

知 MSR路由器MPLS IPTN功能的配置

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MSR路由器

MPLS IPTN功能的配置

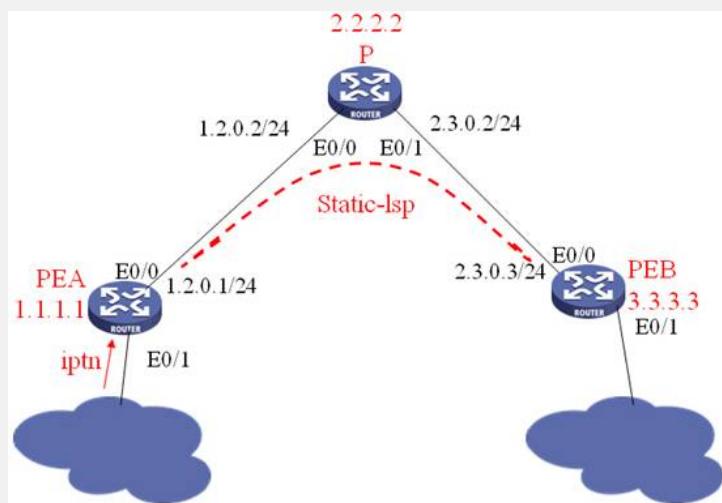
关键字: MSR;MPLS;Static-lsp;IPTN

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 nexthop 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
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 outgoing-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
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。