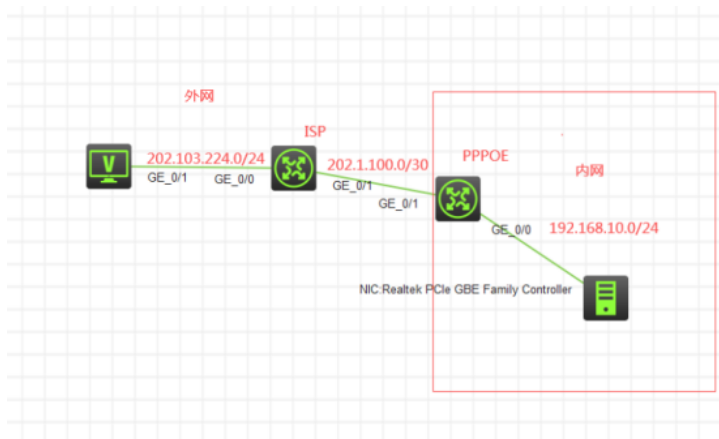


## 知 PPPOE典型组网配置案例1 (PC宽带拨号)

PPPoE NAT H3C模拟器 韦家宁 2020-02-07 发表

### 组网及说明



#### 组网说明:

本案例采用H3C HCL模拟器来模拟PPPOE组网, 由于模拟器的局限性, 因此采用MSR3620路由器来模拟为PPPOE服务器, 同时也作为出口设备, 内网和外网在网络拓扑图已有了明确标识, 内网终端通过PPPOE拨号连接到PPPOE服务器后再访问外网。

### 配置步骤

- 1、按照网络拓扑图正确配置IP地址
- 2、PPPOE设备作为出口设备, 配置NAT及默认路由指向外网
- 3、PPPOE设备开启PPPOE功能, 并做相应的配置用于内网设备通过PPPOE连接接入
- 4、内网设备通过PPPOE拨号后能PING通外网

### 配置关键点

#### PPPOE:

```
sys
```

```
System View: return to User View with Ctrl+Z.
```

```
[H3C]sysname PPPOE
```

```
[PPPOE]acl basic 2000
```

```
[PPPOE-acl-ipv4-basic-2000]rule 0 permit source any
```

```
[PPPOE-acl-ipv4-basic-2000]quit
```

```
[PPPOE]int gi 0/1
```

```
[PPPOE-GigabitEthernet0/1]des
```

```
[PPPOE-GigabitEthernet0/1]ip address 202.1.100.2 30
```

```
[PPPOE-GigabitEthernet0/1]nat outbound 2000
```

```
[PPPOE-GigabitEthernet0/1]quit
```

```
[PPPOE]ip route-static 0.0.0.0 0.0.0.0 202.1.100.1
```

```
[PPPOE]
```

#### PPPOE拨号关键配置点:

```
[PPPOE]local-user weijianing class network //创建用户名、密码, 赋予PPP登陆的权限
```

```
New local user added.
```

```
[PPPOE-luser-network-weijianing]password simple weijianing
```

```
[PPPOE-luser-network-weijianing]service-type ppp
```

```
[PPPOE-luser-network-weijianing]quit
```

```
[PPPOE]domain name system //配置域, 验证方式为本地PPP认证
```

```
[PPPOE-isp-system]authentication ppp local
```

```
[PPPOE-isp-system]quit
```

```
[PPPOE]ip pool weijianing 192.168.10.2 192.168.10.100 //创建地址池, 用于PPPOE客户端拨号的IP地址分配
```

```
[PPPOE]int Virtual-Template 1 //创建虚拟模板, 调用域和地址池
```

```
[PPPOE-Virtual-Template1]ip address 192.168.10.1 255.255.255.0
```

```
[PPPOE-Virtual-Template1]ppp authentication-mode pap domain system
```

```
[PPPOE-Virtual-Template1]remote address pool weijianing
[PPPOE-Virtual-Template1]quit
```

```
[PPPOE]int gi 0/0
[PPPOE-GigabitEthernet0/0]pppoe-server bind virtual-template 1 //将PPPOE与虚拟模板绑定到物理接口
[PPPOE-GigabitEthernet0/0]quit
```

```
ISP:
sys
System View: return to User View with Ctrl+Z.
[H3C]sysname ISP
[ISP]int gi 0/1
[ISP-GigabitEthernet0/1]des
[ISP-GigabitEthernet0/1]ip address 202.1.100.1 30
[ISP-GigabitEthernet0/1]quit
[ISP]int gi 0/0
[ISP-GigabitEthernet0/0]ip address 202.103.224.254 24
[ISP-GigabitEthernet0/0]quit
```

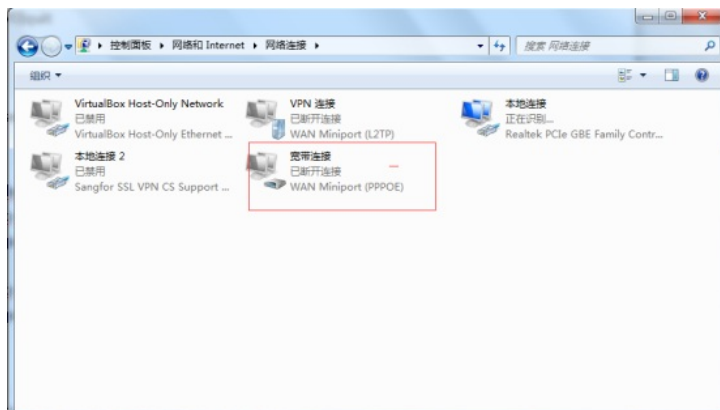
测试:

内网终端设置宽带连接:

本物理机是windows 7 32位的操作系统，打开“网络和共享中心”，点击左边的“更改适配器设置”:

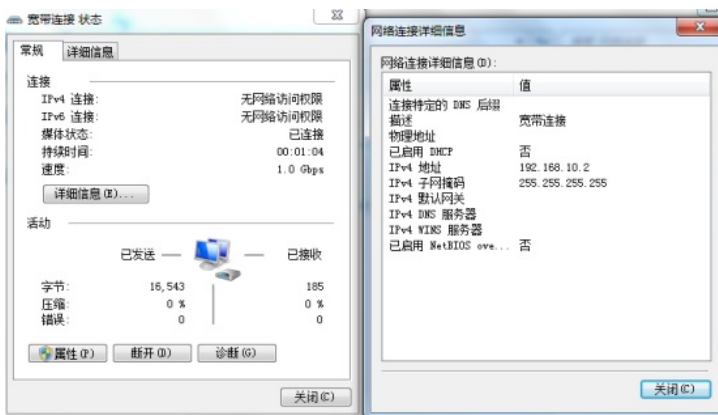
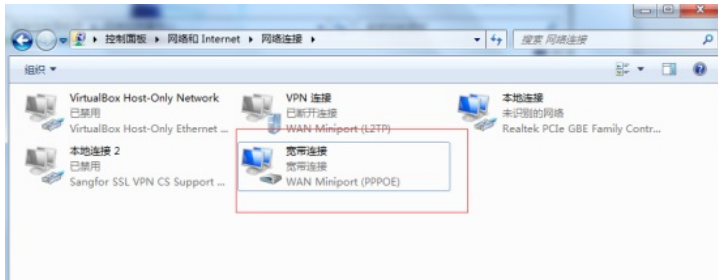


打开宽带连接，输入用户名，密码，点击“连接”

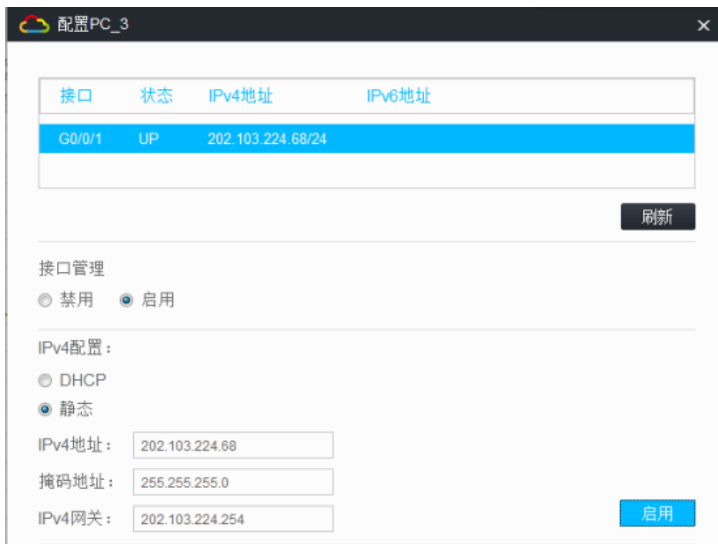




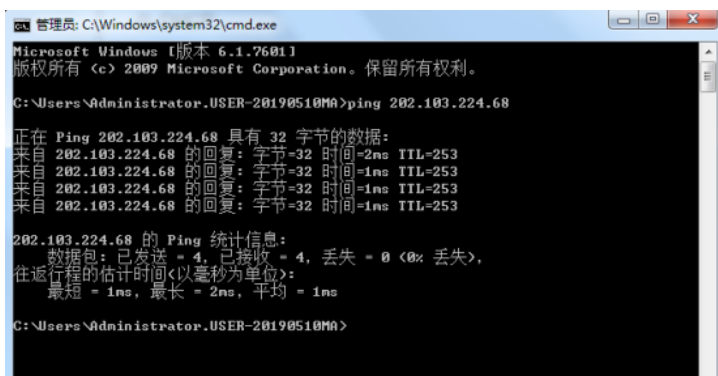
PPPOE宽带拨号成功:



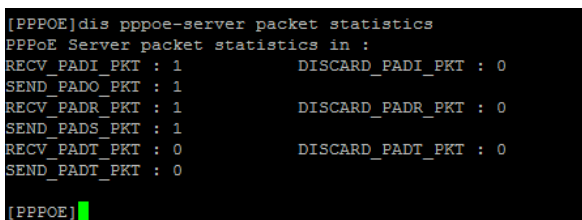
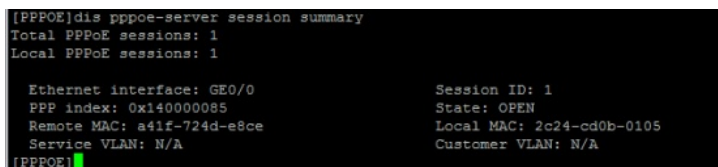
外网终端填写IP地址，内网终端PING测试:



内网终端PING外网终端:



查看PPPOE的会话信息:



至此, PPPOE典型组网配置案例已完成!