# AS2

## S7

system-view

sysname S7

port-group 1

group-member g0/0/1 to g0/0/24

port link-type access

quit

int loop 0

ip add 2.2.1.7 32

int vlan 1

ip add 165.2.2.254 24

quit

router id 2.2.1.7

ospf 1

area 0

network 165.2.0.0 0.0.255.255

network 2.2.1.7 0.0.0.0

## S8

system-view

sysname S8

port-group 1

group-member g0/0/1 to g0/0/24

port link-type access

quit

vlan 2

port g0/0/2

int loop 0

ip add 2.2.1.8 32

int vlan 1

ip add 165.2.3.254 24

int vlan 2

ip add 192.168.0.1 24

quit

router id 2.2.1.8

ospf 1

area 0

network 165.2.0.0 0.0.255.255

network 192.168.0.1 0.0.0.255

network 2.2.1.8 0.0.0.0

## R17

System-view

Sysname R17

Int G0/0/0

Ip add 165.0.0.233 30

Int G0/0/1

Ip add 165.2.2.17 24

Int G0/0/2

Ip add 165.2.3.17 24

Int loop 0

Ip add 2.1.1.17 32

Quit

Acl 2001

rule permit source 192.168.0.250 0.0.0.255

rule deny source any

quit

route-policy permit\_192\_deny\_any permit node 10

if-match acl 2001

apply cost 100

Router id 2.1.1.17

ospf 1

area 0

network 165.2.0.0 0.0.255.255

network 2.1.1.17 0.0.0.0

default-route-advertise always type 2

import-route bgp

quit

quit

bgp 2

peer 165.0.0.234 as-n 4

group as2-peer-group internal

peer 2.1.1.15 group as2-peer-group

peer 2.1.1.16 group as2-peer-group

peer 2.1.1.18 group as2-peer-group

peer as2-peer-group connect-interface L0

ipv4-family unicast

default local-preference 100

peer as2-peer-group enable

peer as2-peer-group next-hop-local

## R18

System-view

Sysname R18

Int G0/0/2

Ip add 165.2.3.18 24

Int G0/0/1

Ip add 165.2.2.18 24

Int G0/0/0

Ip add 165.0.0.229 30

Int loop 0

Ip add 2.1.1.18 32

Quit

Acl 2001

rule permit source 192.168.0.250 0.0.0.255

rule deny source any

quit

route-policy permit\_192\_deny\_any permit node 10

if-match acl 2001

apply cost 100

Router id 2.1.1.18

ospf 1

area 0

network 165.2.0.0 0.0.255.255

network 2.1.1.18 0.0.0.0

default-route-advertise always type 2

import-route bgp

quit

quit

bgp 2

peer 165.0.0.230 as-n 4

group as2-peer-group internal

peer 2.1.1.15 group as2-peer-group

peer 2.1.1.16 group as2-peer-group

peer 2.1.1.17 group as2-peer-group

peer as2-peer-group connect-interface L0

ipv4-family unicast

default local-preference 300

peer as2-peer-group enable

peer as2-peer-group next-hop-local

# AS4

## S9

system-view

sysname S9

port-group 1

group-member g0/0/1 to g0/0/24

port link-type access

quit

vlan 3

port g0/0/3

port g0/0/4

vlan 5

port g0/0/5

int loop 0

ip add 4.2.1.9 32

int vlan 1

ip add 165.4.4.9 24

int vlan 3

ip add 165.4.2.9 24

int vlan 5

ip add 165.4.0.249 24

quit

router id 4.2.1.9

ospf 1

area 0

network 165.4.0.0 0.0.255.255

network 4.2.1.9 0.0.0.0

int vlan 1

ospf cost 100

int vlan 3

ospf cost 100

int vlan 5

ospf cost 200

## S10

system-view

sysname S10

port-group 1

group-member g0/0/1 to g0/0/24

port link-type access

quit

vlan 3

port g0/0/3

port g0/0/4

vlan 5

port g0/0/5

int loop 0

ip add 4.2.1.10 32

int vlan 1

ip add 165.4.5.10 24

int vlan 3

ip add 165.4.3.10 24

int vlan 5

ip add 165.4.0.250 24

quit

router id 4.2.1.10

ospf 1

area 0

network 165.4.0.0 0.0.255.255

network 4.2.1.10 0.0.0.0

int vlan 1

ospf cost 150

int vlan 3

ospf cost 100

int vlan 5

ospf cost 200

## S11

system-view

sysname S11

port-group 1

group-member g0/0/1 to g0/0/24

port link-type access

quit

int vlan 1

ip add 165.4.10.2 24

int loop 0

ip add 4.2.1.11 32

quit

router id 4.2.1.11

ospf 1

area 1

network 165.4.0.0 0.0.255.255

network 4.2.1.11 0.0.0.0

## S12

system-view

sysname S12

port-group 1

group-member g0/0/1 to g0/0/24

port link-type access

quit

int vlan 1

ip add 165.4.12.2 24

int loop 0

ip add 4.2.1.12 32

quit

router id 4.2.1.12

ospf 1

area 2

network 165.4.0.0 0.0.255.255

network 4.2.1.12 0.0.0.0

## S13

system-view

sysname S13

port-group 1

group-member g0/0/1 to g0/0/24

port link-type access

quit

int vlan 1

ip add 165.4.11.2 24

int loop 0

ip add 4.2.1.13 32

quit

router id 4.2.1.13

ospf 1

area 1

network 165.4.0.0 0.0.255.255

network 4.2.1.13 0.0.0.0

## S14

system-view

sysname S14

port-group 1

group-member g0/0/1 to g0/0/24

port link-type access

quit

int vlan 1

ip add 165.4.13.2 24

int loop 0

ip add 4.2.1.14 32

quit

router id 4.2.1.14

ospf 1

area 2

network 165.4.0.0 0.0.255.255

network 4.2.1.14 0.0.0.0

## R19

System-view

Sysname R19

Int G0/0/2

Ip add 165.0.0.234 30

Int G0/0/1

Ip add 165.4.3.19 24

Int G0/0/0

Ip add 165.4.2.19 24

Int loop 0

Ip add 4.1.1.19 32

Quit

Router id 4.1.1.19

ospf 1

area 0

network 165.4.0.0 0.0.255.255

network 4.1.1.19 0.0.0.0

default-route-advertise always type 2

quit

quit

bgp 4

peer 165.0.0.233 as-n 2

group as4-peer-group internal

peer 4.1.1.20 group as4-peer-group

peer as4-peer-group connect-interface L0

ipv4-family unicast

aggregate 4.0.0.0 255.0.0.0 detail-suppressed

aggregate 165.4.0.0 255.255.0.0 detail-suppressed

default local-preference 200

peer 165.0.0.233 enable

peer as4-peer-group enable

peer as4-peer-group next-hop-local

quit

acl 2001

rule permit source 165.4.123.1 0.0.0.0

rule permit source 165.4.10.2 0.0.0.255

rule permit source 165.4.11.2 0.0.0.255

rule permit source 165.4.12.2 0.0.0.255

rule permit source 165.4.13.2 0.0.0.255

rule deny source any

quit

route-policy permit\_123\_deny\_any permit node 20

if-match acl 2001

apply cost 100

quit

bgp 4

import-route ospf 1 med 200 route-policy permit\_123\_deny\_any

Int G0/0/1

Ospf cost 200

Int G0/0/0

Ospf cost 200

## R20

System-view

Sysname R20

Int G0/0/2

Ip add 165.0.0.230 30

Int G0/0/1

Ip add 165.4.2.20 24

Int G0/0/0

Ip add 165.4.3.20 24

Int loop 0

Ip add 4.1.1.20 32

Quit

Router id 4.1.1.20

ospf 1

area 0

network 165.4.2.0 0.0.0.255

network 165.4.3.0 0.0.0.255

network 4.1.1.20 0.0.0.0

default-route-advertise always type 2

quit

quit

bgp 4

peer 165.0.0.229 as-n 2

group as4-peer-group internal

peer 4.1.1.19 group as4-peer-group

peer as4-peer-group connect-interface L0

ipv4-family unicast

aggregate 4.0.0.0 255.0.0.0 detail-suppressed

aggregate 165.4.0.0 255.255.0.0 detail-suppressed

peer 165.0.0.229 enable

peer as4-peer-group enable

peer as4-peer-group next-hop-local

default local-preference 300

quit

acl 2001

rule permit source 165.4.123.1 0.0.0.0

rule permit source 165.4.10.2 0.0.0.255

rule permit source 165.4.11.2 0.0.0.255

rule permit source 165.4.12.2 0.0.0.255

rule permit source 165.4.13.2 0.0.0.255

rule deny source any

quit

route-policy permit\_123\_deny\_any permit node 20

if-match acl 2001

apply cost 100

quit

bgp 4

import-route ospf 1 med 100 route-policy permit\_123\_deny\_any

Int G0/0/1

Ospf cost 50

Int G0/0/0

Ospf cost 100

## R21

System-view

Sysname R21

Int G0/0/1

Ip add 165.4.5.21 24

Int G0/0/0

Ip add 165.4.4.21 24

Int s1/0/0

Ip add 165.4.6.21 24

Int s1/0/1

Ip add 165.4.7.21 24

Int loop 0

Ip add 4.1.1.21 32

Quit

Router id 4.1.1.21

ospf 1

area 0

network 165.4.4.0 0.0.0.255

network 165.4.5.0 0.0.0.255

network 4.1.1.21 0.0.0.0

area 1

network 165.4.6.0 0.0.0.255

area 2

network 165.4.7.0 0.0.0.255

Int G0/0/1

Ospf cost 200

Int G0/0/0

Ospf cost 100

quit

quit

## R22

System-view

Sysname R22

Int G0/0/1

Ip add 165.4.4.22 24

Int G0/0/0

Ip add 165.4.5.22 24

Int s1/0/0

Ip add 165.4.8.22 24

Int s1/0/1

Ip add 165.4.9.22 24

Int loop 0

Ip add 4.1.1.22 32

Quit

Router id 4.1.1.22

ospf 1

area 0

network 165.4.4.0 0.0.0.255

network 165.4.5.0 0.0.0.255

network 4.1.1.22 0.0.0.0

area 1

network 165.4.8.0 0.0.0.255

area 2

network 165.4.9.0 0.0.0.255

Int G0/0/1

Ospf cost 200

Int G0/0/0

Ospf cost 100

quit

quit

## R23

System-view

Sysname R23

Int G0/0/1

Ip add 165.4.11.23 24

Int G0/0/0

Ip add 165.4.10.23 24

Int s1/0/0

Ip add 165.4.6.23 24

Int loop 0

Ip add 4.1.1.23 32

Int loop 1

Ip add 165.4.123.1 32

Quit

Router id 4.1.1.23

ospf 1

area 1

network 165.4.0.0 0.0.255.255

network 4.1.1.23 0.0.0.0

quit

quit

acl 3001

rule deny ip source 165.4.10.0 0.0.0.255 destination 165.4.1.0 0.0.254.255

rule permit ip source any

quit

acl 3002

rule deny ip source 165.4.1.0 0.0.254.255 destination 165.4.10.0 0.0.0.255

quit

firewall zone inter

pri 10

quit

firewall zone outer

pri 5

quit

int g 0/0/0

zone inter

int g0/0/1

zone outer

int s1/0/0

zone outer

quit

firewall interzone inter outer

firewall enable

packet-filter 3002 inbound

packet-filter 3001 outbound

## R24

System-view

Sysname R24

Int G0/0/1

Ip add 165.4.11.24 24

Int G0/0/0

Ip add 165.4.10.24 24

Int s1/0/0

Ip add 165.4.8.24 24

Int loop 0

Ip add 4.1.1.24 32

Quit

Router id 4.1.1.24

ospf 1

area 1

network 165.4.0.0 0.0.255.255

network 4.1.1.24 0.0.0.0

quit

quit

acl 3001

rule deny ip source 165.4.11.0 0.0.0.255 destination 165.4.0.0 0.0.254.255

rule permit ip source any

quit

acl 3002

rule deny ip source 165.4.0.0 0.0.254.255 destination 165.4.11.0 0.0.0.255

quit

firewall zone inter

pri 10

quit

firewall zone outer

pri 5

quit

int g 0/0/0

zone inter

int g0/0/1

zone outer

int s1/0/0

zone outer

quit

firewall interzone inter outer

firewall enable

packet-filter 3002 inbound

packet-filter 3001 outbound

## R25

System-view

Sysname R25

Int G0/0/1

Ip add 165.4.13.25 24

Int G0/0/0

Ip add 165.4.12.25 24

Int s1/0/0

Ip add 165.4.7.25 24

Int loop 0

Ip add 4.1.1.25 32

Quit

Router id 4.1.1.25

ospf 1

area 2

network 165.4.0.0 0.0.255.255

network 4.1.1.25 0.0.0.0

quit

quit

acl 3001

rule deny ip source 165.4.12.0 0.0.0.255 destination 165.4.1.0 0.0.254.255

rule permit ip source any

quit

acl 3002

rule deny ip source 165.4.1.0 0.0.254.255 destination 165.4.12.0 0.0.0.255

quit

firewall zone inter

pri 10

quit

firewall zone outer

pri 5

quit

int g 0/0/1

zone outer

int g0/0/0

zone inter

int s1/0/0

zone outer

quit

firewall interzone inter outer

firewall enable

packet-filter 3002 inbound

packet-filter 3001 outbound

## R26

System-view

Sysname R26

Int G0/0/1

Ip add 165.4.13.26 24

Int G0/0/0

Ip add 165.4.12.26 24

Int s1/0/0

Ip add 165.4.9.26 24

Int loop 0

Ip add 4.1.1.26 32

Quit

Router id 4.1.1.26

ospf 1

area 2

network 165.4.0.0 0.0.255.255

network 4.1.1.26 0.0.0.0

quit

quit

acl 3001

rule deny ip source 165.4.13.0 0.0.0.255 destination 165.4.0.0 0.0.254.255

rule permit ip source any

quit

acl 3002

rule deny ip source 165.4.0.0 0.0.254.255 destination 165.4.13.0 0.0.0.255

quit

firewall zone inter

pri 10

quit

firewall zone outer

pri 5

quit

int g 0/0/1

zone inter

int g0/0/0

zone outer

int s1/0/0

zone outer

quit

firewall interzone inter outer

firewall enable

packet-filter 3002 inbound

packet-filter 3001 outbound