rt15 (R2)

```
sys
sysname rt15
router id 2.1.1.15
interface GigabitEthernet0/0/0
ip address 95.0.0.254 255.255.255.252
 interface GigabitEthernet0/0/1
 ip address 95.2.2.15 255.255.255.0
 interface GigabitEthernet0/0/2
 ip address 95.2.3.15 255.255.255.0
interface LoopBack0
 ip address 2.1.1.15 255.255.255.255
interface LoopBack1
 ip address 192.168.2.15 255.255.255.255
 auit
ip ip-prefix permit_snmp_in index 10 permit 192.168.2.0 24
ip ip-prefix permit_snmp_out index 10 permit 192.168.1.0 24
ip ip-prefix permit_snmp_out index 20 permit 192.168.3.0 24
ip ip-prefix permit_export index 10 permit 95.4.126.242 32
ip ip-prefix permit_export index 20 permit 192.168.2.0 24
ip ip-prefix permit_export index 30 permit 95.4.10.0 24
ip ip-prefix permit_export index 40 permit 95.4.11.0 24
ip ip-prefix permit_export index 50 permit 95.4.12.0 24
ip ip-prefix permit_export index 60 permit 95.4.13.0 24
 route-policy import_ospf permit node 10
 if-match ip-prefix permit_snmp_in
route-policy import_bgp permit node 10
if-match ip-prefix permit_snmp_out
 bgp 2
 peer 95.0.0.253 as-number 1
 group as2 internal
 peer as2 connect-interface LoopBack0
 peer 2.1.1.16 as-number 2
 peer 2.1.1.16 group as2
 peer 2.1.1.17 as-number 2
 peer 2.1.1.17 group as2
```

```
peer 2.1.1.18 as-number 2
peer 2.1.1.18 group as2
 undo synchronization
 default local-preference 200
 import-route ospf 1 route-policy import_ospf
 peer 95.0.0.253 enable
 peer 95.0.0.253 ip-prefix permit_export export
 peer as2 enable
 peer as2 next-hop-local
 peer 2.1.1.16 enable
 peer 2.1.1.16 group as2
 peer 2.1.1.17 enable
 peer 2.1.1.17 group as2
 peer 2.1.1.18 enable
 peer 2.1.1.18 group as2
 quit
ospf 1
import-route bgp route-policy import_bgp
area 0.0.0.0
 network 2.1.1.15 0.0.0.0
 network 192.168.2.15 0.0.0.0
 network 95.2.0.0 0.0.255.255
 quit
 quit
```

rt16 (S2)

```
sys
sysname rt16
router id 2.1.1.16
interface GigabitEthernet0/0/0
ip address 95.0.0.250 255.255.255.252
interface GigabitEthernet0/0/1
ip address 95.2.2.16 255.255.255.0
interface GigabitEthernet0/0/2
ip address 95.2.3.16 255.255.255.0
interface LoopBackO
 ip address 2.1.1.16 255.255.255.255
interface LoopBack1
ip address 192.168.2.16 255.255.255.255
ip ip-prefix permit_snmp_in index 10 permit 192.168.2.0 24
ip ip-prefix permit_snmp_out index 10 permit 192.168.1.0 24
ip ip-prefix permit_snmp_out index 20 permit 192.168.3.0 24
ip ip-prefix permit_export index 10 permit 95.4.126.242 32
ip ip-prefix permit_export index 20 permit 192.168.2.0 24
ip ip-prefix permit_export index 30 permit 95.4.10.0 24
```

```
ip ip-prefix permit_export index 40 permit 95.4.11.0 24
ip ip-prefix permit_export index 50 permit 95.4.12.0 24
ip ip-prefix permit_export index 60 permit 95.4.13.0 24
route-policy import_ospf permit node 10
if-match ip-prefix permit_snmp_in
route-policy import_bgp permit node 10
if-match ip-prefix permit_snmp_out
bgp 2
 peer 95.0.0.249 as-number 1
 group as2 internal
 peer as2 connect-interface LoopBack0
 peer 2.1.1.15 as-number 2
 peer 2.1.1.15 group as2
 peer 2.1.1.17 as-number 2
 peer 2.1.1.17 group as2
 peer 2.1.1.18 as-number 2
 peer 2.1.1.18 group as2
  undo synchronization
  import-route ospf 1 route-policy import_ospf
  peer 95.0.0.249 enable
  peer 95.0.0.249 ip-prefix permit_export export
  peer as2 enable
  peer as2 next-hop-local
  peer 2.1.1.15 enable
  peer 2.1.1.15 group as2
  peer 2.1.1.17 enable
  peer 2.1.1.17 group as2
  peer 2.1.1.18 enable
  peer 2.1.1.18 group as2
  quit
ospf 1
 import-route bgp route-policy import_bgp
 area 0.0.0.0
  network 2.1.1.16 0.0.0.0
  network 192.168.2.16 0.0.0.0
  network 95.2.0.0 0.0.255.255
  quit
  quit
```

LSW7

```
sys
sysn ls7
inter g0/0/1
port link-type access
inter g0/0/2
port link-type access
```

```
inter g0/0/3
port link-type access
vlan 2
port g0/0/1
port g0/0/2
port g0/0/3
inter vlan 2
ip add 95.2.2.254 24
inter loop1
ip add 192.168.2.7 32
router id 2.2.1.7
ospf
area 0
network 95.2.2.0 0.0.0.255
network 192.168.2.7 0.0.0.0
quit
quit
```

LSW8

```
sys
sysn 1s8
inter g0/0/1
port link-type access
inter g0/0/2
port link-type access
inter g0/0/3
port link-type access
inter g0/0/4
port link-type access
vlan 2
port g0/0/4
inter vlan 2
ip add 192.168.2.1 24
vlan 3
port g0/0/1
port g0/0/2
port g0/0/3
inter vlan3
ip add 95.2.3.254 24
inter loop1
ip add 192.168.2.8 32
quit
router id 2.2.1.8
ospf
area 0
network 95.2.3.0 0.0.0.255
network 192.168.2.0 0.0.0.255
network 192.168.2.8 0.0.0.0
```

```
sys
sysn rt17
inter g4/0/0
ip add 95.0.0.233 30
inter g0/0/0
ip add 95.2.2.17 24
inter g0/0/1
ip add 95.2.3.17 24
inter loop1
ip add 192.168.2.17 32
inter loop0
ip add 2.1.1.17 32
quit
router id 2.1.1.17
ip ip-prefix permit_snmp_in index 10 permit 192.168.2.0 24
ip ip-prefix permit_snmp_out index 10 permit 192.168.4.0 24
ip ip-prefix permit_export index 10 permit 172.16.1.0 24
ip ip-prefix permit_export index 20 permit 95.3.112.242 32
ip ip-prefix permit_export index 30 permit 192.168.2.0 24
route-policy import_ospf permit node 10
if-match ip-prefix permit_snmp_in
route-policy import_bgp permit node 10
if-match ip-prefix permit_snmp_out
ospf
import-route bgp route-policy import_bgp
area 0
network 2.1.1.17 0.0.0.0
network 95.2.2.0 0.0.0.255
network 95.2.3.0 0.0.0.255
network 192.168.2.17 0.0.0.0
quit
quit
bgp 2
peer 95.0.0.234 as-number 4
group as2 internal
peer as2 connect-interface loop0
peer 2.1.1.15 as-number 2
peer 2.1.1.15 group as2
peer 2.1.1.16 as-number 2
peer 2.1.1.16 group as2
peer 2.1.1.18 as-number 2
peer 2.1.1.18 group as2
undo synchronization
```

```
network 192.168.2.0
import-route ospf 1 route-policy import_ospf
peer 95.0.0.234 enable
peer 95.0.0.234 ip-prefix permit_export export
peer as2 enable
peer as2 next-hop-local
peer 2.1.1.15 enable
peer 2.1.1.16 group as2
peer 2.1.1.16 enable
peer 2.1.1.18 group as2
peer 2.1.1.18 group as2
```

```
sys
sysn rt18
inter g4/0/0
ip add 95.0.0.229 30
inter g0/0/1
ip add 95.2.2.18 24
inter g0/0/0
ip add 95.2.3.18 24
inter loop0
ip add 2.1.1.18 32
inter loop1
ip add 192.168.2.18 32
quit
router id 2.1.1.18
ip ip-prefix permit_snmp_in index 10 permit 192.168.2.0 24
ip ip-prefix permit_snmp_out index 10 permit 192.168.4.0 24
ip ip-prefix permit_export index 10 permit 172.16.1.0 24
ip ip-prefix permit_export index 20 permit 95.3.112.242 32
ip ip-prefix permit_export index 30 permit 192.168.2.0 24
route-policy import_ospf permit node 10
if-match ip-prefix permit_snmp_in
route-policy import_bgp permit node 10
if-match ip-prefix permit_snmp_out
import-route bgp route-policy import_bgp
area 0
network 2.1.1.18 0.0.0.0
  network 95.2.0.0 0.0.255.255
```

```
network 192.168.2.18 0.0.0.0
quit
quit
bgp 2
peer 95.0.0.230 as-number 4
group as2 internal
 peer as2 connect-interface LoopBack0
 peer 2.1.1.15 as-number 2
 peer 2.1.1.15 group as2
 peer 2.1.1.16 as-number 2
 peer 2.1.1.16 group as2
 peer 2.1.1.17 as-number 2
 peer 2.1.1.17 group as2
  undo synchronization
  network 192.168.2.0
  default local-preference 200
  import-route ospf 1 route-policy import_ospf
  peer 95.0.0.230 enable
  peer 95.0.0.230 ip-prefix permit_export export
  peer as2 enable
  peer as2 next-hop-local
  peer 2.1.1.15 enable
  peer 2.1.1.15 group as2
  peer 2.1.1.16 enable
  peer 2.1.1.16 group as2
  peer 2.1.1.17 enable
  peer 2.1.1.17 group as2
quit
quit
```

AS4

```
sys
sysn rt19
inter g4/0/0
ip add 95.0.0.234 30
inter g0/0/0
ip add 95.4.2.19 24
inter g0/0/1
ip add 95.4.3.19 24
inter loop0
ip add 4.1.1.19 32
inter loop1
ip add 192.168.4.19 32
```

```
quit
router id 4.2.1.19
ip ip-prefix permit_users index 10 permit 95.4.10.0 24
ip ip-prefix permit_users index 20 permit 95.4.11.0 24
ip ip-prefix permit_users index 30 permit 95.4.12.0 24
ip ip-prefix permit_users index 40 permit 95.4.13.0 24
ip ip-prefix permit_inet index 10 permit 172.16.1.0 24
ip ip-prefix permit_voip_in index 10 permit 95.4.126.242 32
ip ip-prefix permit_voip_out index 10 permit 95.3.112.242 32
ip ip-prefix permit_snmp_out index 10 permit 192.168.2.0 24
route-policy import_bgp permit node 10
if-match ip-prefix permit_inet
route-policy import_bgp permit node 20
if-match ip-prefix permit_voip_out
route-policy import_bgp permit node 30
if-match ip-prefix permit_snmp_out
route-policy import_ospf permit node 10
if-match ip-prefix permit_users
route-policy import_ospf permit node 20
if-match ip-prefix permit_voip_in
route-policy import_ospf permit node 30
if-match ip-prefix permit_snmp_in
ospf 1
 import-route bgp cost 2 route-policy import_bgp
 preference ase 255
 area 0.0.0.0
  network 4.1.1.19 0.0.0.0
  network 192.168.4.19 0.0.0.0
  network 95.4.0.0 0.0.255.255
quit
quit
bgp 4
 peer 95.0.0.233 as-number 2
 group as4 internal
 peer as4 connect-interface LoopBackO
 peer 4.1.1.20 as-number 4
 peer 4.1.1.20 group as4
  undo synchronization
  aggregate 192.168.4.0 255.255.255.0 detail-suppressed
  network 192.168.4.0
  import-route ospf 1 route-policy import_ospf
  peer 95.0.0.233 enable
  peer as4 enable
```

```
peer 4.1.1.20 enable
peer 4.1.1.20 group as4
quit
```

```
sys
sysn rt20
inter g4/0/0
ip add 95.0.0.230 30
inter g0/0/1
ip add 95.4.2.20 24
inter g0/0/0
ip add 95.4.3.20 24
interface LoopBack0
ip address 4.1.1.20 255.255.255.255
interface LoopBack1
 ip address 192.168.4.20 255.255.255.255
quit
router id 4.1.1.20
ip ip-prefix permit_users index 10 permit 95.4.10.0 24
ip ip-prefix permit_users index 20 permit 95.4.11.0 24
ip ip-prefix permit_users index 30 permit 95.4.12.0 24
ip ip-prefix permit_users index 40 permit 95.4.13.0 24
ip ip-prefix permit_inet index 10 permit 172.16.1.0 24
ip ip-prefix permit_voip_in index 10 permit 95.4.126.242 32
ip ip-prefix permit_voip_out index 10 permit 95.3.112.242 32
ip ip-prefix permit_snmp_out index 10 permit 192.168.2.0 24
route-policy import_bgp permit node 10
if-match ip-prefix permit_inet
route-policy import_bgp permit node 20
if-match ip-prefix permit_voip_out
route-policy import_bgp permit node 30
if-match ip-prefix permit_snmp_out
route-policy import_ospf permit node 10
if-match ip-prefix permit_users
route-policy import_ospf permit node 20
if-match ip-prefix permit_voip_in
route-policy import_ospf permit node 30
if-match ip-prefix permit_snmp_in
ospf 1
```

```
import-route bgp route-policy import_bgp
 preference ase 255
 area 0.0.0.0
  network 4.1.1.20 0.0.0.0
  network 192.168.4.20 0.0.0.0
  network 95.4.0.0 0.0.255.255
quit
quit
bgp 4
peer 95.0.0.229 as-number 2
group as4 internal
 peer as4 connect-interface LoopBack0
 peer 4.1.1.19 as-number 4
 peer 4.1.1.19 group as4
  undo synchronization
  default local-preference 200
  aggregate 192.168.4.0 255.255.255.0 detail-suppressed
  network 192.168.4.0
  import-route ospf 1 route-policy import_ospf
  peer 95.0.0.229 enable
  peer as4 enable
  peer 4.1.1.19 enable
  peer 4.1.1.19 group as4
 quit
```

ls9

```
sys
sysn 1s9
inter g0/0/1
port link-type access
inter g0/0/2
port link-type access
inter g0/0/3
port link-type access
inter g0/0/4
port link-type access
inter g0/0/5
port link-type access
vlan 2
port g0/0/3
port g0/0/4
inter vlan 2
ip add 95.4.2.9 24
vlan 3
port g0/0/5
inter vlan 3
ip add 95.4.0.249 24
vlan 4
port g0/0/1
port g0/0/2
```

```
inter vlan 4
ip add 95.4.4.9 24
interface LoopBack1
ip address 192.168.4.9 255.255.255
quit

router id 4.2.1.9
ospf 1
    area 0.0.0.0
    network 95.4.0.0 0.0.255.255
    network 192.168.4.9 0.0.0.0
quit
quit
```

Is10

```
sys
sysn 1s10
inter g0/0/1
port link-type access
inter g0/0/2
port link-type access
inter g0/0/3
port link-type access
inter g0/0/4
port link-type access
inter g0/0/5
port link-type access
vlan 2
port g0/0/3
port g0/0/4
inter vlan 2
ip add 95.4.3.10 24
vlan 3
port g0/0/5
inter vlan 3
ip add 95.4.0.250 24
vlan 4
port g0/0/1
port g0/0/2
inter vlan 4
ip add 95.4.5.10 24
interface LoopBack1
ip address 192.168.4.10 255.255.255.255
quit
router id 4.2.1.10
ospf 1
area 0.0.0.0
  network 95.4.0.0 0.0.255.255
  network 192.168.4.10 0.0.0.0
quit
```

```
sys
sysn rt21
inter g0/0/0
ip add 95.4.4.21 24
inter g0/0/1
ip add 95.4.5.21 24
inter S4/0/1
ip add 95.4.7.21 24
link-protocol ppp
shutdown
undo shutdown
inter S4/0/0
ip add 95.4.6.21 24
link-protocol ppp
shutdown
undo shutdown
interface LoopBack1
ip address 192.168.4.21 255.255.255.255
quit
router id 4.1.1.21
ospf 1
area 0.0.0.0
  network 192.168.4.21 0.0.0.0
 network 95.4.0.0 0.0.255.255
quit
quit
```

```
sys
sysn rt22
inter g0/0/0
ip add 95.4.5.22 24
inter g0/0/1
ip add 95.4.4.22 24
inter 54/0/1
ip add 95.4.9.22 24
link-protocol ppp
shutdown
undo shutdown
inter S4/0/0
ip add 95.4.8.22 24
link-protocol ppp
shutdown
undo shutdown
```

```
interface LoopBack1
  ip address 192.168.4.22 255.255.255
quit

router id 4.1.1.22
  ospf
  ospf 1
    area 0.0.0.0
    network 192.168.4.22 0.0.0.0
    network 95.4.0.0 0.0.255.255
quit
quit
```

```
sys
sysn rt23
inter g0/0/0
ip add 95.4.10.23 24
vrrp vrid 1 virtual-ip 95.4.10.1
inter g0/0/1
ip add 95.4.11.23 24
vrrp vrid 2 virtual-ip 95.4.11.1
inter S4/0/0
ip add 95.4.6.23 24
link-protocol ppp
shutdown
undo shutdown
interface LoopBackO
ip address 95.4.126.242 255.255.255.255
interface LoopBack1
 ip address 192.168.4.23 255.255.255.255
quit
router id 4.1.1.23
ospf 1
 area 0.0.0.0
  network 192.168.4.23 0.0.0.0
  network 95.4.0.0 0.0.255.255
  network 95.4.126.242 0.0.0.0
quit
quit
```

```
sys
sysn rt24
inter g0/0/0
ip add 95.4.10.24 24
vrrp vrid 1 virtual-ip 95.4.10.1
```

```
inter g0/0/1
ip add 95.4.11.24 24
vrrp vrid 2 virtual-ip 95.4.11.1
inter S4/0/0
ip add 95.4.8.24 24
link-protocol ppp
shutdown
undo shutdown
interface LoopBack1
ip address 192.168.4.24 255.255.255.255
quit
router id 4.1.1.24
ospf 1
 area 0.0.0.0
 network 192.168.4.24 0.0.0.0
  network 95.4.0.0 0.0.255.255
quit
quit
```

```
sys
sysn rt25
inter g0/0/0
ip add 95.4.12.25 24
vrrp vrid 1 virtual-ip 95.4.12.1
inter g0/0/1
ip add 95.4.13.25 24
vrrp vrid 2 virtual-ip 95.4.13.1
inter S4/0/0
ip add 95.4.7.25 24
link-protocol ppp
shutdown
undo shutdown
interface LoopBack1
ip address 192.168.4.25 255.255.255.255
quit
router id 4.1.1.25
ospf 1
 area 0.0.0.0
  network 192.168.4.25 0.0.0.0
  network 95.4.0.0 0.0.255.255
quit
quit
```

```
sys
sysn rt26
```

```
inter g0/0/0
ip add 95.4.12.26 24
vrrp vrid 1 virtual-ip 95.4.12.1
inter g0/0/1
ip add 95.4.13.26 24
vrrp vrid 2 virtual-ip 95.4.13.1
inter S4/0/0
ip add 95.4.9.26 24
link-protocol ppp
shutdown
undo shutdown
interface LoopBack1
ip address 192.168.4.26 255.255.255.255
quit
router id 4.1.1.26
ospf 1
area 0.0.0.0
 network 192.168.4.26 0.0.0.0
 network 95.4.0.0 0.0.255.255
quit
quit
```