Basculement réseau du 10/04/21

Périmètre

Le périmètre de l'exercice comporte 32 adresses:

Socle	Nom	Type Virt	IP Tours	IP Marseille	Type
z/OS	ETUDES	LPAR	10.37.222.30	10.103.219.30	VIPA
z/OS	CQIF	LPAR	10.37.222.50	10.103.219.50	VIPA
z/OS	PRODAM	LPAR	10.37.222.60	10.103.219.60	VIPA
z/OS	PRODOR	LPAR	10.37.222.80	10.103.219.80	VIPA
Linux	LETUDES	VM	10.37.222.130	10.103.222.130	Physique
Linux	LCQIF	VM	10.37.222.150	10.103.222.150	Physique
Linux	LPRODAM	VM	10.37.222.160	10.103.222.160	Physique
Linux	LPRODOR	VM	10.37.222.180	10.103.222.180	Physique
Linux	LXOPE	LPAR	10.37.225.120	10.103.235.120	Physique
Linux	LXDSU	LPAR	10.37.225.210	10.103.235.210	Physique
Linux	LXSMB	LPAR	10.37.225.180	10.103.235.180	Physique
Linux	LXSTF	LPAR	10.37.225.170	10.103.235.170	Physique
Linux	STF3SAI1	VM	10.37.235.30	10.103.235.30	Physique
Linux	STF3SAQ1	VM	10.37.235.31	10.103.235.31	Physique
Linux	STF3SAPA	VM	10.37.235.32	10.103.235.32	Physique
Linux	STF3SAPO	VM	10.37.235.33	10.103.235.33	Physique
z/OS	PAC1	LPAR	10.37.238.10	10.103.238.10	VIPA+RIP
z/OS	CHL1	LPAR	10.37.238.20	10.103.238.20	VIPA+RIP
z/OS	ROU1	LPAR	10.37.238.30	10.103.238.30	VIPA+RIP
z/OS	TRS1	LPAR	10.37.238.50	10.103.238.50	VIPA+RIP
z/OS	GRBD	LPAR	10.37.238.60	10.103.238.60	VIPA+RIP
z/OS	BDX3	LPAR	10.37.238.70	10.103.238.70	VIPA+RIP
z/OS	ROU2	LPAR	10.37.238.80	10.103.238.80	VIPA+RIP
z/OS	GSIT	LPAR	10.37.238.90	10.103.238.90	VIPA+RIP
z/OS	TRS2	LPAR	10.37.238.130	10.103.238.130	VIPA+RIP
Linux	OINZ	VM	10.37.246.9	10.103.246.9	Physique
Linux	LXPRDSTF	VM	10.37.246.16	10.103.246.16	Physique
Linux	OPSSAD1	VM	10.37.246.29	10.103.246.29	Physique
Linux	TSTFSAP1	VM	10.37.246.30	10.103.246.30	Physique
Linux	SUPESAP1	VM	10.37.246.31	10.103.246.31	Physique
Linux	OPSRSAP1	VM	10.37.246.32	10.103.246.32	Physique
Linux	OPSTSAP1	VM	10.37.246.33	10.103.246.33	Physique

Script de traceroute

Afin d'industrialiser le basculement, le script de traceroute utilise en entrée un fichier contenant

toutes les adresses du périmètre (une par ligne):

1. `i=0;` initialisation du compteur de ligne
2. `for word in $(cat tracetrs100421.txt); do ... done` boucle de lecture du fichier contenant les adresses ip
3. `let i+=1;` incrément du compteur de ligne
4. `traceroute -I $word` traceroute ICMP
    1. `|grep 10.103.13.` on ne garde que les lignes contenant l'adresse du coeur de réseau (10.37.1 pour Tours et 10.103.13 pour Marseille)
    2. `|sed -re "s/^.*(10.103.13.. ).*$/"$i":"$word" - \1/p"` mise en forme de la ligne (N° de ligne: adresse ip - saut ip)
    3. `| uniq -c ;` tri pour ne garder qu'une seule ligne (à cause de la boucle à Tours)

Suite au pré-test du 9 avril 2021, l'option -I (traceroute ICMP) a été préféré car le traceroute par défaut ne permettait pas de remonter toutes les traces

Traceroute de Tours (SAN6BR)

```
Traceroute to 10.103.235.110 from IP interface 10.37.225.234 on 0/ge0, 30
hops max
 1  10.37.225.7  0 ms  0 ms  17 ms
 2  10.37.1.20  0 ms  0 ms  0 ms
 3  86.79.4.42  0 ms  0 ms  0 ms
 4  86.79.4.49  4 ms  4 ms  4 ms
 5  100.127.32.2  13 ms  13 ms  13 ms
 6  100.127.32.2  13 ms  13 ms  13 ms
 7  100.127.252.106  35 ms  35 ms  35 ms
 8  100.127.252.21  35 ms  35 ms  35 ms
 9  100.127.252.46  35 ms  35 ms  35 ms
10  100.127.252.66  37 ms  37 ms  37 ms
11  100.127.251.121  32 ms  32 ms  32 ms
12  10.103.13.1  30 ms  53 ms  30 ms
13  10.103.222.33  37 ms  37 ms  37 ms
14  10.103.235.110  30 ms  30 ms  30 ms
Traceroute complete.
```

hop	adresse	équipement
1	10.37.225.7	
2	10.37.1.20	coeur TRS
3	86.79.4.42	routeur TRS
4	86.79.4.49	
5	100.127.32.2	
6	100.127.32.2	
7	100.127.252.106	
8	100.127.252.21	
9	100.127.252.46	

hop	adresse	équipement
10	100.127.252.66	
11	100.127.251.121	RT1
12	10.103.13.1	fédérateur
13	10.103.222.33	
14	10.103.235.110	

Traceroute depuis Marseille (snsmutual)

```
[root] # traceroute 10.37.222.50
traceroute to 10.37.222.50 (10.37.222.50), 30 hops max, 60 byte packets
 1  10.103.222.1 (10.103.222.1)  0.699 ms  1.003 ms  1.310 ms
 2  * * *
 3  10.103.13.4 (10.103.13.4)  0.110 ms  0.122 ms  0.128 ms
 4  100.127.251.122 (100.127.251.122)  0.948 ms  1.008 ms  1.076 ms
 5  100.127.252.65 (100.127.252.65)  25.159 ms  25.375 ms  25.482 ms
 6  100.127.252.45 (100.127.252.45)  25.160 ms  25.374 ms  25.502 ms
 7  100.127.252.22 (100.127.252.22)  27.908 ms  27.586 ms  27.626 ms
 8  100.127.252.17 (100.127.252.17)  33.452 ms
    100.127.252.105 (100.127.252.105)  20.292 ms  21.978 ms
 9  100.127.32.1 (100.127.32.1)  27.219 ms  27.207 ms  27.212 ms
10  86.79.4.46 (86.79.4.46)  32.317 ms  32.327 ms
    100.127.252.98 (100.127.252.98)  32.434 ms
11  10.37.1.17 (10.37.1.17)  36.535 ms
    100.127.252.102 (100.127.252.102)  33.123 ms
    10.37.1.17 (10.37.1.17)  34.938 ms
12  100.127.32.1 (100.127.32.1)  32.028 ms  31.943 ms  31.887 ms
13  cqif-foncier.appli.dgfip (10.37.222.50)  40.156 ms  39.838 ms  39.853 ms
```

hop	adresse	équipement
1	10.103.222.1 (10.103.222.1)	
2	* * *	
3	10.103.13.4 (10.103.13.4)	fédérateur
4	100.127.251.122 (100.127.251.122)	RT2
5	100.127.252.65 (100.127.252.65)	
6	100.127.252.45 (100.127.252.45)	
7	100.127.252.22 (100.127.252.22)	
8	100.127.252.17 (100.127.252.17)	
	100.127.252.105 (100.127.252.105)	
9	100.127.32.1 (100.127.32.1)	
10	86.79.4.46 (86.79.4.46)	routeur TRS
	100.127.252.98 (100.127.252.98)	
11	10.37.1.17 (10.37.1.17)	coeur TRS
	100.127.252.102 (100.127.252.102)	
	10.37.1.17 (10.37.1.17)	coeur TRS
12	100.127.32.1 (100.127.32.1)	
13	cqif-foncier.appli.dgfip (10.37.222.50)	

Pré-test de Basculement

```
 ip route-static 10.37.235.204 255.255.255.255 192.168.212.33 tag 10
description test new 235
 ip route-static 10.37.246.50 255.255.255.255 192.168.212.33 tag 10
description test new 246
```

Sous-réseau 10.37.235.0/24

- Traceroute avant le basculement

```
--(gavpgsa118:/)-
[root] # traceroute 10.37.235.204
traceroute to 10.37.235.204 (10.37.235.204), 30 hops max, 60 byte packets
 1  10.59.154.7 (10.59.154.7)  0.954 ms  0.902 ms  1.511 ms
 2  10.59.2.228 (10.59.2.228)  0.109 ms  0.113 ms  0.105 ms
 3  100.127.251.158 (100.127.251.158)  0.910 ms  0.975 ms  1.034 ms
 4  100.127.252.109 (100.127.252.109)  18.439 ms  18.722 ms  18.841 ms
 5  100.127.252.17 (100.127.252.17)  18.418 ms  19.702 ms 100.127.252.105
(100.127.252.105)  12.526 ms
 6  100.127.252.90 (100.127.252.90)  17.355 ms 100.127.32.1 (100.127.32.1)
13.113 ms  13.078 ms
 7  86.79.4.50 (86.79.4.50)  22.612 ms  22.672 ms  22.652 ms
 8  100.127.252.102 (100.127.252.102)  18.449 ms  18.553 ms  20.067 ms
 9  100.127.32.1 (100.127.32.1)  17.812 ms  17.850 ms *
10  86.79.4.50 (86.79.4.50)  27.418 ms  30.193 ms  30.196 ms
11  10.37.1.17 (10.37.1.17)  32.771 ms  30.166 ms *
```

- Basculement de l'adresse 10.37.235.204

```
-(Thu Apr 08 10:09:14)--(gavpgsa118:/)-
[root] # traceroute 10.37.235.204
traceroute to 10.37.235.204 (10.37.235.204), 30 hops max, 60 byte packets
 1  10.59.154.7 (10.59.154.7)  1.675 ms  12.070 ms  2.343 ms
 2  10.59.2.228 (10.59.2.228)  0.133 ms  0.128 ms  0.120 ms
 3  100.127.251.158 (100.127.251.158)  1.962 ms  1.958 ms  1.949 ms
 4  100.127.252.1 (100.127.252.1)  17.974 ms  18.079 ms 100.127.252.109
(100.127.252.109)  18.200 ms
 5  100.127.252.21 (100.127.252.21)  22.589 ms  22.573 ms 100.127.252.10
(100.127.252.10)  22.381 ms
 6  100.127.252.46 (100.127.252.46)  25.252 ms  25.477 ms  25.587 ms
 7  100.127.252.57 (100.127.252.57)  25.327 ms 100.127.252.66
(100.127.252.66)  21.828 ms 100.127.252.57 (100.127.252.57)  25.228 ms
 8  100.127.252.54 (100.127.252.54)  28.510 ms 100.127.251.121
(100.127.251.121)  16.306 ms  16.322 ms
 9  10.103.13.1 (10.103.13.1)  50.597 ms  21.316 ms 100.127.252.77
(100.127.252.77)  25.383 ms
```

```
10  * 100.127.252.73 (100.127.252.73)  25.397 ms *
11  100.127.251.121 (100.127.251.121)  23.474 ms *  23.467 ms
12  * 10.103.13.1 (10.103.13.1)  28.278 ms  28.763 ms
13  10.37.235.204 (10.37.235.204)  29.645 ms *  29.002 ms
```

- Retour en nominal

```
-(Thu Apr 08 10:10:56)--(gavpgsa118:/)-
[root] # [root] # traceroute 10.37.235.204
traceroute to 10.37.235.204 (10.37.235.204), 30 hops max, 60 byte packets
 1  10.59.154.7 (10.59.154.7)  0.986 ms  0.941 ms  1.571 ms
 2  10.59.2.228 (10.59.2.228)  0.131 ms  0.131 ms  0.125 ms
 3  100.127.251.158 (100.127.251.158)  0.866 ms  1.032 ms  1.115 ms
 4  100.127.252.109 (100.127.252.109)  18.448 ms  18.734 ms  18.874 ms
 5  100.127.252.17 (100.127.252.17)  18.547 ms  18.547 ms 100.127.252.105
(100.127.252.105)  12.581 ms
 6  100.127.32.1 (100.127.32.1)  13.119 ms  13.033 ms  13.020 ms
 7  86.79.4.50 (86.79.4.50)  22.624 ms 100.127.252.98 (100.127.252.98)
17.421 ms  17.262 ms
 8  10.37.1.17 (10.37.1.17)  34.265 ms 100.127.252.102 (100.127.252.102)
18.374 ms 10.37.1.17 (10.37.1.17)  25.366 ms
 9  100.127.32.1 (100.127.32.1)  17.821 ms *  17.830 ms
10  86.79.4.50 (86.79.4.50)  27.370 ms * *
11  10.37.1.17 (10.37.1.17)  30.037 ms  30.335 ms *
```

Sous-réseau 10.37.246.0/24

- Traceroute avant le basculement

```
[root] # traceroute 10.37.246.50
traceroute to 10.37.246.50 (10.37.246.50), 30 hops max, 60 byte packets
 1  10.59.154.7 (10.59.154.7)  0.863 ms  0.876 ms  1.476 ms
 2  10.59.2.228 (10.59.2.228)  0.113 ms  0.121 ms  0.115 ms
 3  100.127.251.158 (100.127.251.158)  0.867 ms  0.938 ms  1.000 ms
 4  100.127.252.109 (100.127.252.109)  18.360 ms  18.465 ms  18.644 ms
 5  100.127.252.105 (100.127.252.105)  12.710 ms  12.838 ms  12.947 ms
 6  100.127.252.90 (100.127.252.90)  17.536 ms  17.204 ms 100.127.32.1
(100.127.32.1)  13.078 ms
 7  86.79.4.50 (86.79.4.50)  22.651 ms 100.127.252.98 (100.127.252.98)
17.705 ms 86.79.4.50 (86.79.4.50)  22.621 ms
 8  100.127.252.102 (100.127.252.102)  18.878 ms 10.37.1.17 (10.37.1.17)
25.471 ms 100.127.252.102 (100.127.252.102)  18.300 ms
 9  100.127.32.1 (100.127.32.1)  17.847 ms  17.834 ms  17.801 ms^C
```

- Basculement de l'adresse 10.37.246.50

```
[root] # traceroute 10.37.246.50
traceroute to 10.37.246.50 (10.37.246.50), 30 hops max, 60 byte packets
```

```
 1  10.59.154.7 (10.59.154.7)  0.959 ms  0.956 ms  1.606 ms
 2  10.59.2.228 (10.59.2.228)  0.140 ms  0.140 ms  0.131 ms
 3  100.127.251.158 (100.127.251.158)  0.918 ms  0.985 ms  1.045 ms
 4  100.127.252.109 (100.127.252.109)  18.039 ms 100.127.252.1
(100.127.252.1)  18.121 ms  18.257 ms
 5  100.127.252.21 (100.127.252.21)  18.161 ms 100.127.252.10
(100.127.252.10)  17.847 ms 100.127.252.21 (100.127.252.21)  18.194 ms
 6  100.127.252.46 (100.127.252.46)  25.385 ms  26.791 ms  26.781 ms
 7  100.127.252.66 (100.127.252.66)  17.288 ms  16.810 ms  16.904 ms
 8  100.127.252.54 (100.127.252.54)  24.507 ms 100.127.251.121
(100.127.251.121)  16.337 ms 100.127.252.54 (100.127.252.54)  24.508 ms
 9  10.103.13.1 (10.103.13.1)  25.477 ms 100.127.252.77 (100.127.252.77)
25.382 ms 10.103.13.1 (10.103.13.1)  18.177 ms
10  100.127.252.73 (100.127.252.73)  25.314 ms^C
```

- Retour en Nominal

```
 traceroute 10.37.246.50
traceroute to 10.37.246.50 (10.37.246.50), 30 hops max, 60 byte packets
 1  10.59.154.7 (10.59.154.7)  0.839 ms  3.262 ms  1.565 ms
 2  10.59.2.228 (10.59.2.228)  0.099 ms  0.096 ms  0.121 ms
 3  100.127.251.158 (100.127.251.158)  0.908 ms  0.998 ms  1.062 ms
 4  100.127.252.109 (100.127.252.109)  18.471 ms  18.724 ms  19.028 ms
 5  100.127.252.105 (100.127.252.105)  12.593 ms 100.127.252.17
(100.127.252.17)  18.433 ms 100.127.252.105 (100.127.252.105)  12.675 ms
 6  100.127.252.90 (100.127.252.90)  17.426 ms  17.437 ms  17.473 ms
 7  86.79.4.50 (86.79.4.50)  22.605 ms  22.648 ms  22.586 ms
 8  100.127.252.102 (100.127.252.102)  18.270 ms  18.290 ms 86.79.4.41
(86.79.4.41)  22.470 ms
 9  10.37.1.17 (10.37.1.17)  61.283 ms 100.127.32.1 (100.127.32.1)  17.885
ms  17.862 ms
10  * 86.79.4.50 (86.79.4.50)  27.360 ms  27.361 ms
11  * 86.79.4.41 (86.79.4.41)  27.221 ms *
12  * * 10.37.1.17 (10.37.1.17)  30.159 ms
```

Feuille de Route

Présentation générale

La feuille de route présente de manière graphique les étapes importantes:

Les Etapes essentielles de l'exercice

Les feux verts

Les informations importantes qui ne conditionnent pas la suite de l'exercice

Les informations importantes qui CONDITIONNENT la suite de l'exercice

Les points de communication sur le TCHAP DGFIP SNS BGP

8h00: Contrôle du routage initial

10/04 - 8H30: CONTROLE DU ROUTAGE

Jacques serveur FSCURE (lille) traceroute sur les 32 partititions :

```
i=0;for word in $(cat tracetrs100421.txt); do let i+=1;traceroute -I
$word|grep 10.37.1.|sed -re "s/^.*(10.37.1... ).*$/"$i":"$word" - \1/p"|
uniq -c ; done
```

Toutes les routes doivent aller vers Tours

Informer TCHAP DGFIP SNS BGP

9H00 - Début de l'exercice

10/04 - 9H00: DEBUT DE L'EXERCICE

Arrêt des partitions sur Z de tours

Feu vert IBM à PROD

Etape 1: Vérification de l'arrêt

Feu vert IBM à RESEAU: Basculement

Informer TCHAP DGFIP SNS BGP

Jean-charles sur site

Ping sur les partitions (aucune ne doit répondre):

```
ping 10.37.222.30
ping 10.37.222.50
ping 10.37.222.60
ping 10.37.222.80
ping 10.37.222.130
ping 10.37.222.150
ping 10.37.222.160
ping 10.37.222.180
```

Informer TCHAP DGFIP SNS BGP

philippe sur site

Ping sur les partitions (aucune ne doit répondre):

```
ping 10.37.225.120
ping 10.37.225.210
ping 10.37.225.180
ping 10.37.225.170
ping 10.37.235.30
```

```
ping 10.37.235.31
ping 10.37.235.32
ping 10.37.235.33
```

Informer TCHAP DGFIP SNS BGP

Jacques sur site

Ping sur les partitions (aucune ne doit répondre):

```
ping -c3 10.37.238.10
ping -c3 10.37.238.60
ping -c3 10.37.238.70
ping -c3 10.37.238.80
ping -c3 10.37.238.90
ping -c3 10.37.238.130

ping -c3 10.37.238.20
ping -c3 10.37.238.30
ping -c3 10.37.238.50
```

Informer TCHAP DGFIP SNS BGP

Patrick VPN0 bastion

Ping sur les partitions (aucune ne doit répondre):

```
ping 10.37.246.9
ping 10.37.246.16
ping 10.37.246.29
ping 10.37.246.30
ping 10.37.246.31
ping 10.37.246.32
ping 10.37.246.33
```

Informer TCHAP DGFIP SNS BGP

Etape 2: Déclaration des routes (basculement réseau)

Jean-charles sur site

Au feu vert JACQUES ajouter les routes sur le fédérateur 10.103.222.34

```
 ip route-static 10.37.222.30 255.255.255.255 192.168.212.33 tag 10
description ZOS ETUDES LPAR
 ip route-static 10.37.222.50 255.255.255.255 192.168.212.33 tag 10
description ZOS CQIF LPAR
 ip route-static 10.37.222.60 255.255.255.255 192.168.212.33 tag 10
description ZOS PRODAM LPAR
 ip route-static 10.37.222.80 255.255.255.255 192.168.212.33 tag 10
description ZOS PRODOR LPAR
 ip route-static 10.37.222.130 255.255.255.255 192.168.212.33 tag 10
description Linux LETUDES VM
 ip route-static 10.37.222.150 255.255.255.255 192.168.212.33 tag 10
description Linux LCQIF VM
 ip route-static 10.37.222.160 255.255.255.255 192.168.212.33 tag 10
description Linux LPRODAM VM
 ip route-static 10.37.222.180 255.255.255.255 192.168.212.33 tag 10
description Linux LPRODOR VM
```

Informer TCHAP DGFIP SNS BGP

philippe sur site

Au feu vert JACQUES ajouter les routes sur le fédérateur 10.103.222.34

```
 ip route-static 10.37.225.120 255.255.255.255 192.168.212.33 tag 10
description Linux LXOPE LPAR
 ip route-static 10.37.225.210 255.255.255.255 192.168.212.33 tag 10
description Linux LXDSU LPAR
 ip route-static 10.37.225.180 255.255.255.255 192.168.212.33 tag 10
description Linux LXSMB LPAR
 ip route-static 10.37.225.170 255.255.255.255 192.168.212.33 tag 10
description Linux LXSTF LPAR
 ip route-static 10.37.235.30 255.255.255.255 192.168.212.33 tag 10
description Linux STF3SAI1 VM
 ip route-static 10.37.235.31 255.255.255.255 192.168.212.33 tag 10
description Linux STF3SAQ1 VM
 ip route-static 10.37.235.32 255.255.255.255 192.168.212.33 tag 10
description Linux STF3SAPA VM
 ip route-static 10.37.235.33 255.255.255.255 192.168.212.33 tag 10
```

```
description Linux STF3SAPO VM
```

Informer TCHAP DGFIP SNS BGP

Jacques sur site

Au feu vert JACQUES ajouter les routes sur le fédérateur 10.103.222.34

```
 ip route-static 10.37.238.10 255.255.255.255 192.168.212.33 tag 10
description ZOS PAC1 LPAR
 ip route-static 10.37.238.60 255.255.255.255 192.168.212.33 tag 10
description ZOS GRBD LPAR
 ip route-static 10.37.238.70 255.255.255.255 192.168.212.33 tag 10
description ZOS BDX3 LPAR
 ip route-static 10.37.238.80 255.255.255.255 192.168.212.33 tag 10
description ZOS ROU2 LPAR
 ip route-static 10.37.238.90 255.255.255.255 192.168.212.33 tag 10
description ZOS GSIT LPAR
 ip route-static 10.37.238.130 255.255.255.255 192.168.212.33 tag 10
description ZOS TRS2 LPAR

 ip route-static 10.37.238.20 255.255.255.255 192.168.212.33 tag 10
description ZOS CHL1 LPAR
 ip route-static 10.37.238.30 255.255.255.255 192.168.212.33 tag 10
description ZOS ROU1 LPAR
 ip route-static 10.37.238.50 255.255.255.255 192.168.212.33 tag 10
description ZOS TRS1 LPAR
```

Informer TCHAP DGFIP SNS BGP

Patrick VPN0 bastion

Au feu vert JACQUES ajouter les routes sur le fédérateur 10.103.222.34

```
 ip route-static 10.37.246.9 255.255.255.255 192.168.212.33 tag 10
description Linux OINZ VM
 ip route-static 10.37.246.16 255.255.255.255 192.168.212.33 tag 10
description Linux LXPRDSTF VM
 ip route-static 10.37.246.29 255.255.255.255 192.168.212.33 tag 10
description Linux OPSSAD1 VM
 ip route-static 10.37.246.30 255.255.255.255 192.168.212.33 tag 10
```

```
description Linux TSTFSAP1 VM
 ip route-static 10.37.246.31 255.255.255.255 192.168.212.33 tag 10
description Linux SUPESAP1 VM
 ip route-static 10.37.246.32 255.255.255.255 192.168.212.33 tag 10
description Linux OPSRSAP1 VM
 ip route-static 10.37.246.33 255.255.255.255 192.168.212.33 tag 10
description Linux OPSTSAP1 VM
```

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Etape 3: Conrôle du Basculement

Jacques serveur FSCURE (lille)

Contrôle par traceroute que toutes les routes vont vers Marseille (10.103.13.??):

```
i=0;for word in $(cat tracetrs100421.txt); do let i+=1;traceroute -I
$word|grep 10.103.13.|sed -re "s/^.*(10.103.13.. ).*$/"$i":"$word" - \1/p"|
uniq -c ; done
```

Contrôle par traceroute que plus aucune route va à tours (10.37.1.??):

```
i=0;for word in $(cat tracetrs100421.txt); do let i+=1;traceroute -I
$word|grep 10.37.1.|sed -re "s/^.*(10.37.1... ).*$/"$i":"$word" - \1/p"|
uniq -c ; done
```

Toutes les routes doivent aller vers Marseille

Informer TCHAP DGFIP SNS BGP

Jean-charles sur site

Contrôle du Basculement ping (toutes les partitions doivent répondre):

```
 ping 10.37.222.30
 ping 10.37.222.50
```

```
ping 10.37.222.60
ping 10.37.222.80
ping 10.37.222.130
ping 10.37.222.150
ping 10.37.222.160
ping 10.37.222.180
```

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philippe sur site

Contrôle du Basculement ping (toutes les partitions doivent répondre):

```
ping 10.37.225.120
ping 10.37.225.210
ping 10.37.225.180
ping 10.37.225.170
ping 10.37.235.30
ping 10.37.235.31
ping 10.37.235.32
ping 10.37.235.33
```

Informer TCHAP DGFIP SNS BGP

Jacques sur site

Contrôle du Basculement ping (toutes les partitions doivent répondre):

```
ping 10.37.238.10
ping 10.37.238.60
ping 10.37.238.70
ping 10.37.238.80
ping 10.37.238.90
ping 10.37.238.130

ping 10.37.238.20
ping 10.37.238.30
ping 10.37.238.50
```

Informer TCHAP DGFIP SNS BGP

Patrick VPN0 bastion

Contrôle du Basculement ping (toutes les partitions doivent répondre):

```
ping 10.37.246.9
ping 10.37.246.16
ping 10.37.246.29
ping 10.37.246.30
ping 10.37.246.31
ping 10.37.246.32
ping 10.37.246.33
```

Informer TCHAP DGFIP SNS BGP

Etape 4: Confirmation du basculement

Info RESEAU à IBM: Basculement effectué

11H30 Retour en nominal de ROU1, CHL1, TRS1

10/04 - 11H30 : RETOUR EN NOMINAL CHL1,ROU1, TRS1

Feu vert IBM à RESEAU: REtour en Nominal ROU1/TRS1/CHL1

Etape 1: Retrait des routes sur le fédérateur

Se connecter au fédérateur et retirer les routes :

```
undo ip route-static 10.37.238.20 255.255.255.255 192.168.212.33
```

```
undo ip route-static 10.37.238.30 255.255.255.255 192.168.212.33
undo ip route-static 10.37.238.50 255.255.255.255 192.168.212.33
undo ip route-static 10.37.225.120 255.255.255.255 192.168.212.33
undo ip route-static 10.37.225.210 255.255.255.255 192.168.212.33
undo ip route-static 10.37.225.180 255.255.255.255 192.168.212.33
undo ip route-static 10.37.225.170 255.255.255.255 192.168.212.33
```

Etape 2: Contrôle du retour en nominal

Jacques sur serveur FSECURE (Lille):

```
i=0;for word in $(cat tracetrs100421.txt); do let i+=1;traceroute -I
$word|grep 10.37.1.|sed -re "s/^.*(10.37.1... ).*$/"$i":"$word" - \1/p"|
uniq -c ; done
```

Seules les adresses des 3 partitions de production doivent revenir à Tours

Informer TCHAP DGFIP SNS BGP

Etape 3: Confirmation du retour en nominal

Info RESEAU à IBM: Retour en Nominal ROU1/TRS1/CHL1

15H00 Retour en nominal

10/04 - 15H00 : RETOUR EN NOMINAL

Feu vert IBM à RESEAU: Retour en Nominal

Etape 1: Retrait de toutes les routes

```
undo ip route-static 10.37.222.30 255.255.255.255 192.168.212.33
undo ip route-static 10.37.222.50 255.255.255.255 192.168.212.33
undo ip route-static 10.37.222.60 255.255.255.255 192.168.212.33
```

```
undo ip route-static 10.37.222.80 255.255.255.255 192.168.212.33
undo ip route-static 10.37.222.130 255.255.255.255 192.168.212.33
undo ip route-static 10.37.222.150 255.255.255.255 192.168.212.33
undo ip route-static 10.37.222.160 255.255.255.255 192.168.212.33
undo ip route-static 10.37.222.180 255.255.255.255 192.168.212.33
undo ip route-static 10.37.235.30 255.255.255.255 192.168.212.33
undo ip route-static 10.37.235.31 255.255.255.255 192.168.212.33
undo ip route-static 10.37.235.32 255.255.255.255 192.168.212.33
undo ip route-static 10.37.235.33 255.255.255.255 192.168.212.33

undo ip route-static 10.37.238.10 255.255.255.255 192.168.212.33
undo ip route-static 10.37.238.60 255.255.255.255 192.168.212.33
undo ip route-static 10.37.238.70 255.255.255.255 192.168.212.33
undo ip route-static 10.37.238.80 255.255.255.255 192.168.212.33
undo ip route-static 10.37.238.90 255.255.255.255 192.168.212.33
undo ip route-static 10.37.238.130 255.255.255.255 192.168.212.33

undo ip route-static 10.37.246.9 255.255.255.255 192.168.212.33
undo ip route-static 10.37.246.16 255.255.255.255 192.168.212.33
undo ip route-static 10.37.246.29 255.255.255.255 192.168.212.33
undo ip route-static 10.37.246.30 255.255.255.255 192.168.212.33
undo ip route-static 10.37.246.31 255.255.255.255 192.168.212.33
undo ip route-static 10.37.246.32 255.255.255.255 192.168.212.33
undo ip route-static 10.37.246.33 255.255.255.255 192.168.212.33
```

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Etape 2: Contrôle du retour en nominal

Jacques sur serveur FSECURE (Lille)

Contrôle par traceroute que toutes les routes vont vers Tours (10.37.1.??):

```
i=0;for word in $(cat tracetrs100421.txt); do let i+=1; r=0; until [ ${r} -
ge 3 ]; do let r+=1;traceroute -I $word|grep 10.37.1.17|sed -re
"s/^.*(10.37.1.17 ).*$/"$i":"$word" - \1/p"| uniq -c; done ; sleep 1 ; done
```

Contrôle par traceroute que plus aucune routes ne va vers Marseille (10.103.13.??):

```
 i=0;for word in $(cat tracetrs100421.txt); do let i+=1; r=0; until [ ${r} -
ge 3 ]; do let r+=1; traceroute $word|grep 10.103.13.|sed -re
"s/^.*(10.103.13.. ).*$/"$i":"$word" - \1/p"| uniq -c; done ; sleep 1 ; done
```

Toutes les routes doivent aller vers Tours

Informer TCHAP DGFIP SNS BGP

Etape 3: Confirmation du retour en nominal

Info RESEAU à IBM: Retour en Nominal