

# Instalation PfSense

Auteur : WANKE Louis	Référence : MO_INF_LW_INSTPFS
----------------------	-------------------------------

## Table des matières

Configuration de la VM.....	3
Installation PfSense.....	4
Configuration PfSense Shell.....	7
Configuration PfSense Web.....	8

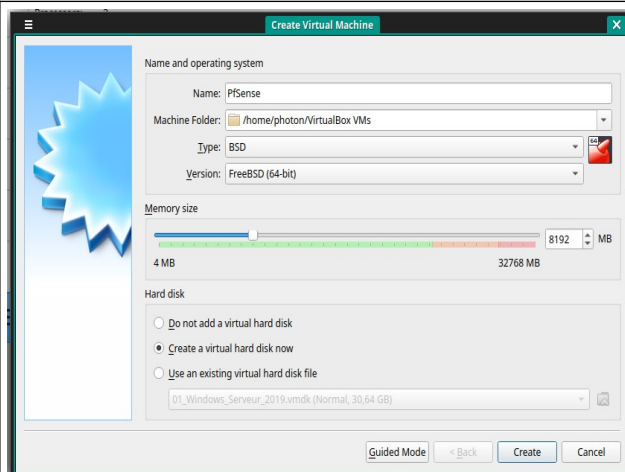
Mise à jour : --/--/----	Crée le : 01/06/2022	Version : 1.0
--------------------------	----------------------	---------------

## TEXTE

## IMAGES

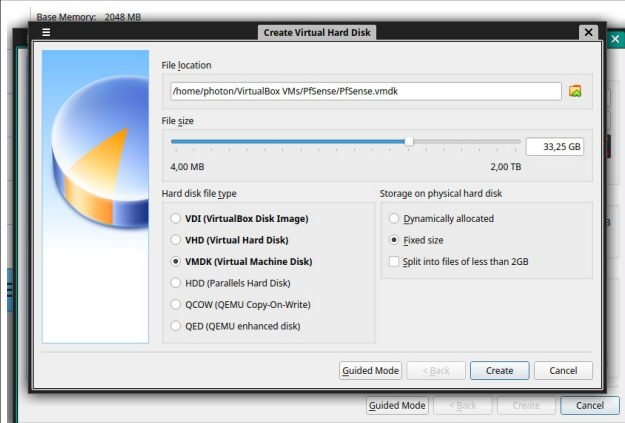
## Configuration de la VM

Crées une VM comme suit :  
- FreeBSD (64 bits)

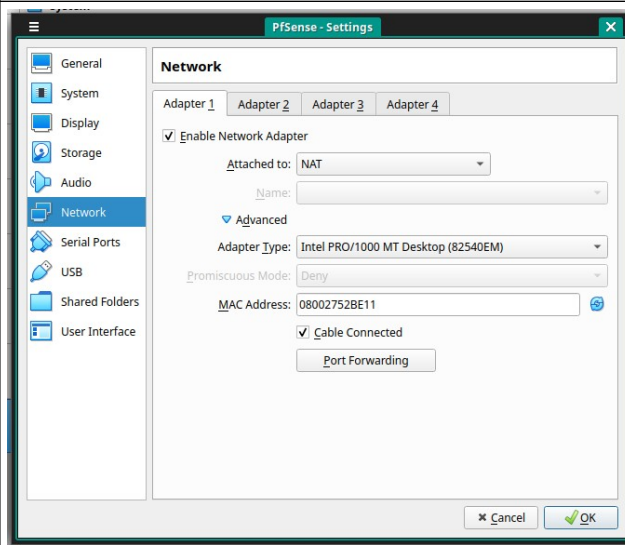


Dédier 32 Go de ROM en Disque VMDK

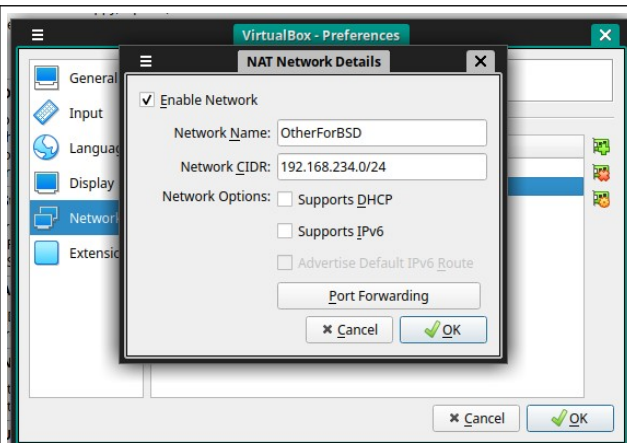
Mettre la taille en fixe pour des meilleur performance



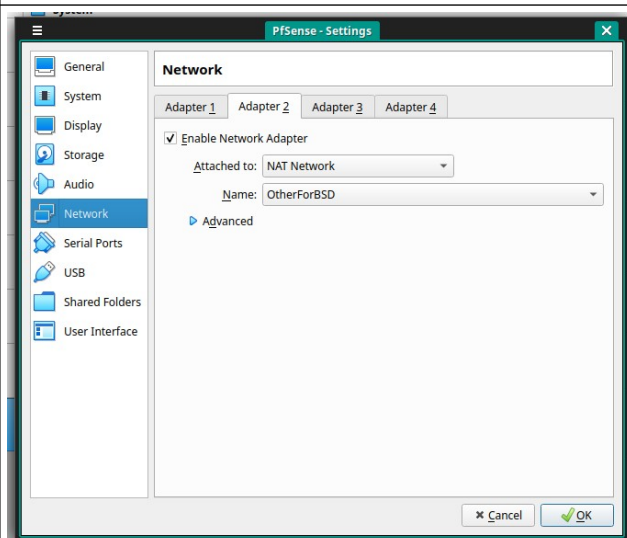
Configurer la première carte reseau en NAT



Configurer un NAT Network comme suit



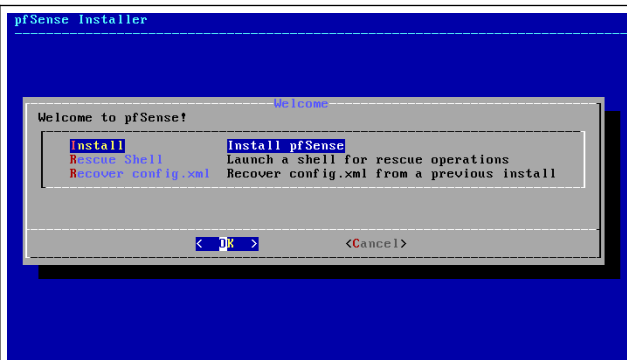
Configurer la deuxième carte reseau sur le NAT Network que vous venez de créer


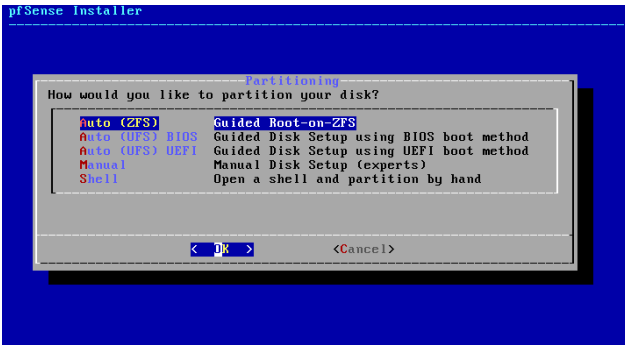
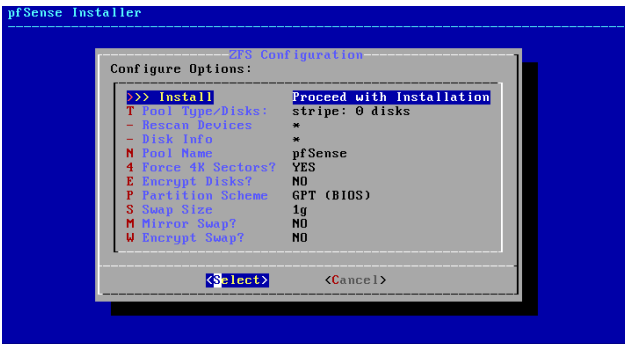
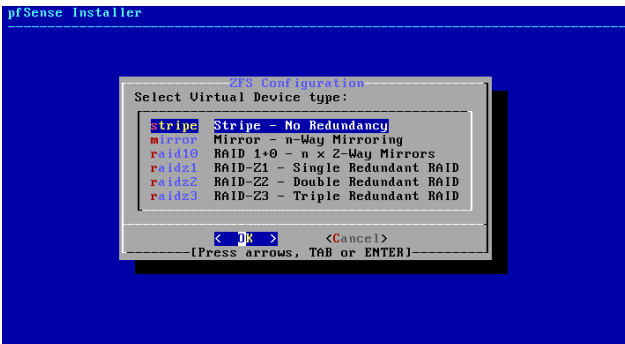


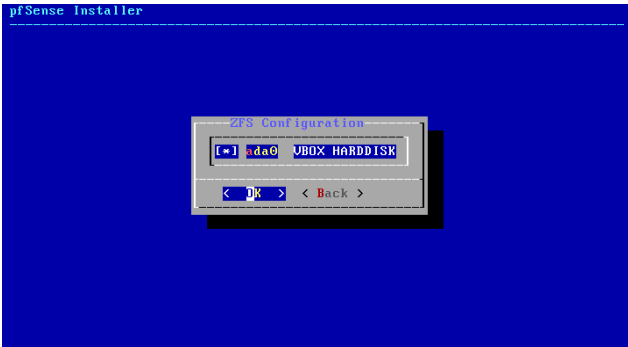
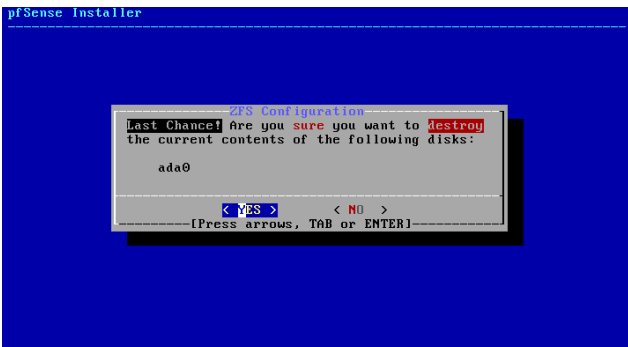
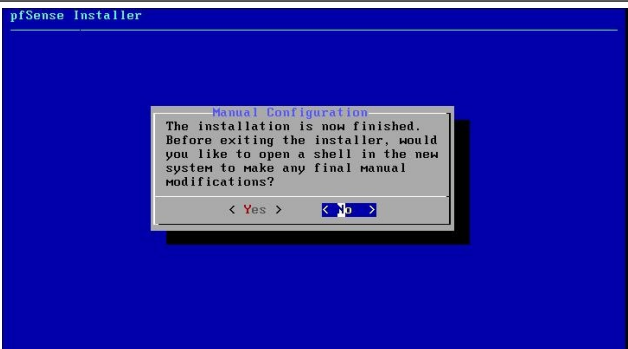
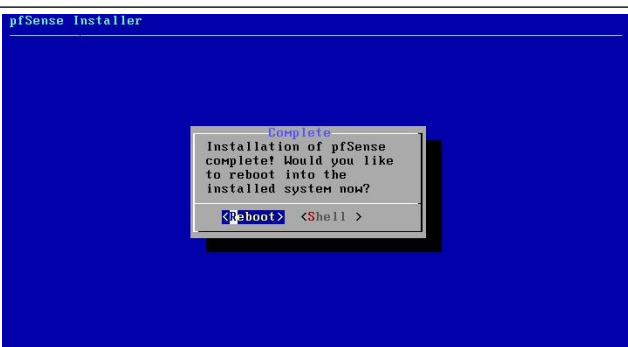
Démarrer la machine avec l'iso de PfSense

## Installation PfSense

Faire l'install

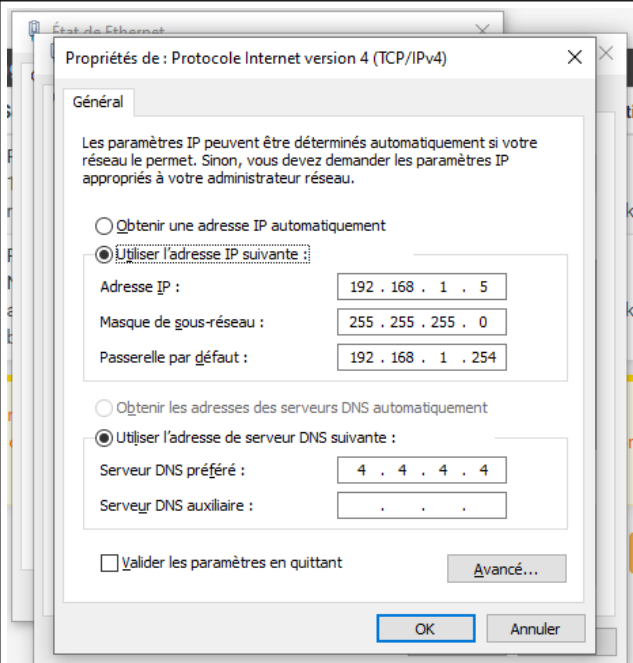


Auteur : WANKE Louis		Référence : MO_INF_LW_INSTPFS	
Selection FRENCH			
Puis faite Continue			
Rester sur Auto et appuier qur entrer			
Entrer sur install		 <p>Create ZFS boot pool with displayed options</p>	
Rester sur Stripe puis entrer		 <p>(1+ Disks) Striping provides maximum storage but no redundancy</p>	
Mise à jour : --/--/----	Crée le : 01/06/2022	Version : 1.0	

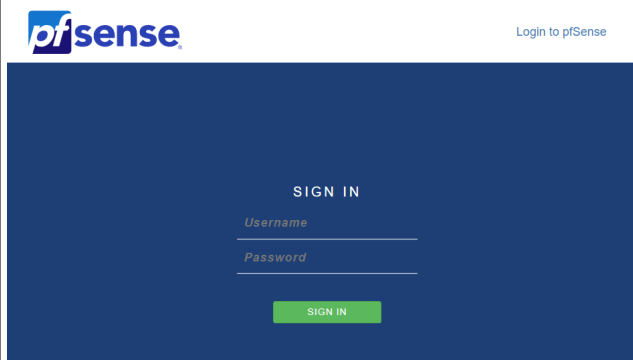
Auteur : WANKE Louis		Référence : MO_INF_LW_INSTPFS	
Espace pur selctionner ada0			
Puis entrer sur Ok			
Valider le Formatage			
Une fois l'instalation fin faite no			
Faite Reboot			
Puis Retirer l'iso			
Mise à jour : --/--/----	Crée le : 01/06/2022	Version : 1.0	

Auteur : WANKE Louis		Référence : MO_INF_LW_INSTPFS	
Configuration PfSense Shell			
Vous devriez arriver sur quelque chose comme ceci		<pre>Starting syslog...done. Starting CRON... done. pfSense 2.6.0-RELEASE amd64 Mon Jan 31 19:57:53 UTC 2022 Bootup complete  FreeBSD/amd64 (pfSense.home.arpa) (ttyv0)  VirtualBox Virtual Machine - Metgate Device ID: 3e4e2960120a016f3fd4  *** Welcome to pfSense 2.6.0-RELEASE (amd64) on pfSense ***  WAN (wan)      -&gt; em0      -&gt; v4/DHCP4: 192.168.0.241/24 LAN (lan)      -&gt; em1      -&gt; v4: 192.168.1.1/24  0) Logout (SSH only)          9) pTop 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: █</pre>	
Selectionner l’option 2 puis l’interface LAN			
Mettez l’IP 192.168.1.254		<pre>WAN (wan)      -&gt; em0      -&gt; v4/DHCP4: 192.168.0.241/24 LAN (lan)      -&gt; em1      -&gt; v4: 192.168.1.1/24  0) Logout (SSH only)          9) pTop 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  Available interfaces:  1 - WAN (em0 - dhcp, dhcp6) 2 - LAN (em1 - static)  Enter the number of the interface you wish to configure: 2  Enter the new LAN IPv4 address. Press &lt;ENTER&gt; for none: &gt; 192.168.1.254█</pre>	
Mettez un masque de sous reseau de 24 bits pour : 255.255.255.0		<pre>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  Available interfaces:  1 - WAN (em0 - dhcp, dhcp6) 2 - LAN (em1 - static)  Enter the number of the interface you wish to configure: 2  Enter the new LAN IPv4 address. Press &lt;ENTER&gt; for none: &gt; 192.168.1.254  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 32): &gt; 24█</pre>	
Entrer			
Entrer			
Puis n pour desactiver le DHCP sur ce reseau			
Puis y pour http			
Verifier l’IP de la LAN		<pre>The IPv4 LAN address has been set to 192.168.0.254/24 You can now access the webConfigurator by opening the following URL in your web browser:      http://192.168.0.254/  Press &lt;ENTER&gt; to continue. VirtualBox Virtual Machine - Metgate Device ID: 3e4e2960120a016f3fd4  *** Welcome to pfSense 2.6.0-RELEASE (amd64) on pfSense ***  WAN (wan)      -&gt; em0      -&gt; v4/DHCP4: 192.168.0.241/24 LAN (lan)      -&gt; em1      -&gt; v4: 192.168.0.254/24  0) Logout (SSH only)          9) pTop 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: █</pre>	
Mise à jour : --/--/----	Crée le : 01/06/2022	Version : 1.0	

Dans un VM windows sur le même NAT Network que PfSense, configurer une ip fixe comme suis



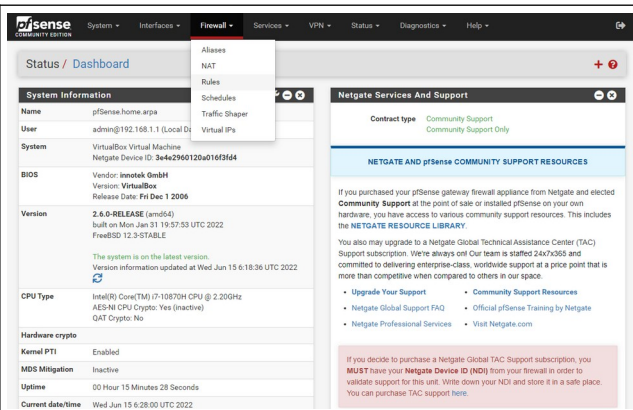
Sur un navigateur aller à l'address <http://192.168.1.254/>



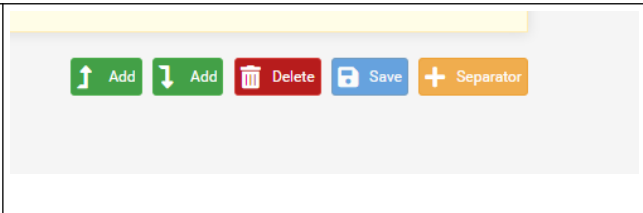
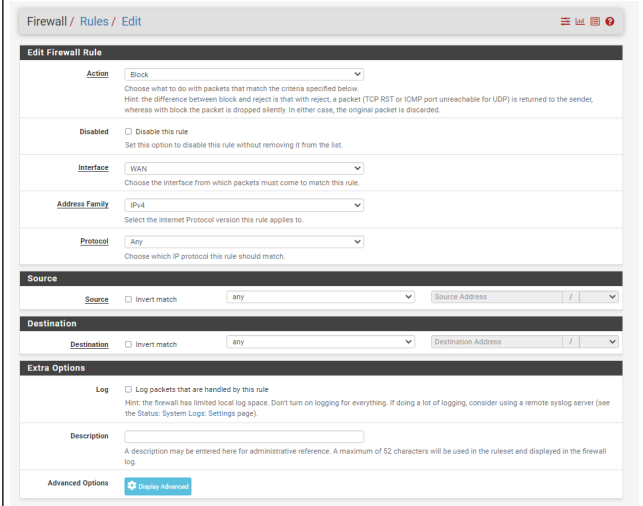
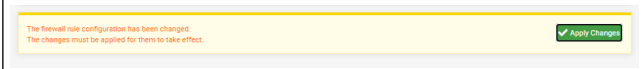
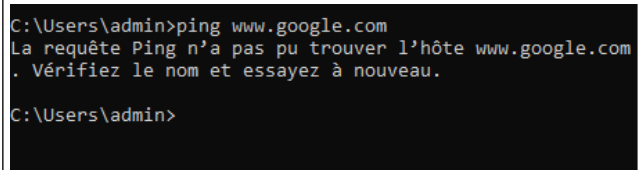
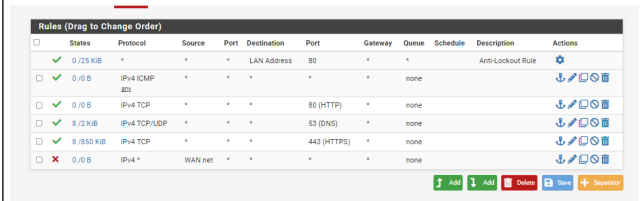
## Configuration PfSense Web

Mise en place filtre : <<deny all>>

Aller dans Rules dans Firewall





Auteur : WANKE Louis		Référence : MO_INF_LW_INSTPFS	
Cliquer sur Add, celui de gauche			
Action : Block			
Interface : WAN			
Adress familily : IPv4			
Protocol : any			
Source : WAN net			
Destination : any			
Apply Change			
Ping Google			
Mise en place filtre Internet			
Configurer des règle comme suit sur le screen			
Crées un portail captif			
Aller dans services/Captive portal			
Mise à jour : --/--/----	Crée le : 01/06/2022	Version : 1.0	

Auteur : WANKE Louis

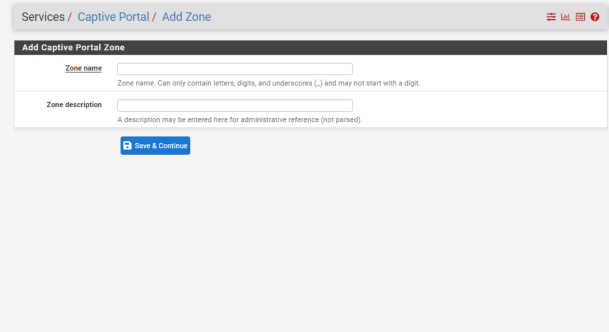
Référence : MO\_INF\_LW\_INSTPFS

Cliquer sur add

Choisir un nom de Zone et un nom de description

Puis Ajouter et Enable captive portal

Faite comme sur la capture



Mise à jour : --/--/----

Crée le : 01/06/2022

Version : 1.0

Faite comme sur la capture

Puis cliquer sur save

**Captive Portal Login Page**

Display custom logo image ☐ Enable to use a custom uploaded logo

Logo Image [Choose an image](#) [Assign folder via dd-equipment](#)

Add a logo for use in the default portal login screen. File will be renamed captiveportal-logo.\* The image will be resized to fit within the given area. It can be of any image type: .png, .jpg, .gif. This image will not be stored in the config. The default logo will be used if no custom image is present.

Display custom background image ☐ Enable to use a custom uploaded background image

Background Image [Choose an image](#) [Assign folder via dd-equipment](#)

Add a background image for use in the default portal login screen. File will be renamed captiveportal-background.\* The background image will fill the screen. This image will not be stored in the config. The default background image will be used if no custom background is present.

Terms and Conditions

Copy and paste terms and conditions for use in the captive portal. HTML tags will be stripped out

**Authentication**

Authentication Method [Use an Authentication backend](#)

Select an Authentication Method to use for this zone. One method must be selected.

- 'Authentication backend' will force the login page to be displayed and will authenticate users using their login and password, or using vouchers.
- 'None' method will force the login page to be displayed but will accept any visitor that clicks the 'submit' button.
- 'RADIUS MAC Authentication' method will try to authenticate devices automatically with their MAC address without displaying any login page.

Authentication Server [Local Database](#)

You can add a remote authentication server in the User Manager.

Vouchers could also be used, please go to the Vouchers Page to enable them.

Secondary authentication Server [Local Database](#)

You can optionally select a second set of servers to authenticate users. Users will then be able to login using separated HTML inputs. This setting is useful if you want to provide multiple authentication method to your users. If you don't need multiple authentication method, then leave this setting empty.

Reauthenticate Users ☐ Reauthenticate connected users every minute

If reauthentication is enabled, request are made to the server for each user that is logged in every minute. If an access denied is received for a user, that user is disconnected from the captive portal immediately. Reauthentication requires user credentials to be cached in the captive portal database while a user is logged in. The cached credentials are necessary for the portal to perform automatic reauthentication requests.

Local Authentication Privileges ☒ Allow only users/groups with 'Captive portal login' privilege set

**HTTPS Options**

Login ☒ Enable HTTPS login

When enabled, the username and password will be transmitted over an HTTPS connection to protect against eavesdroppers. A server name and certificate must also be specified below.

[Save](#)

Maintenant aller sur internet et verifier que la page d'authentification vous est demander

**pfSense**

**First Authentication Method**

User

Password

**Second Authentication Method**

User

Password

[Login](#)

Made with ♥ by Netgate

Fin du mode Opérateur