

Test de basculement réseau 20/09/2022

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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-238
 subnet 10.37.238.0 255.255.255.0
object network MRS-238
 subnet 10.103.218.0 255.255.255.0
object network TRS-237
 subnet 10.37.237.0 255.255.255.0
object network MRS-237
 subnet 10.103.237.0 255.255.255.0
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
```

```
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
```

```
nat (outside,inside) source static MRS-BKUP BKUP-MRS destination static TRS-218 MRS-218
nat (outside,inside) source static MRS-BKUP BKUP-MRS destination static TRS-219 MRS-219
nat (outside,inside) source static MRS-BKUP BKUP-MRS destination static TRS-237 MRS-237
nat (outside,inside) source static MRS-BKUP BKUP-MRS destination static TRS-238 MRS-238
nat (outside,inside) source static any any destination static MRS-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 MRS-237 MRS-237
nat (outside,inside) source static any any destination static MRS-238 MRS-238
nat (outside,inside) source static any any destination static TRS-218 MRS-218
nat (outside,inside) source static any any destination static TRS-219 MRS-219
nat (outside,inside) source static any any destination static TRS-237 MRS-237
nat (outside,inside) source static any any destination static TRS-238 MRS-238
```

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

Commandes pour supprimer le natage

```
no nat (outside,inside) source static MRS-BKUP BKUP-MRS destination static
TRS-218 MRS-218
no nat (outside,inside) source static MRS-BKUP BKUP-MRS destination static
TRS-219 MRS-219
no nat (outside,inside) source static MRS-BKUP BKUP-MRS destination static
TRS-237 MRS-237
no nat (outside,inside) source static MRS-BKUP BKUP-MRS destination static
TRS-238 MRS-238
no nat (outside,inside) source static any any destination static MRS-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 MRS-237
MRS-237
no nat (outside,inside) source static any any destination static MRS-238
MRS-238
no nat (outside,inside) source static any any destination static TRS-218
MRS-218
no nat (outside,inside) source static any any destination static TRS-219
MRS-219
no nat (outside,inside) source static any any destination static TRS-237
MRS-237
no nat (outside,inside) source static any any destination static TRS-238
MRS-238
```

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

```
jacques.nougat@xfce:~$ traceroute 10.37.218.110
```

Basculement réseau

9H15 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)  0.053 ms  0.012 ms  0.008 ms
 2  10.13.251.7 (10.13.251.7)  0.801 ms  1.234 ms  1.591 ms
 3  10.103.13.11 (10.103.21.11)  0.815 ms  1.229 ms  1.679 ms
 4  10.103.13.4 (10.103.21.4)  0.141 ms  0.146 ms  0.130 ms
 5  100.127.251.122 (100.127.251.122)  1.097 ms  1.456 ms  1.571 ms
 6  100.127.252.65 (100.127.252.65)  20.520 ms  20.504 ms  20.468 ms
 7  100.127.252.45 (100.127.252.45)  20.454 ms  20.785 ms  20.773 ms
 8  100.127.252.22 (100.127.252.22)  20.761 ms  20.862 ms  21.098 ms
 9  100.127.252.105 (100.127.252.105)  20.778 ms  20.764 ms  20.749 ms
10  100.127.32.1 (100.127.32.1)  19.828 ms  19.815 ms  19.921 ms
11  86.79.4.50 (86.79.4.50)  49.983 ms  49.970 ms  50.104 ms
12  10.37.1.17 (10.37.1.17)  42.960 ms  43.367 ms  43.511 ms
13  10.37.1.20 (10.37.1.20)  49.846 ms  49.835 ms  49.842 ms
14  10.37.1.17 (10.37.1.17)  42.811 ms  43.137 ms  43.488 ms
15  10.37.1.20 (10.37.1.20)  49.785 ms  49.846 ms  49.880 ms
16  10.37.1.17 (10.37.1.17)  43.739 ms  42.935 ms  43.303 ms
17  10.37.1.20 (10.37.1.20)  49.880 ms  49.865 ms  49.850 ms
18  10.37.1.17 (10.37.1.17)  43.384 ms  43.769 ms  44.123 ms
19  10.37.1.20 (10.37.1.20)  49.954 ms  49.921 ms  49.907 ms
20  * * *
21  10.37.1.20 (10.37.1.20)  49.936 ms  49.964 ms  50.003 ms
22  * 10.37.1.17 (10.37.1.17)  122.986 ms *
23  10.37.1.20 (10.37.1.20)  50.044 ms  50.049 ms  50.019 ms
24  * * *
25  10.37.1.20 (10.37.1.20)  50.079 ms  50.087 ms  50.072 ms
26  * * *
27  10.37.1.20 (10.37.1.20)  50.007 ms  50.150 ms  50.241 ms
28  * * *
29  10.37.1.20 (10.37.1.20)  50.064 ms  50.193 ms  50.047 ms
30  * * 10.37.1.17 (10.37.1.17)  43.127 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)  0.051 ms  0.012 ms  0.009 ms
2  10.13.251.7 (10.13.251.7)  0.769 ms  1.154 ms  1.537 ms
3  10.103.13.11 (10.103.21.11)  0.834 ms  1.291 ms  1.737 ms
4  10.103.13.4 (10.103.21.4)  0.157 ms  0.144 ms  0.129 ms
5  100.127.251.122 (100.127.251.122)  0.835 ms  1.049 ms  1.144 ms
6  100.127.252.65 (100.127.252.65)  20.562 ms  20.435 ms  20.414 ms
7  100.127.252.45 (100.127.252.45)  20.401 ms  20.403 ms  20.379 ms
8  100.127.252.22 (100.127.252.22)  21.182 ms  21.169 ms  21.157 ms
9  100.127.252.105 (100.127.252.105)  20.844 ms  20.831 ms  20.817 ms
10 100.127.32.1 (100.127.32.1)  19.772 ms  19.794 ms  19.800 ms
11 86.79.4.50 (86.79.4.50)  50.191 ms  50.192 ms  50.136 ms
12 10.37.1.17 (10.37.1.17)  43.037 ms  43.459 ms  43.737 ms
13 10.37.1.20 (10.37.1.20)  50.015 ms  50.065 ms  50.048 ms
14 10.37.1.17 (10.37.1.17)  43.504 ms  43.351 ms  43.648 ms
15 10.37.1.20 (10.37.1.20)  51.218 ms  51.031 ms  51.026 ms
16 10.37.1.17 (10.37.1.17)  43.797 ms  43.012 ms  42.953 ms
17 10.37.1.20 (10.37.1.20)  50.173 ms  50.069 ms  50.053 ms
18 10.37.1.17 (10.37.1.17)  42.932 ms  42.947 ms *
19 10.37.1.20 (10.37.1.20)  50.080 ms  50.207 ms  50.183 ms
20 * * *
21 10.37.1.20 (10.37.1.20)  50.287 ms  50.262 ms  50.196 ms
22 * * *
23 10.37.1.20 (10.37.1.20)  50.234 ms  50.226 ms  50.235 ms
24 * * 10.37.1.17 (10.37.1.17)  43.200 ms
25 10.37.1.20 (10.37.1.20)  50.309 ms  50.283 ms  50.328 ms
26 * * *
27 10.37.1.20 (10.37.1.20)  50.397 ms  50.381 ms  50.320 ms
28 * * *
29 10.37.1.20 (10.37.1.20)  50.413 ms  50.384 ms  50.381 ms
30 * 10.37.1.17 (10.37.1.17)  43.290 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

```

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)  0.070 ms  0.018 ms  0.014 ms
2  10.13.251.7 (10.13.251.7)  19.601 ms  19.961 ms  20.328 ms
3  10.103.13.11 (10.103.21.11)  0.845 ms  1.333 ms  1.729 ms
4  atlas-foncier.d037.dgfip (10.37.219.10)  1.379 ms  1.806 ms  2.223 ms
5  atlas-foncier.d037.dgfip (10.37.219.10)  2.608 ms  3.022 ms  3.428 ms

```

```
6 atlas-foncier.d037.dgfip (10.37.219.10) 0.355 ms 0.402 ms 0.348 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 0.009 ms
 2 10.13.251.7 (10.13.251.7) 0.696 ms 1.156 ms 1.483 ms
 3 10.103.13.11 (10.103.21.11) 0.752 ms 1.228 ms 1.625 ms
 4 atlas-foncier.d037.dgfip (10.37.218.110) 1.119 ms 1.609 ms 2.090 ms
 5 atlas-foncier.d037.dgfip (10.37.218.110) 2.369 ms 2.805 ms 3.224 ms
 6 atlas-foncier.d037.dgfip (10.37.218.110) 0.293 ms !X 0.287 ms !X
0.271 ms !X
```

9H24 Feu-vert Réseau

Retour en nominal

16H30 Feu-vert IBM

16H32 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

```
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) 0.046 ms 0.010 ms 0.008 ms
 2 10.13.251.7 (10.13.251.7) 0.740 ms 1.117 ms 1.501 ms
 3 10.103.21.11 (10.103.21.11) 0.801 ms 1.291 ms 1.709 ms
 4 10.103.21.4 (10.103.21.4) 0.140 ms 0.126 ms 0.127 ms
 5 100.127.251.122 (100.127.251.122) 1.012 ms 1.081 ms 1.158 ms
 6 100.127.252.65 (100.127.252.65) 20.513 ms 20.470 ms 20.449 ms
 7 100.127.252.45 (100.127.252.45) 20.427 ms 20.366 ms 20.337 ms
 8 100.127.252.22 (100.127.252.22) 20.688 ms 21.014 ms 21.001 ms
```

9	100.127.252.105 (100.127.252.105)	20.988 ms	20.975 ms	20.962 ms
10	100.127.32.1 (100.127.32.1)	19.781 ms	19.823 ms	19.787 ms
11	86.79.4.50 (86.79.4.50)	49.927 ms	49.884 ms	49.844 ms
12	10.37.1.17 (10.37.1.17)	42.903 ms	43.211 ms	43.519 ms
13	10.37.1.20 (10.37.1.20)	49.741 ms	49.729 ms	49.713 ms
14	10.37.1.17 (10.37.1.17)	44.069 ms	43.730 ms	44.313 ms
15	10.37.1.20 (10.37.1.20)	49.736 ms	49.723 ms	49.765 ms
16	10.37.1.17 (10.37.1.17)	42.669 ms	42.918 ms	42.726 ms
17	10.37.1.20 (10.37.1.20)	49.789 ms	49.801 ms	49.799 ms
18	10.37.1.17 (10.37.1.17)	42.688 ms	42.743 ms	*
19	10.37.1.20 (10.37.1.20)	49.865 ms	49.851 ms	49.837 ms
20	10.37.1.17 (10.37.1.17)	100.641 ms	* *	
21	10.37.1.20 (10.37.1.20)	49.860 ms	49.846 ms	49.833 ms
22	* * *			
23	10.37.1.20 (10.37.1.20)	49.831 ms	49.841 ms	49.829 ms
24	* * *			
25	10.37.1.20 (10.37.1.20)	49.913 ms	49.883 ms	49.868 ms
26	* * *			
27	10.37.1.20 (10.37.1.20)	49.958 ms	49.892 ms	49.905 ms
28	* * *			
29	10.37.1.20 (10.37.1.20)	50.012 ms	49.975 ms	49.999 ms
30	* 10.37.1.17 (10.37.1.17)	42.956 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) 0.074 ms 0.020 ms 0.017 ms
 2 10.13.251.7 (10.13.251.7) 0.736 ms 1.144 ms 1.468 ms
 3 * * *
 4 10.103.21.4 (10.103.21.4) 0.163 ms 0.151 ms 0.152 ms
 5 100.127.251.122 (100.127.251.122) 0.924 ms 1.107 ms 1.146 ms
 6 100.127.252.65 (100.127.252.65) 20.556 ms 20.528 ms 20.483 ms
 7 100.127.252.45 (100.127.252.45) 20.732 ms 20.708 ms 21.244 ms
 8 100.127.252.22 (100.127.252.22) 20.917 ms 20.685 ms 21.097 ms
 9 100.127.252.105 (100.127.252.105) 21.069 ms 21.040 ms 21.015 ms
10 100.127.32.1 (100.127.32.1) 19.795 ms 19.783 ms 19.766 ms
11 86.79.4.50 (86.79.4.50) 50.185 ms 50.296 ms 50.188 ms
12 10.37.1.17 (10.37.1.17) 115.017 ms 115.329 ms 115.528 ms
13 10.37.1.20 (10.37.1.20) 50.038 ms 49.995 ms 49.971 ms
14 10.37.1.17 (10.37.1.17) 114.504 ms 113.070 ms 113.321 ms
15 10.37.1.20 (10.37.1.20) 50.032 ms 50.010 ms 50.061 ms
16 10.37.1.17 (10.37.1.17) 106.625 ms 75.744 ms 69.237 ms
17 10.37.1.20 (10.37.1.20) 50.082 ms 50.058 ms 50.026 ms
18 10.37.1.17 (10.37.1.17) 66.983 ms 65.482 ms *
19 10.37.1.20 (10.37.1.20) 50.097 ms 50.122 ms 50.092 ms
20 * * *
21 10.37.1.20 (10.37.1.20) 50.130 ms 50.102 ms 50.124 ms
22 * * *
23 10.37.1.20 (10.37.1.20) 50.107 ms 50.159 ms 50.164 ms
24 * * *
25 10.37.1.20 (10.37.1.20) 50.187 ms 50.155 ms 50.171 ms

```

```
26 * * *
27 10.37.1.20 (10.37.1.20) 50.194 ms 50.165 ms 50.195 ms
28 * 10.37.1.17 (10.37.1.17) 43.173 ms *
29 10.37.1.20 (10.37.1.20) 50.222 ms 50.234 ms 50.187 ms
30 * 10.37.1.17 (10.37.1.17) 43.089 ms *
```

16H32 Feu-vert Réseau

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