R1

show interface e0/0

BW 10000 / 10 M

Eigrp 成本 FD

BW = 10^7 kbit ÷ interface bandwidth (kbit)

$10^7 \div 10^4 = 10^3$

DLY 1000 usec

delay = interface delay (usec) ÷ 10

$10^3 \div 10 = 10^2$

Metric = (BW * 256 + delay * 256)

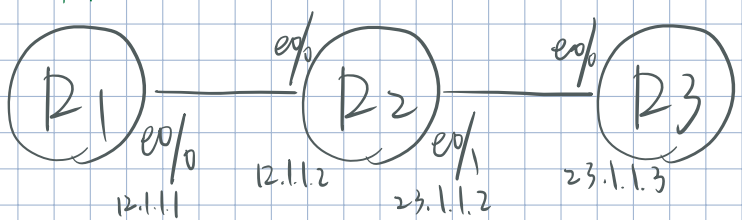
= (BW + delay) * 256

= (1000 + 100) × 256

= 1100 × 256

= 281600

5sec 送一次主包，确对方在不在



R1

int e0/0
ip addr 12.1.1.1 255.255.255.0
no shut

R2

int e0/0
ip addr 12.1.1.2 255.255.255.0
no shut
int e0/1
ip addr 23.1.1.2 255.255.255.0
no shut

R3

int e0/0
ip addr 23.1.1.3 255.255.255.0
no shut

R2 e0/0 开启主包

R1

router eigrp 94
network 12.1.1.0 0.0.0.255

R2

router eigrp 94
network 12.1.1.0 0.0.0.255
network 23.1.1.0 0.0.0.255

R3

router eigrp 94
network 23.1.1.0 0.0.0.255

R1 # show ip eigrp neighbors

查看網路拓撲表

show ip eigrp topology

show ip route

D 23.1.1.0 [90/30720]

AD FD成本

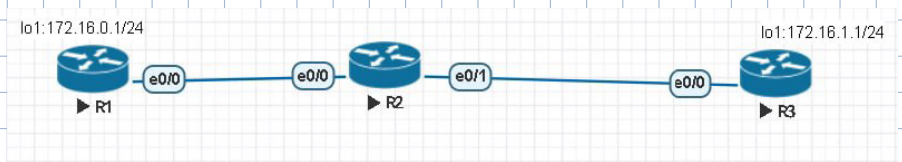
eigrp成本考量以頻寬、delay進行計算

假如有相同的路由協定，FD越小越優先

傳送端到目地端，有不同路由協定，要走哪條路徑，

AD值越小越優先

	AD值
static	1
eigrp	90
ospf	110
rip	120



問題 172.16.0.1 、172.16.1.1 在哪？ A: 會被合併 172.16.0.0

R1

```
# int lo1
# ip addr 172.16.0.1  255.255.255.0
# exit
# router eigrp 94
# network 172.16.0.0  0.0.0.255
```

R3

```
# int lo1
# ip addr 172.16.1.1  255.255.255.0
# exit
# router eigrp 94
# network 172.16.1.0  0.0.0.255
```

R2 # show ip route

合併 172.16.0.0

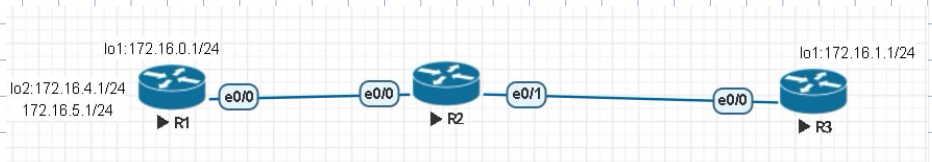
```
R1 # router eigrp 94
   # no auto-summary

R2 # router eigrp 94
   # no auto-summary

R3 # router eigrp 94
   # no auto-summary
```

R2 # show ip route

分開了



R1 不能直接在同一個介面設兩個 ip

int lo2
ip addr 172.16.4.1 255.255.255.0
ip addr 172.16.5.1 " secondary
do show ip int br

172.16.5.1 會蓋掉 172.16.4.1

do show ip int lo2

ping 172.16.4.1
ping 172.16.5.1

router eigrp 94
network 172.16.4.0 0.0.0.255
network 172.16.5.0 0.0.0.255

手動匯總

R1 # int e0/0
ip summary-address eigrp 94 172.16.4.0 255.255.254.0

R2 # show ip route

認證 Authentication

R1 # key chain Mychain
key 1
key-string 123456 設 passwd

R2 # key chain Mychain
key 1
key-string 123456

R1 # int e0/0
ip authentication key-chain eigrp 94 My Chain
ip authentication mode eigrp 94 md5

R2 # int e0/0
ip authentication key-chain eigrp 94 My Chain
ip authentication mode eigrp 94 md5