# Documentation technique PFsense



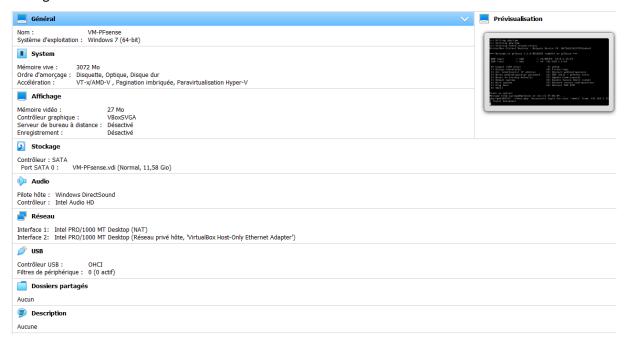
# Sommaire:

# Table des matières

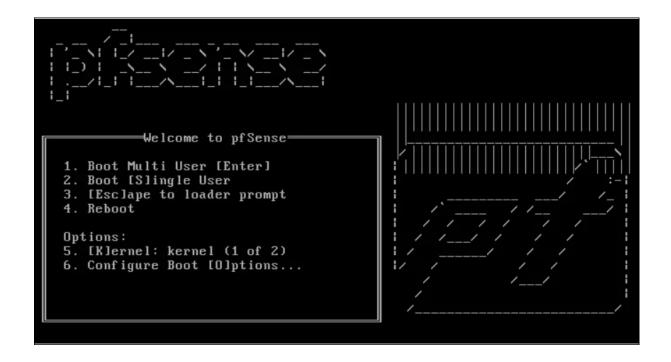
1.	Installation de PFsense :	3
2.	Accès a l'interface web de PFsense :	6
3.	Mise en place d'un filtrage « Deny all »	9
4.	Mise en place d'un portail captif :	.2

### 1. Installation de PFsense :

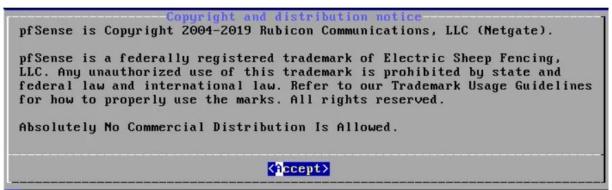
### Configuration de la VM et ses interface réseaux :



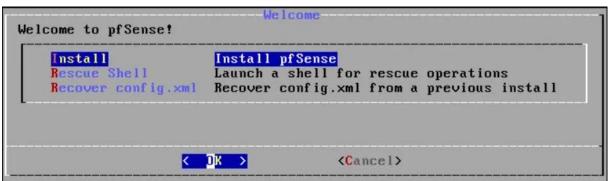
### Ensuite on lance la VM:



### Accepter le contrat de licence utilisateur final PFsense :

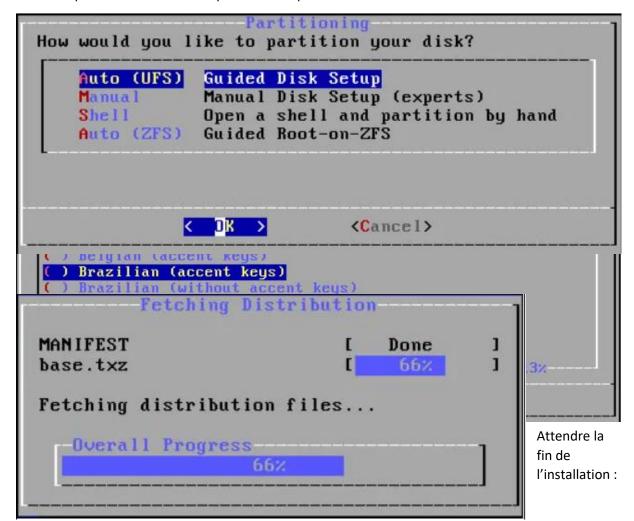


#### Choisir installer PFsense:

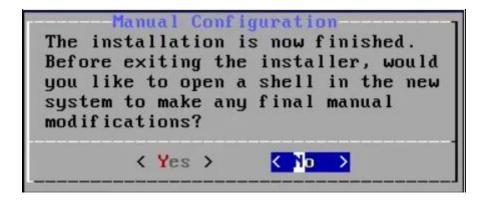


Sélectionner le clavier que l'on souhaite :

Choisir le partitionnement du disque automatiquement :



Sélectionner non pour l'écran de configuration manuelle :



Choisir reboot et enlever le support d'installation :

```
Installation of pfSense complete! Would you like to reboot into the installed system now?

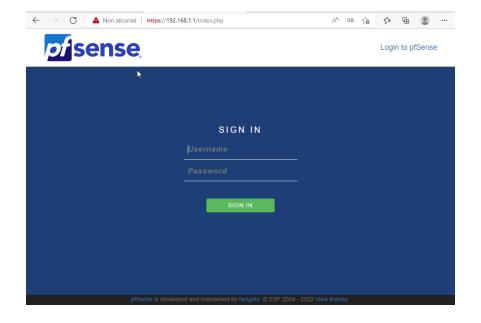
(Reboot) (Shell )
```

Ensuite nous arrivons sur le menu de PFsense et c'est good :

```
*** Welcome to pfSense 2.6.0-RELEASE (amd64) on pfSense ***
                              -> v4/DHCP4: 10.0.2.15/24
WAN (wan)
                -> em0
LAN (lan)
                -> em1
                              -> v4: 192.168.1.1/24
                                      9) pfTop
10) Filter Logs
0) Logout (SSH only)
1) Assign Interfaces
2) Set interface(s) IP address
                                     11) Restart webConfigurator
Reset webConfigurator password
                                     12) PHP shell + pfSense tools
                                     13) Update from console
4) Reset to factory defaults
5) Reboot system
                                     14) Enable Secure Shell (sshd)
6) Halt system
                                     15) Restore recent configuration
7) Ping host
                                     16) Restart PHP-FPM
8) Shell
```

### 2. Accès a l'interface web de PFsense :

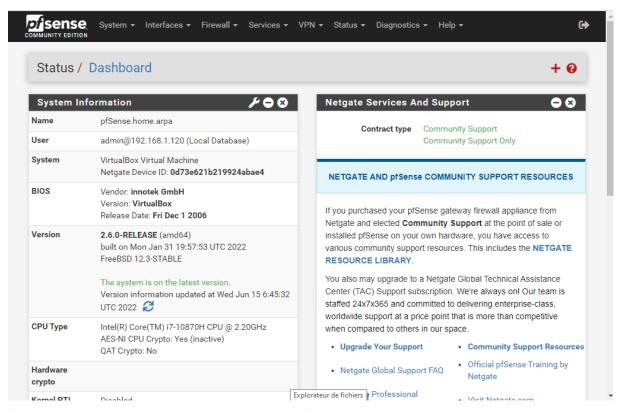
Il faut avoir un client dans le même réseau que notre serveur PFsense et ensuite taper l'adresse LAN de notre serveur PFsense et on accède à l'interface :



Le nom d'utilisateur et le mot de passe par défaut sont :

Nom d'utilisateur : admin Mot de passe : pfsense

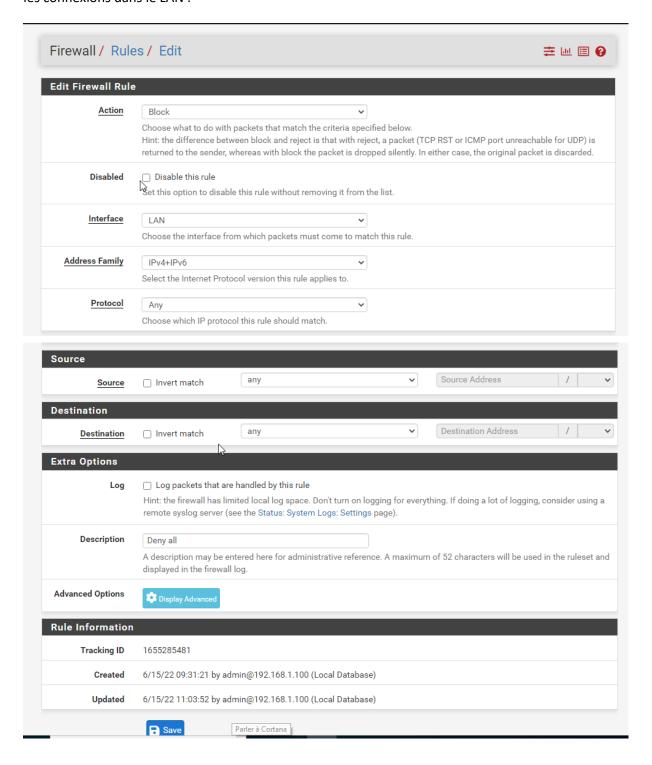
Nous arrivons sur la page de configuration de pfsense :



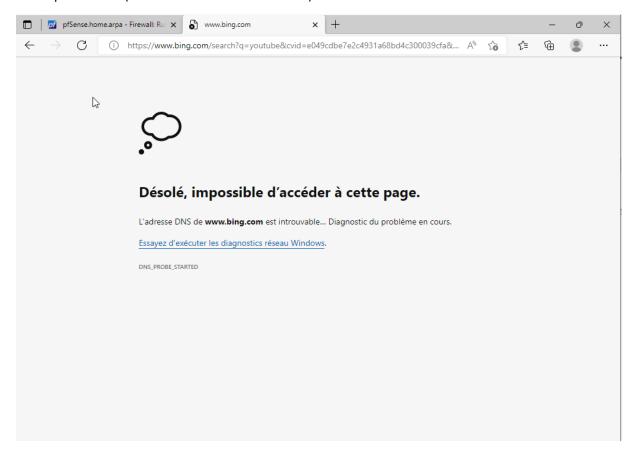
(Ne pas oublier de changer le mot de passe admin)

## 3. Mise en place d'un filtrage « Deny all »

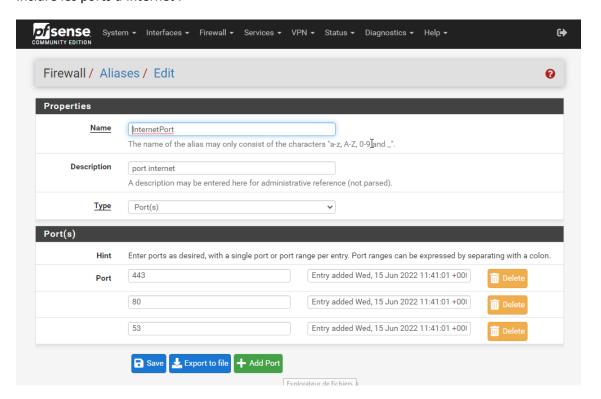
Il faut se rendre dans firewall -> Rules puis LAN et ensuite il faut créer une règle ou l'on block toutes les connexions dans le LAN :



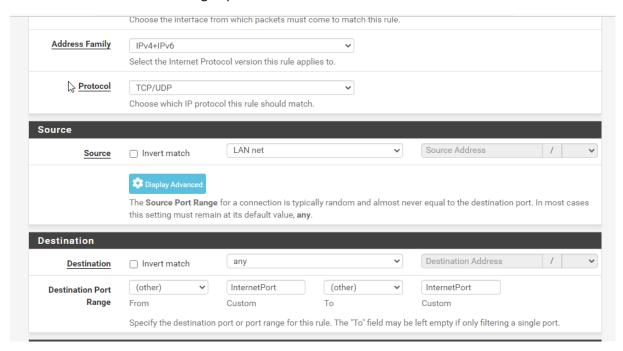
Voilà qui est fait ! (Screen de ma machine de test) :



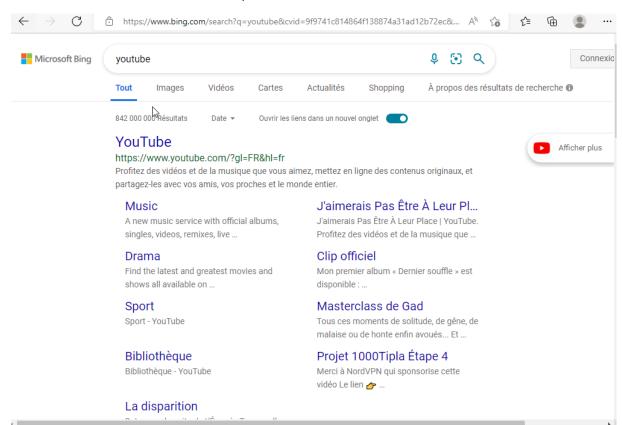
Maintenant nous voulons avoir accès seulement à internet donc nous allons créer un alias pour inclure les ports d'internet :



#### Ensuite nous allons créer une règle qui inclut cet alias en destination et en source « LAN net » :

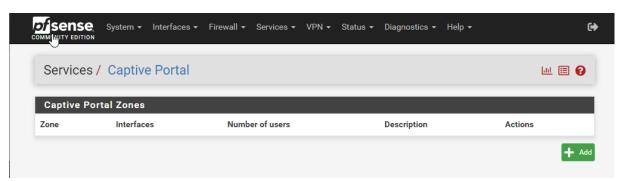


### Et voila nous avons maintenant accès qu'a internet :

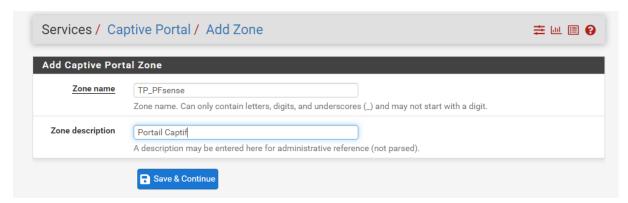


## 4. Mise en place d'un portail captif :

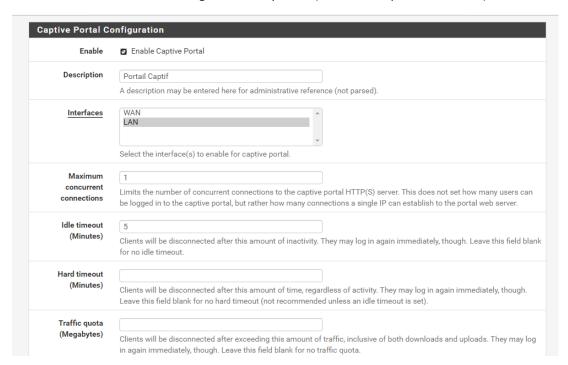
Pour créer un portal captif il faut aller dans services -> Captive Portal :



### Ensuite add et mettre le nom que l'on souhaite :

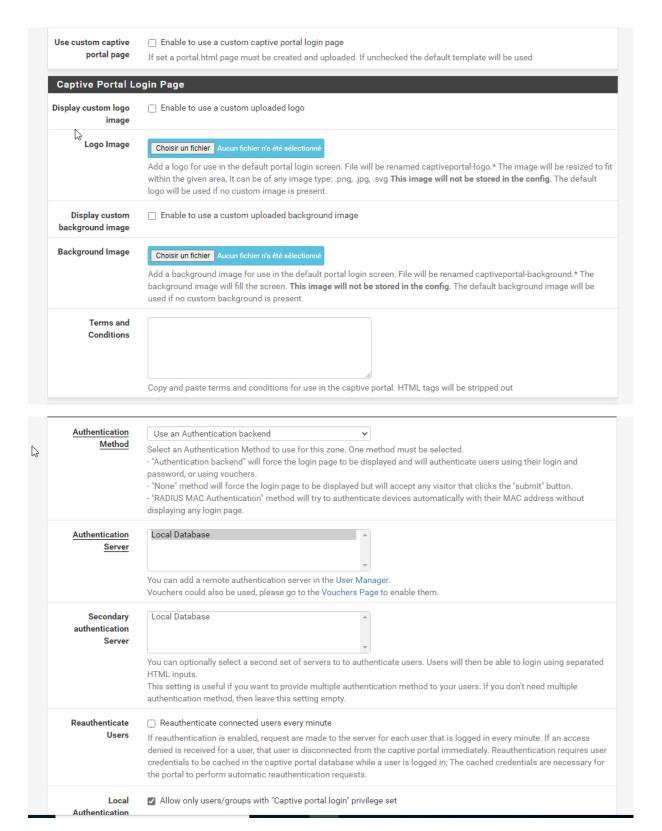


#### Puis nous arrivons dans la configuration du portail (suivre les captures d'écrans) :



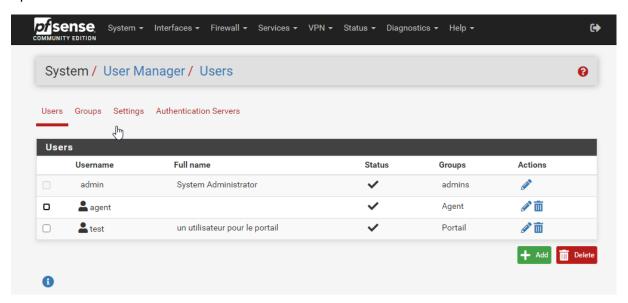
uuuress.	the client can only log in with valid credentials until the waiting period specified below has expired. Recommended to set a hard timeout and/or idle timeout when using this for it to be effective.
Waiting period to restore pass- through credits. (Hours)	Clients will have their available pass-through credits restored to the original count after this amount of time since using the first one. This must be above 0 hours if pass-through credits are enabled.
Reset waiting period	☐ Enable waiting period reset on attempted access  If enabled, the waiting period is reset to the original duration if access is attempted when all pass-through credits have already been exhausted.
Logout popup window	☑ Enable logout popup window If enabled, a popup window will appear when clients are allowed through the captive portal. This allows clients to explicitly disconnect themselves before the idle or hard timeout occurs.
Pre-authentication redirect URL	http://www.google.fr  Set a default redirection URL. Visitors will be redirected to this URL after authentication only if the captive portal doesn't know where to redirect them. This field will be accessible through \$PORTAL_REDIRURL\$ variable in captiveportal's HTML pages.
After authentication Redirection URL	http://www.google.fr  Set a forced redirection URL. Clients will be redirected to this URL instead of the one they initially tried to access after they've authenticated.
Blocked MAC address redirect URL	Blocked MAC addresses will be redirected to this URL when attempting access.
Preserve users database	Preserve connected users across reboot  If enabled, connected users won't be disconnected during a pfSense reboot.

Preserve users database	Preserve connected users across reboot  If enabled, connected users won't be disconnected during a pfSense reboot.
Concurrent user logins	Disabled  Disabled: Do not allow concurrent logins per username or voucher.  Multiple: No restrictions to the number of logins per username or voucher will be applied.  Sast login: Only the most recent login per username or voucher will be granted. Previous logins will be disconnected.  First login: Only the first login per username or voucher will be granted. Further login attempts using the username or
MAC filtering	voucher will not be possible while an initial user is already active.  Disable MAC filtering
	If enabled no attempts will be made to ensure that the MAC address of clients stays the same while they are logged in. This is required when the MAC address of the client cannot be determined (usually because there are routers between pfSense and the clients). If this is enabled, RADIUS MAC authentication cannot be used.
Pass-through MAC Auto Entry	☐ Enable Pass-through MAC automatic additions  When enabled, a MAC passthrough entry is automatically added after the user has successfully authenticated. Users of that MAC address will never have to authenticate again. To remove the passthrough MAC entry either log in and remove it manually from the MAC tab or send a POST from another system. If this is enabled, the logout window will not be shown.
Per-user bandwidth restriction	☐ Enable per-user bandwidth restriction
Use custom captive portal page	☐ Enable to use a custom captive portal login page  If set a portal.html page must be created and uploaded. If unchecked the default template will be used
Captive Portal Lo	ogin Page
Display custom logo image	☐ Enable to use a custom uploaded logo



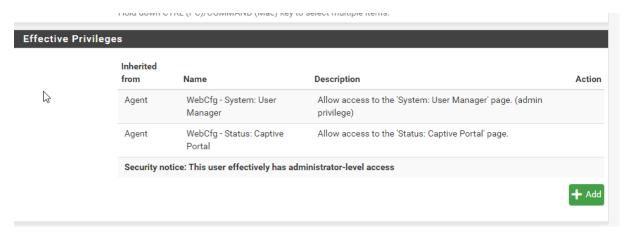
Et enfin faite SAVE.

### Après il faut créer des utilisateurs :

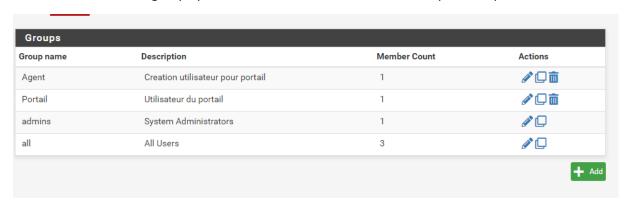


Cliquer sur Add et créer un utilisateur pour la gestion des comptes qui auront accès au portail captif (ici c'est agent qui est cette utilisateur)

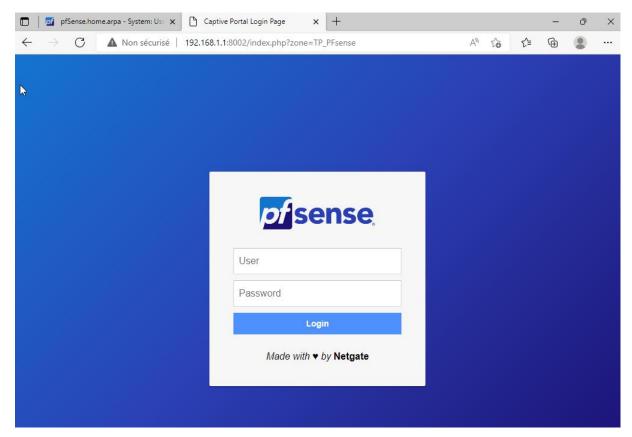
### Il dispose des privilèges ci-dessous :



### Ensuite il faut créer un groupe pour autoriser les utilisateur a utiliser le portail captif



Et enfin pour accéder au portail il faut taper l'adresse : http://192.168.1.1:8002/index.php?zone=TP\_PFsense



Ensuite la personne n'a qu'a se connecter avec ses identifiants.