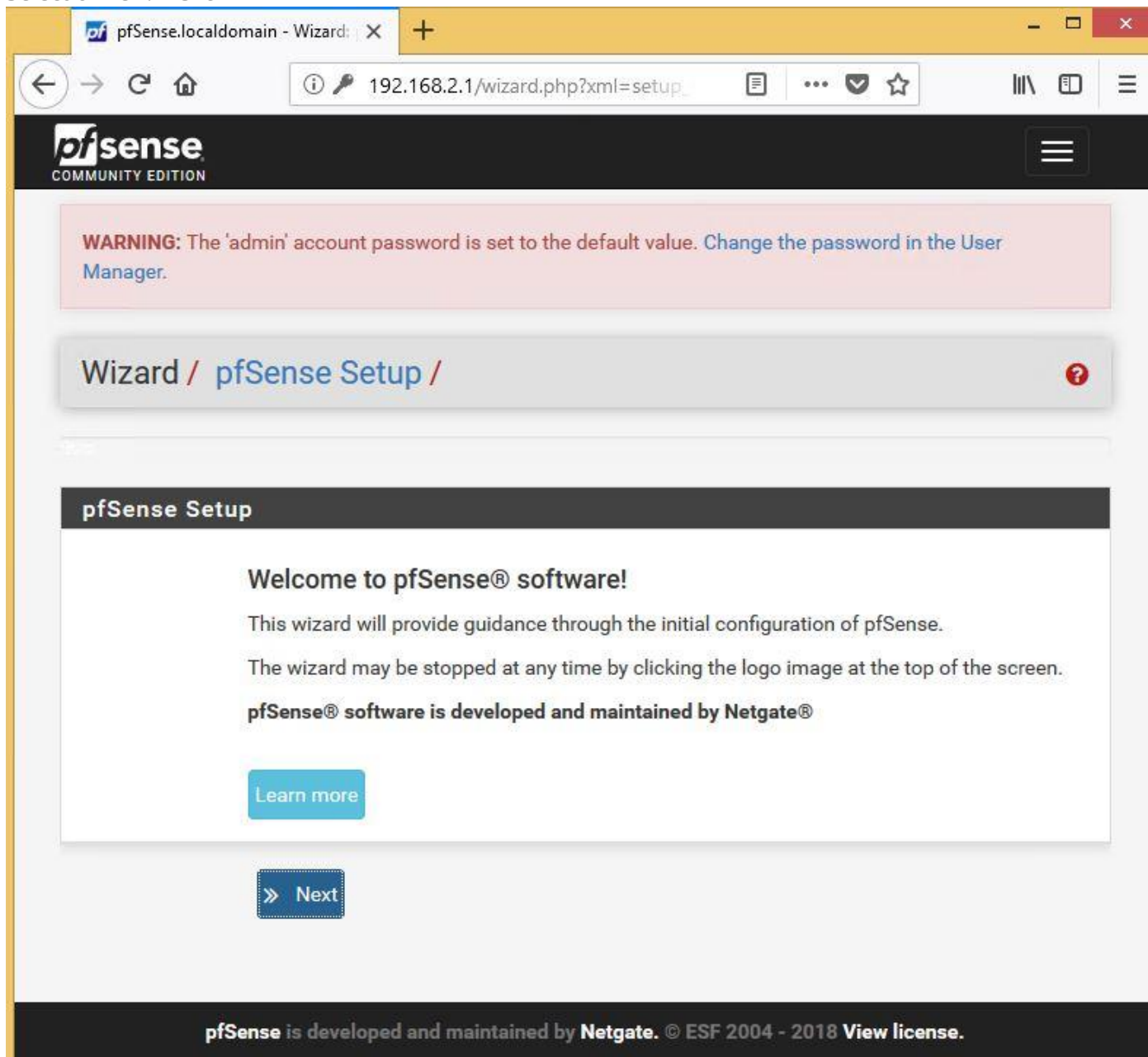
55-





|            |              |                                                                                     |
|------------|--------------|-------------------------------------------------------------------------------------|
| ECORIS     |              |  |
| pfSense    |              |                                                                                     |
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- 56- \_\_\_\_\_
- 57- **Configuration de l'installation de Base de pfSense**
- 58- Sélectionner : **Next**

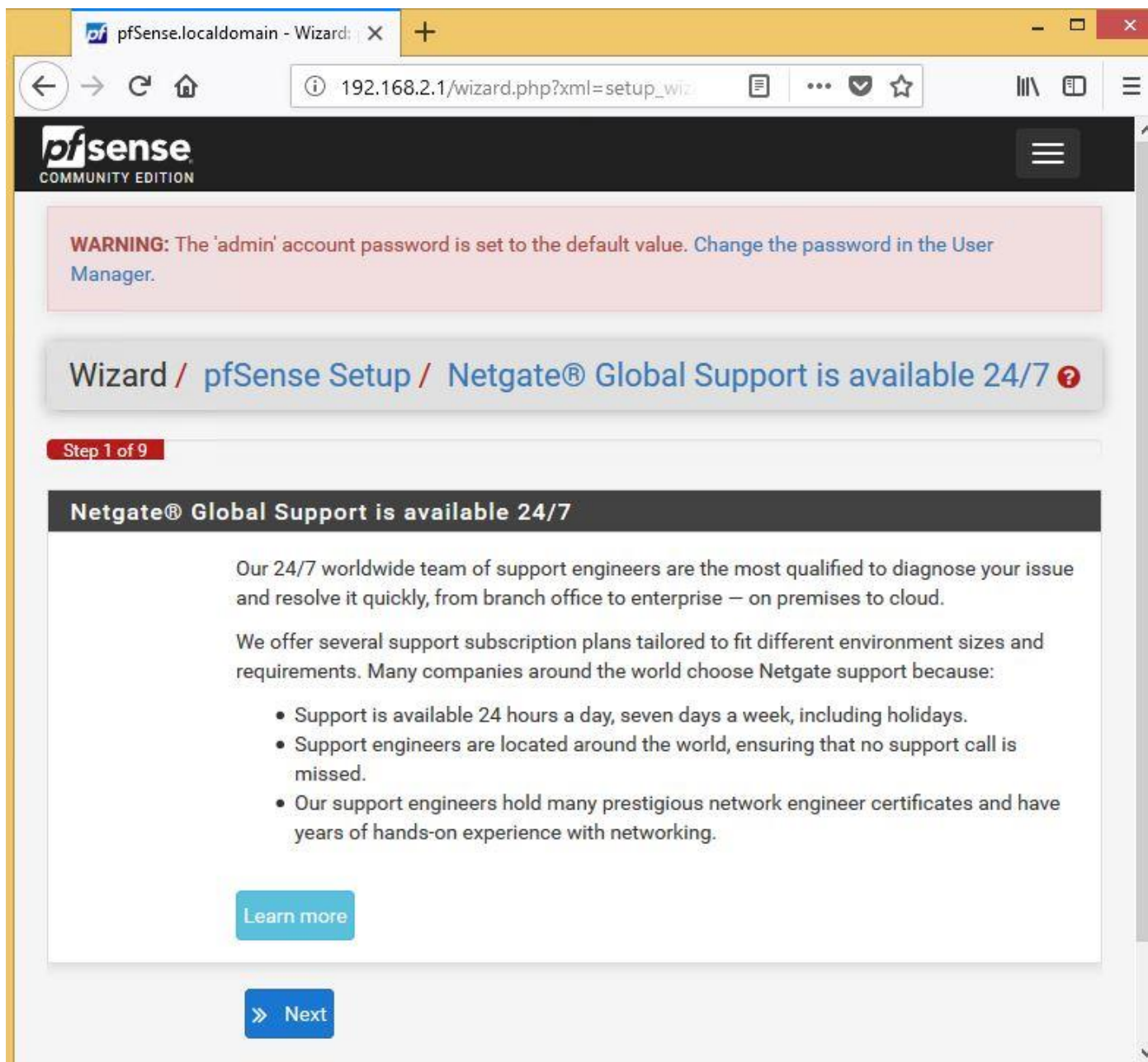


- 59- \_\_\_\_\_
- 60- Sélectionner : **Next**





|                |               |                                                                                     |
|----------------|---------------|-------------------------------------------------------------------------------------|
| <b>ECORIS</b>  |               |  |
| <b>pfSense</b> |               |                                                                                     |
| <b>Date</b>    | <b>Auteur</b> |                                                                                     |
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pfSense.localdomain - Wizard: X

192.168.2.1/wizard.php?xml=setup\_wiz

**pfSense**  
COMMUNITY EDITION

**WARNING:** The 'admin' account password is set to the default value. [Change the password in the User Manager.](#)

Wizard / pfSense Setup / Netgate® Global Support is available 24/7 ?

Step 1 of 9

**Netgate® Global Support is available 24/7**

Our 24/7 worldwide team of support engineers are the most qualified to diagnose your issue and resolve it quickly, from branch office to enterprise – on premises to cloud.

We offer several support subscription plans tailored to fit different environment sizes and requirements. Many companies around the world choose Netgate support because:

- Support is available 24 hours a day, seven days a week, including holidays.
- Support engineers are located around the world, ensuring that no support call is missed.
- Our support engineers hold many prestigious network engineer certificates and have years of hands-on experience with networking.


[Learn more](#)

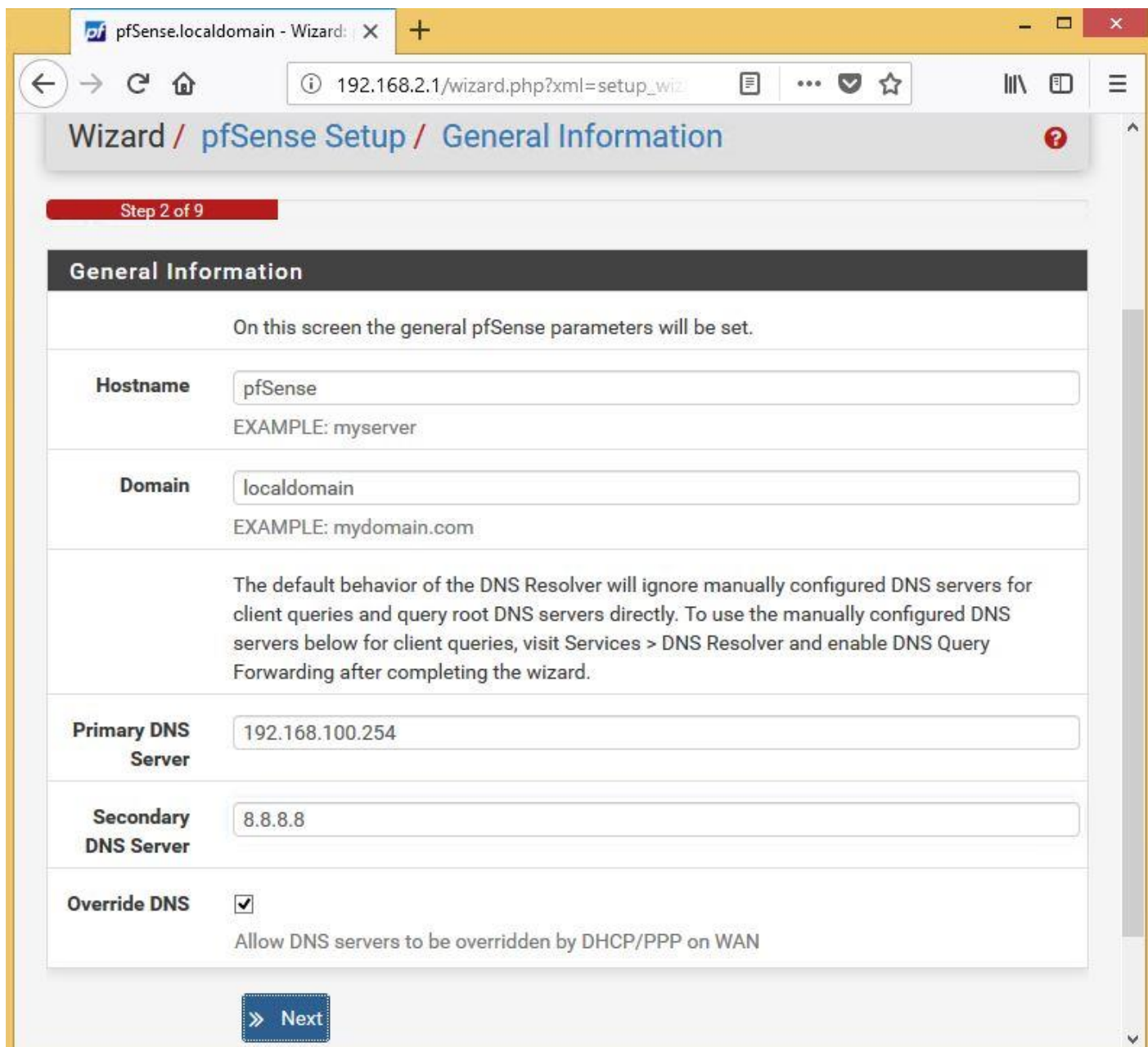
» Next

61-

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



|                |               |                                                                                     |
|----------------|---------------|-------------------------------------------------------------------------------------|
| <b>ECORIS</b>  |               |  |
| <b>pfSense</b> |               |                                                                                     |
| <b>Date</b>    | <b>Auteur</b> |                                                                                     |
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pfSense.localdomain - Wizard: X

192.168.2.1/wizard.php?xml=setup\_wiz

Wizard / pfSense Setup / General Information

Step 2 of 9

### General Information

On this screen the general pfSense parameters will be set.

**Hostname**   
EXAMPLE: myserver

**Domain**   
EXAMPLE: mydomain.com

The default behavior of the DNS Resolver will ignore manually configured DNS servers for client queries and query root DNS servers directly. To use the manually configured DNS servers below for client queries, visit Services > DNS Resolver and enable DNS Query Forwarding after completing the wizard.

**Primary DNS Server**


**Secondary DNS Server**

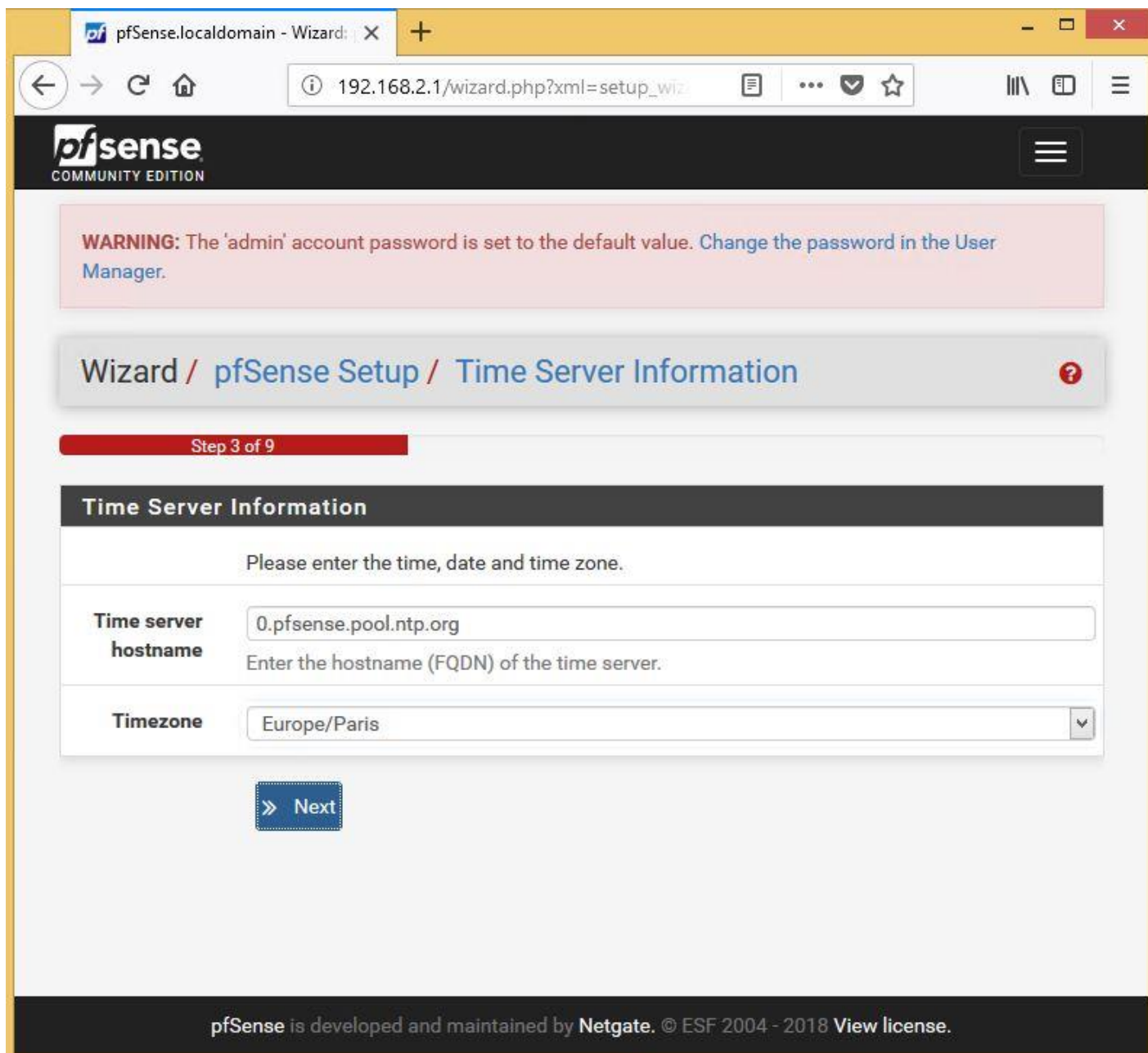
**Override DNS** ☒  
Allow DNS servers to be overridden by DHCP/PPP on WAN

» Next

- 63-
- 64- Sélectionner la **Timezone Europe**



|                |               |                                                                                     |
|----------------|---------------|-------------------------------------------------------------------------------------|
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The screenshot shows the pfSense Web GUI Wizard setup page for Time Server Information. The browser address bar shows the URL `192.168.2.1/wizard.php?xml=setup_wiz`. The page header includes the pfSense logo and "COMMUNITY EDITION". A warning message states: "WARNING: The 'admin' account password is set to the default value. Change the password in the User Manager." The breadcrumb navigation shows "Wizard / pfSense Setup / Time Server Information". A progress bar indicates "Step 3 of 9". The "Time Server Information" section contains the following fields:

- Time server hostname:** `0.pfsense.pool.ntp.org`. Below the field, it says "Enter the hostname (FQDN) of the time server."
- Timezone:** `Europe/Paris` (selected from a dropdown menu).

At the bottom of the form is a "Next" button with a right arrow icon. The footer of the page states: "pfSense is developed and maintained by Netgate. © ESF 2004 - 2018 View license."

- 65-  
66- Configuration de la carte réseau internet **WAN** : 192.168.100.250 , **Masque sous réseau** (CIDR) : 24 ,  
la **passerelle** (Routeur / Box) : 192.168.100.254



|            |              |                                                                                     |
|------------|--------------|-------------------------------------------------------------------------------------|
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pfSense.localdomain - Wizard: x +

192.168.2.1/wizard.php?xml=setup\_

**pfSense**  
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**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.

**SelectedType** Static


**Static IP Configuration**

**IP Address** 192.168.100.250

**Subnet Mask** 24

**Upstream Gateway** 192.168.100.254



|                |               |                                                                                     |
|----------------|---------------|-------------------------------------------------------------------------------------|
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### RFC1918 Networks

**Block RFC1918 Private Networks**

☒ Block private networks from entering via WAN

When set, this option blocks traffic from IP addresses that are reserved for private networks as per RFC 1918 (10/8, 172.16/12, 192.168/16) as well as loopback addresses (127/8). This option should generally be left turned on, unless the WAN network lies in such a private address space, too.


### Block bogon networks

**Block bogon networks**


☒ Block non-Internet routed networks from entering via WAN

When set, this option blocks traffic from IP addresses that are reserved (but not RFC 1918) or not yet assigned by IANA. Bogons are prefixes that should never appear in the Internet routing table, and obviously should not appear as the source address in any packets received.

» Next




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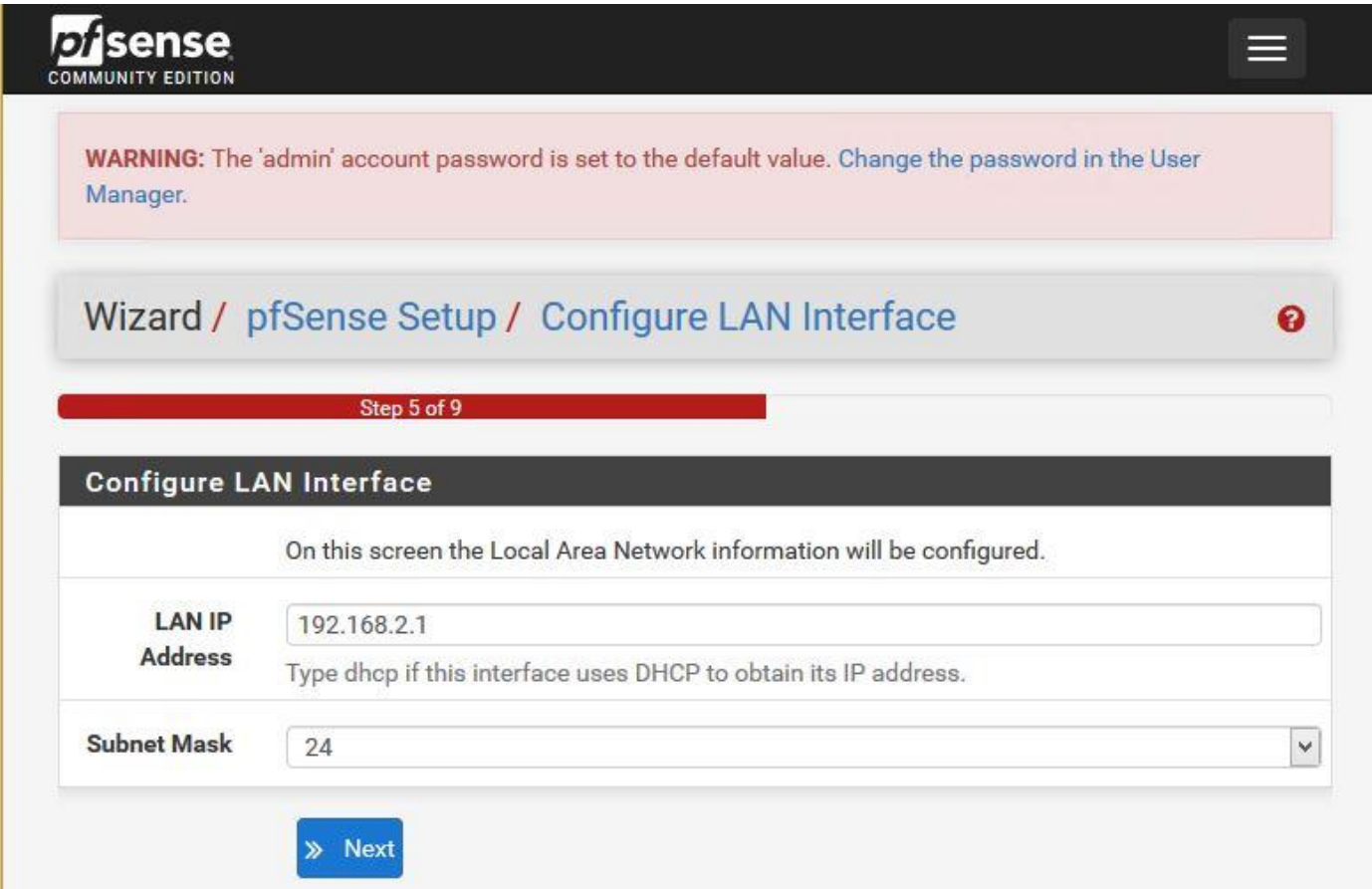


68- Vérification de la configuration de la carte réseau local **LAN**





|            |              |                                                                                     |
|------------|--------------|-------------------------------------------------------------------------------------|
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| pfSense    |              |                                                                                     |
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**pfSense**  
COMMUNITY EDITION

**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: 192.168.2.1  
Type dhcp if this interface uses DHCP to obtain its IP address.

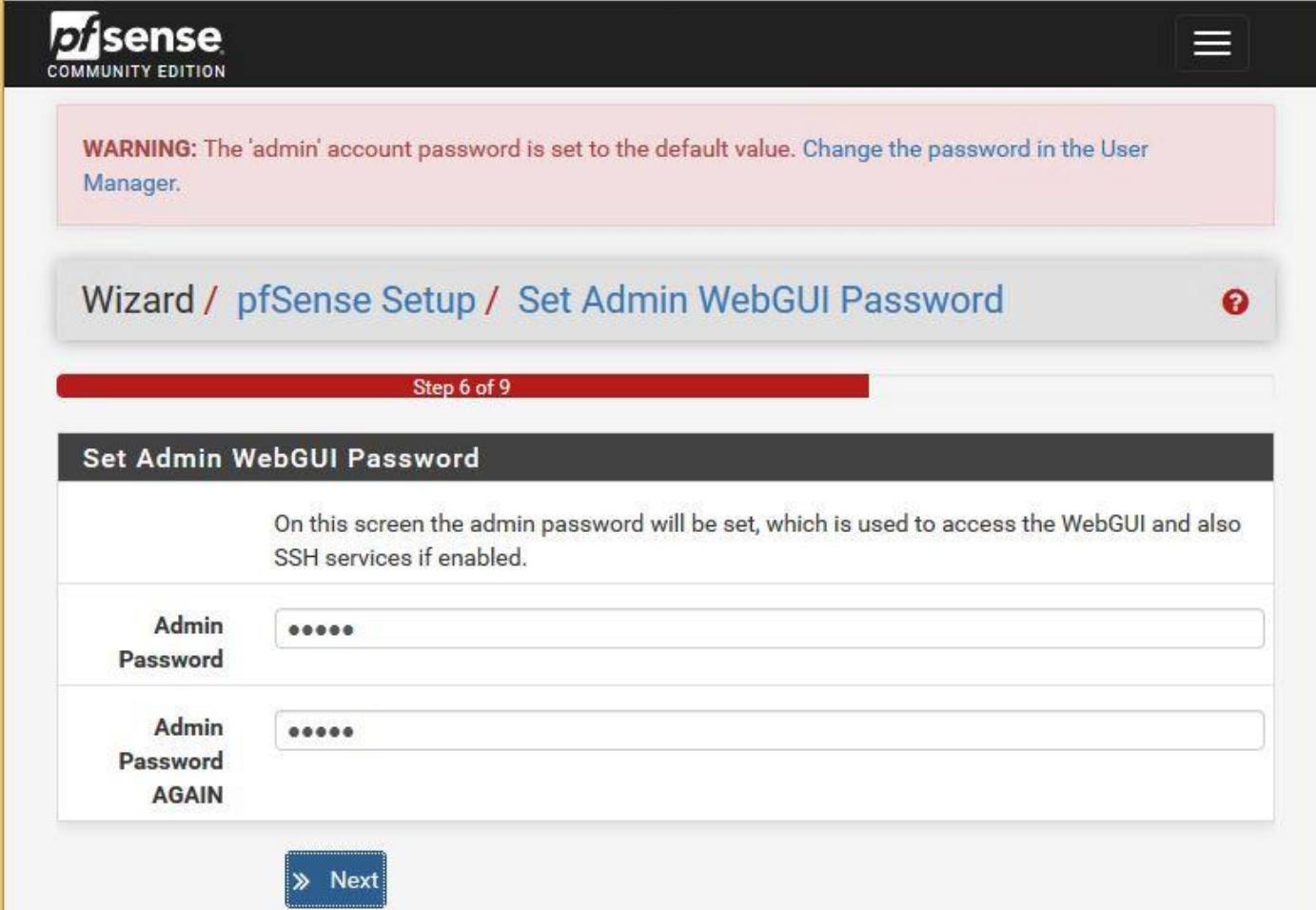
Subnet Mask: 24

» Next

69-  
70- Modifier le **mot de passe admin**



|            |              |                                                                                     |
|------------|--------------|-------------------------------------------------------------------------------------|
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**pfSense**  
COMMUNITY EDITION

**WARNING:** The 'admin' account password is set to the default value. [Change the password in the User Manager.](#)

Wizard / pfSense Setup / Set Admin WebGUI Password

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.

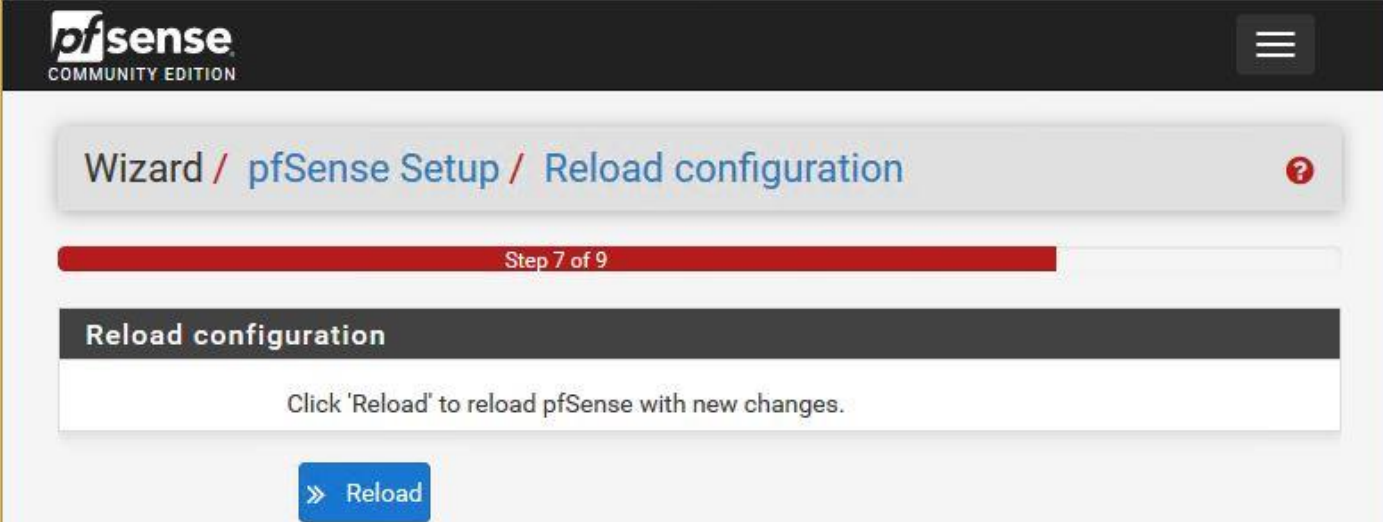
Admin Password

Admin Password AGAIN

[Next](#)

71-

72- Cliquer sur : **Reload**



**pfSense**  
COMMUNITY EDITION

Wizard / pfSense Setup / Reload configuration

Step 7 of 9

### Reload configuration

Click 'Reload' to reload pfSense with new changes.


[Reload](#)

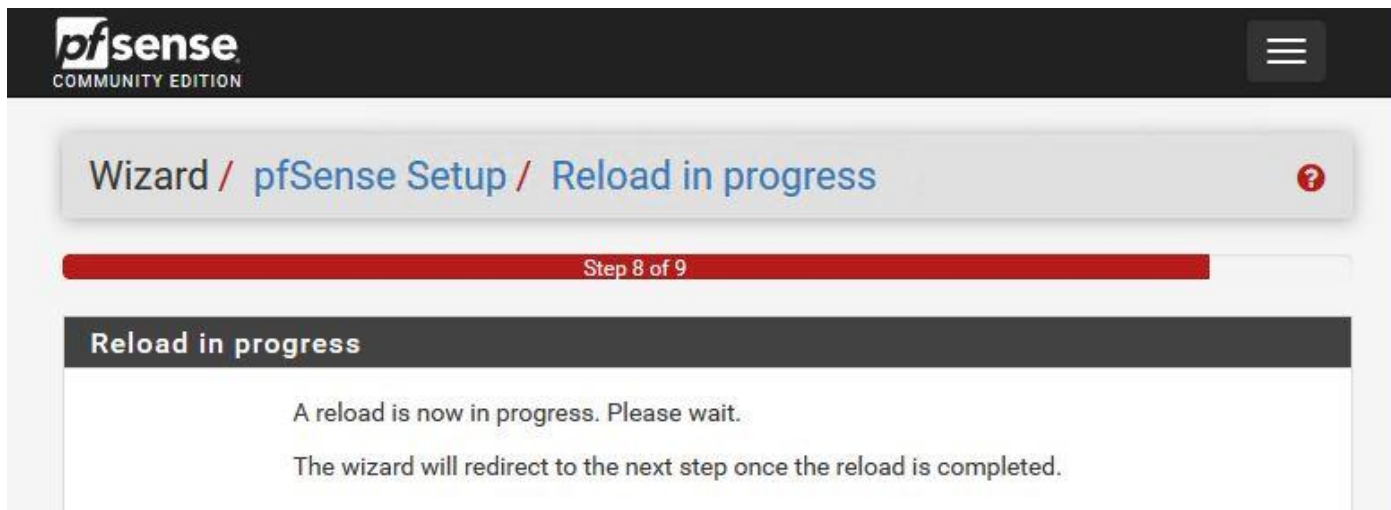
73-

74- Patientez ...





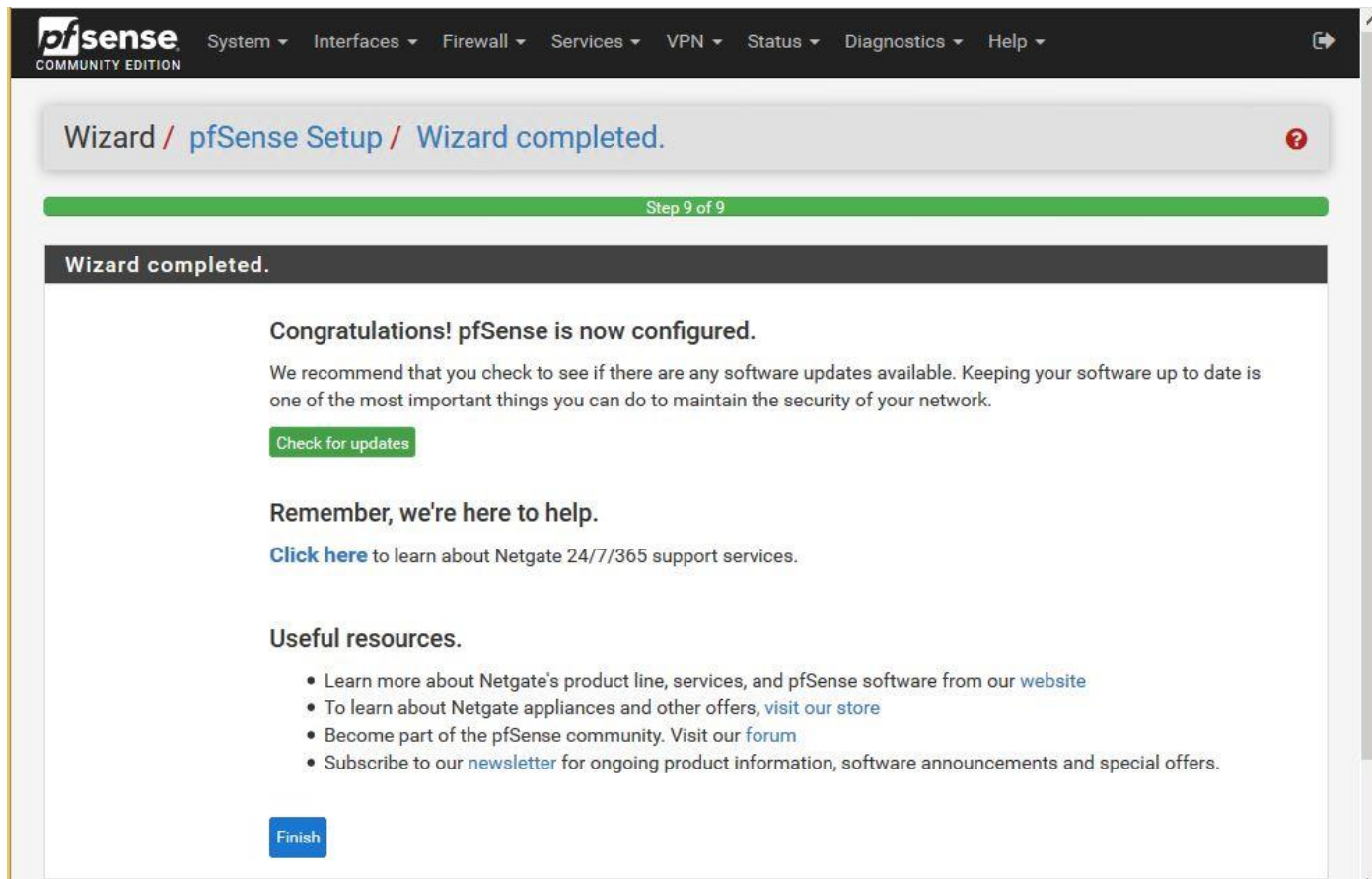
|            |              |                                                                                     |
|------------|--------------|-------------------------------------------------------------------------------------|
| ECORIS     |              |  |
| pfSense    |              |                                                                                     |
| Date       | Auteur       |                                                                                     |
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The screenshot shows the pfSense Community Edition web interface. At the top, the 'pfSense' logo and 'COMMUNITY EDITION' text are visible. Below the navigation bar, the breadcrumb trail reads 'Wizard / pfSense Setup / Reload in progress'. A red progress bar indicates 'Step 8 of 9'. The main content area has a dark header 'Reload in progress' and a message: 'A reload is now in progress. Please wait. The wizard will redirect to the next step once the reload is completed.'

75-

76- Sélectionner : **Finish**




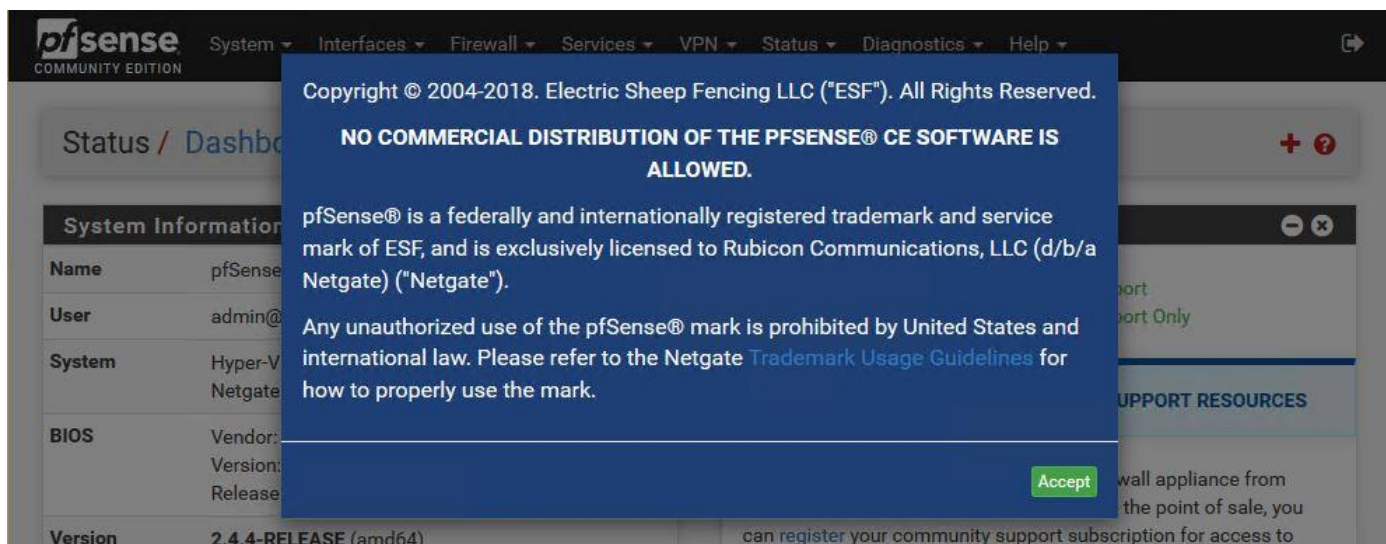
The screenshot shows the pfSense Community Edition web interface after the setup wizard is completed. The breadcrumb trail reads 'Wizard / pfSense Setup / Wizard completed.'. A green progress bar indicates 'Step 9 of 9'. The main content area has a dark header 'Wizard completed.' and a message: 'Congratulations! pfSense is now configured. We recommend that you check to see if there are any software updates available. Keeping your software up to date is one of the most important things you can do to maintain the security of your network.' Below this is a green button labeled 'Check for updates'. Further down, it says 'Remember, we're here to help.' with a link 'Click here' to learn about Netgate 24/7/365 support services. Under 'Useful resources.', there are four bullet points: 'Learn more about Netgate's product line, services, and pfSense software from our website', 'To learn about Netgate appliances and other offers, visit our store', 'Become part of the pfSense community. Visit our forum', and 'Subscribe to our newsletter for ongoing product information, software announcements and special offers.' At the bottom, there is a blue button labeled 'Finish'.

77-

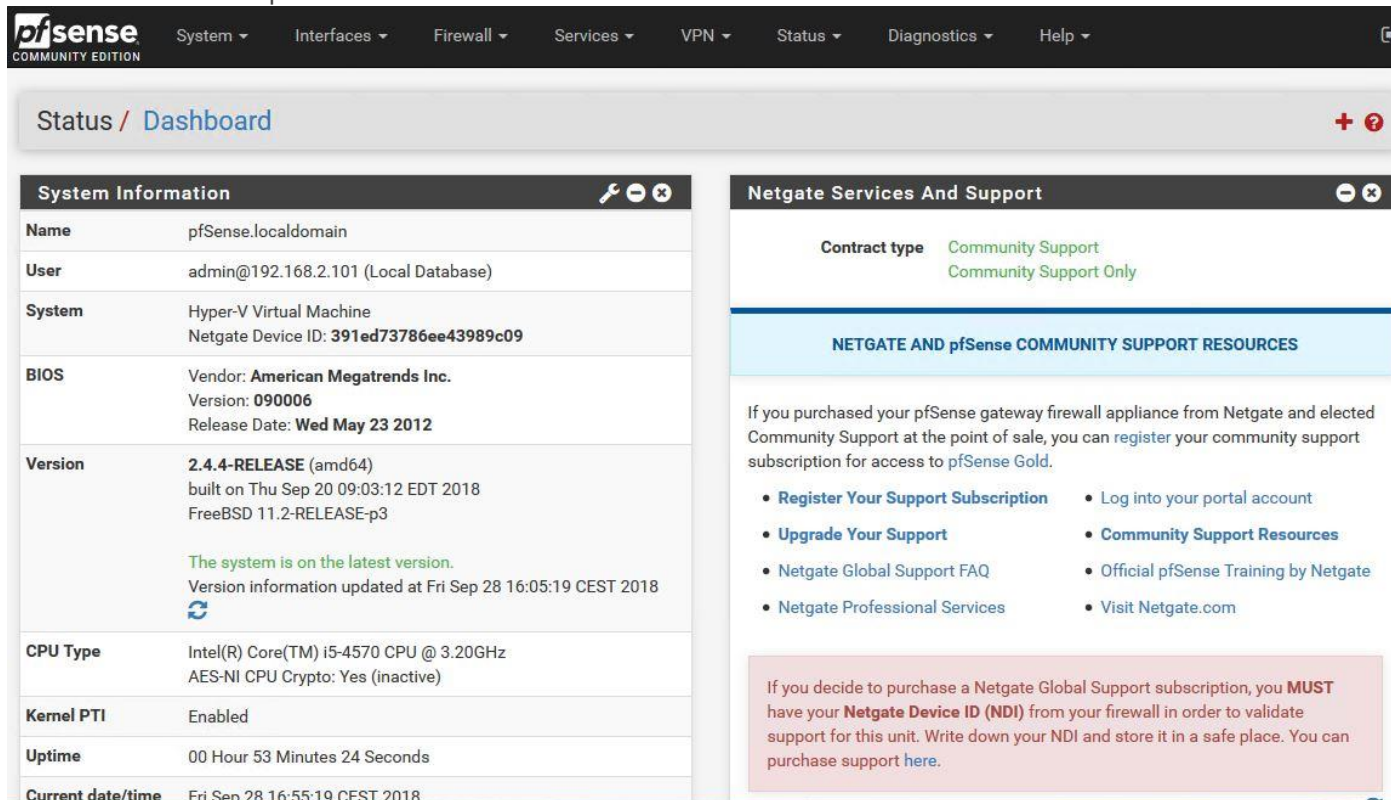
78- **Accepter** la licence



|                |               |                                                                                     |
|----------------|---------------|-------------------------------------------------------------------------------------|
| <b>ECORIS</b>  |               |  |
| <b>pfSense</b> |               |                                                                                     |
| <b>Date</b>    | <b>Auteur</b> |                                                                                     |
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- 79-  
80- Tableau de bord de pfSense



- 81-  
82-  
83- Vérifier le Serveur DHCP : Services, DHCP Server



|            |              |                                                                                     |
|------------|--------------|-------------------------------------------------------------------------------------|
| ECORIS     |              |  |
| pfSense    |              |                                                                                     |
| Date       | Auteur       |                                                                                     |
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85- **Modifier**, si besoin, la page d'adressage IP (Range) du **DHCP** (exemple : 192.168.2.101 jusqu'à 192.168.2.199)

pfSense COMMUNITY EDITION

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

Services / DHCP Server / LAN

WAN LAN

**General Options**

|                                  |                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Enable</b>                    | <input checked="" type="checkbox"/> Enable DHCP server on LAN interface                                                                                                                                                                                                                                                                               |
| <b>BOOTP</b>                     | <input type="checkbox"/> Ignore BOOTP queries                                                                                                                                                                                                                                                                                                         |
| <b>Deny unknown clients</b>      | <input type="checkbox"/> Only the clients defined below will get DHCP leases from this server.                                                                                                                                                                                                                                                        |
| <b>Ignore denied clients</b>     | <input type="checkbox"/> Denied clients will be ignored rather than rejected.<br>This option is not compatible with failover and cannot be enabled when a Failover Peer IP address is configured.                                                                                                                                                     |
| <b>Ignore client identifiers</b> | <input type="checkbox"/> If a client includes a unique identifier in its DHCP request, that UID will not be recorded in its lease.<br>This option may be useful when a client can dual boot using different client identifiers but the same hardware (MAC) address. Note that the resulting server behavior violates the official DHCP specification. |
| <b>Subnet</b>                    | 192.168.2.0                                                                                                                                                                                                                                                                                                                                           |
| <b>Subnet mask</b>               | 255.255.255.0                                                                                                                                                                                                                                                                                                                                         |
| <b>Available range</b>           | 192.168.2.1 - 192.168.2.254                                                                                                                                                                                                                                                                                                                           |
| <b>Range</b>                     | <div> <div>192.168.2.101</div> <div>192.168.2.199</div> <div>From</div> <div>To</div> </div>                                                                                                                                                                                                                                                          |

86-

