



Configuration initiale de pfSense

24 octobre 2022

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1 Configuration initiale de pfSense

PfSense est un pare-feu qui peut être entièrement configuré par une interface web. Cette interface est, par défaut, accessible **uniquement à partir d'un segment LAN du réseau**. Autrement dit, il n'est pas possible d'y accéder à partir d'internet.

Pour débiter la configuration de pfSense, il est nécessaire de démarrer une machine Windows dans le segment **LAN1** de VMware. Ce segment correspond au premier réseau LAN découvert par le pare-feu.

Une fois démarré, pfSense affiche cet écran.

```
FreeBSD/amd64 (pfSense.home.arpa) (ttyv0)
VMware Virtual Machine - Netgate Device ID: 2e96dfcc80d07c262aea
*** Welcome to pfSense 2.6.0-RELEASE (amd64) on pfSense ***
WAN (wan)      -> em0      -> v4/DHCP4: 192.168.99.146/24
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: █
```

Remarquez les adresses IP des interfaces WAN et LAN. Nous allons modifier cette configuration par défaut pour qu'elle reflète la topologie de ce guide d'installation.

On met une machine virtuelle dans le LAN (réseau 192.168.1.0/24) afin de pouvoir accéder à la console web de PfSense.

Device status

☐ Connected

☒ Connect at power on

Network connection

☐ Bridged: Connected directly to the physical network

☐ Replicate physical network connection state

☐ NAT: Used to share the host's IP address

☐ Host-only: A private network shared with the host

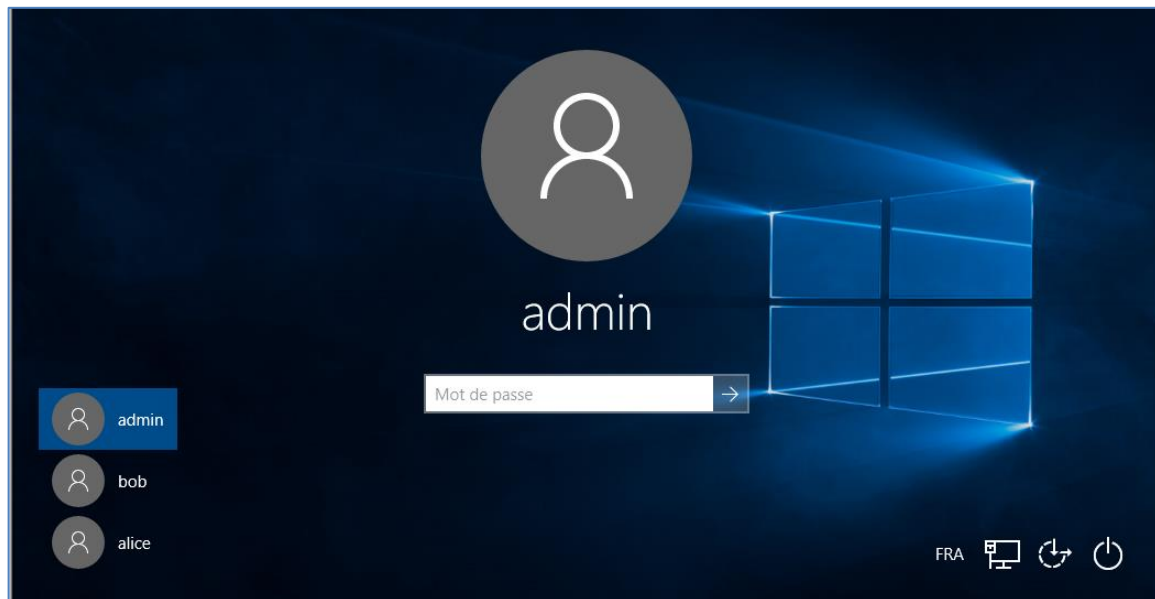
☐ Custom: Specific virtual network

VMnet0

☒ LAN segment:

LAN1

LAN Segments... Advanced...



Vous devriez obtenir automatiquement une adresse dans le sous-réseau 192.168.1.0/24.

```
Microsoft Windows [version 10.0.19042.1889]
(c) Microsoft Corporation. Tous droits réservés.

C:\Users\admin>ipconfig

Configuration IP de Windows

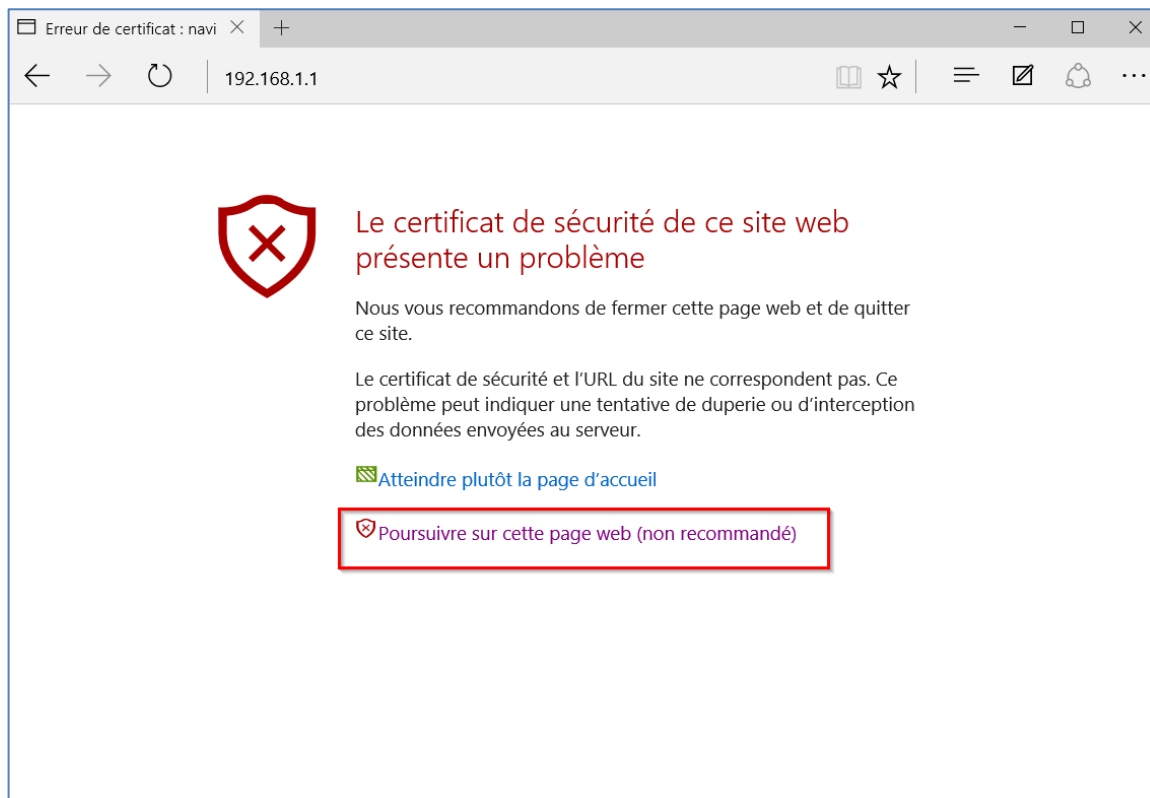
Carte Ethernet Ethernet :

    Suffixe DNS propre à la connexion. . . : home.arpa
    Adresse IPv6 de liaison locale. . . . : fe80::41ae:2dbe:c6db:4abf%8
    Adresse IPv4. . . . . : 192.168.1.100
    Masque de sous-réseau. . . . . : 255.255.255.0
    Passerelle par défaut. . . . . : fe80::20c:29ff:fefa:463d%8
                                      192.168.1.1

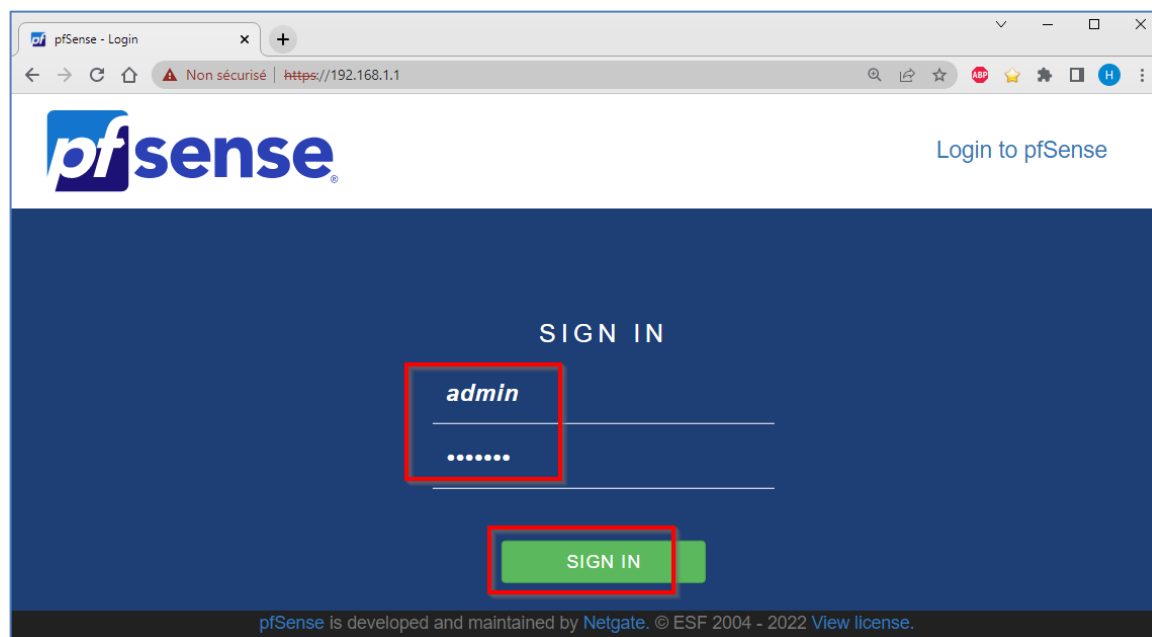
C:\Users\admin>
```

Démarrer le navigateur web et accéder à l'URL <http://192.168.1.1>

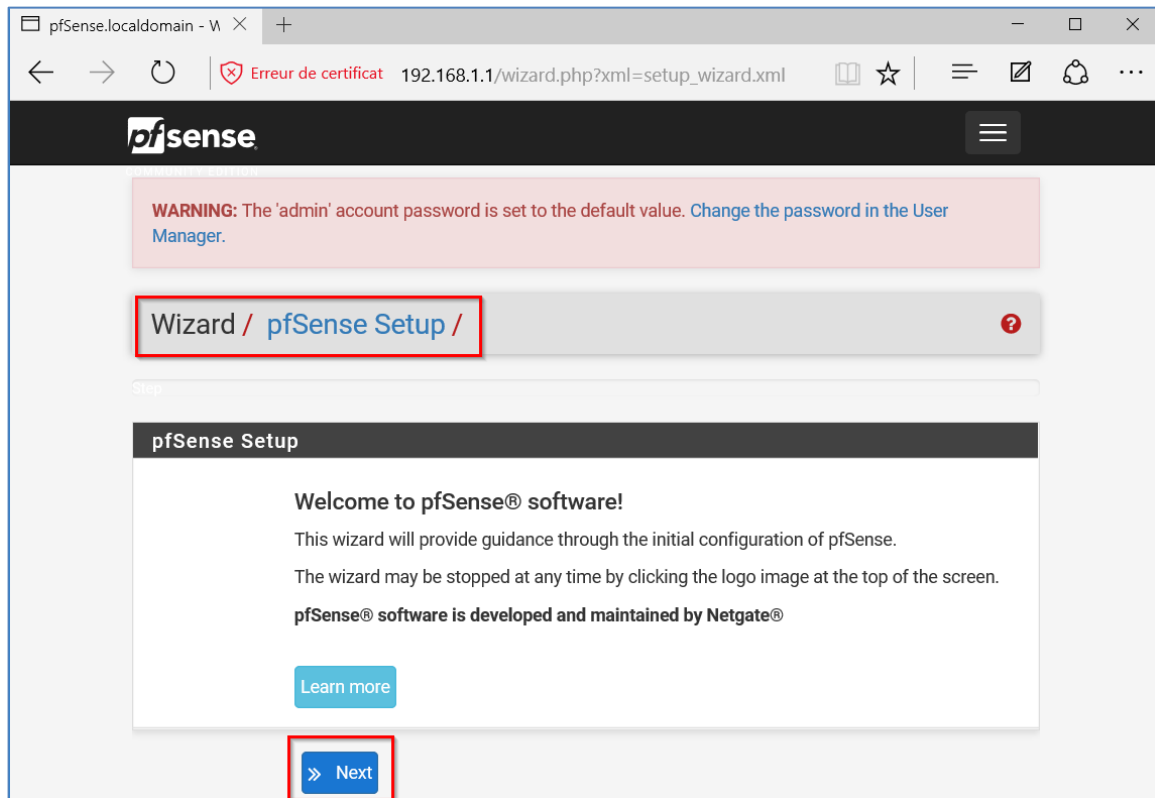
Accepter l'erreur de certificat.



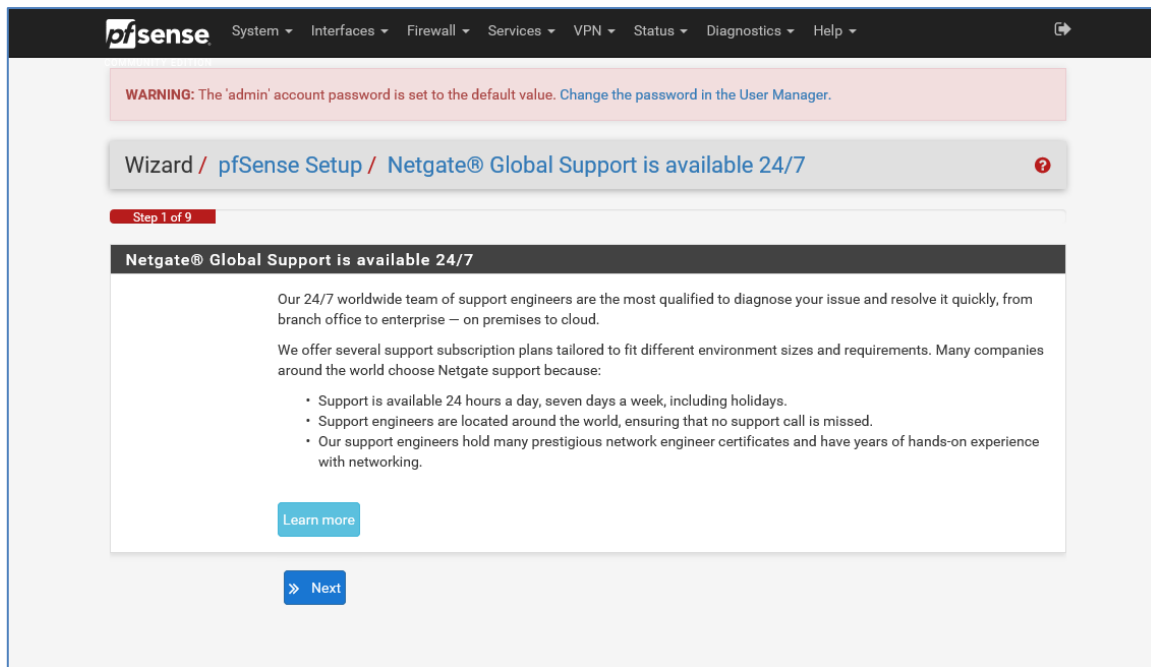
Par défaut, le mot de passe **admin** est **pfsense**



À la première connexion, un assistant de configuration est lancé. Suivez cet assistant.



1.1 Étape 1 – Netgate Global Support



1.2 Étape 2 – Information générale

Step 2 of 9

General Information

On this screen the general pfSense parameters will be set.

Hostname

pfSense

EXAMPLE: myserver

Domain

home.arpa

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

1.3 Étape 3 – Serveur de temps et fuseau horaire

Changer les paramètres de date et d'heure pour ceux de **New-York** (ce sont les mêmes qu'à Montréal). Assurez-vous que ce paramètre soit correctement configuré, car une date ou une heure invalide pourrait nous causer des problèmes lors de la configuration d'autres services tels que les VPNs.

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](#)

1.4 Étape 4 – Configuration du WAN

Wizard / pfSense Setup / Time Server Information

Step 3 of 9

Time Server Information

Please enter the time, date and time zone.

Time server hostname

2.pfsense.pool.ntp.org

Enter the hostname (FQDN) of the time server.

Timezone

Canada/Eastern

>> Next

Static IP Configuration

IP Address

Subnet Mask

32

Upstream Gateway

DHCP client configuration

DHCP Hostname

The value in this field is sent as the DHCP client identifier and hostname when requesting a DHCP lease. Some ISPs may require this (for client identification).

DHCP client configuration

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PPPoE configuration

PPPoE Username

PPPoE Password

Show PPPoE password

☐ Reveal password characters

PPPoE Service name

Hint: this field can usually be left empty

PPPoE Dial on demand

☐ Enable Dial-On-Demand mode

This option causes the interface to operate in dial-on-demand mode, allowing a virtual full time connection. The interface is configured, but the actual connection of the link is delayed until qualifying outgoing traffic is detected.

PPPoE Idle timeout

If no qualifying outgoing packets are transmitted for the specified number of seconds, the connection is brought down. An idle timeout of zero disables this feature.

PPTP configuration	
PPTP Username	<input type="text"/>
PPTP Password	<input type="password"/>
Show PPTP password	<input type="checkbox"/> Reveal password characters
PPTP Local IP Address	<input type="text"/>
pptplocalsubnet	<input type="text" value="32"/>
PPTP Remote IP Address	<input type="text"/>
PPTP Dial on demand	<input type="checkbox"/> Enable Dial-On-Demand mode This option causes the interface to operate in dial-on-demand mode, allowing a virtual full time connection. The interface is configured, but the actual connection of the link is delayed until qualifying outgoing traffic is detected.
PPTP Idle timeout	<input type="text"/> If no qualifying outgoing packets are transmitted for the specified number of seconds, the connection is brought down. An idle timeout of zero disables this feature.

Attention

Lors de la configuration de l'interface WAN, assurez-vous de décocher cette case. Ce paramètre bloque les adresses IP privées sur l'interface WAN.

Comme notre interface WAN est configurée en NAT, elle se trouve dans un sous-réseau privé. Si vous laissez cette option activée, vous ne pourrez jamais configurer de règles de redirection de port puisqu'elles émaneront toutes d'un réseau privé.

RFC1918 Networks	
Block RFC1918 Private Networks	<input type="checkbox"/> 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	<input checked="" type="checkbox"/> 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.
<input type="button" value="» Next"/>	

1.5 Étape 5 – Configuration du LAN

Laisser les paramètres de l'interface LAN par défaut.

The screenshot shows the 'Configure LAN Interface' step of the pfSense Setup Wizard. The breadcrumb trail at the top reads 'Wizard / pfSense Setup / Configure LAN Interface'. A progress bar indicates 'Step 5 of 9'. The main title 'Configure LAN Interface' is displayed in a dark header. Below the title, a message states: 'On this screen the Local Area Network information will be configured.' The form contains two fields: 'LAN IP Address' with the value '192.168.1.1' and a subtext 'Type dhcp if this interface uses DHCP to obtain its IP address.', and 'Subnet Mask' with a dropdown menu showing '24'. A blue 'Next' button with a double arrow icon is located at the bottom.

Wizard / pfSense Setup / Configure LAN Interface

Step 5 of 9

Configure LAN Interface

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

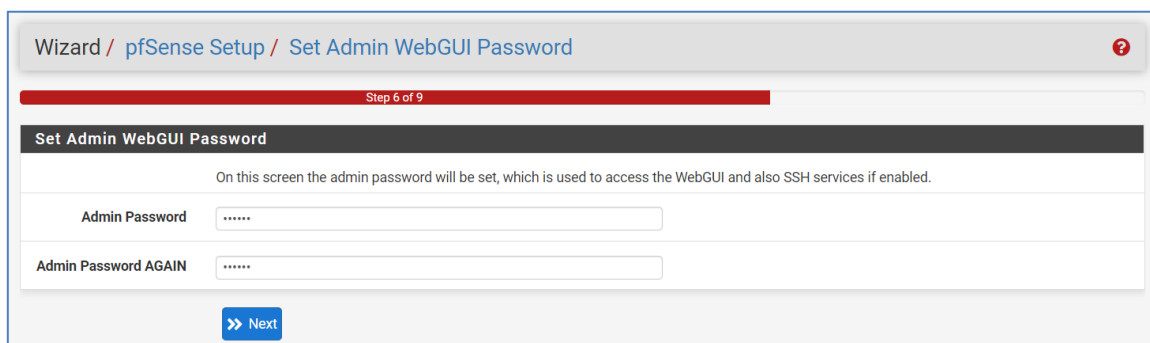
LAN IP Address
Type dhcp if this interface uses DHCP to obtain its IP address.

Subnet Mask

[Next](#)

1.6 Étape 6 – Définir un nouveau mot de passe

Définir un nouveau mot de passe **admin**.



The screenshot shows the 'Set Admin WebGUI Password' step of the pfSense Setup Wizard. The breadcrumb trail at the top reads 'Wizard / pfSense Setup / Set Admin WebGUI Password'. A progress bar indicates 'Step 6 of 9'. The main heading is 'Set Admin WebGUI Password'. Below this, a message states: 'On this screen the admin password will be set, which is used to access the WebGUI and also SSH services if enabled.' There are two password input fields: 'Admin Password' and 'Admin Password AGAIN', both masked with dots. A 'Next' button with a double arrow icon is at the bottom.

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.

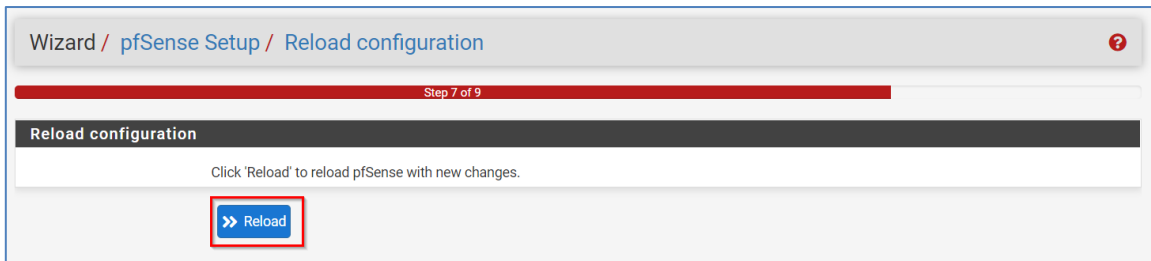
Admin Password

Admin Password AGAIN

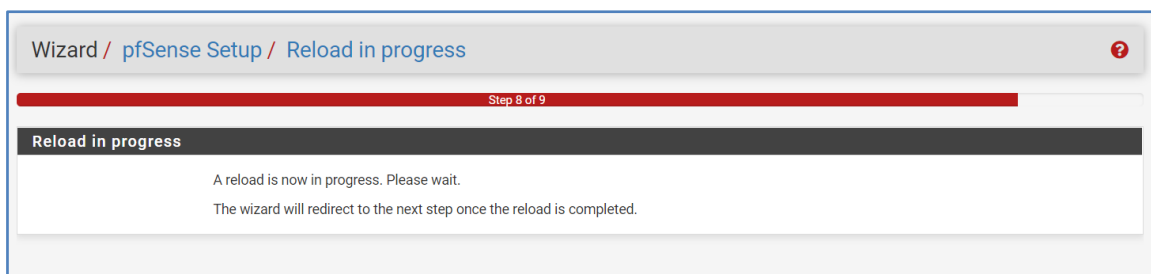
Next

1.7 Étape 7 – Relancer les services

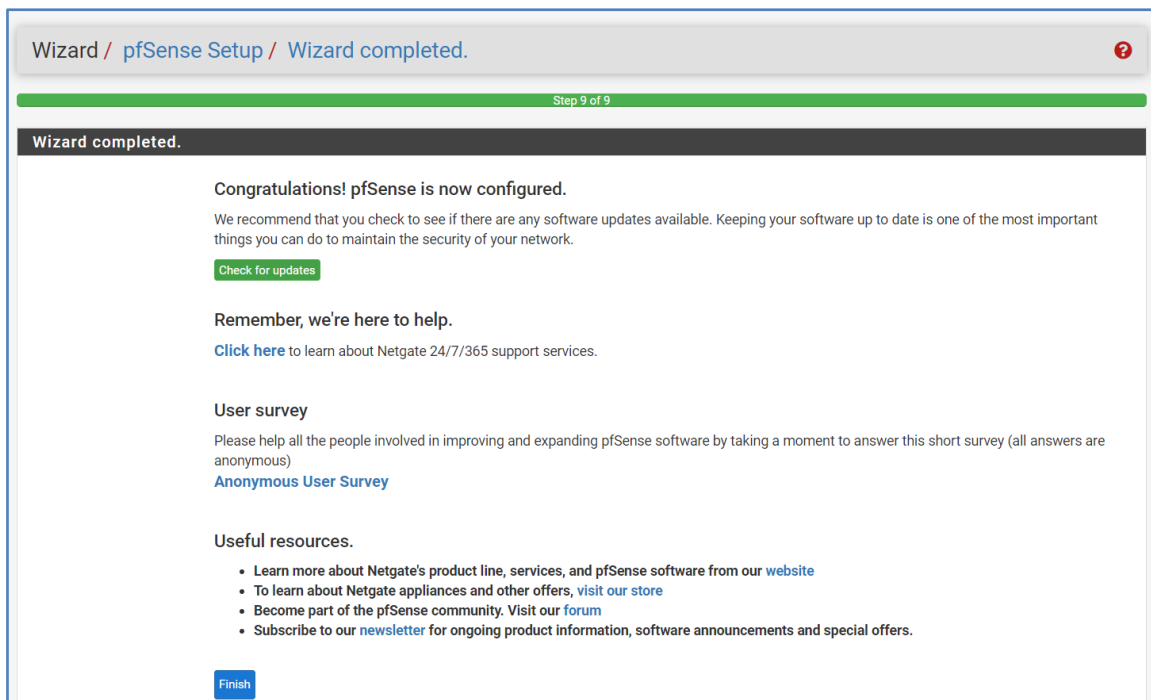
La configuration initiale de pfSense est maintenant terminée. Cliquez sur **Reload** pour relancer les services réseau.



1.8 Étape 8 – Redémarrage des services



1.9 Étape 9 – Fin de l'assistant



1.10 Étape 10 – Accepter les termes de la licence et sondage

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Accept

Thank you!

Many people expend a lot of effort improving and expanding pfSense software. It would be very helpful if you would please take a moment to complete this brief and anonymous survey to help guide those efforts.

[User survey](#)

Close

1.11 Étape 11 –Affichage du tableau de bord

The screenshot displays the pfSense Community Edition dashboard. The top navigation bar includes links for System, Interfaces, Firewall, Services, VPN, Status, Diagnostics, and Help. The main content area is divided into two panels. The left panel, titled 'System Information', contains a table with details about the system, including the name, user, system type, BIOS version, and CPU type. The right panel, titled 'Netgate Services And Support', provides information about the support contract type and lists various support resources.

System Information

Name	pfSense.home.arpa
User	admin@192.168.1.100 (Local Database)
System	VMware Virtual Machine Netgate Device ID: 2e96dfcc80d07c262aea
BIOS	Vendor: Phoenix Technologies LTD Version: 6.00 Release Date: Thu Nov 12 2020
Version	2.6.0-RELEASE (amd64) built on Mon Jan 31 19:57:53 UTC 2022 FreeBSD 12.3-STABLE The system is on the latest version. Version information updated at Sun Sep 4 15:45:08 EDT 2022
CPU Type	Intel(R) Core(TM) i7-7500U CPU @ 2.70GHz AES-NI CPU Crypto: Yes (inactive) QAT Crypto: No

Netgate Services And Support

Contract type: Community Support
Community Support Only

NETGATE AND pfSense COMMUNITY SUPPORT RESOURCES

If you purchased your pfSense gateway firewall appliance from Netgate and elected **Community Support** at the point of sale or installed pfSense 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](#)
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