

Study Cases

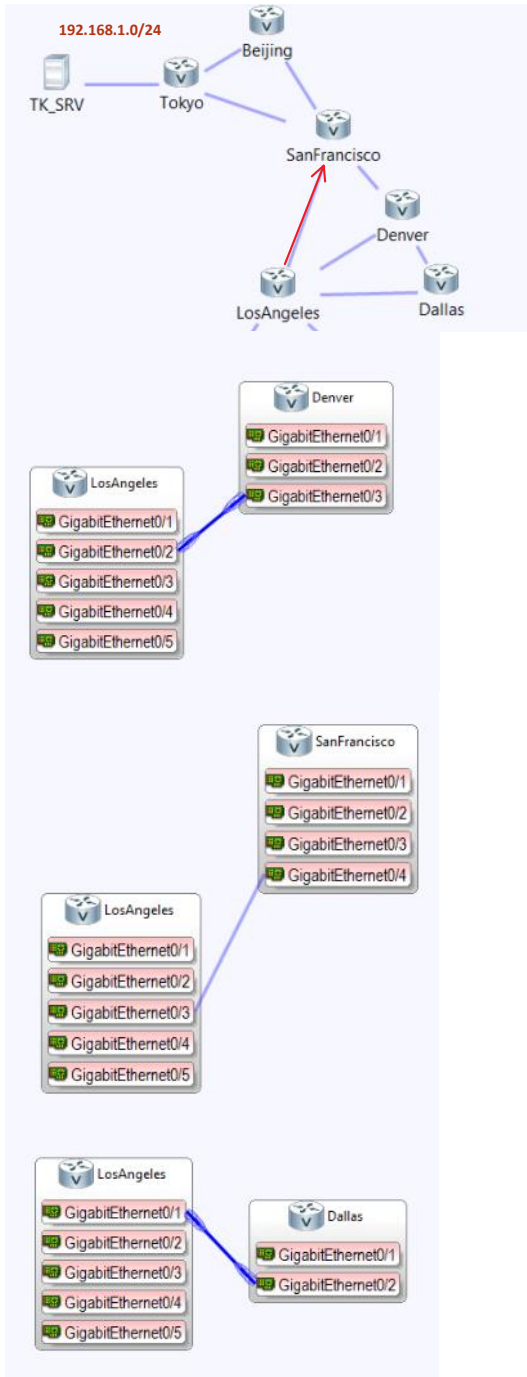
Case 1 EIGRP Path Selection

Router **LosAngeles** não está considerando os caminhos de **Denver** e **Dallas** como Feasible Sucessor para o Prefixo de Tokyo pois sua AD é maior que a FD de SanFrancisco (AD > FD)

Para o prefixo de Tokyo (192.168.1.0/24), o caminho como Sucessor é **SanFrancisco**

! Nosso objetivo é ativar esses 2 caminhos como Feasible Sucessors para serem usados imediatamente em caso de falha no caminho de SanFrancisco.

Perspectiva da Routing Table de LosAngeles:



```
P 192.168.1.0/24, 1 successors, FD is 111192746  
via 172.16.5.1 (111192746/110537386), GigabitEthernet0/3
```

Solução 1:

```

LosAngeles#conf t
Enter configuration commands, one per line. End with CNTL/Z.
LosAngeles(config)#inte
LosAngeles(config)#interface gi
LosAngeles(config)#interface gigabitEthernet 0/2
LosAngeles(config-if)#del
LosAngeles(config-if)#delay 100
LosAngeles(config-if)#exit
LosAngeles(config)#interface gigabitEthernet 0/3
LosAngeles(config-if)#del
LosAngeles(config-if)#delay 100
LosAngeles(config-if)#exit
LosAngeles(config)#interface gigabitEthernet 0/1
LosAngeles(config-if)#del
LosAngeles(config-if)#delay 30
LosAngeles(config-if)#

```

```

P 192.168.1.0/24, 1 successors, FD is 112503466
  via 172.16.8.2 (131508906/111848106), GigabitEthernet0/1
  via 172.16.5.1 (176073386/110537386), GigabitEthernet0/3
  via 172.16.6.1 (176728746/111192746), GigabitEthernet0/2

```

Solução 2 (Mais elegante) :) :

```

P 192.168.1.0/24, 1 successors, FD is 111192746
  via 172.16.5.1 (111192746/110537386), GigabitEthernet0/3

```

```

access-list 10 permit 192.168.1.0 0.0.0.255

```

```

router eigrp CN
!
address-family ipv4 unicast autonomous-system 10
!
  topology base
    offset-list 10 in 724500 GigabitEthernet0/3
    offset-list 10 in 644500 GigabitEthernet0/2
  exit-af-topology
  network 0.0.0.0
  eigrp router-id 10.5.5.5
exit-address-family

```

```

P 192.168.1.0/24, 1 successors, FD is 111917246
  via 172.16.5.1 (111917246/111261886), GigabitEthernet0/3
  via 172.16.8.2 (112503466/111848106), GigabitEthernet0/1
  via 172.16.6.1 (112492606/111837246), GigabitEthernet0/2

```

```

LosAngeles#traceroute 192.168.1.200
Type escape sequence to abort.
Tracing the route to 192.168.1.200
VRF info: (vrf in name/id, vrf out name/id)
 1 172.16.5.1 3 msec 3 msec 2 msec
 2 172.16.2.1 2 msec 4 msec 4 msec
 3 192.168.1.200 5 msec 4 msec 3 msec
LosAngeles#

```

```

LosAngeles#traceroute 192.168.1.200
*Jun 26 00:34:18.835: %DUAL-5-NBRCHANGE: EIGRP-IPv4 10: Neighbor 172.16.5.1 (GigabitEthernet0/3) is down: holding time expired
LosAngeles#traceroute 192.168.1.200
Type escape sequence to abort.
Tracing the route to 192.168.1.200
VRF info: (vrf in name/id, vrf out name/id)
 1 172.16.6.1 3 msec 3 msec 2 msec
 2 172.16.4.1 8 msec 5 msec 3 msec
 3 172.16.2.1 4 msec 4 msec 8 msec
 4 *
 192.168.1.200 4 msec *
LosAngeles#

```