Documentation des tests, groupe 4 :

Test de la sauvegarde TFTP : Voici les captures qui montrent que la sauvegarde a bien était effectué.

- Save SWCoeur :

```
SwitchCoeur#copy running-config tftp
Address or name of remote host []? 172.20.100.4
!!
9766 bytes copied in 3.077 secs (3174 bytes/sec)
SwitchCoeur#
```

- Save SwNET :

```
---------- Nouvelle session SSH ---------
SwNET#copy running-config tftp:
Address or name of remote host []? 172.20.100.4
Destination filename [swnet-confg]?
!!
4293 bytes copied in 0.849 secs (5057 bytes/sec)
SwNET#
```

- Save Sw1E :

```
---------- Nouvelle session SSH ---------
Sw1E#copy running-config tftp
Address or name of remote host []? 172.20.100.4
Destination filename [sw1e-confg]?
!!
4788 bytes copied in 0.832 secs (5755 bytes/sec)
Sw1E#
```

- Save SwServeur :

```
---------- Nouvelle session SSH ---------
SwitchServ#copy running-config tftp
Address or name of remote host []? 172.20.100.4
Destination filename [switchserv-confg]?
!!
4385 bytes copied in 0.786 secs (5579 bytes/sec)
SwitchServ#
```

- Save SwRC :

```
---------- Nouvelle session SSH ---------
SwRC#Copy running-config tftp:
Address or name of remote host []? 172.20.100.4
Destination filename [swrc-confg]?
!!
4401 bytes copied in 3.817 secs (1153 bytes/sec)
SwRC#
```

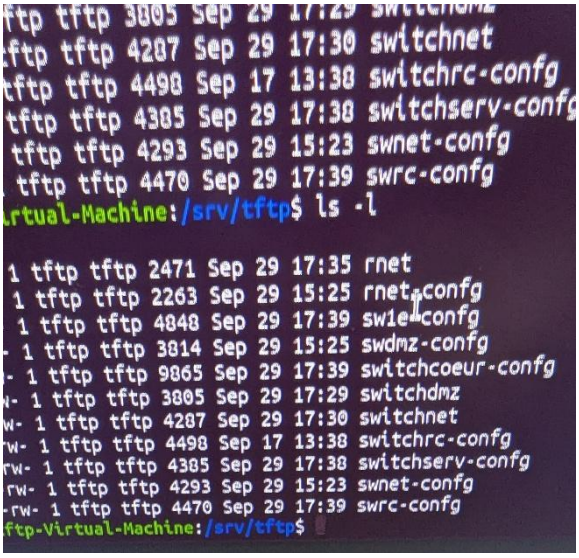
- Save SwDMZ :

```
SwDMZ#Copy running-config tftp
Address or name of remote host []? 172.20.100.4
Destination filename [swdmz-confg]?
!!
3814 bytes copied in 1.317 secs (2896 bytes/sec)
SwDMZ#
```

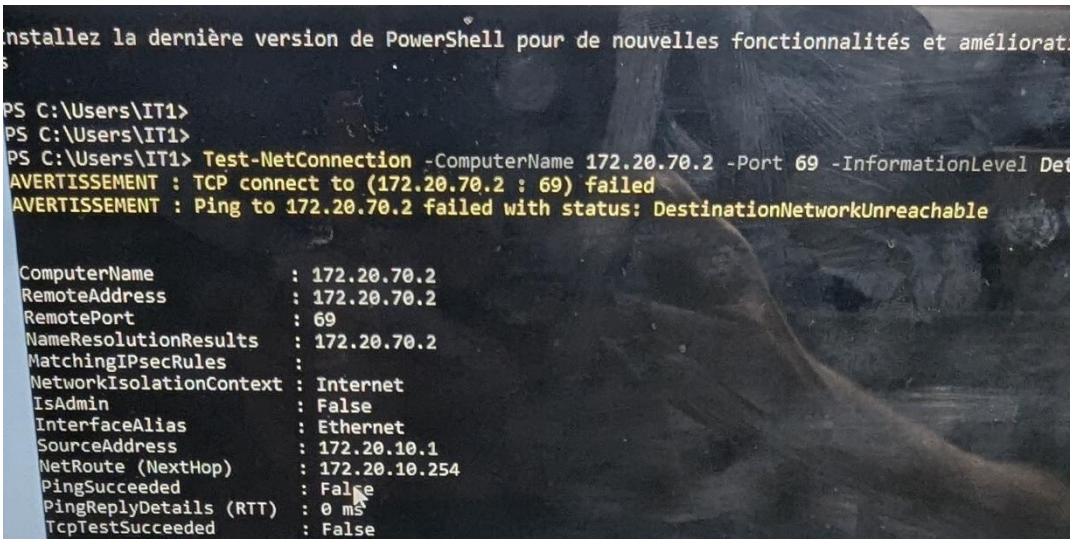
- Save RNET :

```
---------- Nouvelle session SSH ---------
RNet#copy running-config tftp
Address or name of remote host []? 172.20.100.4
Destination filename [rnet-confg]?
!!
2263 bytes copied in 0.332 secs (6816 bytes/sec)
```

Cette capture la montre bien que la sauvegarde marche :



Cette deuxième capture, montre que l'ACL marche et que seul le LAN 60 peut faire la sauvegarde :



Maintenant on va voir que le Vlan 60 peut ping toutes les passerelles :

Avec les captures qui vont suivre montreront que le protocole RIP ainsi que les Route sont bien mise en place :

« Capture des routes du Routeur »

```
RNet#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
       a - application route
       + - replicated route, % - next hop override

Gateway of last resort is 192.168.4.254 to network 0.0.0.0

S*    0.0.0.0/0 [1/0] via 192.168.4.254
      10.0.0.0/24 is subnetted, 1 subnets
R        10.4.10.0 [120/1] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
      172.20.0.0/16 is variably subnetted, 11 subnets, 2 masks
S        172.20.0.0/16 [1/0] via 192.168.3.253
R        172.20.10.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.20.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.30.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.40.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.50.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.60.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.70.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.80.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.90.0/24
           [120/1] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
R        172.20.100.0/24
           [120/2] via 192.168.3.253, 00:00:01, GigabitEthernet0/0
      192.168.3.0/24 is variably subnetted, 2 subnets, 2 masks
C        192.168.3.248/29 is directly connected, GigabitEthernet0/0
L        192.168.3.251/32 is directly connected, GigabitEthernet0/0
      192.168.4.0/24 is variably subnetted, 2 subnets, 2 masks
C        192.168.4.0/24 is directly connected, GigabitEthernet0/1
L        192.168.4.41/32 is directly connected, GigabitEthernet0/1
```

« Capture de la commande IP protocols »

```
RNet#show ip protocols
*** IP Routing is NSF aware ***

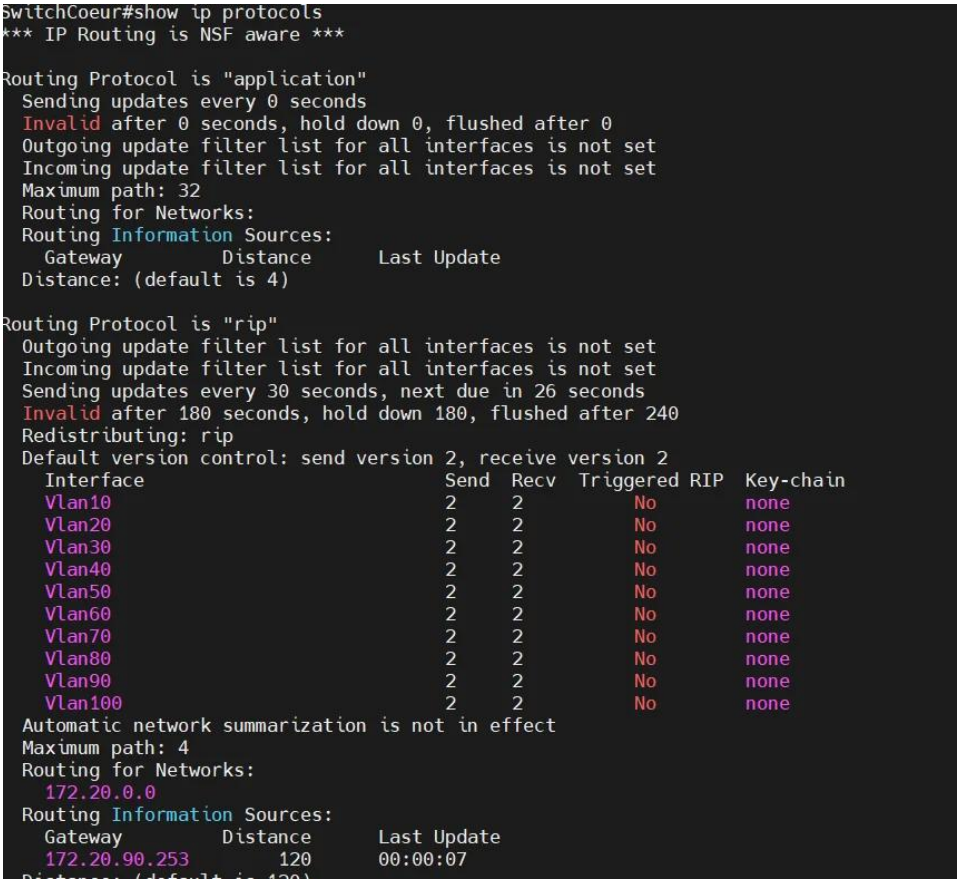
Routing Protocol is "application"
  Sending updates every 0 seconds
  Invalid after 0 seconds, hold down 0, flushed after 0
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Maximum path: 32
  Routing for Networks:
  Routing Information Sources:
    Gateway         Distance      Last Update
  Distance: (default is 4)

Routing Protocol is "rip"
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Sending updates every 30 seconds, next due in 10 seconds
  Invalid after 180 seconds, hold down 180, flushed after 240
  Redistributing: rip
  Default version control: send version 2, receive version 2
    Interface             Send  Recv  Triggered RIP  Key-chain
    GigabitEthernet0/0    2     2
  Automatic network summarization is not in effect
```

« Capture des routes du SwCoeur »

```
S*    0.0.0.0/0 [1/0] via 172.20.90.253
      10.0.0.0/24 is subnetted, 1 subnets
R        10.4.10.0 [120/1] via 172.20.90.253, 00:00:28, Vlan90
      172.20.0.0/16 is variably subnetted, 20 subnets, 2 masks
C        172.20.10.0/24 is directly connected, Vlan10
L        172.20.10.254/32 is directly connected, Vlan10
C        172.20.20.0/24 is directly connected, Vlan20
L        172.20.20.254/32 is directly connected, Vlan20
C        172.20.30.0/24 is directly connected, Vlan30
L        172.20.30.254/32 is directly connected, Vlan30
C        172.20.40.0/24 is directly connected, Vlan40
L        172.20.40.254/32 is directly connected, Vlan40
C        172.20.50.0/24 is directly connected, Vlan50
L        172.20.50.254/32 is directly connected, Vlan50
C        172.20.60.0/24 is directly connected, Vlan60
L        172.20.60.254/32 is directly connected, Vlan60
C        172.20.70.0/24 is directly connected, Vlan70
L        172.20.70.254/32 is directly connected, Vlan70
C        172.20.80.0/24 is directly connected, Vlan80
L        172.20.80.254/32 is directly connected, Vlan80
C        172.20.90.0/24 is directly connected, Vlan90
L        172.20.90.254/32 is directly connected, Vlan90
C        172.20.100.0/24 is directly connected, Vlan100
L        172.20.100.254/32 is directly connected, Vlan100
R     192.168.3.0/24 [120/1] via 172.20.90.253, 00:00:28, Vlan90
SwitchCoeur#
```

« Capture de la commande : show IP protocols »

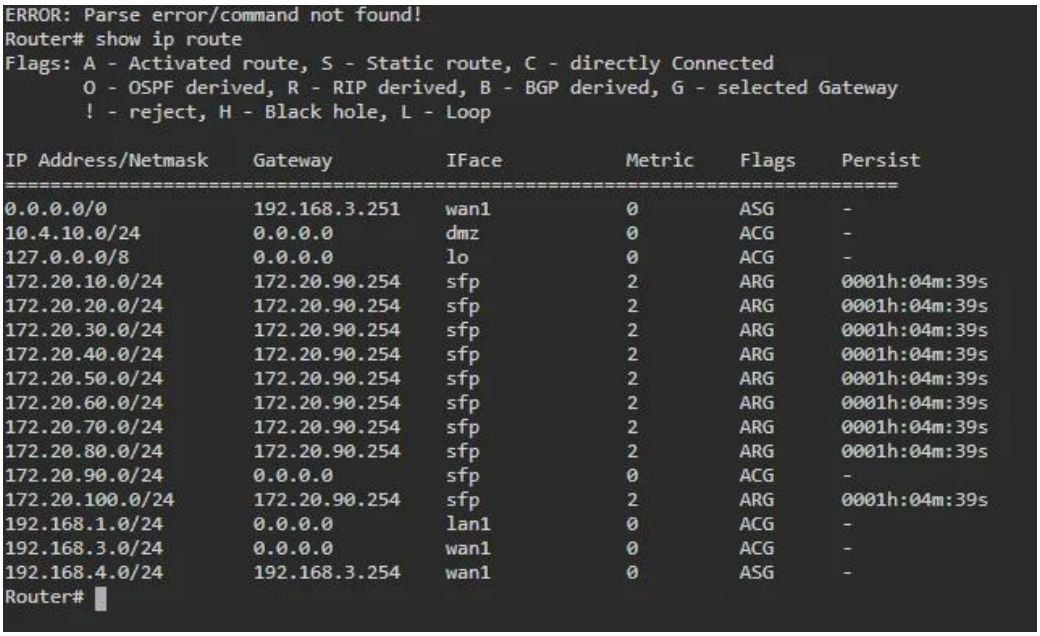


```
SwitchCoeur#show ip protocols
*** IP Routing is NSF aware ***

Routing Protocol is "application"
  Sending updates every 0 seconds
  Invalid after 0 seconds, hold down 0, flushed after 0
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Maximum path: 32
  Routing for Networks:
  Routing Information Sources:
    Gateway         Distance      Last Update
  Distance: (default is 4)

Routing Protocol is "rip"
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Sending updates every 30 seconds, next due in 26 seconds
  Invalid after 180 seconds, hold down 180, flushed after 240
  Redistributing: rip
  Default version control: send version 2, receive version 2
    Interface                       Send  Recv  Triggered RIP  Key-chain
    Vlan10                          2     2          No        none
    Vlan20                          2     2          No        none
    Vlan30                          2     2          No        none
    Vlan40                          2     2          No        none
    Vlan50                          2     2          No        none
    Vlan60                          2     2          No        none
    Vlan70                          2     2          No        none
    Vlan80                          2     2          No        none
    Vlan90                          2     2          No        none
    Vlan100                         2     2          No        none
  Automatic network summarization is not in effect
  Maximum path: 4
  Routing for Networks:
    172.20.0.0
  Routing Information Sources:
    Gateway         Distance      Last Update
    172.20.90.253         120      00:00:07
```

« Capture des routes du Pare-Feu »



```
ERROR: Parse error/command not found!
Router# show ip route
Flags: A - Activated route, S - Static route, C - directly Connected
       O - OSPF derived, R - RIP derived, B - BGP derived, G - selected Gateway
       ! - reject, H - Black hole, L - Loop

IP Address/Netmask    Gateway          IFace          Metric    Flags    Persist
================================================================================
0.0.0.0/0             192.168.3.251    wan1           0         ASG      -
10.4.10.0/24          0.0.0.0          dmz            0         ACG      -
127.0.0.0/8           0.0.0.0          lo             0         ACG      -
172.20.10.0/24        172.20.90.254    sfp            2         ARG      0001h:04m:39s
172.20.20.0/24        172.20.90.254    sfp            2         ARG      0001h:04m:39s
172.20.30.0/24        172.20.90.254    sfp            2         ARG      0001h:04m:39s
172.20.40.0/24        172.20.90.254    sfp            2         ARG      0001h:04m:39s
172.20.50.0/24        172.20.90.254    sfp            2         ARG      0001h:04m:39s
172.20.60.0/24        172.20.90.254    sfp            2         ARG      0001h:04m:39s
172.20.70.0/24        172.20.90.254    sfp            2         ARG      0001h:04m:39s
172.20.80.0/24        172.20.90.254    sfp            2         ARG      0001h:04m:39s
172.20.90.0/24        0.0.0.0          sfp            0         ACG      -
172.20.100.0/24       172.20.90.254    sfp            2         ARG      0001h:04m:39s
192.168.1.0/24        0.0.0.0          lan1           0         ACG      -
192.168.3.0/24        0.0.0.0          wan1           0         ACG      -
192.168.4.0/24        192.168.3.254    wan1           0         ASG      -
Router#
```

La capture suivante montrera que le pc client sur le Vlan 60 peut ping 8.8.8.8. Ce qui montre que le Nat est correctement fait :

« Capture du ping 8.8.8.8 »

