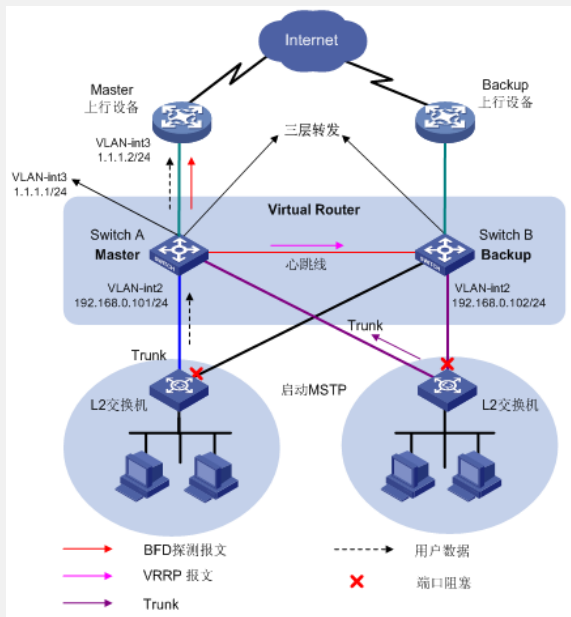


S12500 S9500E VRRP与BFD联动Master监视上行链路典型配置

一、组网需求:

Master监视上行链路的状况, 当上行链路down时, 降低备份组的优先级并且立即以新的优先级发送VRRP报文; Backup收到优先级比自己低的报文后, 延迟很短的时间后就抢占成为Master, 延迟时间与配置的优先级有关, 一般小于1s。。

二、组网图:



图一

三、配置步骤:

1、配置思路

1.1 配置VRRP基本功能

1.2 配置track项, 创建BFD会话 (echo方式)

1.3 配置VRRP Master设备与track项联动 (降优先级方式) 监视上行设备

2、配置步骤

2.1 配置echo报文源IP地址

```
[SwitchA] bfd echo-source-ip 10.10.10.10
```

2.2 配置上行VLAN接口和IP地址

```
[SwitchA] vlan 3
```

```
[SwitchA-vlan3] port GigabitEthernet 3/0/1
```

```
[SwitchA-vlan3] quit
```

```
[SwitchA] interface vlan-interface 3
```

```
[SwitchA-vlan-interface3] ip address 1.1.1.1 24
```

2.3 配置接口接收BFD echo报文的最小时间间隔

```
[SwitchA-vlan-interface3] bfd min-echo-recv-interval 10
```

2.4 配置BFD控制报文最大失效的个数

```
[SwitchA-vlan-interface3] bfd detect-multiplier 3
```

```
[SwitchA-vlan-interface3] quit
```

2.5 创建和BFD会话关联的Track项，远端IP为上行设备接口IP

```
[SwitchA] track 1 bfd echo interface vlan-interface 3 remote ip 1.1.1.2 local ip 1.1.1.1
```

2.6 配置启用VRRP的VLAN接口和IP地址

```
[SwitchA] vlan 2
```

```
[SwitchA-vlan2] port GigabitEthernet 3/0/2
```

```
[SwitchA-vlan2] quit
```

```
[SwitchA] interface vlan-interface 2
```

```
[SwitchA-vlan-interface3] ip address 192.168.0.101 24
```

2.7 创建备份组，配置备份组的优先级，监视track项

```
[SwitchA-vlan-interface2] vrrp vrid 1 virtual-ip 192.168.0.10
```

```
[SwitchA-vlan-interface2] vrrp vrid 1 priority 110
```

```
[SwitchA-vlan-interface2] vrrp vrid 1 track 1 reduced 20
```

### 3、配置文件

```
bfd echo-source-ip 10.10.10.10
```

```
#
```

```
interface Vlan-interface2
```

```
ip address 192.168.0.101 255.255.255.0
```

```
vrrp vrid 1 virtual-ip 192.168.0.10
```

```
vrrp vrid 1 priority 110
```

```
vrrp vrid 1 track 1 reduced 20
```

```
#
```

```
interface Vlan-interface3
```

```
ip address 1.1.1.1 255.255.255.0
```

```
bfd min-echo-recv-interval 10
```

```
bfd detect-multiplier 3
```

```
#
```

```
interface GigabitEthernet3/0/1
```

```
port access vlan 3
```

```
#
```

```
interface GigabitEthernet3/0/2
```

```
port access vlan 2
```

```
#
```

```
track 1 bfd echo interface Vlan-interface3 remote ip 1.1.1.2 local ip 1.1.1.1
```

#### 四、配置关键点：

1、配置后可以通过display bfd session 来检查一下BFD的状态，如果Init Mode为Active就说明BFD在工作状态。

2、VRRP采用和track项联动的方式来进行BFD检测，这种方式下BFD工作于echo方式。