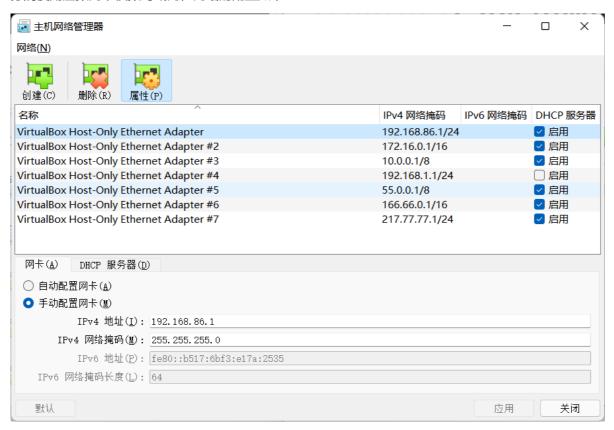
# Lab4 用Windows2003实现网关-网关VPN

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#### 4.2 实验设计

VirtualBox中新建5个虚拟机,分别命名为ServerA、ServerB、Router、ClinetA、ClinetB。其次,分别使用虚拟网卡模拟局域网,网络的配置如下:



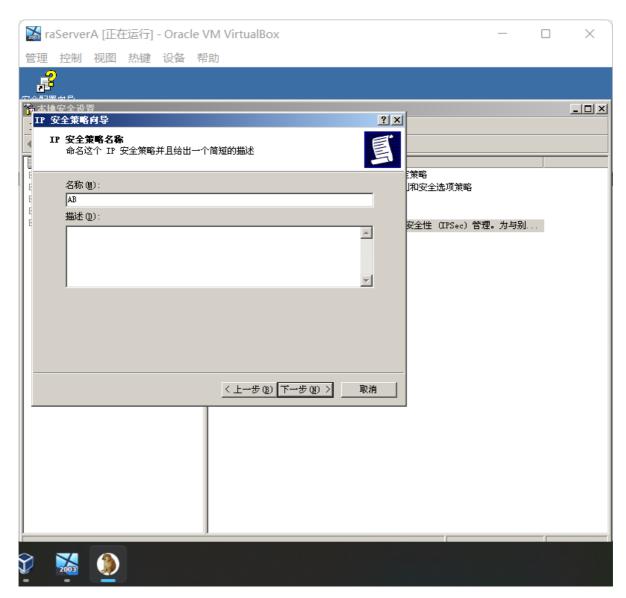
实验所用的IP配置如下:

机器名	系统及必备软件	虚拟网络	IP 地址信息
Client A	Windows Server 2003 或任何其他 Windows	VMnetl	IP: 192.168.86.202
			Subnet Mask: 255.255.255.0
			GateWay: 192.168.86.203
Server A	Windows Server 2003	VMnet1 VMnet5	IP: 192.168.86.203 Subnet Mask: 255.255.255.0 GateWay:
			IP: 55.55.55.203
			Subnet Mask: 255.0.0.0
			GateWay: 55.55.55.233
Router	Windows Server 2003 <b>必须安装 Wireshark 软件</b> http://www.wireshark.org/	VMnet5 VMnet6	IP: 55.55.55.233
			Subnet Mask: 255.0.0.0
			GateWay:
			· ·
			IP: 166.66.66.233
			Subnet Mask: 255.255.0.0
		0	GateWay:
Server B	Windows Server 2003	X	IP: 166.66.66.213
			Subnet Mask: 255.255.0.0
		VMnet6	GateWay: 166.66.66.233
		VMnet3	IP: 10.0.0.213
			Subnet Mask: 255.0.0.0
			GateWay:
Client B	Windows Server 2003 或或任何其他 Windows	VMnet3	IP: 10.0.0.202
			Subnet Mask: 255.0.0.0
			GateWay: 10.0.0.213

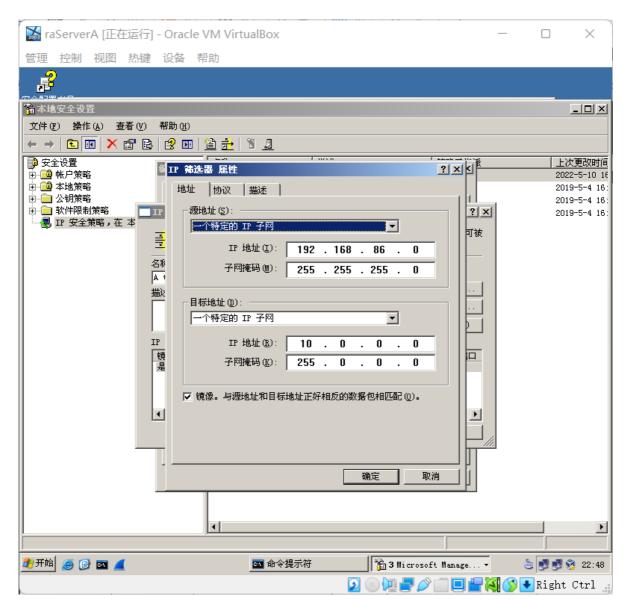
# 4.3 实验步骤

## 4.3.1 创建ServerA的IPSec策略

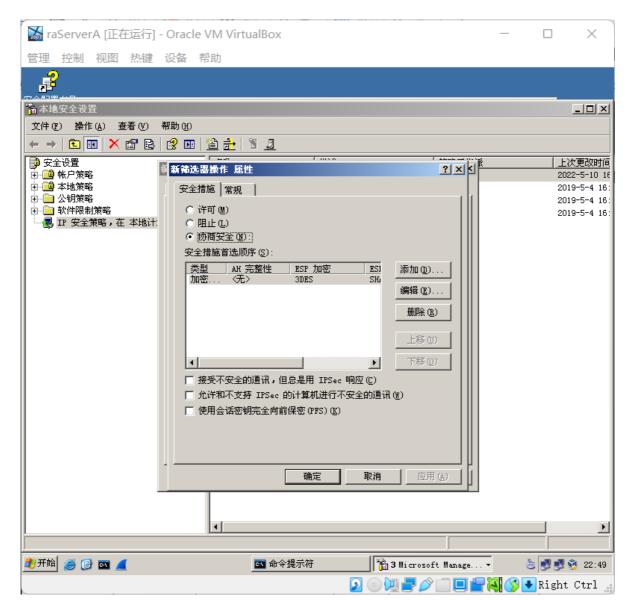
在管理工具中打开本地安全策略,根据提示进行设置:



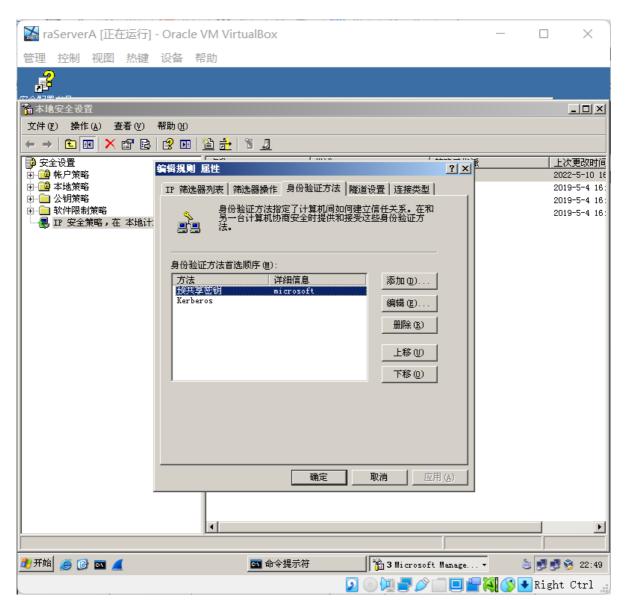
AtoB的IP筛选器属性如下所示:



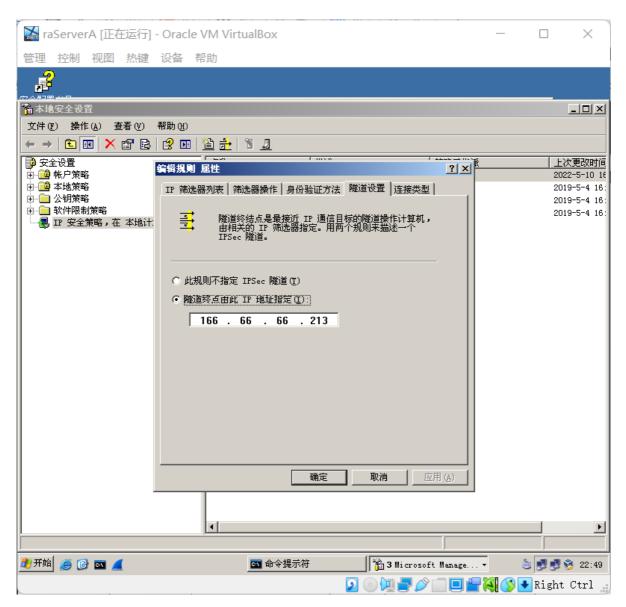
筛选器操作如下所示:



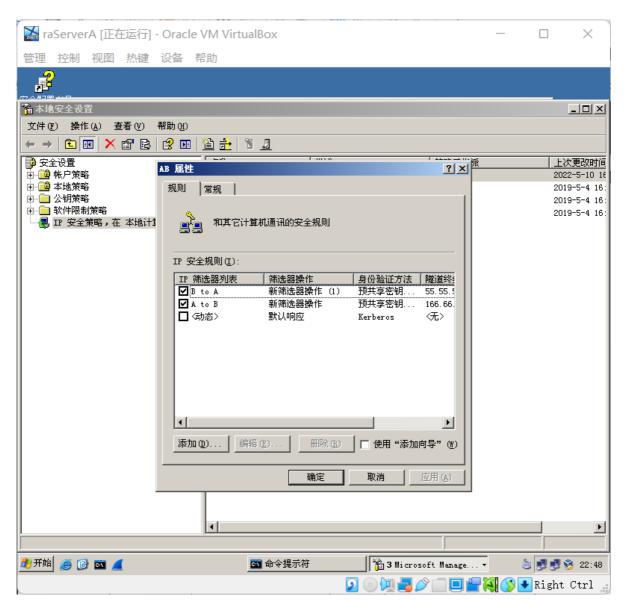
身份验证方法如下所示:



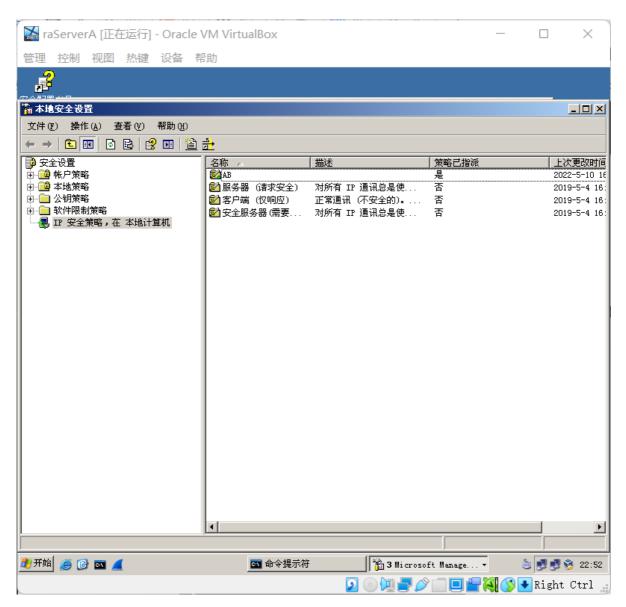
隧道设置如下所示:



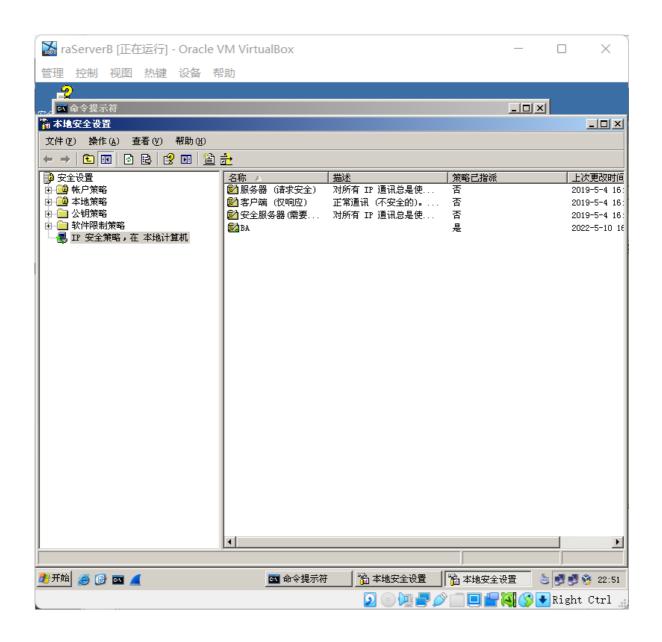
同理,创建IP晒暖器列表"B to A",配置配置完如下所示:

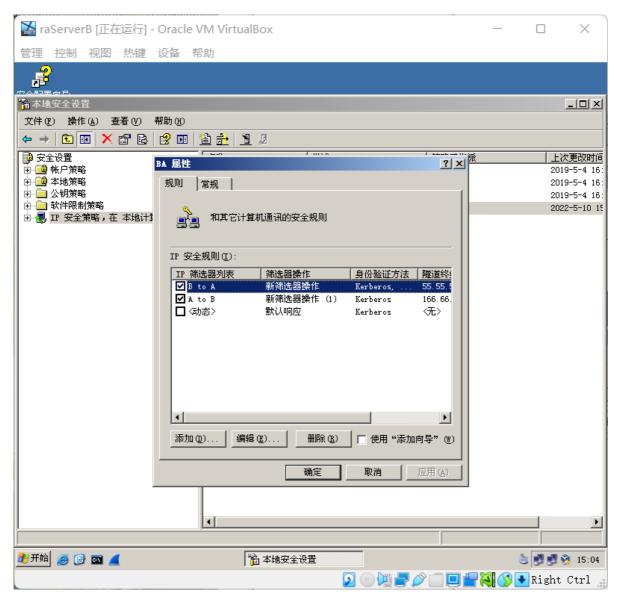


最终设置的结果如下:



同理,设置从ServerB至ServerA的IP策略,设置如下:

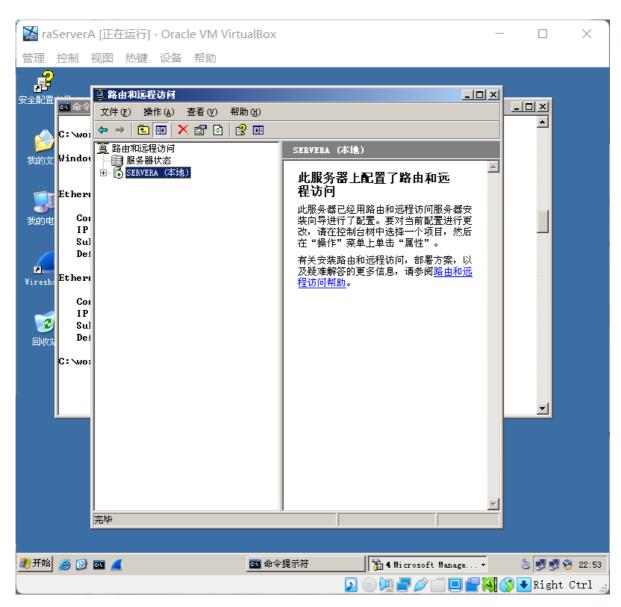




同时创建ServerB的IPSec策略,与4.2几乎相同,在此不再赘述。

### 4.3.3 配置远程访问/VPN服务器

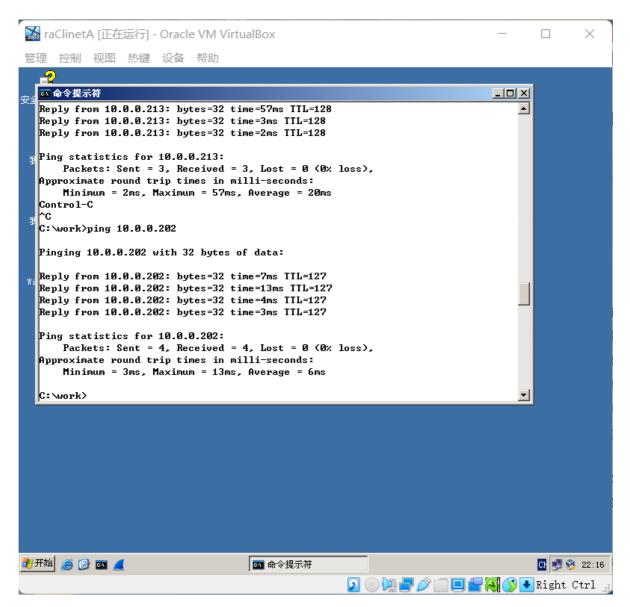
配置路由和远程访问:



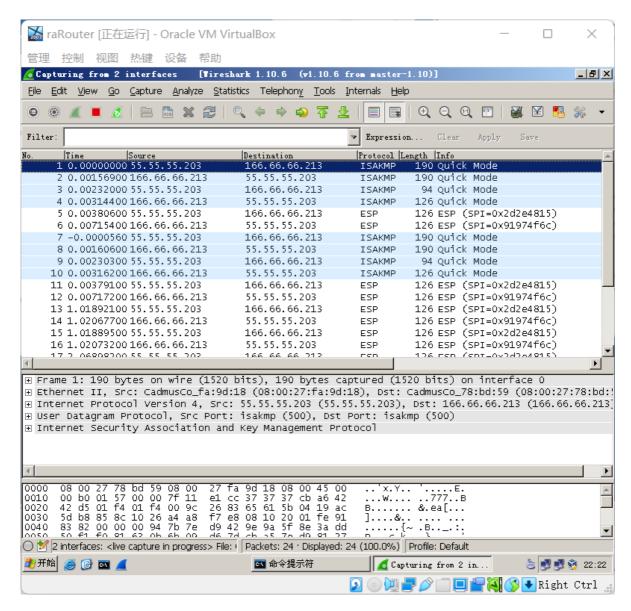
上图是我已经配置好的远程访问操作,配置完成后,ServerA与ServerB互联互通。

## 4.3.4 ping 测试(Client A)

在Client A中输入Ping 10.0.0.202, 得到的输出为:



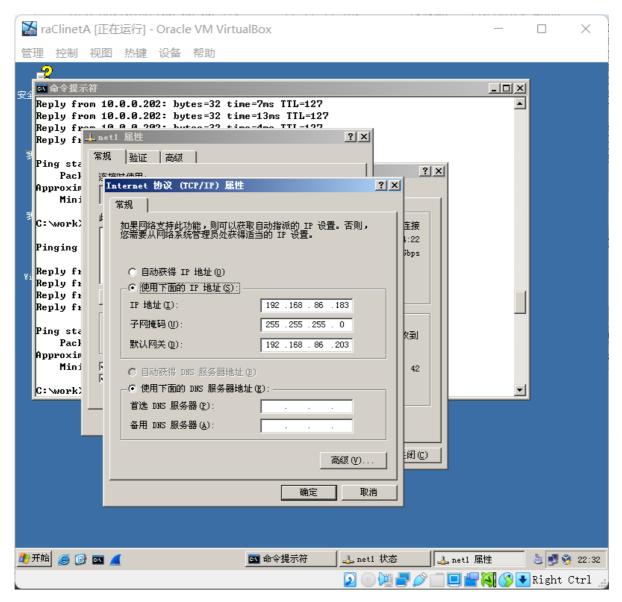
发现可以ping通,通过Wireshark监听所得到的数据包如下所示:



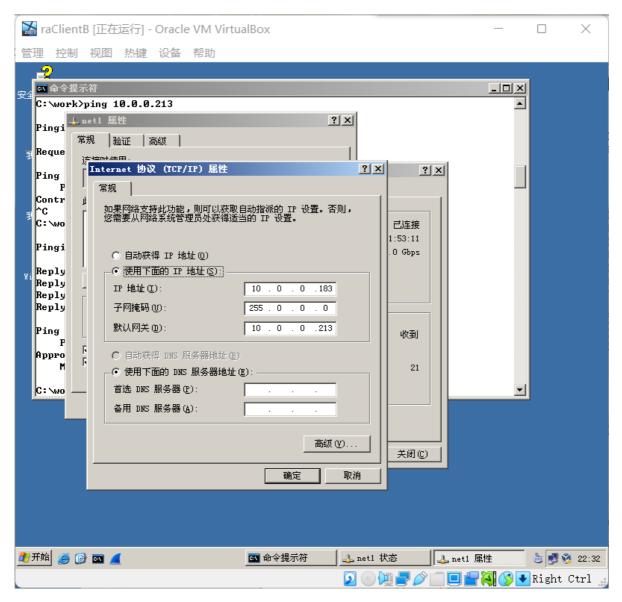
#### 4.4 做实验并写实验报告

修改ClientA和ClinetB的IPV4地址的最后一位为183,修改以下部分:

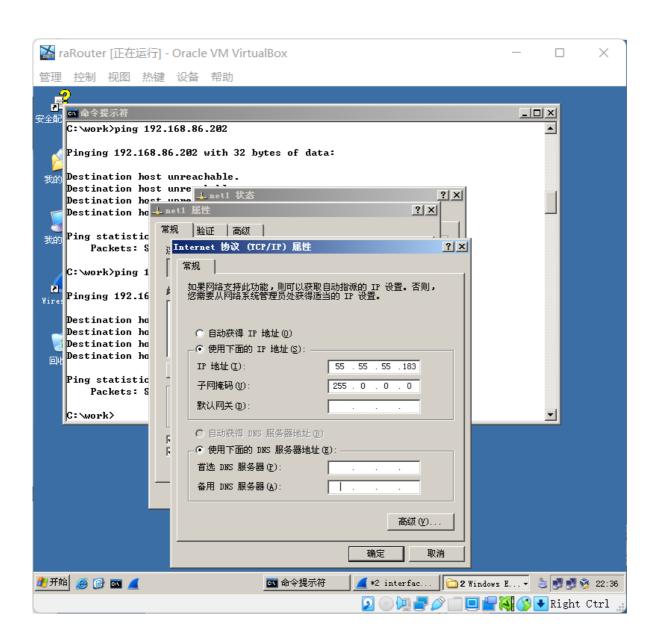
#### ClientA

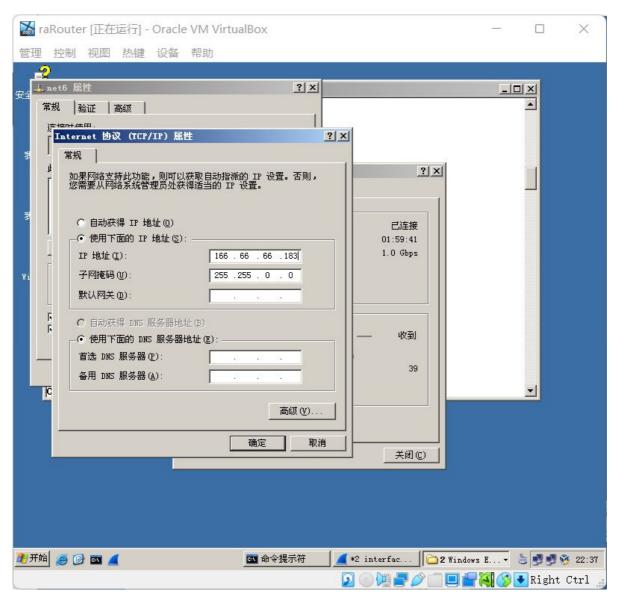


ClientB

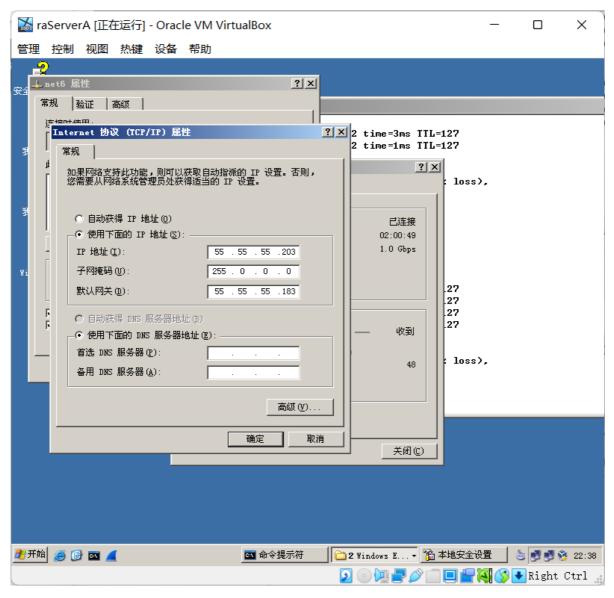


Router

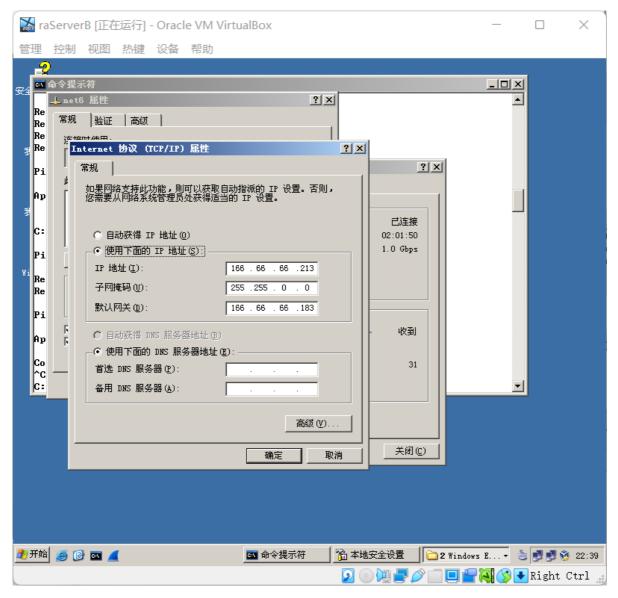




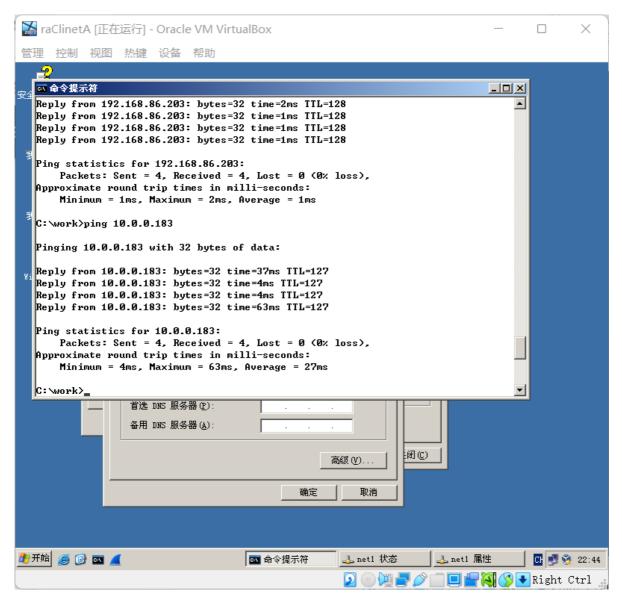
ServerA



ServerB



最终从ClientA Ping 10.0.0.183至ClientB,最终结果如下:



此时,修改后的ClientA与ClientB也可以通过局域网进行通信。