Typical Configuration Of BGP Route Reflector on AR28、AR46 Series Routers

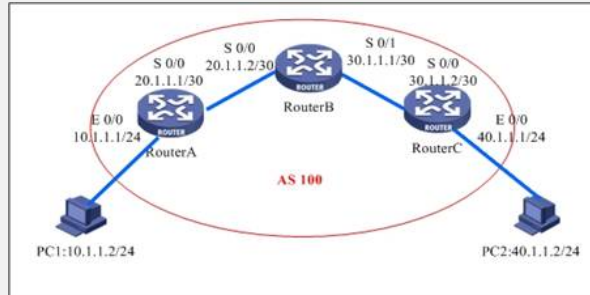沈杨豪 2007-09-19 发表

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[Requirements]

Routers A,B and C are located in AS 100. Router B is the route reflector (RR).

[Networking diagram]

[Configuration script]

Configuration script on Router A
| ```
#
sysname RouterA
#
router id 1.1.1.1      /Configure the router ID to be the same as loopback 0/
#
radius scheme system
#
domain system
#
interface Ethernet0/0
ip address 10.1.1.1 255.255.255.0
#
interface Serial0/0
link-protocol ppp
ip address 20.1.1.1 255.255.255.252
#
interface NULL0
#
interface LoopBack0
ip address 1.1.1.1 255.255.255.255
#
bgp 100                    /Configure the BGP in AS 100/
undo synchronization           /Configure asynchronization/
group in internal            /Configure group in/
peer in connect-interface LoopBack0
peer 1.1.1.2 group in            /Specify an IBGP peer/
#
ospf 1
area 0.0.0.0
network 1.1.1.1 0.0.0.0
network 20.1.1.0 0.0.0.3
#
user-interface con 0
user-interface vty 0 4
#
return
``` |
| **Configuration script on Router B** |

```
#
sysname RouterB
#
router id 1.1.1.2          /Configure the router ID to be the same as loopback 0/
#
radius scheme system
#
domain system
#
interface Seria0/0
link-protocol ppp
ip address 20.1.1.2 255.255.255.252
#
interface Serial0/1
link-protocol ppp
ip address 30.1.1.1 255.255.255.252
#
interface NULL0
#
interface LoopBack0
ip address 1.1.1.2 255.255.255.255
#
bgp 100                    /Configure the BGP in AS 100/
undo synchronization            /Configure asynchronization/
group in internal          /Configure group in/
peer in reflect-client          /Set the peer group to the client of route reflect
or/
peer in connect-interface LoopBack0
peer 1.1.1.1 group in           /Specify an IBGP peer/
peer 1.1.1.3 group in           /Specify an IBGP peer/
#
ospf 1
area 0.0.0.0
network 1.1.1.2 0.0.0.0
network 20.1.1.0 0.0.0.3
network 30.1.1.0 0.0.0.3
#
user-interface con 0
user-interface vty 0 4
#
return
```

Configuration script on Router C

```
#
sysname RouterC
#
router id 1.1.1.3     /Configure the router ID to be the same as loopback 0/
#
radius scheme system
#
domain system
#
interface Ethernet0/0
ip address 40.1.1.1 255.255.255.0
#
interface Serial0/0
link-protocol ppp
ip address 30.1.1.2 255.255.255.252
#
interface NULL0
#
interface LoopBack0
ip address 1.1.1.3 255.255.255.255
#
#
bgp 100                /Configure the BGP in AS 100/
undo synchronization            /Configure asynchronization/
group in internal          /Configure group in/
peer in connect-interface LoopBack0
peer 1.1.1.2 group in           /Specify an IBGP peer/
#
ospf 1
area 0.0.0.0
network 1.1.1.3 0.0.0.0
network 30.1.1.0 0.0.0.3
#
user-interface con 0
user-interface vty 0 4
#
return
```

[Verification]

Establish IBGP peer relationships between Routers B and A and between Routers B

and C. No IBGP peer relationship is established between Router A and Router C.

[RouterB]disp bgp peer

```
Peer      AS-num Ver Queued-Tx  Msg-Rx   Msg-Tx  Up/Down  State
-------------------------------------------------------------------------
1.1.1.1    100   4    0          23       25       00:22:10 Established
1.1.1.3    100   4    0          7        8        00:05:36 Established
```

[Tip]

The configuration of route reflector differs only on the reflector, but not the client.