네트워크

■ PBR(Policy Based Routing)
- 라우팅보다 우선 적용

R1#traceroute 172.16.5.1

Type escape sequence to abort.
Tracing the route to 172.16.5.1

  1 10.1.1.2 16 msec 32 msec 32 msec
  2 10.1.23.1 60 msec 56 msec 52 msec
  3 10.1.34.2 60 msec 108 msec 104 msec
  4 10.1.45.1 108 msec 144 msec 92 msec

R1의 출발지가 1.0 대역은 그대로, 11.0은 위로 이동되도록 작업
R2(config)#access-list 1 permit host 192.168.11.1
R2(config)#route-map PBR permit 1
R2(config-route-map)#match ip address 1(access-list 번호)
R2(config-route-map)#set ip next-hop 10.1.24.1
R2(config-route-map)#int f0/0
R2(config-if)#ip policy route-map PBR

R1#traceroute 172.16.5.1 source 192.168.1.1

Type escape sequence to abort.
Tracing the route to 172.16.5.1

  1 10.1.1.2 20 msec 24 msec 36 msec
  2 10.1.23.1 44 msec 52 msec 44 msec
  3 10.1.34.2 76 msec 76 msec 96 msec
  4 10.1.45.1 104 msec 76 msec 132 msec
R1#traceroute 172.16.5.1 source 192.168.11.1

Type escape sequence to abort.
Tracing the route to 172.16.5.1

  1 10.1.1.2 16 msec 36 msec 28 msec
  2 10.1.24.1 40 msec 48 msec 28 msec
  3 10.1.45.1 64 msec 80 msec 76 msec

```
R1#traceroute 172.16.5.1 source 192.168.11.1

Type escape sequence to abort.
Tracing the route to 172.16.5.1

  1 10.1.1.2 28 msec 12 msec 40 msec
  2 10.1.24.1 64 msec 40 msec 56 msec
  3 10.1.45.1 100 msec 64 msec 120 msec



R2(config)#no access-list 1
R2(config)#no route-map PBR
R2(config)#access-list 1 permit 192.168.1.0 0.0.0.255
R2(config)#access-list 2 permit 192.168.11.0 0.0.0.255
R2(config)#route-map PBR permit 1
R2(config-route-map)#match ip address 1
R2(config-route-map)#set ip next-hop 10.1.24.1
R2(config-route-map)#exit
R2(config)#route-map PBR permit 2
R2(config-route-map)#match ip address 2
R2(config-route-map)#set ip next-hop 10.1.23.1
R2(config-route-map)#
R2#debug ip policy

R2#debug ip policy  //로그보기 시작
R2#un all           //로그보기 끄기

R2(config)#$ 100 permit  tcp host 10.1.1.1 host 172.16.5.1 eq telnet
R2(config)#route-map telnet permit 1
R2(config-route-map)#match ip address 100
R2(config-route-map)#set ip next-hop 10.1.24.1
R2(config-route-map)#exit
R2(config)#int f0/0
R2(config-if)#ip policy route-map telnet
R2(config-if)#exit
R2(config)#do sh route-map
route-map telnet, permit, sequence 1
  Match clauses:
    ip address (access-lists): 100
  Set clauses:
    ip next-hop 10.1.24.1
```

```
  Policy routing matches: 0 packets, 0 bytes
R2(config)#
```

■ 타입 변경

```
R2(config)#no access-list 100
R2(config)#no route-map telnet
R2(config)#int f0/0
R2(config-if)#no ip policy route-map telent

R1(config)#router ospf 100
R1(config-router)#no network 192.168.1.0 0.0.0.255 area 0
R1(config-router)#no network 192.168.11.0 0.0.0.255 area 0
R1(config-router)#exit
R1(config)#router ospf 100
R1(config-router)#redistribute connected subnets

R1(config-router)#no redistribute connected subnets
R1(config-router)#exit
R1(config)#access-list 11 permit 192.168.11.0 0.0.0.255
R1(config)#route-map type permit 1
R1(config-route-map)#match ip address 11
R1(config-route-map)#set metric-type type-1
R1(config-route-map)#ex
R1(config)#router ospf 100
R1(config-router)#redistribute connected subnets route-map type
R1(config)#route-map type permit 2
```

■Coast 값 변경

```
R1(config)#access-list 1 permit 192.168.1.0 0.0.0.255

R1(config)#access-list 1 permit 192.168.1.0 0.0.0.255
R1(config)#route-map type permit 2
R1(config-route-map)#match ip address 1
R1(config-route-map)#set metric 99

R2(config)#access-list 192.168.1.0 0.0.0.255
R2(config)#rout
R2(config)#route-map ping permit
R2(config-route-map)#match ip address 10
R2(config-route-map)#set ip next-
R2(config-route-map)#set ip next-hop 10.1.24.1
```

```
R2(config-route-map)#
```