

7-5-1 RIP 繞路協定簡介(一)

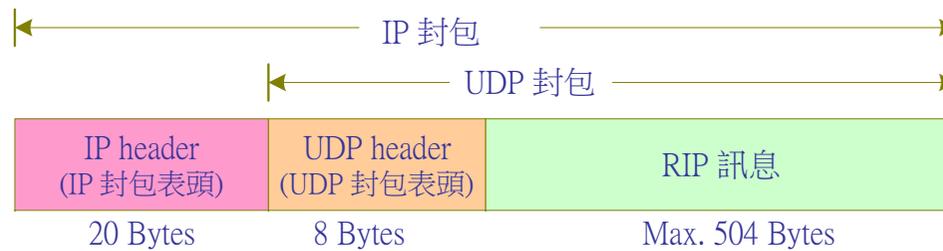


『路徑訊息協定』 (Routing Information Protocol, RIP)

◆ 『距離向量繞路法』 (Distance -Vector Routing)

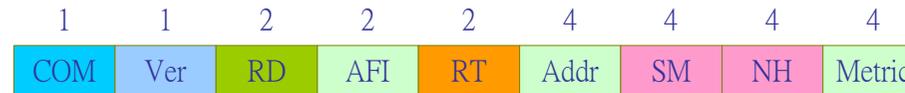
◆ RIPv2 訊息封裝

- 520/udp

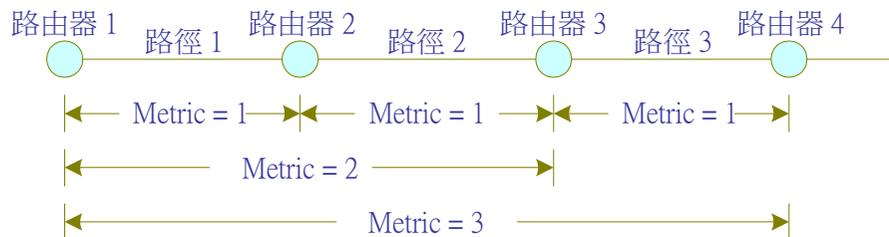
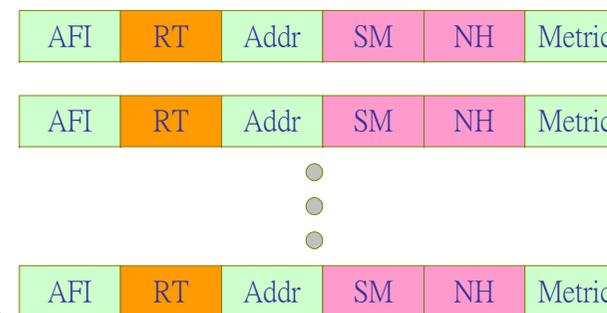


◆ RIPv2 訊息格式

- 路由網域 (RD)
- 路由標籤 (RT)
- 次網路遮罩 (SM)
- 下一路徑 (NH)
- 路由值 (Metric)



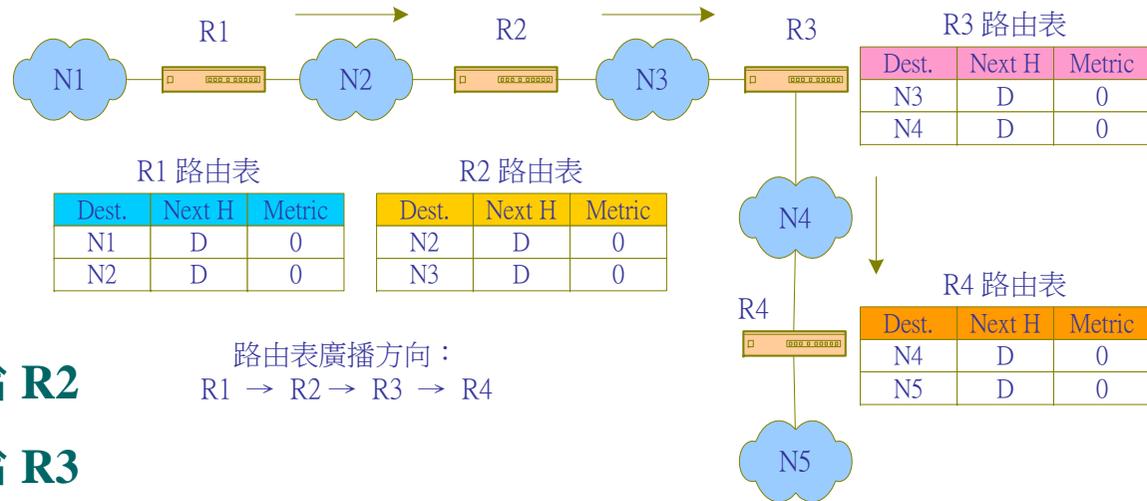
可增加至 25 筆路徑訊息



7-5-1 RIP 繞路協定簡介(二)

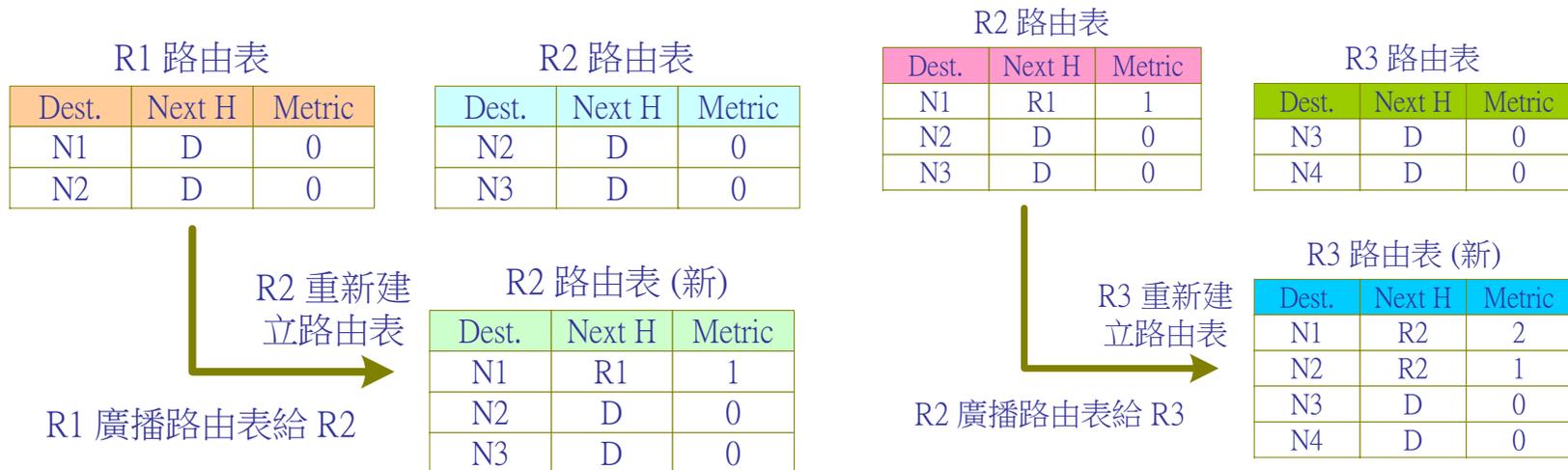


☀ RIP 運作範例



◆ R1 傳遞路由表給 R2

◆ R2 傳遞路由表給 R3



7-5-1 RIP 繞路協定簡介(三)



◆ R3 傳遞路由表給 R4

R3 路由表

Dest.	Next H	Metric
N1	R2	2
N2	R2	1
N3	D	0
N4	D	0

R4 路由表

Dest.	Next H	Metric
N4	D	0
N5	D	0

R4 路由表 (新)

Dest.	Next H	Metric
N1	R3	3
N2	R3	2
N3	R3	1
N4	D	0
N5	D	0

R4 重新建立路由表

R2 廣播路由表給 R3

