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PBR Policy-Based Routing

IP/IPv6

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route-map

(PBR)

- route-map

PBR Policy-Based Routing

route-map

```
route-map pbr permit 10 // route-map pbr
match ip address 100 //match
set ip next-hop 13.1.1.1 //set match
```

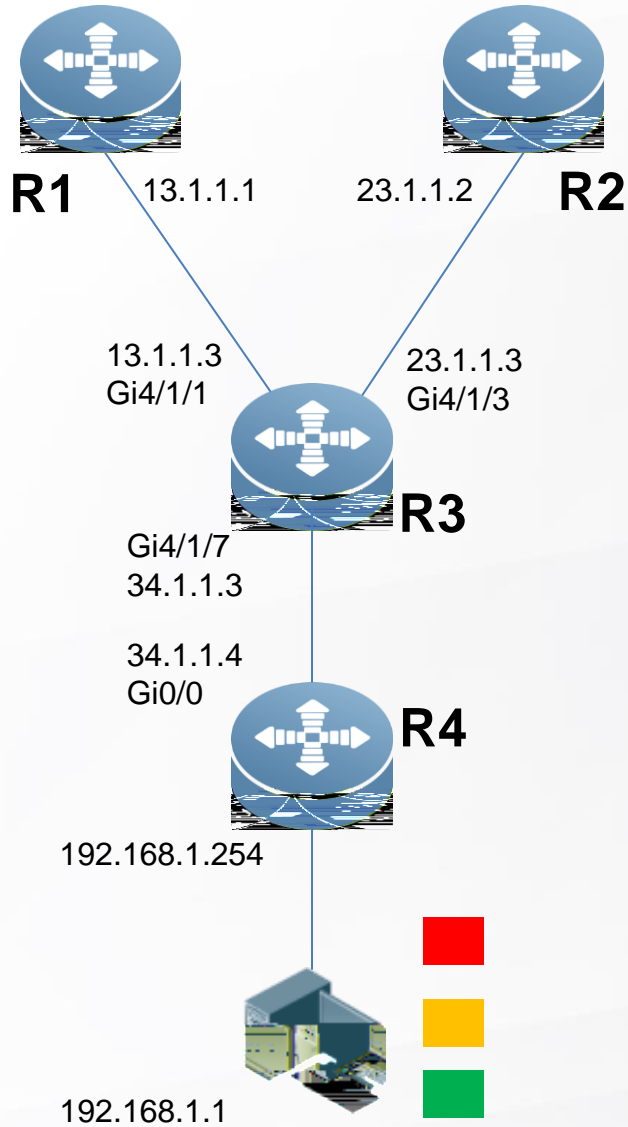
```
interface GigabitEthernet 4/1/7
ip policy route-map pbr // PBR in
```

↓

```
Gi4/1/7
ACL 100
13.1.1.1
```

```
route-map
set ( route-map
set
```

(PBR)



(PBR)

- 1 set ip next-hop set next-hop

set next-hop bgp

- 2

1

up

pbr

PBR

2

down

- 3

match

1

A

down

B

pbr

down

2

ip policy load-balance

- 4

route-map

deny

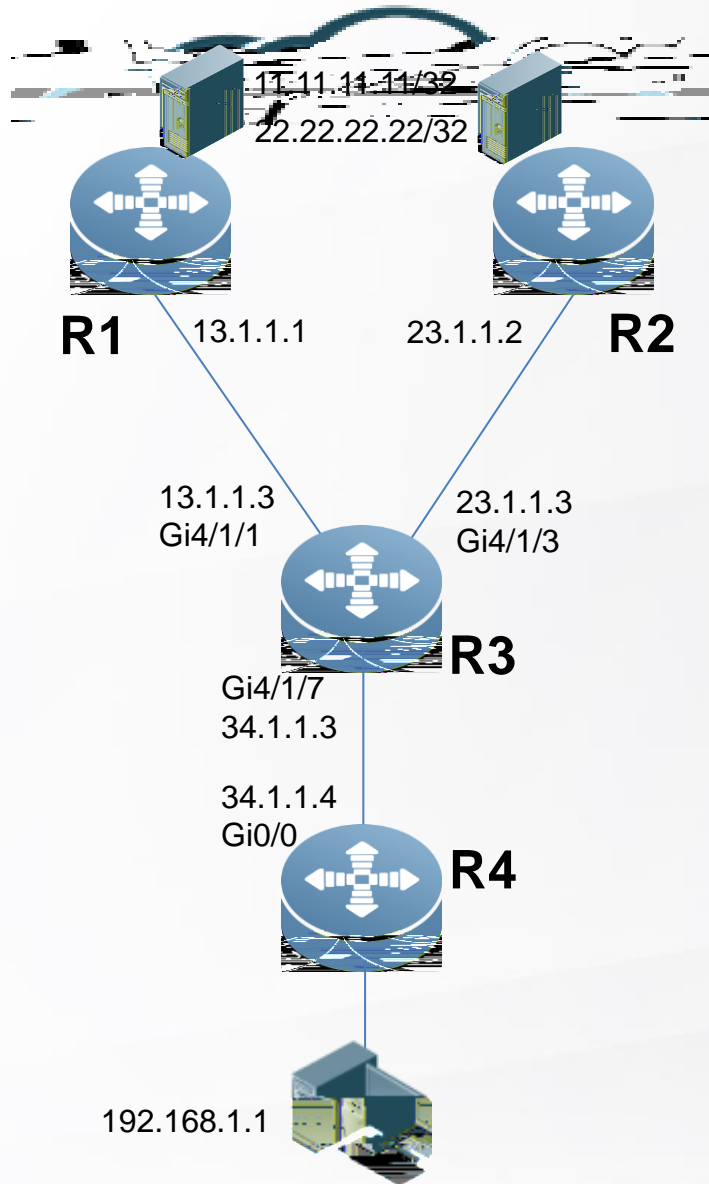
route-map pbrtest deny 10

match ip address 100 -----ACL100

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PBR



1 R3 2

MSTP

2 192.168.1.1

11.11.11.11/32

R1 R1

R2

3 22.22.22.22/32

R2 R2

R1

4

PBR

1

```
interface GigabitEthernet 4/1/1
 ip address 13.1.1.3 255.255.255.0
interface GigabitEthernet 4/1/3
 ip address 23.1.1.3 255.255.255.0
interface GigabitEthernet 4/1/7
 ip address 34.1.1.3 255.255.255.0
```

2

```
ip access-list extended 100
 10 permit ip host 192.168.1.1 host 11.11.11.11 // pc
```

PBR

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2 track _____

ip rns 1

icmp-echo 13.1.1.1 source-ipaddr 13.1.1.3 out-interface GigabitEthernet 4/1/1 next-hop 13.1.1.1

timeout 1000

frequency 2000

//

PBR

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2 track

ip rns 2

icmp-echo 23.1.1.2 source-ipaddr 23.1.1.3 out-interface GigabitEthernet 4/1/3 next-hop 23.1.1.2

timeout 1000

frequency 2000

// rns 2 23.1.1.2 23.1.1.3 gi4/1/3

2s 1s

track 2 rns 2

// track 2 rns 2

PBR

(

```
3 _____ route-map
route-map pbr permit 10 // pbr route-map
match ip address 100 // ACL100
set ip next-hop verify-availability 13.1.1.1 track 1 // 13.1.1.1 track1
set ip next-hop 23.1.1.2 // 23.1.1.2 13.1.1.1

route-map pbr permit 20 // pbr route-map
match ip address 101 //
```

PBR

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4

```
interface GigabitEthernet 4/1/7  
ip policy route-map pbr
```

5

```
ip route 0.0.0.0 0.0.0.0 13.1.1.1 track 1 // R1 track1  
ip route 0.0.0.0 0.0.0.0 23.1.1.2 100 // R2  
ip route 192.168.1.0 255.255.255.0 34.1.1.4 // PC
```

PBR

1 PC 11.11.11.11

2014e_r4#ping 11.11.11.11 source 192.168.1.1

Sending 5, 100-byte ICMP Echoes to 11.11.11.11, timeout is 2 seconds:

< press Ctrl+C to break >

!!!!

PBR

2 PC 22.22.22.22

2014e_r4#ping 22.22.22.22 source 192.168.1.1

Sending 5, 100-byte ICMP Echoes to 22.22.22.22, timeout is 2 seconds:

< press Ctrl+C to break >

!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 1/8/10 ms

2014e_r4#tra 22.22.22.22 source 192.168.1.1

< press Ctrl+C to break >

Tracing the route to 22.22.22.22

1 34.1.1.3 0 msec 0 msec 0 msec

2 23.1.1.2 0 msec 0 msec 0 msec

3 22.22.22.22 0 msec 10 msec 0 msec

2014e_r4#

PBR

3 R1 PC 11.11.11.11

PBR

1. route-map deny any

2. down

3. up

4. 3 track/bfd pbr

5. mstp 3 PBR

track ping

6. Ruijie(config)# ip local policy route-map *name*

THANKS

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