NE80/NE40系列路由器IPv6过渡技术6PE的配置

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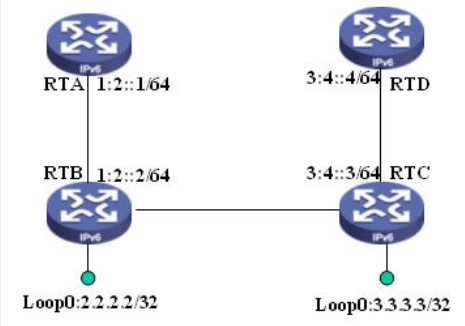
一、组网需求：

在一个已经部署了MPLS的IPv4骨干网上，ISP可以利用6PE（IPv6 Provider Edge）技术为分散用户的IPv6网络提供互连的能力。6PE就是具备IPv6能力的PE，在6PE上需要启动IPv4、MPLS和IPv6。本例利用MPLS骨干网来建立隧道连接两个IPv6孤岛（用两台路由器RTA与RTD来模拟）。RTB与RTC为NE40，版本Version 5.30, RELEASE 0228。

二、组网图：



三、配置步骤：

1.RTA的配置：

```
ipv6
 int g1/0/0
   ipv6 address 1:2::1 64
   undo shutdown
 ipv6 route 0::0 0 1:2::2
```

2.RTB的配置：

```
 ipv6
 interface loopback0
   ip addr 2.2.2.2 32
mpls lsr-id 2.2.2.2
 mpls
  lsp-trigger all
 mpls ldp
int g1/0/0
   ipv6 address 1:2::2 64
int ethernet1/0/0
   ip address 10.2.3.2 24
mpls
   mpls ldp
 bgp 100
    router-id  2.2.2.2
    peer 3.3.3.3 as-number 100
    peer 3.3.3.3 connect loopback0
ipv6-family
    import-route direct
    peer 3.3.3.3 enable
    peer 3.3.3.3 label-route-capability
  ospf 2
    router-id 2.2.2.2
   area 0
    network 10.2.3.0 0.0.0.255
    network 2.2.2.2 0.0.0.0
```

3.RTC的配置：

```
 ipv6
mpls lsr-id 3.3.3.3
 mpls
```

```
  lsp-trigger all
 mpls ldp
 interface loopback0
 ip address 3.3.3.3 32
int g1/0/0
   ipv6 address 3:4::3 64
   undo shutdown
int ethernet1/0/0
   ip address 10.2.3.3 24
   undo shutdown
mpls
   mpls ldp
 bgp 100
    router-id 3.3.3.3
    peer 2.2.2.2 as-number 100
    peer 2.2.2.2 connect loopback0
ipv6-family
    import-route direct
    peer 2.2.2.2 enable
    peer 2.2.2.2 label-route-capability
  ospf 3
    router-id  3.3.3.3
   area 0
    network 10.2.3.0 0.0.0.255
    network 3.3.3.3 0.0.0.0
```

4.RTD的配置:

```
ipv6
 ipv6 route 0::0 0 3:4::3
int g1/0/0
ipv6 address 3:4::4 64
undo shutdown
```

四、配置关键点:

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