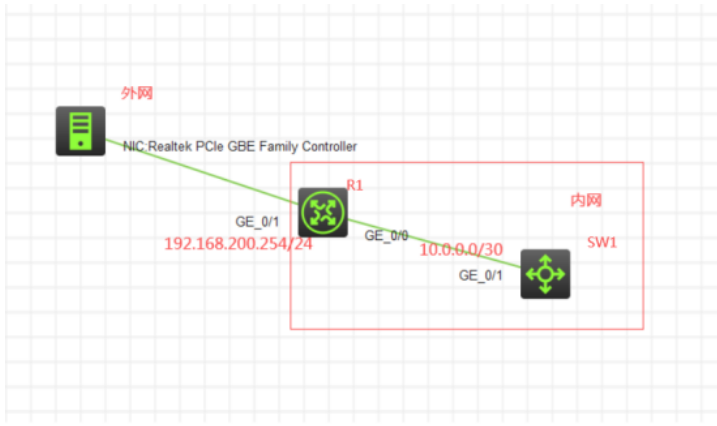


## 知 NAT server典型组网配置案例1 (有固定公网地址)

NAT H3C模拟器 韦家宁 2020-02-05 发表

### 组网及说明



本案例是采用H3C HCL模拟器来模拟NAT server的组网环境，内网和外网已在网络拓扑图中有明确的标识。R1作为外网出口设备，SW1模拟为WEB服务器，某局点仅申请了192.168.200.254和192.168.200.102两个IP地址，其中192.168.200.254作为外网互联，192.168.200.102作为外网映射，将SW1的10.0.0.1这个服务器IP转换为192.168.200.102对外发布。

### 配置步骤

- 1、按照网络拓扑图正确配置IP地址
- 2、SW1开启web功能
- 3、R1配置NAT地址转换及NAT server
- 4、外网主机能通过浏览器访问WEB服务器

### 配置关键点

配置过程：

```
<H3C>sys
[H3C]sysname SW1
[SW1]int gi 1/0/1
[SW1-GigabitEthernet1/0/1]port link-mode route
[SW1-GigabitEthernet1/0/1]description <connect to R1>
[SW1-GigabitEthernet1/0/1]ip address 10.0.0.1 30
[SW1-GigabitEthernet1/0/1]quit

[SW1]ip http enable
[SW1]ip https enable

[SW1]local-user admin
New local user added.
[SW1-luser-manage-admin]password simple admin
[SW1-luser-manage-admin]service-type http https
[SW1-luser-manage-admin]authorization-attribute user-role network-admin
[SW1-luser-manage-admin]quit
[SW1]ip route-static 0.0.0.0 0.0.0.0 10.0.0.2
```

```
R1:
<H3C>sys
[H3C]sysname R1
[R1]int gi 0/0
[R1-GigabitEthernet0/0]description <connect to SW1>
[R1-GigabitEthernet0/0]ip address 10.0.0.2 30
[R1-GigabitEthernet0/0]quit
```

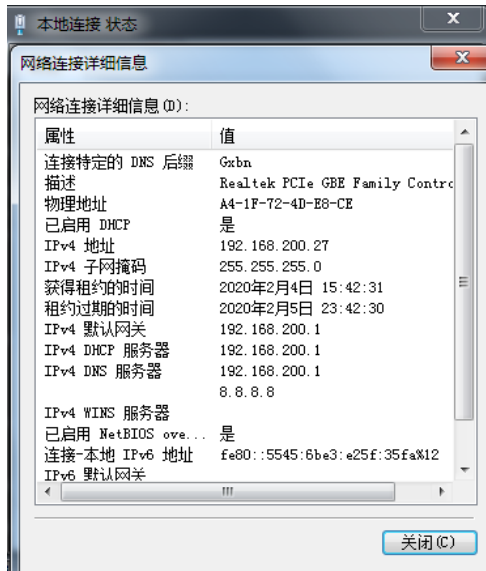
NAT配置：

```
[R1]acl basic 2000
```

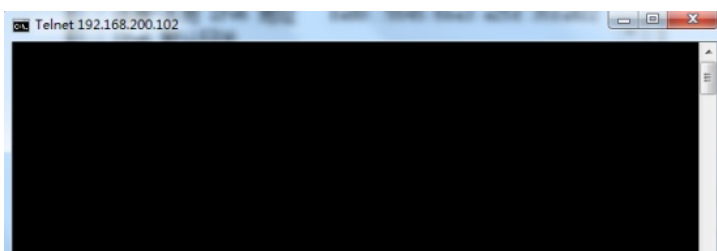
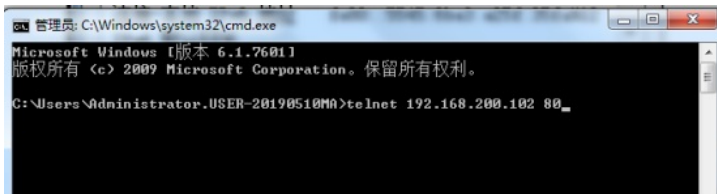
```
[R1-acl-ipv4-basic-2000]rule 0 permit source any
[R1-acl-ipv4-basic-2000]quit
```

```
[R1]int gi 0/1
[R1-GigabitEthernet0/1]description <connect to WAN>
[R1-GigabitEthernet0/1]ip address 192.168.200.254 24
[R1-GigabitEthernet0/1]nat outbound 2000
[R1-GigabitEthernet0/1]nat server protocol tcp global 192.168.200.102 80 inside 10.0.0.1 80
[R1-GigabitEthernet0/1]nat server protocol tcp global 192.168.200.102 443 inside 10.0.0.1 443
[R1-GigabitEthernet0/1]quit
[R1]ip route-static 0.0.0.0 0.0.0.0 192.168.200.1
```

外网终端填写IP地址:



在外网终端使用CMD，输入命令telnet 192.168.200.102 80，测试服务可达性:



打开浏览器，输入网址: <https://192.168.200.102>



输入用户名、密码，点击“登陆”



查看NAT会话情况及会话信息:

```

hcl_pyarc
S5820V2-54QS-GE_1  MSR36-20_2
[R1-GigabitEthernet0/1]dis nat session
Slot 0:
Initiator:
  Source      IP/port: 192.168.200.29/40439
  Destination IP/port: 192.168.200.102/80
  DS-Lite tunnel peer: -
  VPN instance/VLAN ID/Inline ID: -/-/-
  Protocol: TCP(6)
  Inbound interface: GigabitEthernet0/1
Initiator:
  Source      IP/port: 192.168.200.29/40437
  Destination IP/port: 192.168.200.102/80
  DS-Lite tunnel peer: -
  VPN instance/VLAN ID/Inline ID: -/-/-
  Protocol: TCP(6)
  Inbound interface: GigabitEthernet0/1
Initiator:
  Source      IP/port: 192.168.200.29/40435
  Destination IP/port: 192.168.200.102/80
  DS-Lite tunnel peer: -
  VPN instance/VLAN ID/Inline ID: -/-/-
  Protocol: TCP(6)
  Inbound interface: GigabitEthernet0/1
Total sessions found: 3
[R1-GigabitEthernet0/1]
  
```

```

[R1-GigabitEthernet0/1]dis nat session brief
Slot 0:
Protocol  Source IP/port      Destination IP/port  Global IP/port
TCP       10.0.0.1/80          192.168.200.29/40439 192.168.200.102/80
TCP       10.0.0.1/80          192.168.200.29/40437 192.168.200.102/80
TCP       10.0.0.1/80          192.168.200.29/40435 192.168.200.102/80
Total sessions found: 3
[R1-GigabitEthernet0/1]
  
```

此外，手机也可登陆:

中文 ▾

# H3C



用户名



密码

记住登录状态

登录

至此，NAT server映射的典型组网配置1已完成！