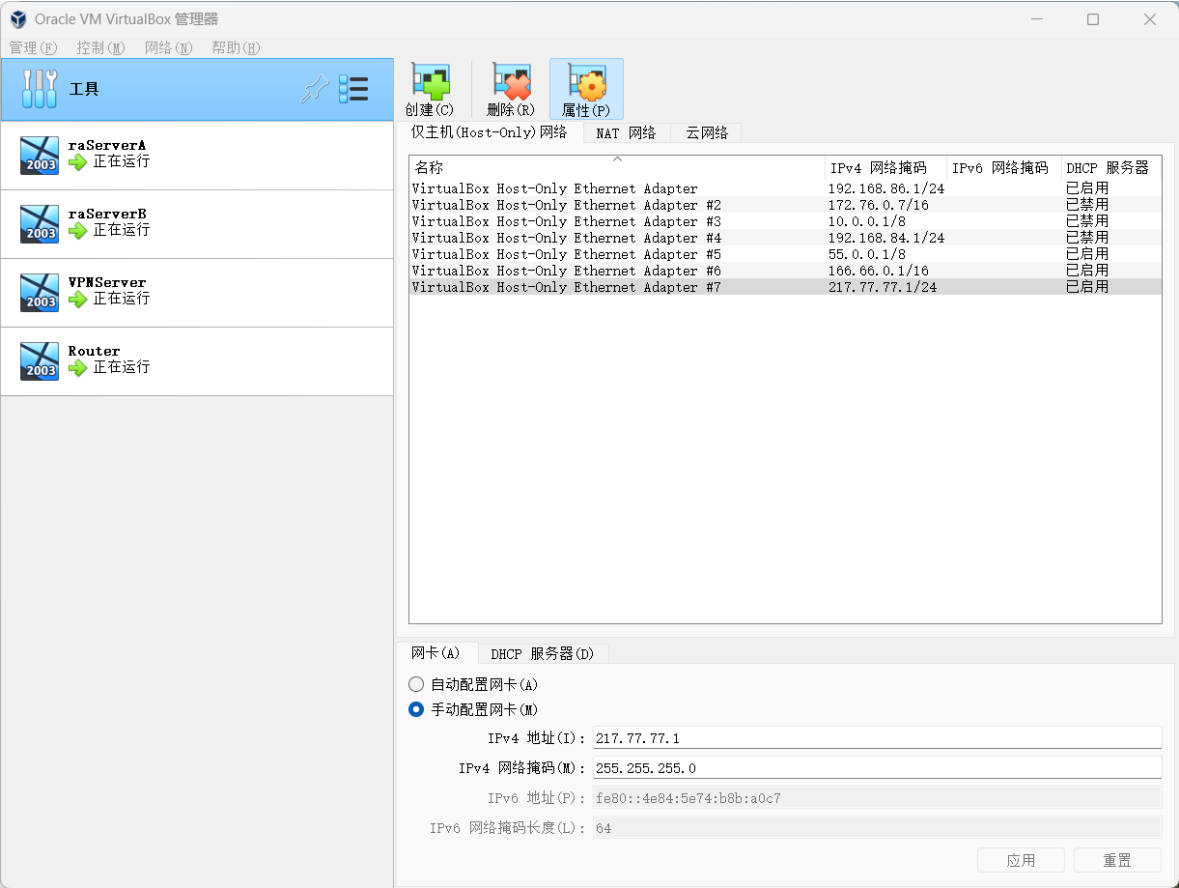


HomeWork2

SA23011083 吴承泽

按照实验一，设置虚拟机网卡如下：



ClientA的IP地址如下：

```
C:\work>ipconfig

Windows IP Configuration

Ethernet adapter net1:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 55.55.55.83
    Subnet Mask . . . . . : 255.0.0.0
    Default Gateway . . . . . : 55.55.55.233
```

ClientB的IP地址如下：

```
C:\work>ipconfig

Windows IP Configuration

Ethernet adapter net1:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 192.168.152.83
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

VPN Server的IP地址如下:

```
C:\work>ipconfig

Windows IP Configuration

Ethernet adapter net6:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 166.66.66.203
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : 166.66.66.233

Ethernet adapter net1:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 192.168.86.3
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```

Router的IP地址如下:

```
Windows IP Configuration

Ethernet adapter VMnet7:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 217.77.77.233
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 

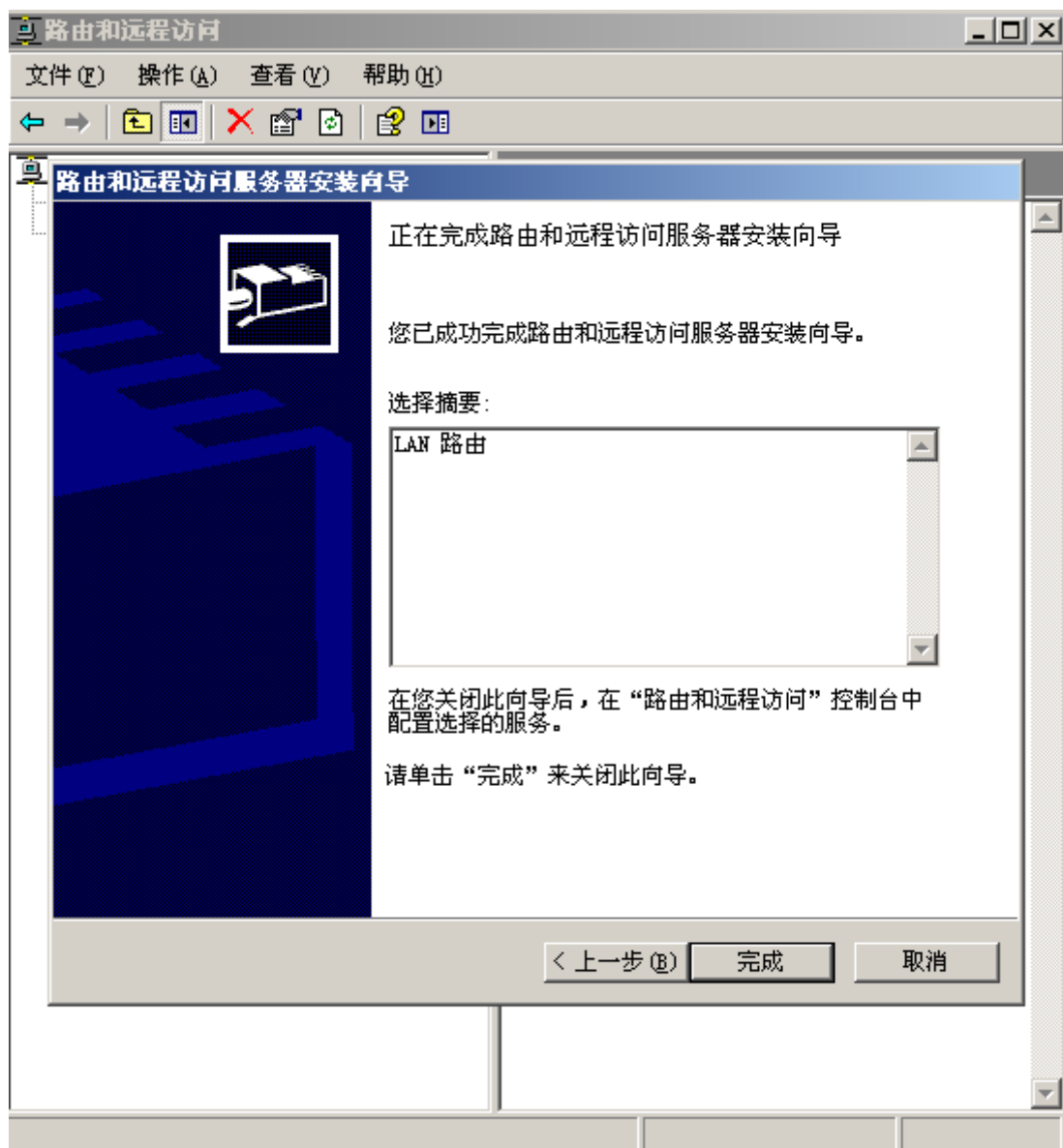
Ethernet adapter net6:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 166.66.66.233
    Subnet Mask . . . . . : 255.255.0.0
    Default Gateway . . . . . : 

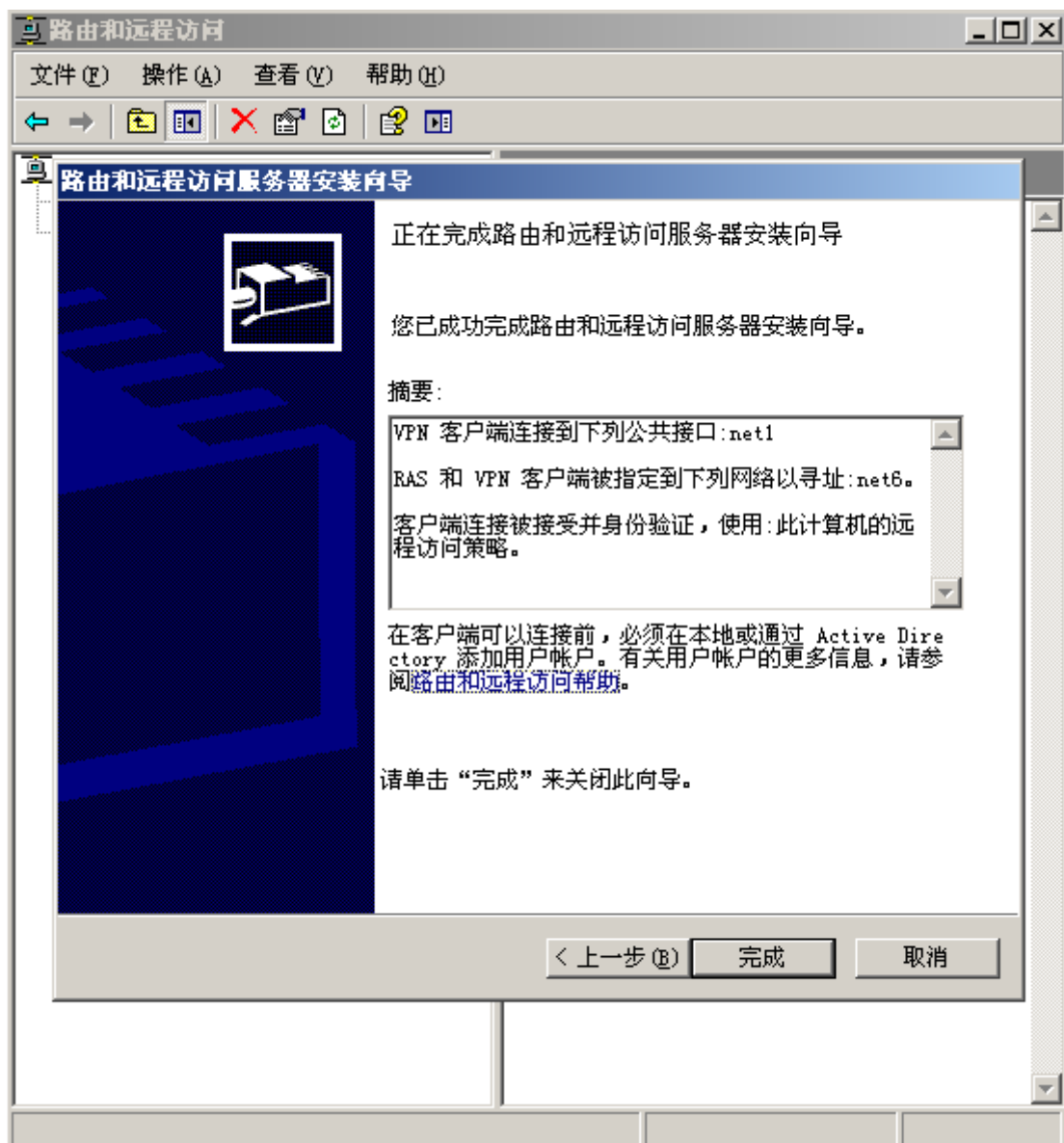
Ethernet adapter net1:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 55.55.55.233
    Subnet Mask . . . . . : 255.0.0.0
    Default Gateway . . . . . :
```

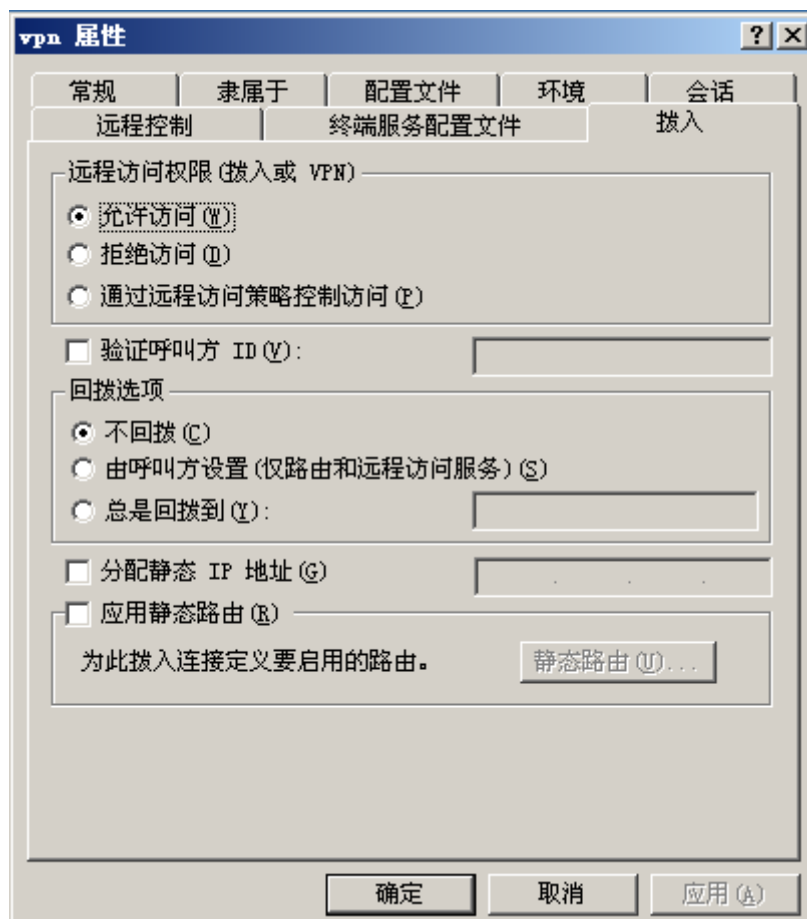
配置Router的LAN路由器:



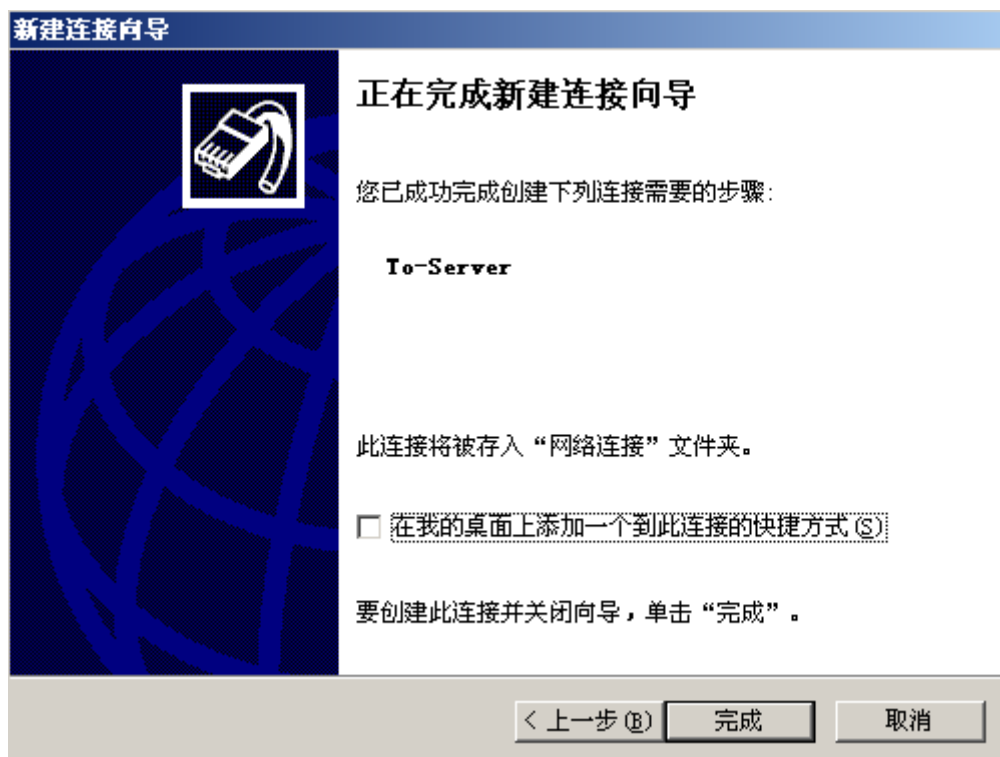
配置VPN Server路由:



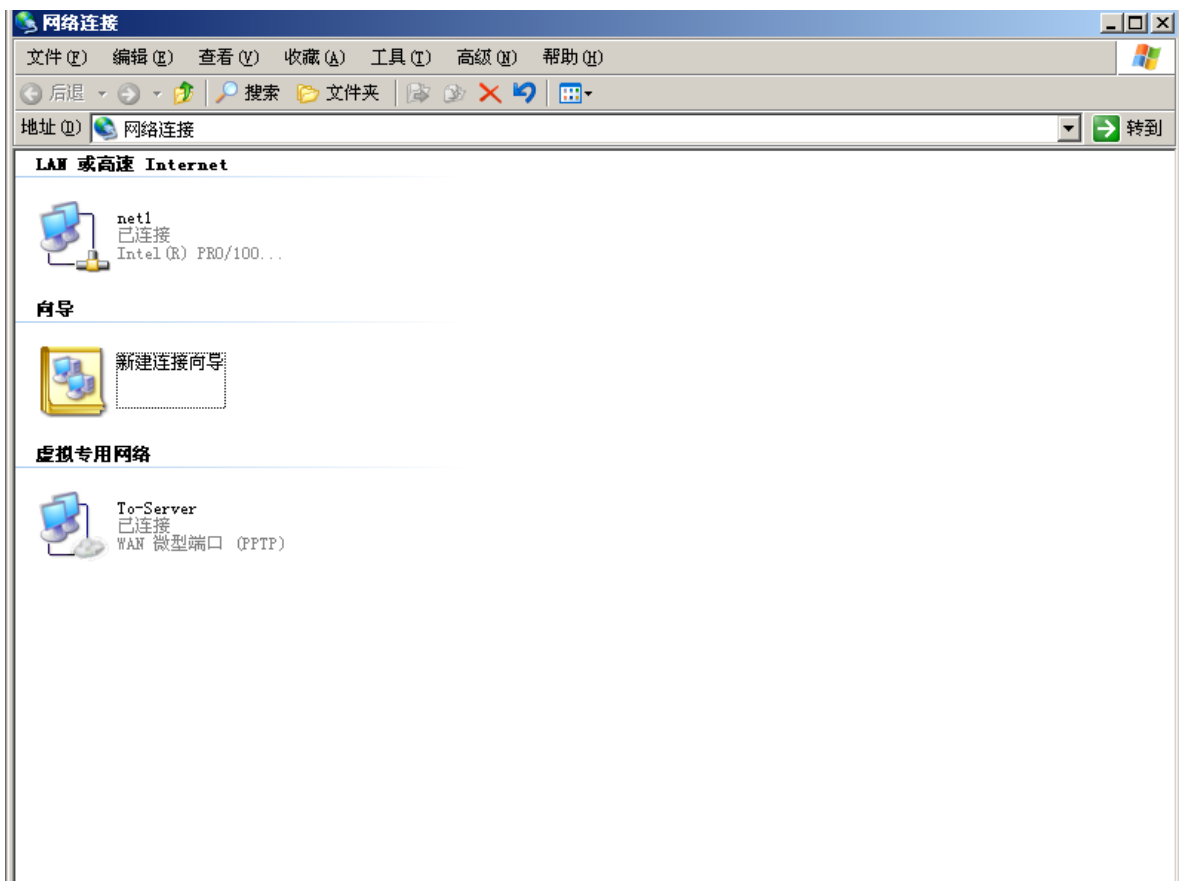
设置vpn用户拨入允许访问:



配置VPN客户端，使得远程主机可以通过连接向导连接到局域网中：



建立远程访问VPN，可以看到连接成功。



建立远程访问VPN后，通过IPconfig命令查看VPN客户机的IP地址：

```
C:\work>ipconfig
```

```
Windows IP Configuration
```

```
Ethernet adapter net1:
```

```
    Connection-specific DNS Suffix  . :  
    IP Address. . . . . : 55.55.55.83  
    Subnet Mask . . . . . : 255.0.0.0  
    Default Gateway . . . . . : 55.55.55.233
```

```
PPP adapter To-Server:
```

```
    Connection-specific DNS Suffix  . :  
    IP Address. . . . . : 192.168.86.31  
    Subnet Mask . . . . . : 255.255.255.255  
    Default Gateway . . . . . : 0.0.0.0
```

服务器IP地址：

Windows IP Configuration

PPP adapter RAS Server (Dial In) Interface:

Connection-specific DNS Suffix . :
IP Address. : 192.168.86.30
Subnet Mask : 255.255.255.255
Default Gateway :

Ethernet adapter net6:

Connection-specific DNS Suffix . :
IP Address. : 166.66.66.203
Subnet Mask : 255.255.0.0
Default Gateway : 166.66.66.233

Ethernet adapter net1:

Connection-specific DNS Suffix . :
IP Address. : 192.168.86.3
Subnet Mask : 255.255.255.0
Default Gateway :

C:\work>

可以看到虚拟网络连接已经接入。

启动VPN服务器的wireshark，ping用户机局域网IP，可以看到VPN服务器接收到PPP数据包：

1	0.00000000	166.66.66.203	55.55.55.83	PPTP	70	Echo-Request
2	0.06026300	55.55.55.83	166.66.66.203	PPTP	70	Echo-Request
3	0.06029700	166.66.66.203	55.55.55.83	PPTP	74	Echo-Reply
4	0.06092000	55.55.55.83	166.66.66.203	PPTP	74	Echo-Reply
5	0.26034900	166.66.66.203	55.55.55.83	TCP	54	pptp > 1031 [ACK] Seq=37 Ack=37 win=63752 Len=0
6	26.3581340	166.66.0.1	239.255.255.250	SSDP	216	M-SEARCH * HTTP/1.1
7	26.3599710	166.66.0.1	239.255.255.250	SSDP	217	M-SEARCH * HTTP/1.1
8	27.3588910	166.66.0.1	239.255.255.250	SSDP	216	M-SEARCH * HTTP/1.1
9	27.3605920	166.66.0.1	239.255.255.250	SSDP	217	M-SEARCH * HTTP/1.1
10	28.3623350	166.66.0.1	239.255.255.250	SSDP	216	M-SEARCH * HTTP/1.1
11	28.3623510	166.66.0.1	239.255.255.250	SSDP	217	M-SEARCH * HTTP/1.1
12	29.3599520	166.66.0.1	239.255.255.250	SSDP	216	M-SEARCH * HTTP/1.1
13	29.3608620	166.66.0.1	239.255.255.250	SSDP	217	M-SEARCH * HTTP/1.1
14	35.0973230	166.66.66.203	55.55.55.83	PPP Com	87	Compressed data
15	35.1959740	55.55.55.83	166.66.66.203	GRE	60	Encapsulated PPP
16	50.0948060	55.55.55.83	166.66.66.203	PPP Com	111	Compressed data
17	50.1921170	166.66.66.203	55.55.55.83	GRE	46	Encapsulated PPP
18	55.5371610	55.55.55.83	166.66.66.203	PPP Com	111	Compressed data
19	55.6300330	166.66.66.203	55.55.55.83	GRE	46	Encapsulated PPP
20	60.8242170	55.55.55.83	166.66.66.203	PPP Com	111	Compressed data
21	60.9177750	166.66.66.203	55.55.55.83	GRE	46	Encapsulated PPP
22	65.9303440	55.55.55.83	166.66.66.203	PPP Com	111	Compressed data
23	66.0248490	166.66.66.203	55.55.55.83	GRE	46	Encapsulated PPP