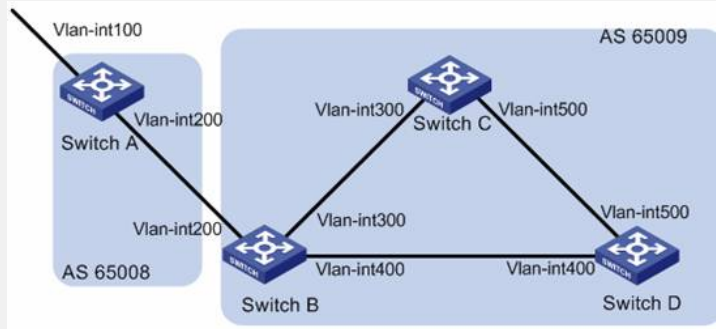


### H3C S3500-EA IPv4 BGP基本配置

#### 一、组网需求:

如图所示,所有交换机均运行BGP协议,Switch A和Switch B之间建立EBGP连接,Switch B、Switch C和Switch D之间建立IBGP全连接。

#### 二、组网图:



设备	接口	IP地址	设备	接口	IP地址
Switch A	Vlan-int100	8.1.1.1/8	Switch D	Vlan-int400	9.1.1.2/24
	Vlan-int200	200.1.1.2/24		Vlan-int500	9.1.2.2/24
Switch B	Vlan-int400	9.1.1.1/24	Switch C	Vlan-int500	9.1.2.1/24
	Vlan-int200	200.1.1.1/24		Vlan-int300	9.1.3.2/24
	Vlan-int300	9.1.3.1/24			

#### 三、配置步骤:

(1) 配置各交换机接口的IP地址(略)

(2) 配置IBGP连接

# 配置Switch B。

```
<SwitchB> system-view
[SwitchB] bgp 65009
[SwitchB-bgp] router-id 2.2.2.2
[SwitchB-bgp] peer 9.1.1.2 as-number 65009
[SwitchB-bgp] peer 9.1.3.2 as-number 65009
[SwitchB-bgp] quit
```

# 配置Switch C。

```
<SwitchC> system-view
[SwitchC] bgp 65009
[SwitchC-bgp] router-id 3.3.3.3
[SwitchC-bgp] peer 9.1.3.1 as-number 65009
[SwitchC-bgp] peer 9.1.2.2 as-number 65009
[SwitchC-bgp] quit
```

# 配置Switch D。

```
<SwitchD> system-view
[SwitchD] bgp 65009
[SwitchD-bgp] router-id 4.4.4.4
[SwitchD-bgp] peer 9.1.1.1 as-number 65009
[SwitchD-bgp] peer 9.1.2.1 as-number 65009
[SwitchD-bgp] quit
```

(3) 配置EBGP连接

# 配置Switch A。

```
<SwitchA> system-view
[SwitchA] bgp 65008
[SwitchA-bgp] router-id 1.1.1.1
[SwitchA-bgp] peer 200.1.1.1 as-number 65009
# 将8.0.0.0/8网段路由通告到BGP路由表中。
[SwitchA-bgp] network 8.0.0.0
```

```

[SwitchA-bgp] quit
# 配置Switch B。
[SwitchB] bgp 65009
[SwitchB-bgp] peer 200.1.1.2 as-number 65008
[SwitchB-bgp] quit
# 查看Switch B的BGP对等体的连接状态。
[SwitchB] display bgp peer
BGP local router ID : 2.2.2.2
Local AS number : 65009
Total number of peers : 3          Peers in established state : 3
Peer      V  AS  MsgRcvd  MsgSent  OutQ  PrefRcv  Up/Down  State
9.1.1.2   4 65009    56     56     0    000:40:54 Established
9.1.3.2   4 65009    49     62     0    000:44:58 Established
200.1.1.2 4 65008    49     65     0    100:44:03 Established

```

可以看出，Switch B到其他交换机的BGP连接均已建立。

```

# 查看Switch A路由表信息。
[SwitchA] display bgp routing-table
Total Number of Routes: 1
BGP Local router ID is 1.1.1.1
Status codes: * - valid, > - best, d - damped,
               h - history, i - internal, s - suppressed, S - Stale
Origin : i - IGP, e - EGP, ? - incomplete

```

Network	NextHop	MED	LocPrf	PrefVal	Path/Ogn
*> 8.0.0.0	0.0.0.0	0	0	i	

```

# 查看Switch B的路由表。
[SwitchB] display bgp routing-table
Total Number of Routes: 1
BGP Local router ID is 2.2.2.2
Status codes: * - valid, > - best, d - damped,
               h - history, i - internal, s - suppressed, S - Stale
Origin : i - IGP, e - EGP, ? - incomplete

```

Network	NextHop	MED	LocPrf	PrefVal	Path/Ogn
*> 8.0.0.0	200.1.1.2	0	0	65008i	

```

# 查看Switch C的路由表。
[SwitchC] display bgp routing-table
Total Number of Routes: 1
BGP Local router ID is 3.3.3.3
Status codes: * - valid, > - best, d - damped,
               h - history, i - internal, s - suppressed, S - Stale
Origin : i - IGP, e - EGP, ? - incomplete

```

Network	NextHop	MED	LocPrf	PrefVal	Path/Ogn
i 8.0.0.0	200.1.1.2	0	100	0	65008i

四、配置关键点：  
无。