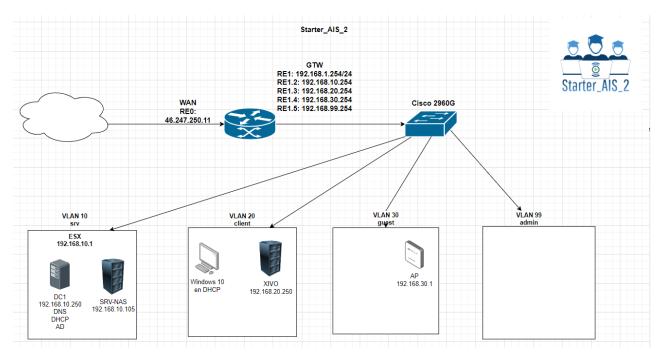
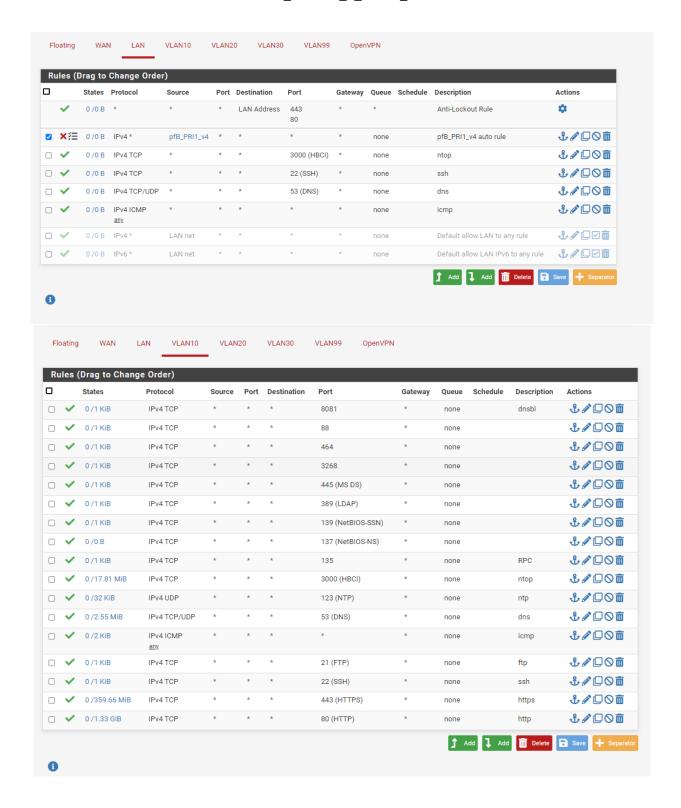
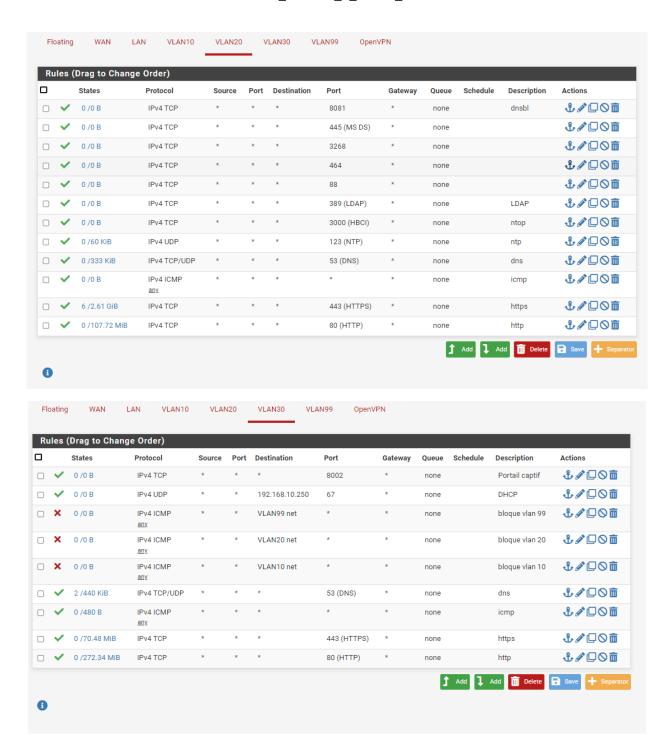
Schéma réseau

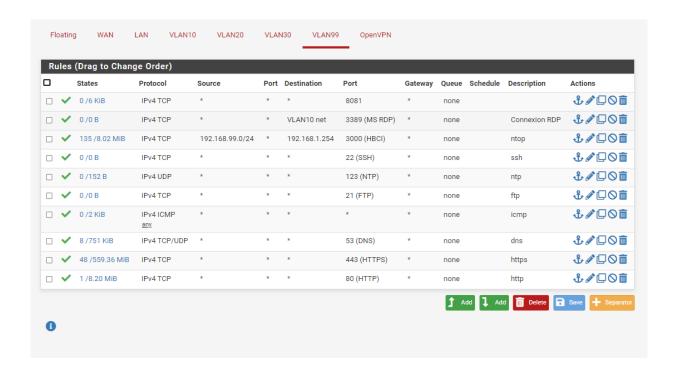


1. PFSense

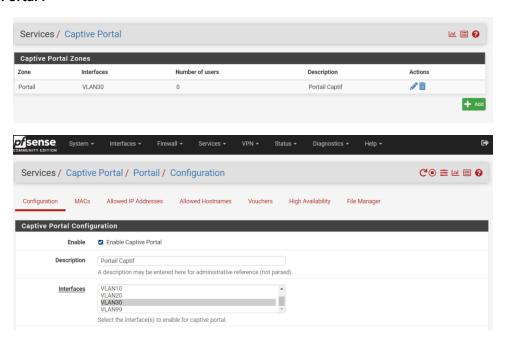
• Firewall :



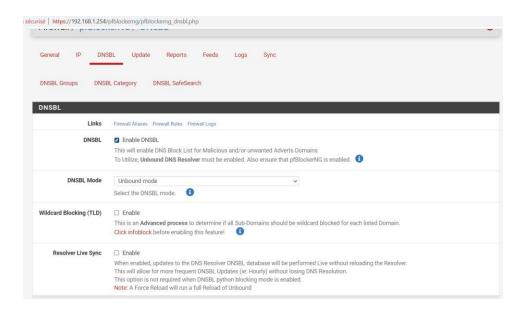




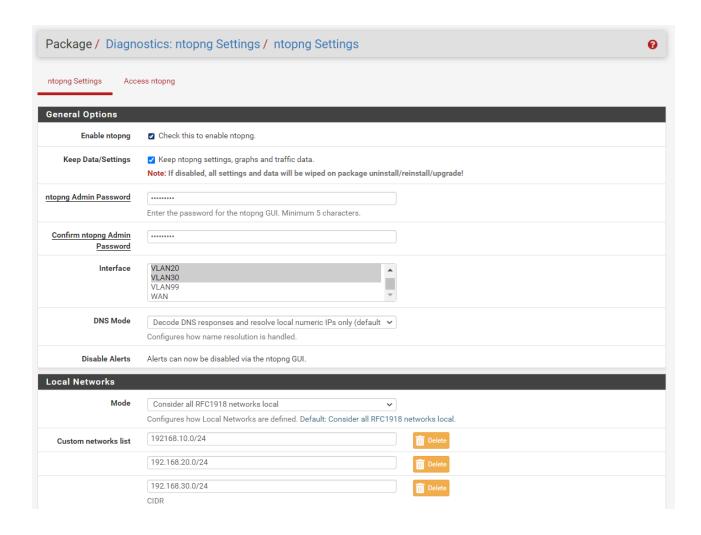
• Captive Portal:



• DNSBL:

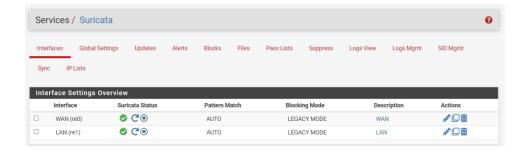


• Ntop:



• IDS :

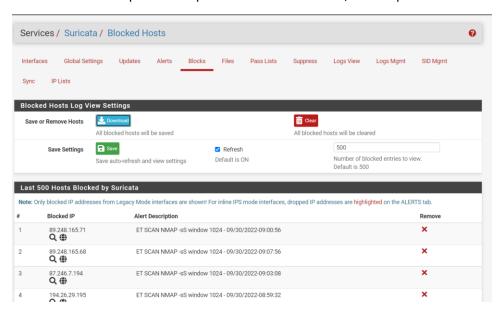
La solution choisie a été Suricata, installée directement via package sur Pfsense.



Les deux interfaces ont été paramétrées avec les options suivantes :

Blocking mode : LegacyDurée du ban : 15minKill state : NON

Lorsque l'on fait un test de nmap -sS sur la passerelle 192.168.1.254, le ban-ip s'effectue bien :



Et du côté de l'attacker :

```
C:\Users\CEFIM>
C:\Users\CEFIM>nmap -sS 192.168.1.254
Starting Nmap 7.93 ( https://nmap.org ) at 2022-09-29 10:40 Paris, Madrid (heure dÆÚtÚ)
Note: Host seems down. If it is really up, but blocking our ping probes, try -Pn
Nmap done: 1 IP address (0 hosts up) scanned in 3.14 seconds
```

2. Switch

• IF

```
00:30:09: %SYS-5-CONFIG_I: Configured from console by consoles % Type "show ?" for a list of subcommands
Switch#show vlan
VLAN Name
                                                                      Gi0/17, Gi0/21, Gi0/22, Gi0/23
                                                                      G10/24
G10/1, G10/2, G10/3, G10/4
G10/5, G10/6, G10/7, G10/8
G10/9, G10/10
     server
client
                                                       active
99 admin
1002 fddi-default
                                                       act/unsup
act/unsup
1002 Iddi-default
1003 token-ring-default
1004 fddinet-default
VLAN Type SAID
                               MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
      enet 100001
enet 100020
enet 100030
enet 100099
                               1500
1500
                               MTU Parent RingNo BridgeNo Stp BrdgMode Trans1 Trans2
1002 fddi 101002
1003 tr 101003
1004 fdnet 101004
         Taper ici pour rechercher
```

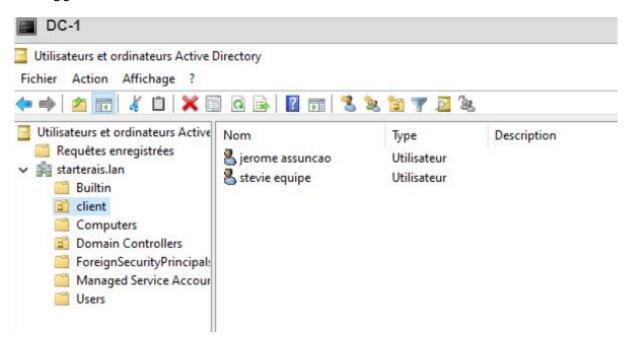
• LACP

//

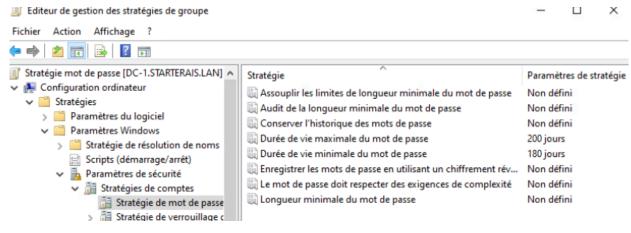
3. DC-1

• AD :

- OU



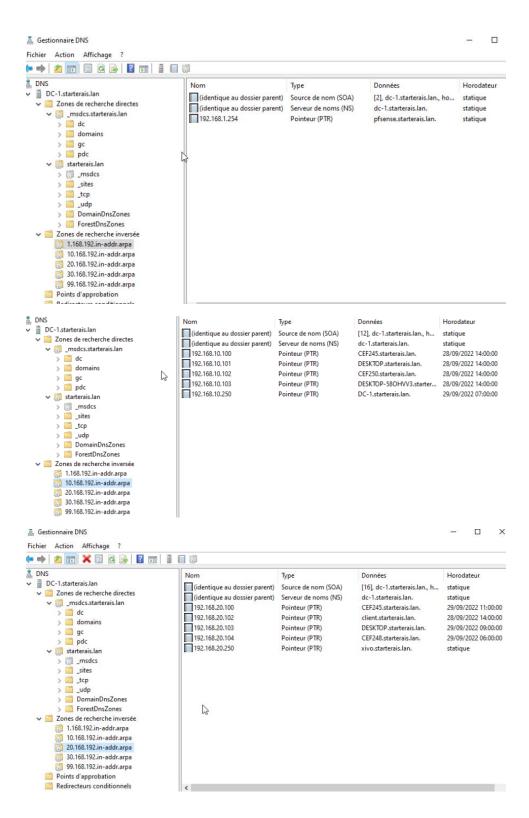
- GPO MDP

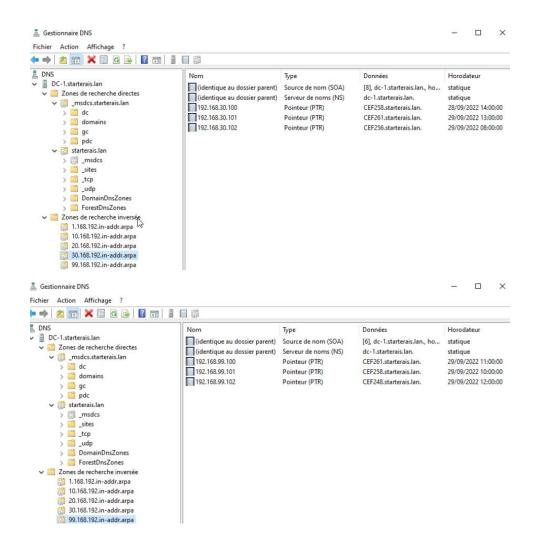


- NTP

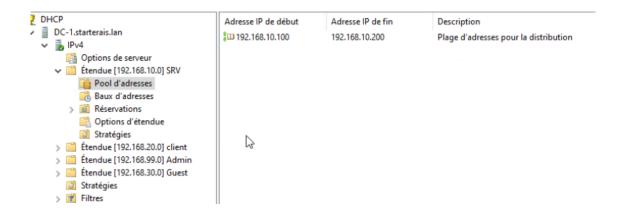
Script powershell useradd

• DNS:





• DHCP:

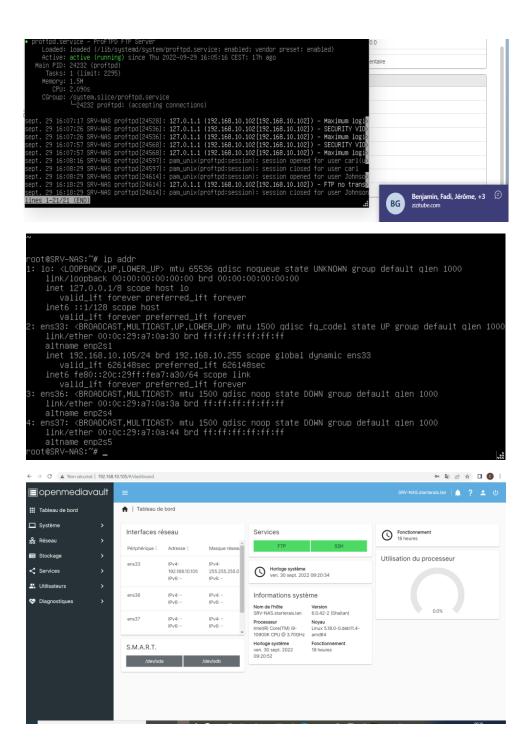


• CA :

• SRV-NAS:

La solution OpenMediaVault en debian 6 x64 a été choisie pour mettre en place le serveur NAS.

Statut du service & intégration dans le domaine :



- Dossier partagé & droits users appropriés :

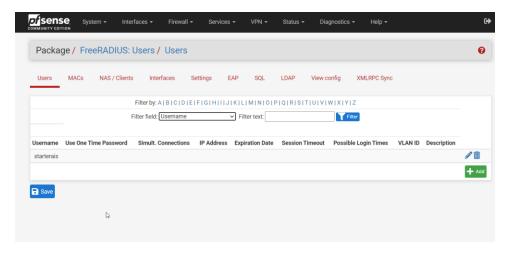




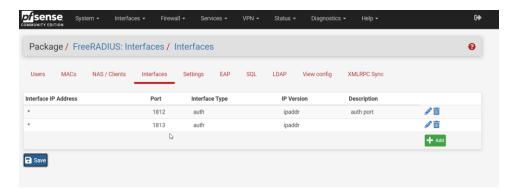
4. Access Point

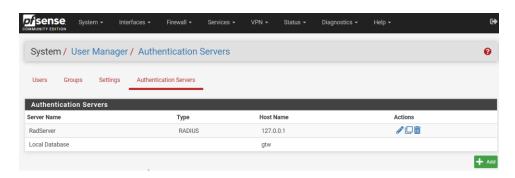
• Free radius

- Création utilisateur

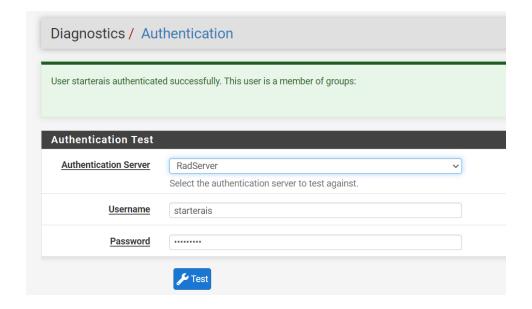


- Interfaces d'authentification



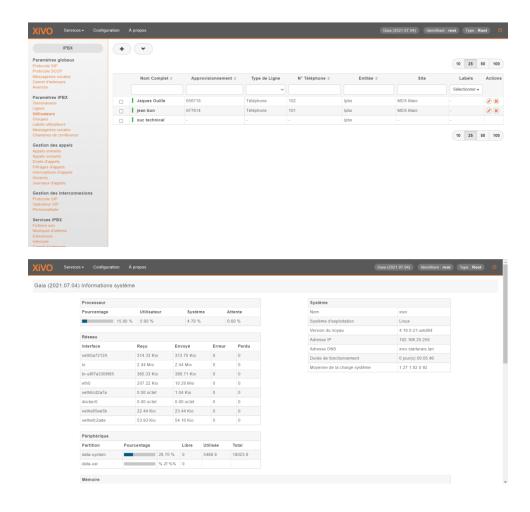


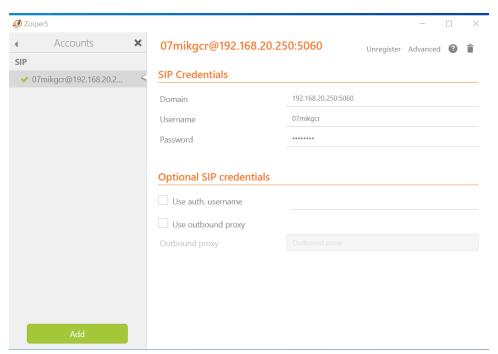
Test authentification utilisateur local



5. IPBX

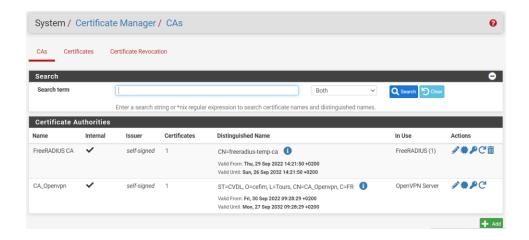
• SRV-XIVO





6. VPN

- Creation d'une autorité de certification



Création des certificats

