

The configuration of Basic VRRP In MSR Series

Keywords: MSR;VRRP

I Requirement for the diagram

Router RTA and RTB consist of VRRP to provide redundancy. In this way, PC1 and PC2 can reach RTC when one of RTA or RTB fault.

Device List: 3 MSR; 1 Switch; 2 PC;

CMW Version: Version 5.20, Beta 1106

II Network topology

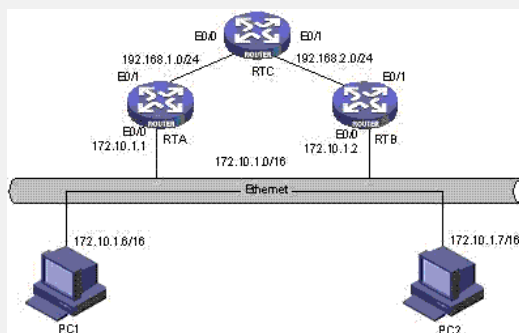


Figure 1 MSR VRRP

III Steps of configuration

Config the address of PC1: 172.10.1.6/16, Gateway:172.10.2.1

RTA

```
#
interface Ethernet 0/0
ip address 172.10.1.1 255.255.0.0
vrrp vrid 1 virtual-ip 172.10.2.1
vrrp vrid 1 priority 150
#
interface Ethernet0/1
port link-mode route
ip address 192.168.1.1 255.255.255.0
#
rip
network 172.10.0.0
network 192.168.1.0
```

RTB

```
#
interface Ethernet0/0
ip address 172.10.1.2 255.255.0.0
vrrp vrid 1 virtual-ip 172.10.2.1
#
interface Ethernet0/1
ip address 192.168.2.1 255.255.255.0
#
rip
network 172.10.0.0
network 192.168.2.0
```

RTC

```
#
interface Ethernet0/0
ip address 192.168.1.2 255.255.255.0
#
interface Ethernet0/1
ip address 192.168.2.2 255.255.255.0
#
interface LoopBack1
ip address 192.168.8.8 255.255.255.255
#
rip
network 192.168.1.0
network 192.168.2.0
network 192.168.8.0
```

IV Result Check

1) display vrrp state of RTA:

```
[RTA]dis vrrp
```

IPv4 Standby Information:

Run Method : VIRTUAL-MAC

Virtual Ip Ping : Enable

Interface : Ethernet0/0

VRID : 1 Adver. Timer : 1

Admin Status : UP State : Master

Config Pri : 150 Run Pri : 150

Preempt Mode : YES Delay Time : 0

Auth Type : NONE

Virtual IP : 172.10.2.1

Virtual MAC : 0000-5e00-0101

Master IP : 172.10.1.1

2) On pc1, ping the loopback address of RTC as blow:

C:\>ping-t 192.168.8.8 can receive reply

Shutdown the interface of Ethernet0/0 of RTA, we can see there has one package lost, and the state of vrrp is:

```
<RTA>dis vrrp
```

IPv4 Standby Information:

Run Method : VIRTUAL-MAC

Virtual Ip Ping : Enable

Interface : Ethernet0/0

VRID : 1 Adver. Timer : 1

Admin Status : UP State : Initialize

Config Pri : 150 Run Pri : 150

Preempt Mode : YES Delay Time : 0

Auth Type : NONE

Virtual IP : 172.10.2.1

Master IP : 0.0.0.0

Now, the vrrp state of RTB:

```
[RTB]dis vrrp
```

IPv4 Standby Information:

Run Method : VIRTUAL-MAC

Virtual Ip Ping : Enable

Interface : Ethernet0/0

VRID : 1 Adver. Timer : 1

Admin Status : UP State : Master

Config Pri : 100 Run Pri : 100

Preempt Mode : YES Delay Time : 0

Auth Type : NONE

Virtual IP : 172.10.2.1

Master IP : 172.10.1.1