**设计实验1**

S1

Vlan 2

Port e1/0/1

Inter vlan 2

Ip add 21.0.0.2 8

Vlan 3

Port e1/0/24

Inter vlan 3

Ip add 10.0.0.1 8

Bgp 100

Peer 21.0.0.1 as 100

Peer 10.0.0.2 as 200

~~Peer 21.0.0.1 next-hop-local~~

Import-route direct

R1

Inter vlan e0/0

Ip add 21.0.0.1 8

Inter loop 1

Ip add 19.0.0.1 32

Bgp 100

Peer 21.0.0.2 as 100

Network 19.0.0.1 32

S2

Vlan 2

Port e1/0/1

Port e1/0/2

Inter vlan 2

Ip add 10.0.0.2 8

Inter loop 1

Ip add 18.0.0.1 32

Bgp 200

Peer 10.0.0.1 as 100

Peer 10.0.0.3 as 200

Network 18.0.0.1 32

~~Peer 10.0.0.3 next-hop-local~~

R2

Inter e0/0

Ip add 10.0.0.3 8

Inter loop 1

Ip add 20.0.0.1 32

Bgp 200

Peer 10.0.0.2 as 200

Network 20.0.0.1 32

**设计实验2**

S1

Inter e1/0/1

Ip add 11.2.1.2 16

Inter e1/0/24

Ip add 11.4.1.1 16

Inter loop 1

Ip add 3.3.3.3 32

Bgp 200

Peer 11.2.1.1 as 100

Peer 11.4.2.1 as 300

Network 3.3.3.3 32

Quit

Ip as-path 1 deny \b300$

Ip as-path 1 permit ^ $

Ip as-path 1 permit 400$

Bgp 200

Peer 11.2.1.1 as-path-acl 1 export

S2

Vlan 2

Port e1/0/24

Ip add 11.4.1.2 16

Inter vlan 1

ip add 11.3.1.2 16

inter loop 1

ip add 4.4.4.4 32

inter loop 2

ip add 11.4.2.1 24

bgp 300

peer 11.4.1.1 as 200

peer 11.3.1.1 as 400

network 11.4.2.1 32

R1

Inter e0/0

Ip add 11.2.1.1 16

Inter loop 1

Ip add 1.1.1.1 32

Inter loop 2

Ip add 10.1.1.1 32

Bgp 100

Peer 11.2.1.2 as 200

Network 10.1.1.1 32

Network 1.1.1.1 32

R2

Inter loop 1

Ip add 2.2.2.2 32

Inter e0/0

Ip add 11.3.1.1 16

Bgp 400

Peer 11.3.1.2 as 300

Network 2.2.2.2 32

**设计实验3**

S1

vlan 2

port e1/0/1

inter vlan 2

ip addr 10.0.0.2 24

vlan 3

port e1/0/24

inter vlan 3

ip addr 20.0.0.1 24

bgp 100

peer 10.0.0.1 as-number 200

peer 20.0.0.2 as-number 100

peer 20.0.0.2 next-hop-local

default local-preference 10

S2

vlan 2

port e1/0/24

inter vlan 2

ip addr 30.0.0.1 24

vlan 3

port e1/0/1

inter vlan 3

ip addr 20.0.0.2 24

inter loop1

ip addr 19.0.0.1 32

bgp 100

peer 30.0.0.2 as-number 100

peer 20.0.0.1 as-number 100

network 19.0.0.1 32

R1

Inter e0/0

Ip addr 10.0.0.1 24

Inter s1/0

Ip addr 40.0.0.2 24  
inter loop1

Ip addr 18.0.0.1 32

bgp 200

peer 10.0.0.2 as-number 100

peer 40.0.0.1 as-number 100

network 18.0.0.1 32

R2

Inter e0/0

Ip addr 30.0.0.2 24

Inter s1/0

Ip addr 40.0.0.1 24  
bgp 100

peer 40.0.0.2 as-number 200

peer 30.0.0.1 as-number 100

peer 30.0.0.1 next-hop-local

default med 10