

Test de basculement réseau 09/08/2022

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Périmètre

- **LPAR ATLAS (AT90):** 10.37.219.10
- **VM LATLAS:** 10.37.218.110

Avant le basculement

Contrôle de la configuration des ASA

Pour natage des adresses des sous-réseau:

```
object network TRS-218
 subnet 10.37.218.0 255.255.255.0
object network MRS-218
 subnet 10.103.218.0 255.255.255.0
object network TRS-219
 subnet 10.37.219.0 255.255.255.0
object network MRS-219
 subnet 10.103.219.0 255.255.255.0
```

```
nat (outside,inside) source static any any destination static MRS-218
```

```
MRS-218
nat (outside,inside) source static any any destination static TRS-218
MRS-218
nat (outside,inside) source static any any destination static MRS-219
MRS-219
nat (outside,inside) source static any any destination static TRS-219
MRS-219
```

Pour natage des adresses host:

```
object network TRS-ATLAS
 host 10.37.219.10
object network MRS-ATLAS
 host 10.103.219.10
object network TRS-LATLAS
 host 10.37.218.110
object network MRS-LATLAS
 host 10.103.218.110
```

```
nat (outside,inside) source static any any destination static MRS-ATLAS MRS-ATLAS
nat (outside,inside) source static any any destination static TRS-ATLAS MRS-ATLAS
nat (outside,inside) source static any any destination static MRS-LATLAS MRS-LATLAS
nat (outside,inside) source static any any destination static TRS-LATLAS MRS-LATLAS
```

Natage pour test LXSNS1 (VM linux)

```
object network TRS-LXSNS1
 host 10.37.237.115
object network MRS-LXSNS1
 host 10.103.237.115
```

```
nat (outside,inside) source static any any destination static MRS-LXSNS1 MRS-LXSNS1
nat (outside,inside) source static any any destination static TRS-LXSNS1 MRS-LXSNS1
```



Il faut également déclarer la route interne (sans basculement sur sf034):
ip route-static 10.37.237.115 32 10.103.212.33 tag 10 description VM LXSNS1

Commandes pour supprimer le natage

```
no nat (outside,inside) source static any any destination static MRS-218
MRS-218
no nat (outside,inside) source static any any destination static TRS-218
MRS-218
no nat (outside,inside) source static any any destination static MRS-219
MRS-219
no nat (outside,inside) source static any any destination static TRS-219
MRS-219
```

```
no nat (outside,inside) source static any any destination static MRS-ATLAS
MRS-ATLAS
no nat (outside,inside) source static any any destination static TRS-LATLAS
MRS-LATLAS
```

Commandes pour activer le trace debug

```
no debug nat 255
```

Contrôle des routes vers tours

```
traceroute 10.37.219.10
traceroute to 10.37.219.10 (10.37.219.10), 30 hops max, 60 byte packets
 1  _gateway (192.168.121.1)  0.058 ms  0.013 ms  0.011 ms
 2  10.13.251.7 (10.13.251.7)  0.770 ms  1.169 ms  1.535 ms
 3  10.103.21.11 (10.103.21.11)  0.865 ms  1.304 ms  1.744 ms
 4  10.103.21.4 (10.103.21.4)  0.153 ms  0.135 ms  0.133 ms
 5  100.127.251.122 (100.127.251.122)  0.992 ms  1.029 ms  1.105 ms
 6  100.127.252.65 (100.127.252.65)  20.561 ms  20.633 ms  20.591 ms
 7  100.127.252.45 (100.127.252.45)  20.570 ms  20.755 ms  20.741 ms
 8  100.127.252.22 (100.127.252.22)  21.018 ms  20.890 ms  20.837 ms
 9  100.127.252.105 (100.127.252.105)  21.359 ms  21.345 ms  21.331 ms
10  100.127.32.1 (100.127.32.1)  19.782 ms  19.769 ms  19.862 ms
11  86.79.4.50 (86.79.4.50)  50.067 ms  50.092 ms  50.074 ms
12  10.37.1.17 (10.37.1.17)  42.783 ms  43.118 ms  43.384 ms
13  atlas-foncier.d037.dgfip (10.37.219.10)  52.765 ms  52.906 ms  50.582 ms
```

```
traceroute 10.37.218.110
traceroute to 10.37.218.110 (10.37.218.110), 30 hops max, 60 byte packets
 1  _gateway (192.168.121.1)  0.046 ms  0.009 ms  0.010 ms
 2  10.13.251.7 (10.13.251.7)  0.726 ms  1.092 ms  1.496 ms
 3  * * *
 4  10.103.21.4 (10.103.21.4)  0.121 ms  0.131 ms  0.117 ms
 5  100.127.251.122 (100.127.251.122)  1.021 ms  1.108 ms  1.185 ms
```

6	100.127.252.65	(100.127.252.65)	20.471 ms	20.487 ms	21.790 ms
7	100.127.252.45	(100.127.252.45)	20.446 ms	20.751 ms	20.737 ms
8	100.127.252.22	(100.127.252.22)	21.008 ms	20.850 ms	20.819 ms
9	100.127.252.105	(100.127.252.105)	21.037 ms	21.022 ms	20.974 ms
10	100.127.32.1	(100.127.32.1)	19.739 ms	19.777 ms	19.736 ms
11	86.79.4.50	(86.79.4.50)	50.379 ms	50.417 ms	50.380 ms
12	10.37.1.17	(10.37.1.17)	43.134 ms	43.206 ms	43.523 ms
13	latlas-foncier.d037.dgfip	(10.37.218.110)	42.836 ms !X	42.607 ms !X	42.611 ms !X

Basculement réseau



9H41 Feu-vert IBM

9H45 Contrôle de l'arrêt des machines

```

traceroute 10.37.219.10
traceroute to 10.37.219.10 (10.37.219.10), 30 hops max, 60 byte packets
 1 _gateway (192.168.121.1) 0.042 ms 0.010 ms 0.008 ms
 2 10.13.251.7 (10.13.251.7) 0.754 ms 1.166 ms 1.484 ms
 3 10.103.13.11 (10.103.21.11) 38.653 ms 39.121 ms 39.524 ms
 4 10.103.13.4 (10.103.21.4) 0.128 ms 0.115 ms 0.146 ms
 5 100.127.251.122 (100.127.251.122) 1.035 ms 1.160 ms 1.232 ms
 6 100.127.252.65 (100.127.252.65) 20.773 ms 20.583 ms 20.547 ms
 7 100.127.252.45 (100.127.252.45) 20.533 ms 20.899 ms 20.887 ms
 8 100.127.252.22 (100.127.252.22) 20.955 ms 21.153 ms 21.138 ms
 9 100.127.252.105 (100.127.252.105) 20.865 ms 20.850 ms 20.836 ms
10 100.127.32.1 (100.127.32.1) 19.757 ms 19.761 ms 19.843 ms
11 86.79.4.50 (86.79.4.50) 50.143 ms 50.130 ms 50.128 ms
12 10.37.1.17 (10.37.1.17) 42.746 ms 43.058 ms 43.321 ms
13 10.37.1.20 (10.37.1.20) 50.098 ms 50.207 ms 50.170 ms
14 10.37.1.17 (10.37.1.17) 69.444 ms 69.793 ms 70.047 ms
15 10.37.1.20 (10.37.1.20) 50.128 ms 50.158 ms 50.134 ms
16 10.37.1.17 (10.37.1.17) 70.287 ms 42.891 ms 43.095 ms
17 10.37.1.20 (10.37.1.20) 50.290 ms 50.278 ms 50.265 ms
18 10.37.1.17 (10.37.1.17) 43.411 ms 43.719 ms 43.949 ms
19 10.37.1.20 (10.37.1.20) 50.236 ms 50.205 ms 50.189 ms
20 * * *
21 10.37.1.20 (10.37.1.20) 50.303 ms 50.280 ms 50.209 ms
22 * * *
23 10.37.1.20 (10.37.1.20) 50.335 ms 50.292 ms 50.271 ms
24 * * *
25 10.37.1.20 (10.37.1.20) 50.336 ms 50.408 ms 50.355 ms
26 * 10.37.1.17 (10.37.1.17) 42.974 ms *
27 10.37.1.20 (10.37.1.20) 50.305 ms 50.399 ms 50.314 ms

```

```

28 * * *
29 10.37.1.20 (10.37.1.20) 50.357 ms 50.357 ms 50.404 ms
30 * 10.37.1.17 (10.37.1.17) 43.090 ms *

```

```

traceroute 10.37.218.110
traceroute to 10.37.218.110 (10.37.218.110), 30 hops max, 60 byte packets
 1 _gateway (192.168.121.1) 0.048 ms 0.009 ms 0.007 ms
 2 10.13.251.7 (10.13.251.7) 0.765 ms 1.169 ms 1.544 ms
 3 10.103.13.11 (10.103.21.11) 0.857 ms 1.316 ms 1.775 ms
 4 10.103.13.4 (10.103.21.4) 0.150 ms 0.138 ms 0.137 ms
 5 100.127.251.122 (100.127.251.122) 0.871 ms 1.062 ms 1.175 ms
 6 100.127.252.65 (100.127.252.65) 20.602 ms 20.390 ms 20.364 ms
 7 100.127.252.45 (100.127.252.45) 20.349 ms 20.467 ms 20.442 ms
 8 100.127.252.22 (100.127.252.22) 21.012 ms 20.999 ms 20.683 ms
 9 100.127.252.105 (100.127.252.105) 20.671 ms 20.944 ms 20.930 ms
10 100.127.32.1 (100.127.32.1) 19.723 ms 19.818 ms 19.841 ms
11 86.79.4.50 (86.79.4.50) 50.354 ms 50.399 ms 50.334 ms
12 10.37.1.17 (10.37.1.17) 42.977 ms 43.348 ms 43.377 ms
13 atlas-foncier.d037.dgfip (10.37.218.110) 42.638 ms !X 42.522 ms !X
42.533 ms !X

```

```

jacques.nougat@xfce:~$ traceroute 10.37.218.110
traceroute to 10.37.218.110 (10.37.218.110), 30 hops max, 60 byte packets
 1 _gateway (192.168.121.1) 0.049 ms 0.010 ms 0.008 ms
 2 10.13.251.7 (10.13.251.7) 0.772 ms 1.129 ms 1.512 ms
 3 10.103.21.11 (10.103.21.11) 0.804 ms 1.249 ms 1.683 ms
 4 10.103.21.4 (10.103.21.4) 0.148 ms 0.132 ms 0.133 ms
 5 100.127.251.122 (100.127.251.122) 0.980 ms 1.051 ms 1.124 ms
 6 100.127.252.65 (100.127.252.65) 20.551 ms 20.580 ms 20.547 ms
 7 100.127.252.45 (100.127.252.45) 20.524 ms 20.559 ms 20.514 ms
 8 100.127.252.22 (100.127.252.22) 20.825 ms 20.803 ms 20.792 ms
 9 100.127.252.105 (100.127.252.105) 20.438 ms 20.741 ms 20.730 ms
10 100.127.32.1 (100.127.32.1) 19.772 ms 19.865 ms 19.921 ms
11 86.79.4.50 (86.79.4.50) 50.401 ms 50.391 ms 50.420 ms
12 10.37.1.17 (10.37.1.17) 43.015 ms 43.313 ms 43.486 ms
13 10.37.1.20 (10.37.1.20) 50.405 ms 50.389 ms 50.375 ms
14 10.37.1.17 (10.37.1.17) 43.750 ms 43.998 ms 44.260 ms
15 10.37.1.20 (10.37.1.20) 50.403 ms 50.395 ms 50.384 ms
16 10.37.1.17 (10.37.1.17) 44.509 ms 43.002 ms 43.292 ms
17 10.37.1.20 (10.37.1.20) 50.393 ms 50.374 ms 50.360 ms
18 10.37.1.17 (10.37.1.17) 43.100 ms 43.136 ms 43.169 ms
19 10.37.1.20 (10.37.1.20) 50.544 ms 50.481 ms 50.481 ms
20 * * *
21 10.37.1.20 (10.37.1.20) 50.527 ms 50.509 ms 50.584 ms
22 * * *
23 10.37.1.20 (10.37.1.20) 50.583 ms 50.537 ms 50.542 ms
24 * * *
25 10.37.1.20 (10.37.1.20) 50.589 ms 50.603 ms 50.579 ms
26 * * 10.37.1.17 (10.37.1.17) 43.096 ms
27 10.37.1.20 (10.37.1.20) 50.625 ms 50.648 ms 50.656 ms
28 * * *

```

```
29 10.37.1.20 (10.37.1.20) 50.663 ms 50.669 ms 50.681 ms
30 * 10.37.1.17 (10.37.1.17) 119.226 ms 43.208 ms
```

9H49 Ouverture des nouvelles routes

Sur le fédérateur annoncer les routes statiques des deux partitions:

```
ip route-static 10.37.219.10 32 10.103.212.33 tag 10 description LPAR ATLAS
ip route-static 10.37.218.110 32 10.103.212.33 tag 10 description VM LATLAS
```

Contrôle de l'ouverture des routes

```
tracert 10.37.219.10
tracert to 10.37.219.10 (10.37.219.10), 30 hops max, 60 byte packets
 1 _gateway (192.168.121.1) 0.050 ms 0.013 ms 0.009 ms
 2 10.13.251.7 (10.13.251.7) 0.715 ms 1.132 ms 1.472 ms
 3 10.103.21.11 (10.103.21.11) 0.878 ms 1.407 ms 1.827 ms
 4 * * *
 5 atlas-foncier.d037.dgfip (10.37.219.10) 0.370 ms 0.384 ms 0.341 ms
jacques.nougat@xfce:~$
```

```
tracert 10.37.218.110
tracert to 10.37.218.110 (10.37.218.110), 30 hops max, 60 byte packets
 1 _gateway (192.168.121.1) 0.052 ms 0.015 ms 0.011 ms
 2 10.13.251.7 (10.13.251.7) 0.722 ms 1.089 ms 1.448 ms
 3 10.103.21.11 (10.103.21.11) 0.748 ms 1.179 ms 1.594 ms
 4 * latlas-foncier.d037.dgfip (10.37.218.110) 0.772 ms 1.230 ms
 5 latlas-foncier.d037.dgfip (10.37.218.110) 0.356 ms !X 0.341 ms !X
0.339 ms !X
```

9H50 Feu-vert Réseau



Les partitions ne peuvent pas commmuniquer entre elles:

- ping (ICMP) OK
- traceroute **KO**
- SSH **KO**
- FTP **KO**

Retour en nominal

16H20 Feu-vert IBM

16H24 Arrêt de la diffusion des nouvelles routes

Sur le fédérateur annoncer les routes statiques des deux partitions:

```
undo ip route-static 10.37.219.10 32 10.103.212.33
undo ip route-static 10.37.218.110 32 10.103.212.33
```

Contrôle du retour des routes vers Tours

```
tracert 10.37.219.10
tracert to 10.37.219.10 (10.37.219.10), 30 hops max, 60 byte packets
 1  _gateway (192.168.121.1)  0.049 ms  0.011 ms  0.009 ms
 2  10.13.251.7 (10.13.251.7)  1.239 ms  1.621 ms  1.954 ms
 3  10.103.13.11 (10.103.21.11)  0.825 ms  1.315 ms  1.724 ms
 4  10.103.13.4 (10.103.21.4)  0.120 ms  0.131 ms  0.131 ms
 5  100.127.251.122 (100.127.251.122)  0.968 ms  1.058 ms  1.136 ms
 6  100.127.252.65 (100.127.252.65)  20.569 ms  20.583 ms  20.536 ms
 7  100.127.252.45 (100.127.252.45)  20.520 ms  20.828 ms  20.819 ms
 8  100.127.252.22 (100.127.252.22)  20.801 ms  20.987 ms  20.940 ms
 9  100.127.252.105 (100.127.252.105)  21.200 ms  21.178 ms  21.168 ms
10  100.127.32.1 (100.127.32.1)  19.787 ms  19.775 ms  19.761 ms
11  86.79.4.50 (86.79.4.50)  50.029 ms  50.037 ms  50.097 ms
12  10.37.1.17 (10.37.1.17)  42.802 ms  43.118 ms  43.410 ms
13  10.37.1.20 (10.37.1.20)  50.054 ms  50.041 ms  50.100 ms
14  10.37.1.17 (10.37.1.17)  42.898 ms  43.164 ms  43.440 ms
15  10.37.1.20 (10.37.1.20)  50.055 ms  50.052 ms  50.052 ms
16  10.37.1.17 (10.37.1.17)  43.692 ms  44.055 ms  44.249 ms
17  10.37.1.20 (10.37.1.20)  50.162 ms  50.121 ms  50.100 ms
18  10.37.1.17 (10.37.1.17)  42.835 ms  43.173 ms  43.501 ms
19  10.37.1.20 (10.37.1.20)  50.116 ms  50.102 ms  50.089 ms
20  * * *
21  10.37.1.20 (10.37.1.20)  50.207 ms  50.177 ms  50.162 ms
22  * * *
23  10.37.1.20 (10.37.1.20)  50.230 ms  50.210 ms  50.183 ms
24  * * *
25  10.37.1.20 (10.37.1.20)  50.222 ms  50.229 ms  50.209 ms
26  * * *
27  10.37.1.20 (10.37.1.20)  50.244 ms  50.307 ms  50.262 ms
28  10.37.1.17 (10.37.1.17)  42.751 ms  * *
29  10.37.1.20 (10.37.1.20)  50.316 ms  50.272 ms  50.300 ms
```

30 * 10.37.1.17 (10.37.1.17) 42.946 ms *

```
traceroute 10.37.218.110
traceroute to 10.37.218.110 (10.37.218.110), 30 hops max, 60 byte packets
 1  _gateway (192.168.121.1)  0.045 ms  0.010 ms  0.008 ms
 2  10.13.251.7 (10.13.251.7)  3.621 ms  4.038 ms  4.390 ms
 3  10.103.13.11 (10.103.21.11)  0.856 ms  1.371 ms  1.787 ms
 4  10.103.13.4 (10.103.21.4)  0.144 ms  0.130 ms  0.147 ms
 5  100.127.251.122 (100.127.251.122)  0.844 ms  1.108 ms  1.185 ms
 6  100.127.252.65 (100.127.252.65)  20.526 ms  20.491 ms  20.463 ms
 7  100.127.252.45 (100.127.252.45)  20.449 ms  20.747 ms  20.741 ms
 8  100.127.252.22 (100.127.252.22)  20.684 ms  20.672 ms  20.639 ms
 9  100.127.252.105 (100.127.252.105)  21.075 ms  21.064 ms  21.041 ms
10  100.127.32.1 (100.127.32.1)  19.830 ms  19.740 ms  19.743 ms
11  86.79.4.50 (86.79.4.50)  50.295 ms  50.341 ms  50.230 ms
12  10.37.1.17 (10.37.1.17)  96.769 ms  97.039 ms  97.334 ms
13  10.37.1.20 (10.37.1.20)  50.281 ms  50.274 ms  50.276 ms
14  10.37.1.17 (10.37.1.17)  97.148 ms  97.396 ms  96.876 ms
15  10.37.1.20 (10.37.1.20)  50.338 ms  50.325 ms  50.328 ms
16  10.37.1.17 (10.37.1.17)  95.024 ms  64.159 ms  49.211 ms
17  10.37.1.20 (10.37.1.20)  50.370 ms  50.354 ms  50.325 ms
18  10.37.1.17 (10.37.1.17)  48.529 ms  47.824 ms  *
19  10.37.1.20 (10.37.1.20)  50.373 ms  50.453 ms  50.396 ms
20  * * *
21  10.37.1.20 (10.37.1.20)  50.422 ms  50.422 ms  50.399 ms
22  * * *
23  10.37.1.20 (10.37.1.20)  50.455 ms  50.446 ms  50.418 ms
24  * * *
25  10.37.1.20 (10.37.1.20)  50.511 ms  50.479 ms  50.460 ms
26  * * *
27  10.37.1.20 (10.37.1.20)  50.558 ms  50.503 ms  50.481 ms
28  * 10.37.1.17 (10.37.1.17)  43.149 ms  *
29  10.37.1.20 (10.37.1.20)  50.550 ms  50.577 ms  50.576 ms
30  * 10.37.1.17 (10.37.1.17)  43.158 ms  *
```

16H30 Feu-vert Réseau

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