

### SR6600路由器 MPLS L3VPN 及 OSPF多实例配置

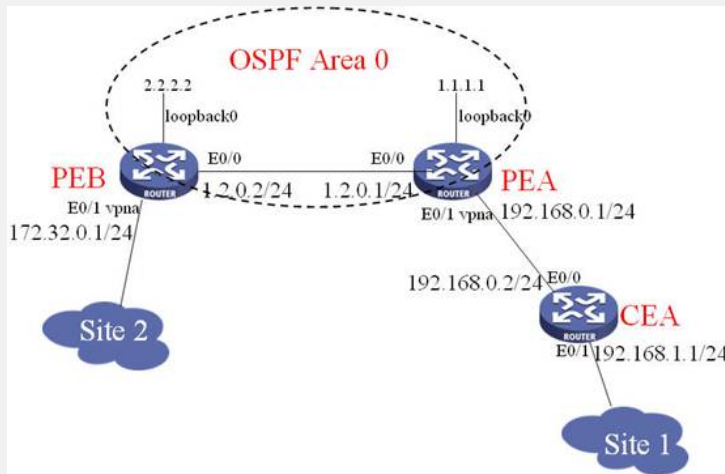
关键词: SR66;MPLS;BGP;VPN;OSPF多实例

#### 一、组网需求:

2台PE各接着一个vpna的站点, PEA连接vpna站点1出口CEA, PEA与CEA通过OSPF多实例学习CEA下挂站点路由

设备清单: SR6600路由器3台

#### 二、组网图:



#### 三、配置步骤:

设备和版本: SR6600、Version 5.20, Release 2315

##### CEA配置:

```
interface Ethernet0/0
port link-mode route
ip address 192.168.0.2 255.255.255.0
#
```

```
interface Ethernet0/1
port link-mode route
ip address 192.168.1.1 255.255.255.0
#
```

```
ospf 1
area 0.0.0.0
network 192.168.0.0 0.0.0.255
network 192.168.1.0 0.0.0.255
#
```

##### PEA配置:

```
router id 1.1.1.1
#
ip vpn-instance vpna
route-distinguisher 1:1
vpn-target 1:1 export-extcommunity
vpn-target 1:1 import-extcommunity
#
mpls lsr-id 1.1.1.1
#
mpls
#
mpls ldp
#
```

```
interface Ethernet0/0
port link-mode route
ip address 1.2.0.1 255.255.255.0
mpls
mpls ldp
#
interface Ethernet0/1
port link-mode route
ip binding vpn-instance vpna
ip address 192.168.0.1 255.255.255.0
#
interface LoopBack0
ip address 1.1.1.1 255.255.255.255
#
bgp 1
undo synchronization
group 1 internal
peer 1 connect-interface LoopBack0
peer 2.2.2.2 group 1
#
ipv4-family vpv4
peer 1 enable
peer 2.2.2.2 enable
peer 2.2.2.2 group 1
#
ipv4-family vpn-instance vpna
network 192.168.0.0
import-route ospf 2
#
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
#
ospf 2 router-id 192.168.0.1 vpn-instance vpna
import-route bgp
area 0.0.0.0
network 192.168.0.0 0.0.0.255
#
PEB配置:
#
router id 2.2.2.2
#
ip vpn-instance vpna
route-distinguisher 2:1
vpn-target 1:1 export-extcommunity
vpn-target 1:1 import-extcommunity
#
mpls lsr-id 2.2.2.2
#
mpls
#
mpls ldp
#
interface Ethernet0/0
port link-mode route
ip address 1.2.0.2 255.255.255.0
mpls
mpls ldp
#
interface Ethernet0/1
port link-mode route
ip binding vpn-instance vpna
ip address 172.32.0.1 255.255.255.0
```

```
#
interface LoopBack0
ip address 2.2.2.2 255.255.255.255
#
bgp 1
undo synchronization
peer 1.1.1.1 as-number 1
peer 1.1.1.1 connect-interface LoopBack0
#
ipv4-family vpv4
peer 1.1.1.1 enable
#
ipv4-family vpn-instance vpna
import-route direct
#
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：

1. PEA上配置需要注意OSPF进程2的配置；
2. PEA的BGP和OSPF进程2的vpn路由要互相引入。