

MSR路由器

MPLS IPTN功能的配置

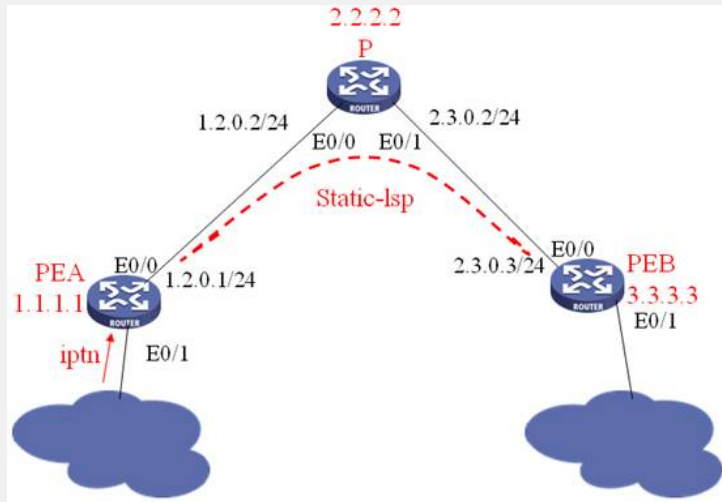
关键字: MSR;MPLS;Static-lsp;IPTN

一、组网需求:

PEA、P、PEB建立一条PEA到PEB的静态LSP，PEA上配置将携带IPTN标签的流量引入静态LSP

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。

```

PEA配置
#
router id 1.1.1.1
#
mpls lsr-id 1.1.1.1
#
mpls
#
interface Ethernet0/0
port link-mode route
description connects to p
ip address 1.2.0.1 255.255.255.0
mpls
#
interface Ethernet0/1
port link-mode route
description iptn
ip address 1.0.0.1 255.255.255.0
mpls
#
interface LoopBack0
ip address 1.1.1.1 255.255.255.255
#
ospf 1
area 0.0.0.0
network 1.1.1.1 0.0.0.0
network 1.2.0.0 0.0.0.255
#
//定义一条静态ingress LSP，目标是PEB的环回地址
static-lsp ingress slsp destination 3.3.3.3 32 next-hop 1.2.0.2 out-label 100
//定义iptn引入标签
iptn iptnA binding static-lsp-name slsp label 50
#

P配置

```

```

#
router id 2.2.2.2
#
mpls lsr-id 2.2.2.2
#
mpls
#
interface Ethernet0/0
port link-mode route
description connects to peA
ip address 1.2.0.2 255.255.255.0
mpls
#
interface Ethernet0/1
port link-mode route
description connects to peB
ip address 2.3.0.2 255.255.255.0
mpls
#
interface LoopBack0
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
network 2.3.0.0 0.0.0.255
#
//建立一条静态transit LSP
static-lsp transit slsp incoming-interface Ethernet0/0 in-label 100 nexthop 2.3.0.3 o
ut-label 200
#

```

PEB配置

```

#
router id 3.3.3.3
#
mpls lsr-id 3.3.3.3
#
mpls
#
interface LoopBack0
ip address 3.3.3.3 255.255.255.255
#
interface Ethernet0/0
port link-mode route
description connects to p
ip address 2.3.0.3 255.255.255.0
mpls
#
interface Ethernet0/1
port link-mode route
description iptn
mpls
#
ospf 1
area 0.0.0.0
network 3.3.3.3 0.0.0.0
network 2.3.0.0 0.0.0.255
#
//定义一条静态egress LSP
static-lsp egress slsp incoming-interface Ethernet0/0 in-label 200
#

```

四、配置关键点:

- 1) MPLS网络的静态LSP配置需要前后匹配;
- 2) PEA各个接口都需要使能MPLS, 以接收IPTN流量。