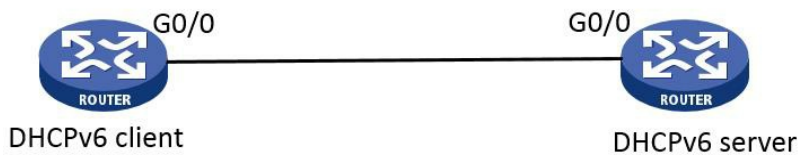


## MSR(V7)路由器产品无状态方式下发IPv6地址+DHCPv6下发DNS等其他参数的典型配置方法

DHCP IPv6 王鑫 2016-04-25 发表

DHCPv6服务器可以为已经具有IPv6地址/前缀的客户端分配其他网络配置参数，该过程称为DHCPv6无状态配置。

DHCPv6客户端通过地址无状态自动配置功能成功获取IPv6地址后，如果接收到的RA（Router Advertisement，路由器通告）报文中M标志位（Managed address configuration flag，被管理地址配置标志位）为0、O标志位（Other stateful configuration flag，其他配置标志位）为1，则DHCPv6客户端会自动启动DHCPv6无状态配置功能，以获取除地址/前缀外的其他网络配置参数



Client配置：

```
interface GigabitEthernet0/0
port link-mode route
combo enable copper
ipv6 address auto
```

server配置：

```
interface GigabitEthernet0/0
port link-mode route
combo enable copper
ipv6 address 1::1/64
ipv6 nd autoconfig other-flag
undo ipv6 nd ra halt
```

#

```
ipv6 dhcp pool 1
dns-server 3::3
domain-name test
```

结果显示：

```
[client]display ipv6 dhcp client interface g0/0
```

GigabitEthernet0/0:

Type: Stateless client

State: OPEN

Client DUID: 00030001b244d8b30100

Preferred server:

Reachable via address: FE80::B044:DFFF:FE99:205

Server DUID: 00030001b244df990200

DNS server addresses:

3::3

Domain name:

test

```
[client]display ipv6 interface brief
```

```
*down: administratively down
```

```
(s): spoofing
```

Interface	Physical	Protocol	IPv6 Address
GigabitEthernet0/0	up	up	1::B044:D8FF:FEB3:105

```
测试连通性:
```

```
[client]ping ipv6 1::1
```

```
Ping6(56 data bytes) 1::B044:D8FF:FEB3:105 --> 1::1, press CTRL_C to break  
56 bytes from 1::1, icmp_seq=0 hlim=64 time=2.000 ms  
56 bytes from 1::1, icmp_seq=1 hlim=64 time=1.000 ms  
56 bytes from 1::1, icmp_seq=2 hlim=64 time=2.000 ms  
56 bytes from 1::1, icmp_seq=3 hlim=64 time=1.000 ms  
56 bytes from 1::1, icmp_seq=4 hlim=64 time=1.000 ms
```

- 1、MSR (V7) 设备作为客户端，既可以使用有状态方式，也可以采用无状态方式
- 2、若使用windows作为DHCPv6客户端，则可能会出现DNS地址无法显示，以及无法ping同无状态地址的问题，这个是客户端问题导致