

MSR路由器 MPLS基本功能配置

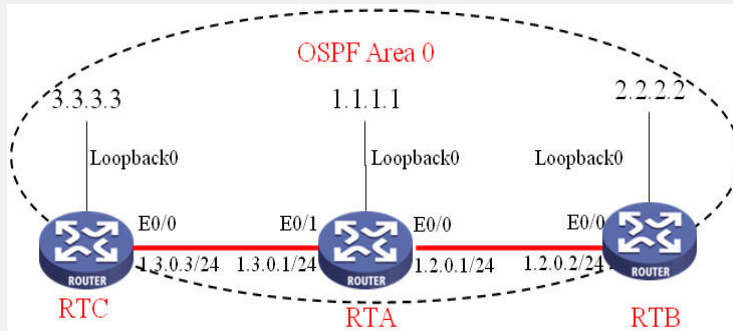
关键词: MSR;MPLS;LDP

一、组网需求:

实现网络部分流量走MPLS标签转发

设备清单: MSR路由器3台

二、组网图:



三、配置步骤:

适用设备和版本: MSR、Version 5.20, Beta 1105后所有版本。

RTC配置

```
#
router id 3.3.3.3 //BGP的router id
#
mpls lsr-id 3.3.3.3 //MPLS的LSR-ID
#
mpls //全局使能MPLS
#
mpls ldp //全局使能MPLS LDP
#
interface Ethernet0/0
port link-mode route
ip address 1.3.0.3 255.255.255.0
mpls //接口使能MPLS
mpls ldp //接口使能MPLS LDP
#
interface LoopBack0 //router id 和 MPLS LSR-ID
ip address 3.3.3.3 255.255.255.255
#
ospf 1 //OSPF保证全网互通
area 0.0.0.0
network 3.3.3.3 0.0.0.0
network 1.3.0.0 0.0.0.255
```

RTA配置

```
#
router id 1.1.1.1 //BGP的router id
#
mpls lsr-id 1.1.1.1 //MPLS的LSR-ID
#
mpls //使能MPLS
#
mpls ldp //全局使能MPLS LDP
#
interface Ethernet0/0
```

```
port link-mode route
ip address 1.2.0.1 255.255.255.0
mpls          //接口使能MPLS
mpls ldp      //接口使能MPLS LDP
#
interface Ethernet0/1
port link-mode route
ip address 1.3.0.1 255.255.255.0
mpls          //接口使能MPLS
mpls ldp      //接口使能MPLS LDP
#
interface LoopBack0    //router id 和 MPLS LSR-ID
ip address 1.1.1.1 255.255.255.255
#
ospf 1                //OSPF保证全网互通
area 0.0.0.0
network 1.1.1.1 0.0.0.0
network 1.3.0.0 0.0.0.255
network 1.2.0.0 0.0.0.255
#
```

RTB配置

```
#
router id 2.2.2.2      //BGP的router id
#
mpls lsr-id 2.2.2.2    //MPLS的LSR ID
#
mpls                  //全局使能MPLS
#
mpls ldp              //全局使能MPLS LDP
#
interface Ethernet0/0
port link-mode route
ip address 1.2.0.2 255.255.255.0
mpls                  //接口使能MPLS
mpls ldp              //接口使能MPLS LDP
#
interface LoopBack0    //router id 和 MPLS LSR-ID
ip address 2.2.2.2 255.255.255.255
#
ospf 1
area 0.0.0.0
network 2.2.2.2 0.0.0.0
network 1.2.0.0 0.0.0.255
#
```

四、配置关键点：

router id和mpls lsr-id最好都使用同一个Loopback口的地址，在保证OSPF连通性的情况下在路由器全局和接口视图下都使能MPLS和MPLS LDP。