PROJET REV

AISSA Fayçal

partie 1:

sur sw1:

a/ pour le nommer

```
/ # Cli
SW1>en
SW1#conf t
SW1(config)#hostname SW1
```

b/ pour creer les vlan:

```
W1(config-vlan-100)#
W1(config-vlan-100)#
W1(config-vlan-100)#
W1(config-vlan-100)#
W1(config-vlan-100)#name COMMERCIAL
W1(config-vlan-100)#ex
W1(config)#vlan 200
W1(config-vlan-200)# name ADMINISTRATIF
W1(config-vlan-200)#
W1(config-vlan-200)#
W1(config-vlan-200)#
W1(config-vlan-200)#
W1(config-vlan-200)#ex
W1(config-vlan-200)#ex
W1(config-vlan-300)#name PRODUCTION
```

c/d/ pour leur assigner des port au vlan :

```
SW1(config)#interface ethernet 1-4
SW1(config-if-Et1-4)#switchport mode acces
SW1(config-if-Et1-4)#switchport acces vlan 100
SW1(config-if-Et1-4)#ex
SW1(config)#interface ethernet 5-8
SW1(config-if-Et5-8)#switchport mode acces
SW1(config-if-Et5-8)#switchport acces vlan 200
SW1(config-if-Et5-8)#ex
SW1(config-if-Et5-8)#ex
SW1(config)#interface ethernet 9-12
SW1(config-if-Et9-12)#switchport mode acces
SW1(config-if-Et9-12)#switchport acces vlan 300
SW1(config-if-Et9-12)#ex
SW1(config-if-Et9-12)#ex
SW1(config)#interface ethernet 13-16
SW1(config-if-Et13-16)#switchport mode trunk
SW1(config-if-Et13-16)#switchport trunk allowed vlan 100,200,300
```

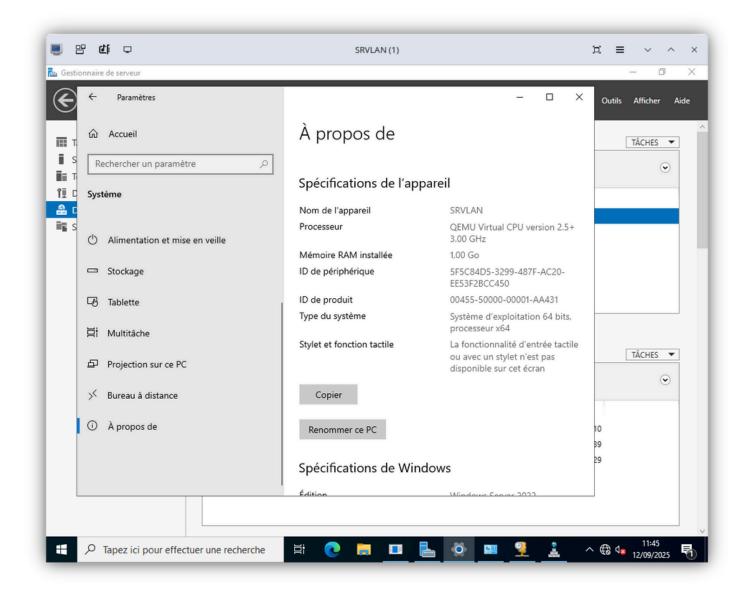
la meme chose pour sw2:

•	onfig)#sh vlan Name	Status	Ports
1 100	default COMMERCIAL	active active	Et1, Et2, Et3, Et4, Et13, Et14 Et15, Et16
200	ADMINISTRATIF	active	Et5, Et6, Et7, Et8, Et13, Et14 Et15, Et16
300	PRODUCTION	active	Et9, Et10, Et11, Et12, Et13 Et14, Et15, Et16

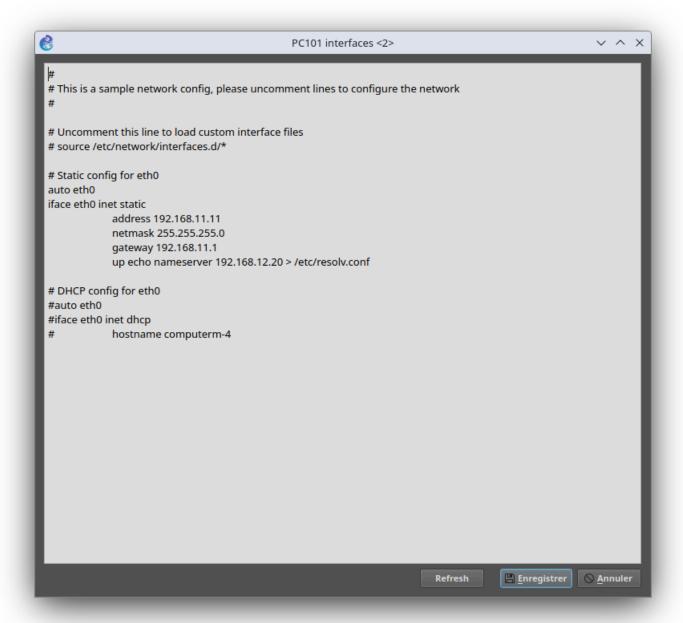
partie 2:

etape 1:

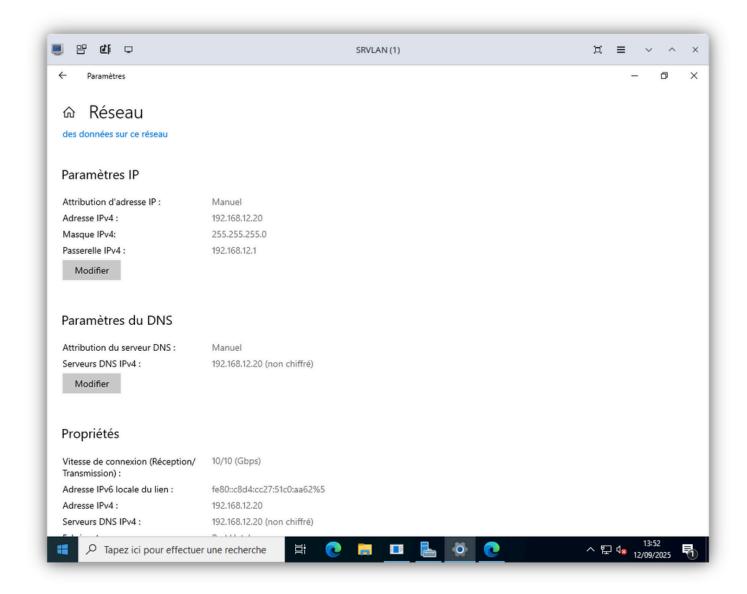
a/



b/ pour les pc j'ai edit config

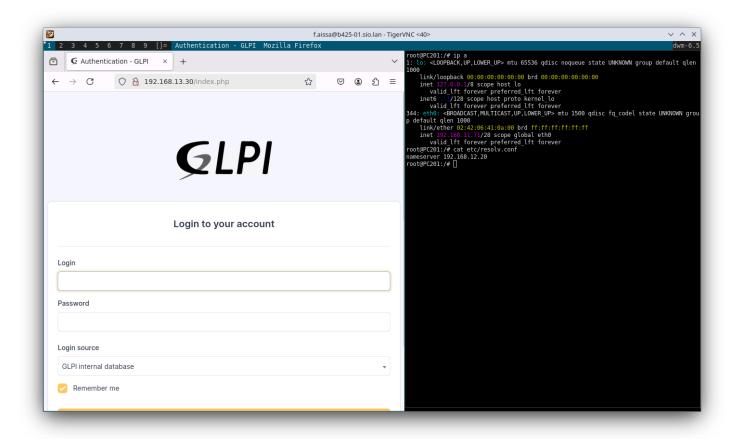


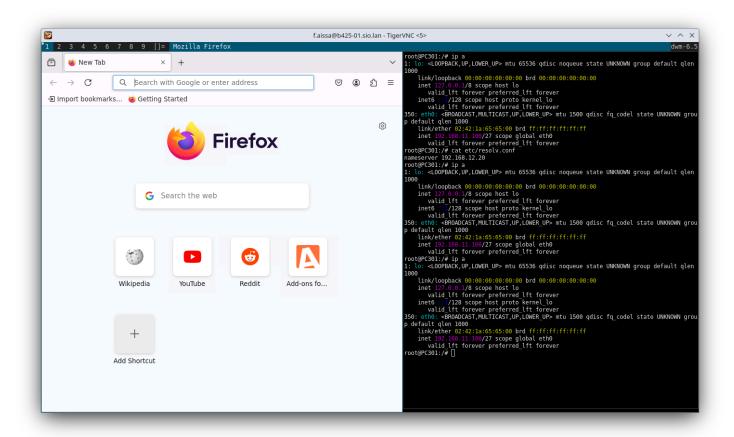
srvlan:



c/

vlan 200 et 300 recupere leur ip en dhcp





etape 2:

config les interfaces route:

```
edit]

yos@vyos# set system host-name RT

edit]

yos@vyos# commit

edit]

yos@vyos# set interfaces ethernet eth0 vif 100 address 192.168.11.1/26

edit]

yos@vyos# set interfaces ethernet eth0 vif 200 address 192.168.11.65/28

edit]

yos@vyos# set interfaces ethernet eth0 vif 300 address 192.168.11.97/27

edit]

yos@vyos# set protocols static route 0.0.0.0/0 next-hop 192.168.1.2
```

set interfaces ethernet eth2 address 192.168.12.1/24

```
X
                                                                                   < < < </p>
                                              RT
vyos@RT:~$ show route
ZEBRA:
RIP:
RIPNG:
OSPF:
OSPF6:
BGP:
ISIS:
vyos@RT:~$ show interfaces
Codes: S - State, L - Link, u - Up, B - Bown, A - Admin Bown
Interface IP Address MAC VPF
                                                                         MTU S/L
                                                                                       Descrip
tion
eth0
                                     0c:71:15:4e:00:00
                                                            default
                                                                        1500
                                                                               u/u
eth0,100
               192,168,11,1/26
                                     0c:71:15:4e:00:00
                                                            default
                                                                        1500
                                                                               u/u
eth0,200
                192,168,11,65/28
                                     0c:71:15:4e:00:00
                                                            default
                                                                        1500
                                                                               u/u
eth0.300
                192,168,11,97/27
                                     0c:71:15:4e:00:00
                                                            default
                                                                        1500
                                                                               u/u
               192,168,1,1/30
192,168,12,1/24
eth1
                                     0c:71:15:4e:00:01
                                                            default
                                                                        1500
                                                                               u/u
eth2
                                     0c:71:15:4e:00:02
                                                            default
                                                                        1500
                                                                               u/u
               127.0.0.1/8
::1/128
lo
                                     00:00:00:00:00:00
                                                            default
                                                                       65536
                                                                               u/u
vyos@RT:~$
```

partie 3:

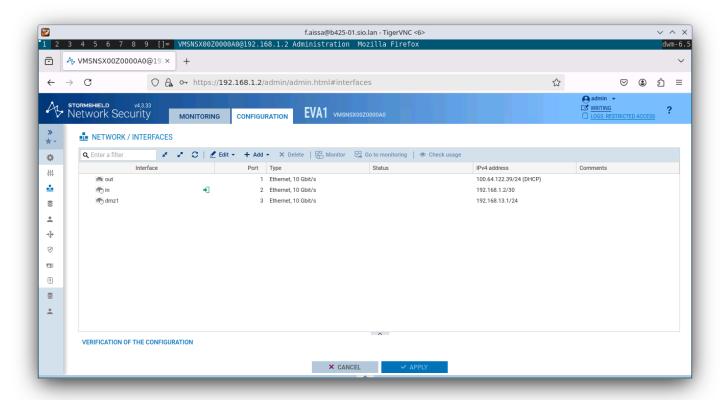
```
X
                                                                               RT
eth0
                                   0c:71:15:4e:00:00
                                                         default
                                                                    1500
                                                                           u/u
eth0.100
eth0.200
eth0.300
                                                         default
               192,168,11,1/26
                                   0c:71:15:4e:00:00
                                                                    1500
                                                                           u/u
               192,168,11,65/28
                                   0c:71:15:4e:00:00
                                                         default
                                                                    1500
                                                                           u/u
               192,168,11,97/27
                                                         default
                                                                    1500
                                   0c;71;15;4e;00;00
                                                                           u/u
eth1
               192,168,1,1/30
                                   0c;71;15;4e;00;01
                                                         default
                                                                    1500
                                                                           u/u
eth2
               192,168,12,1/24
                                   0c:71:15:4e:00:02
                                                         default
                                                                    1500
                                                                           u/u
              127.0.0.1/8
lo
                                   00:00:00:00:00:00
                                                         default
                                                                   65536
                                                                           u/u
               ::1/128
vyos@RT:~$ show ip route
Codes: K - kernel route, C - connected, S - static, R - RIP,
        O - OSPF, I - IS-IS, B - BGP, E - EIGRP, N - NHRP,
        T - Table, v - VNC, V - VNC-Direct, A - Babel, F - PBR,
        f - OpenFabric,
        > - selected route, * - FIB route, q - queued, r - rejected, b - backup
        t - trapped, o - offload failure
S>* 0.0.0.0/0 [1/0] via 192.168.1.2, eth1, weight 1, 01:27:46
C>* 192,168,1,0/30 is directly connected, eth1, 01:27:50
C>* 192,168,11,0/26 is directly connected, eth0,100, 01;27;49
C>* 192,168,11,64/28 is directly connected, eth0,200, 01;27;49
C>* 192.168.11.96/27 is directly connected, eth0.300, 01:27:49

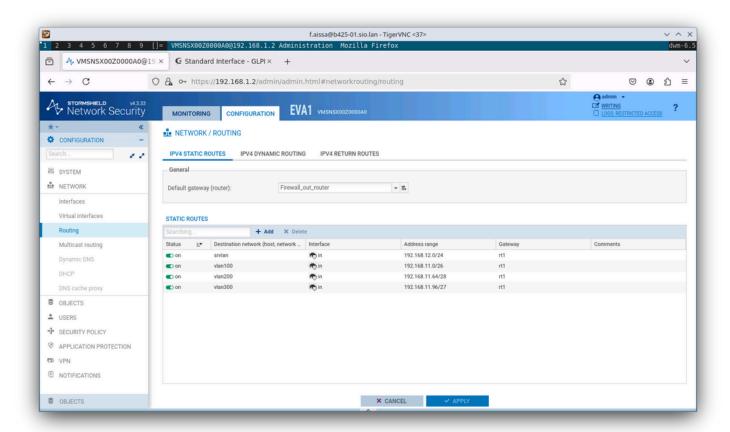
C>* 192.168.12.0/24 is directly connected, eth2, 01:27:48

S>* 192.168.13.0/24 [1/0] via 192.168.1.2, eth1, weight 1, 01:27:46
vyos@RT:~$
```

sur fw:

j'ai ajouter un pc que j'ai relier avec in pour config les routes sur stormshield afin que les vlan accedent a internet et pour que depuis pc101 et 102 je puisse modifier

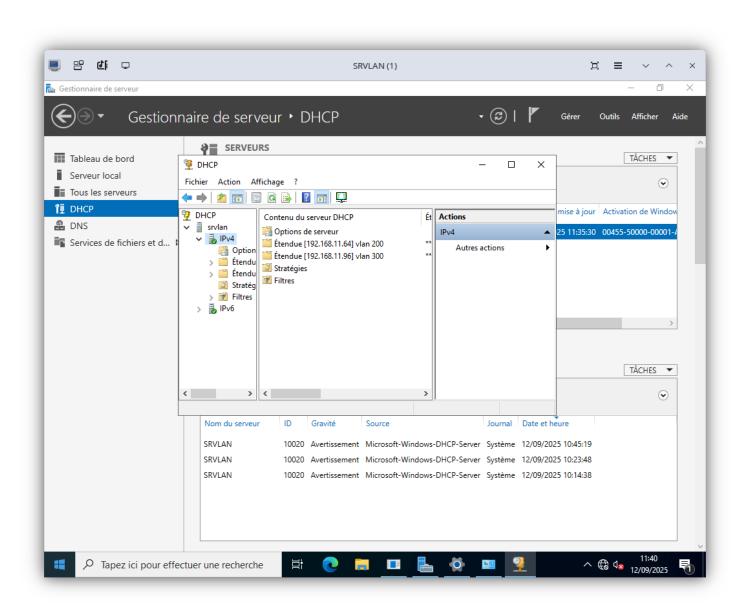




partie 4

etape 1:

config etendu dhcp sur srvlab



b/

pour relais dhcp sur rt:

set service dhcp-relay server 192.168.12.20

set service dhcp-relay interface eth0.200

set service dhcp-relay interface eth0.300

set service dhcp-relay interface eth2

```
X
                                                                     < < < </p>
                                       RT
 Invalid command: show [relay]
vyos@RT:~$ show relay dhcp
 Invalid command: show [relay]
vyos@RT:~$ show dhcp
 Incomplete command: show dhop
vyos@RT:~$ show service dhcp-relay
 Invalid command: show [service]
vyos@RT:~$ conf
[edit]
vyos@RT# show service dhcp-relay
interface eth0.200
interface eth0.300
interface eth2
server 192,168,12,20
[edit]
yos@RT#
```

etape 2:

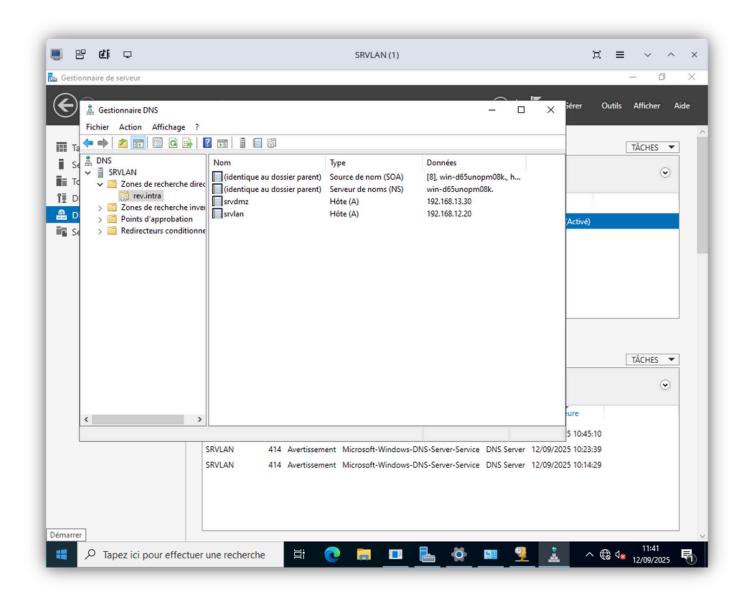
dns sur srvlan j'ai creer rôle DNS.

Créer une zone directe rev.intra.

Ajouter:

- srvlan.rev.intra → 192.168.12.20
- srvdmz.rev.intra → 192.168.13.30

Ajouter un redirecteur (externe) vers 100.64.122.1 (DNS du FAI).



etape 3:

j'ai attrbibue une ip a srvdmz

sudo nano /etc/netplan/01-netcfg.yaml

network:

version: 2

renderer: networkd

ethernets:

ens3:

```
dhcp4: no
   addresses:
     - 192.168.13.30/24
   gateway4: 192.168.13.1
   nameservers:
     addresses: [192.168.12.20, 8.8.8.8]
sudo netplan apply
apres des que j'ai config l'ip
(augmenter le size de srvdmz : Premièrement arrêtez la machine concerné.
Faire clique droit dessus et cliquer sur "Configure"
Une page s'ouvre avec plusieurs onglets en haut, aller sur "HDD" puis sur la ligne du "HDA
(Primary Master)" cliquer sur "resize"
Dans la machine éxécutez la commande suivante :
Isblk
sudo growpart /dev/vda 1
sudo resize2fs /dev/vda1)
sudo apt update
sudo apt install apache2 -y
sudo apt install php php-mysql mariadb-server unzip -y
wget <a href="https://github.com/glpi-project/glpi/releases/download/11.0.0-rc4/glpi-11.0.0-rc4.tgz">https://github.com/glpi-project/glpi/releases/download/11.0.0-rc4/glpi-11.0.0-rc4.tgz</a>
tar -xvzf glpi-11.0.0-rc4.tgz
sudo mv glpi /var/www/html/
sudo chown -R www-data:www-data/var/www/html/glpi
```

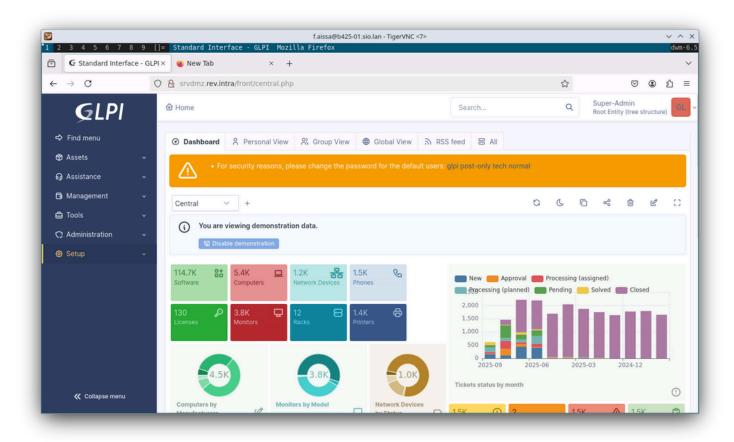
et j'ai installé php : sudo apt install php8.2 libapache2-mod-php8.2 php8.2-cli php8.2-common \
php8.2-mysql php8.2-xml php8.2-curl php8.2-zip php8.2-gd php8.2-intl php8.2-mbstring -y

apres j'ai creer la bdd :
sudo mysql -u root

CREATE DATABASE glpi CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;
CREATE USER 'glpiuser'@'localhost' IDENTIFIED BY 'sysadmin';
GRANT ALL PRIVILEGES ON glpi.* TO 'glpiuser'@'localhost';
FLUSH PRIVILEGES;
EXIT;

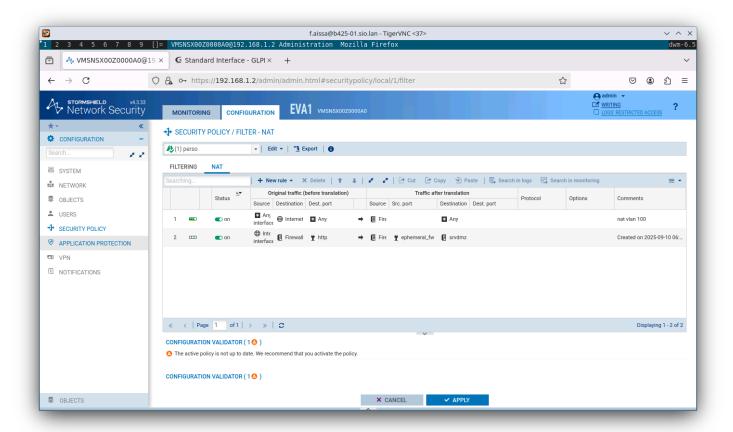
```
X
                                       SRVDMZ
Database changed
MariaDB [glpi]>
MariaDB [glpi]>
MariaDB [glpi]> show tables;
  Tables_in_glpi
  glpi_agents
 glpi_agenttypes
 glpi_alerts
 glpi_apiclients
 glpi_applianceenvironments
 glpi_appliances
 glpi_appliances_items
 glpi_appliances_items_relations
 glpi_appliancetypes
 glpi_assets_assetdefinitions
 glpi_assets_assetmodels
 glpi_assets_assets
 glpi_assets_assets_peripheralassets
  glpi_assets_assettypes
  glpi_assets_customfielddefinitions
 glpi_authldapreplicates
```

glpi est bien accesible et fonctionnelle



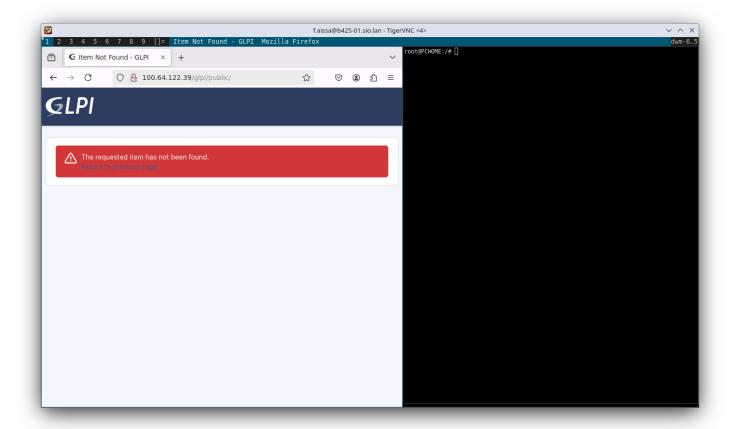
partie 5:

a/



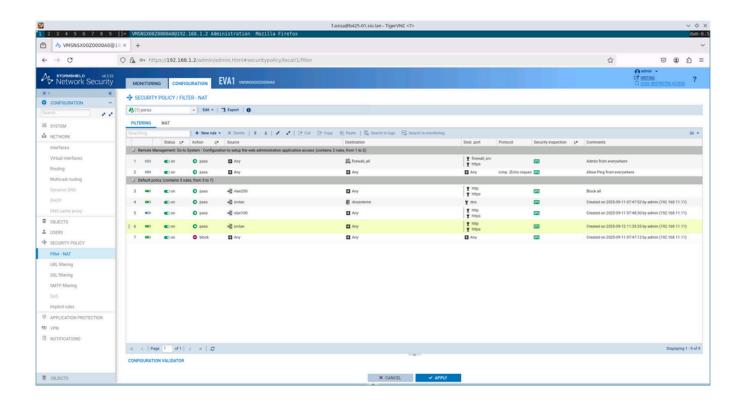
b/

pc home arrive a se co sur glpi

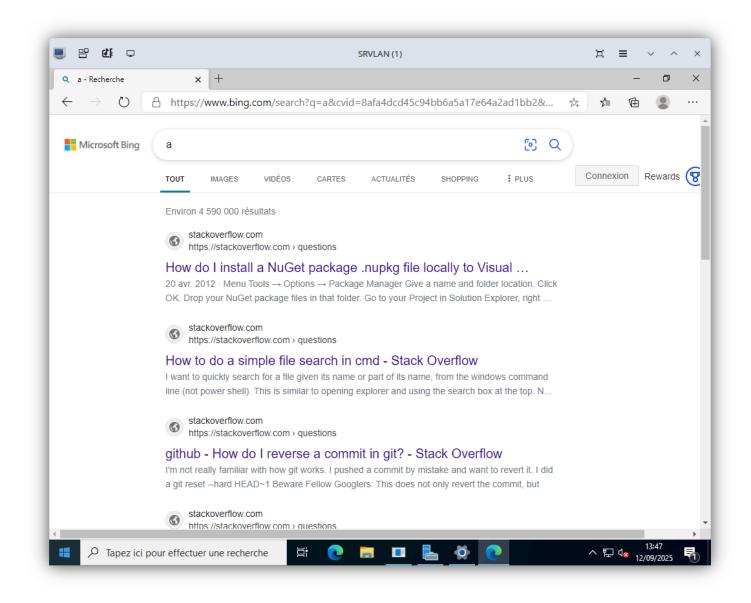


partie 6 :

tous les regles fonctionnent



le srvlan accede a internet



pc du vlan commercial et administratif accede a internet

