

BÀI THỰC HÀNH SỐ 8

XÂY DỰNG MỘT INTERNET CONECTION SERVER

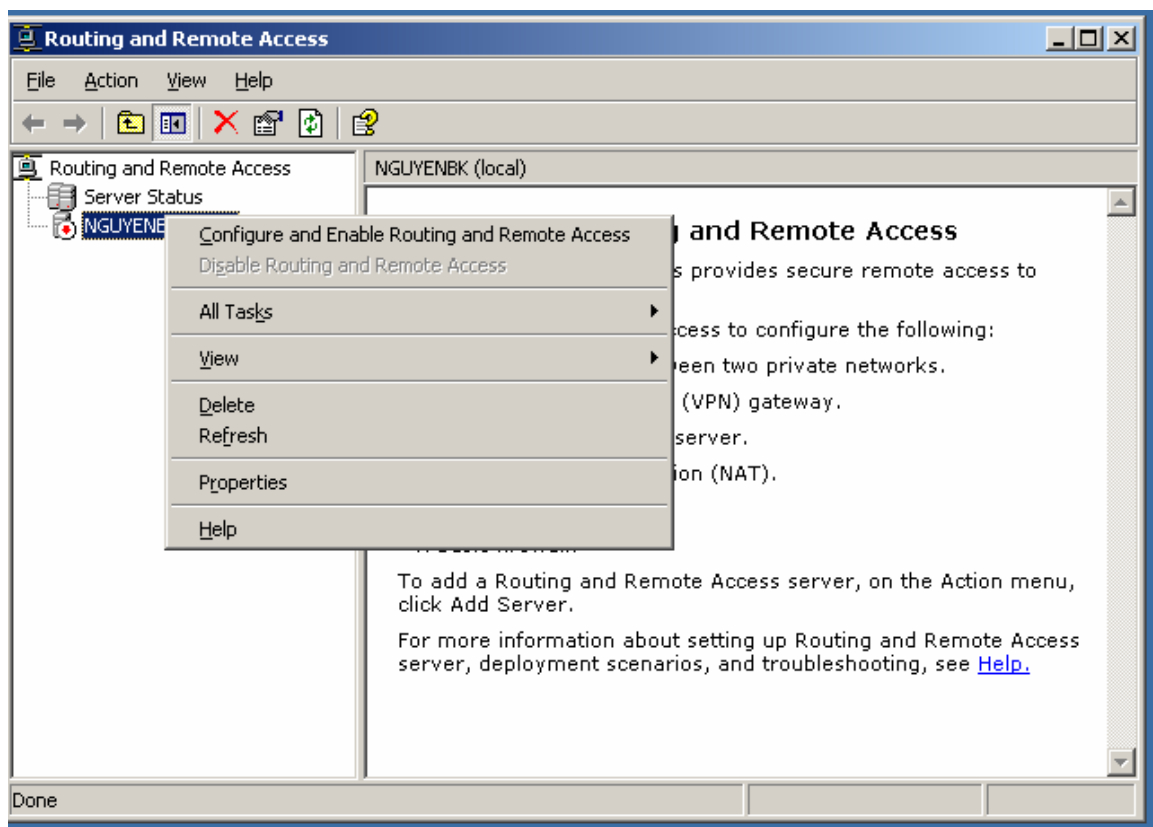
1. Mục đích

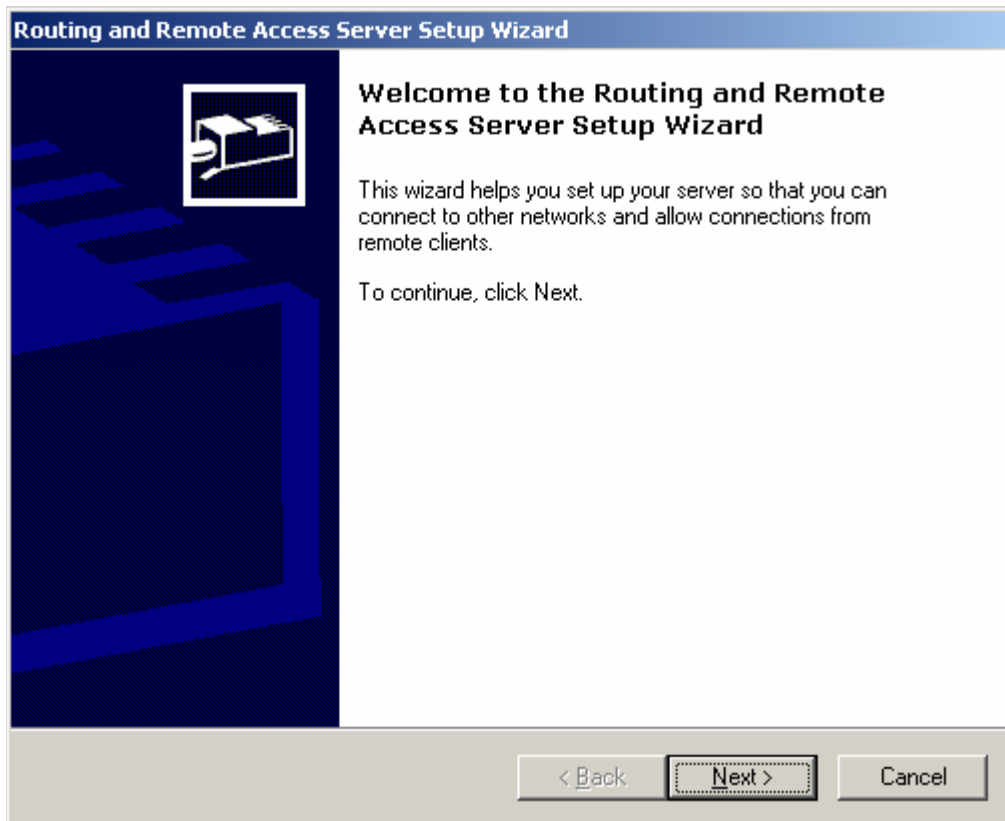
Để quản lý một hệ thống mạng nhỏ, sử dụng TCP/IP và bạn định thiết lập kết nối internet cho hệ thống của mình. Thông thường, các hệ thống mạng như vậy sử dụng địa chỉ riêng (private address). Để các máy bên trong mạng của bạn có thể truy xuất ra mạng internet, bạn cần phải có máy tính đóng vai trò như một ROUTER hỗ trợ cơ chế **Network Address Translation (NAT)**

2. Cách thực hiện

a. Cấu hình trên Windows Server 2003

- Chọn Routing and Remote Access.
- Xem hình vẽ sau
- Chọn configure and enable Routing and Remote Access





-Chọn NAT

Routing and Remote Access Server Setup Wizard

Configuration

You can enable any of the following combinations of services, or you can customize this server.

☐ Remote access (dial-up or VPN)
Allow remote clients to connect to this server through either a dial-up connection or a secure Virtual Private Network (VPN) Internet connection.

☒ Network address translation (NAT)
Allow internal clients to connect to the Internet using one public IP address.

☐ Virtual Private Network (VPN) access and NAT
Allow remote clients to connect to this server through the Internet and local clients to connect to the Internet using a single public IP address.

☐ Secure connection between two private networks
Connect this network to a remote network, such as a branch office.

☐ Custom configuration
Select any combination of the features available in Routing and Remote Access.

For more information about these options, see [Routing and Remote Access Help](#).

< Back Next > Cancel

Routing and Remote Access Server Setup Wizard

NAT Internet Connection

You can select an existing interface or create a new demand-dial interface for client computers to connect to the Internet.

☐ Use this public interface to connect to the Internet:

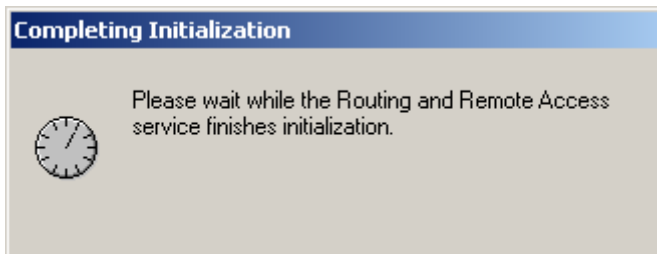
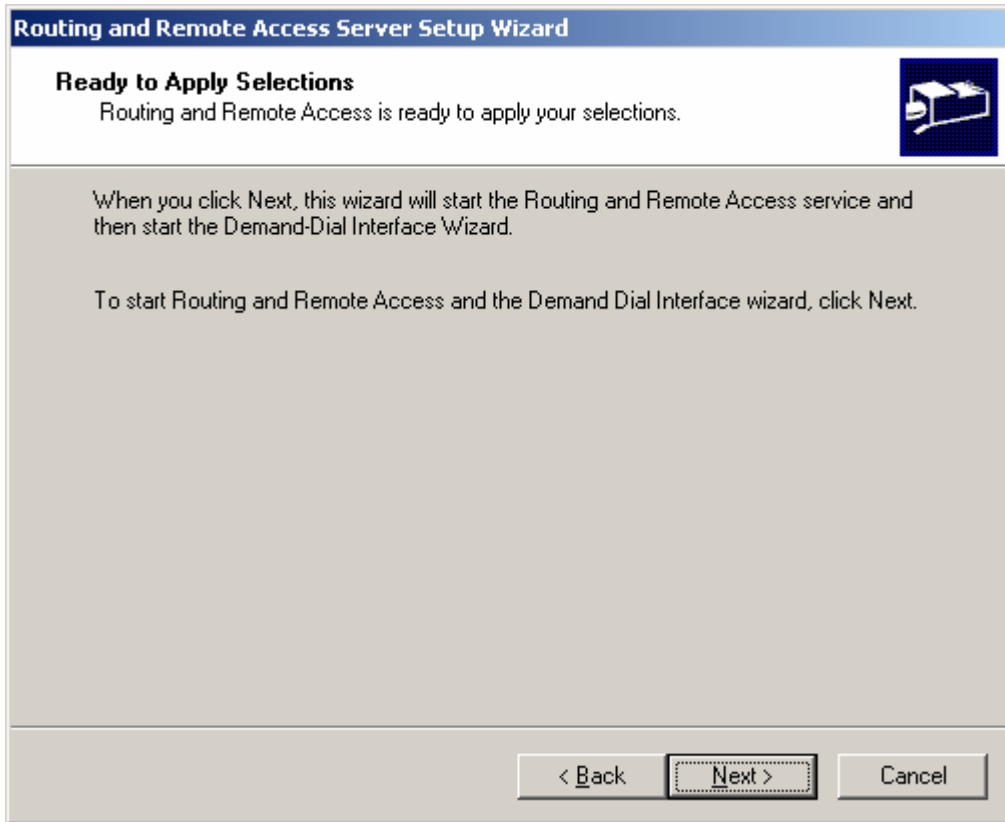
Name	Description	IP Address
Local Area Connection	Intel(R) PRO/100 VE ...	192.168.1.1

☒ Create a new demand-dial interface to the Internet
A demand-dial interface is activated when a client uses the Internet. Select this option if this server connects with a modem or by using the Point-to-Point Protocol over Ethernet. The Demand-Dial Interface Wizard will start at the end of this wizard.

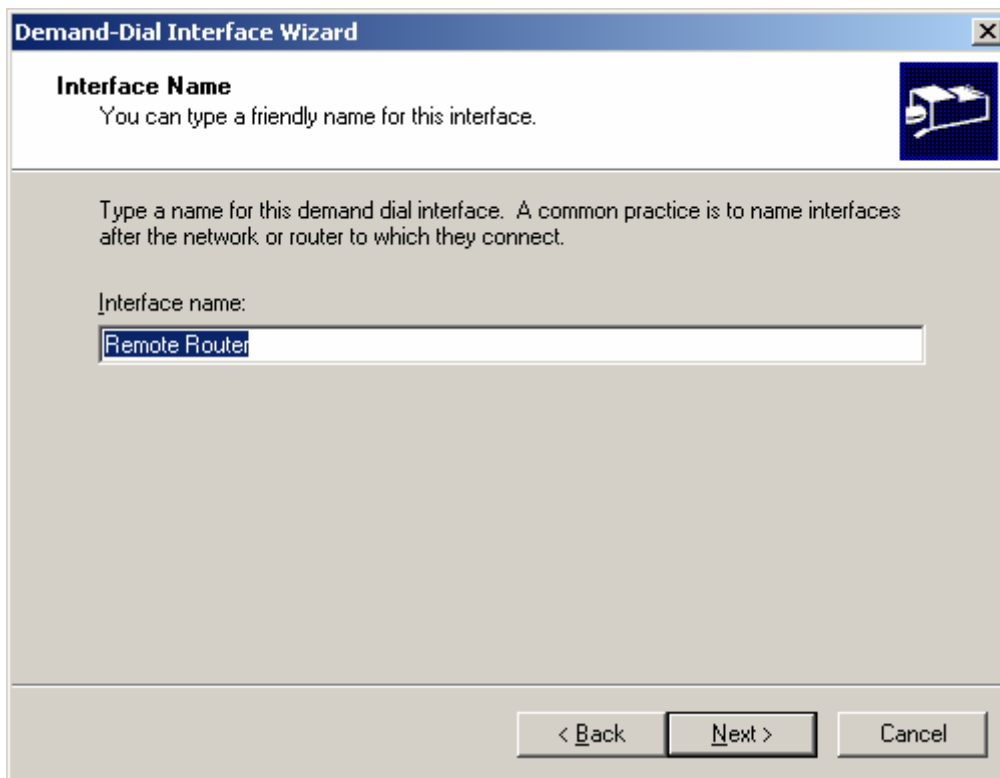
☒ Enable security on the selected interface by setting up Basic Firewall.
Basic Firewall prevents unauthorized users from gaining access to this server through the Internet.

For more information about network interfaces, see [Routing and Remote Access Help](#).

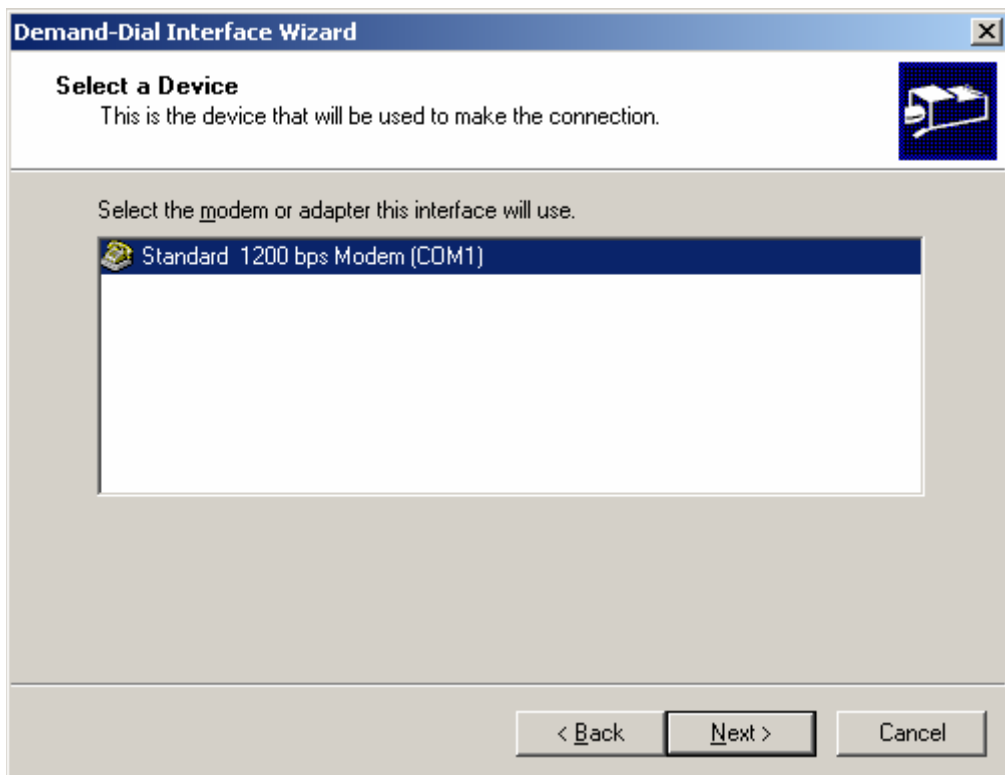
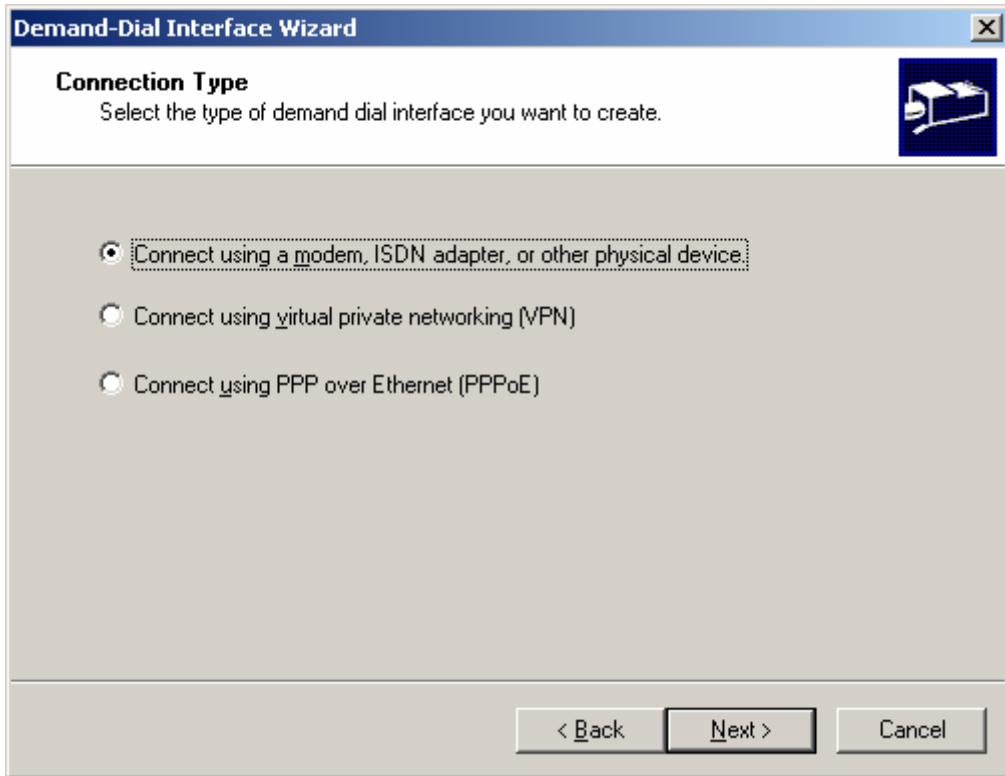
< Back Next > Cancel

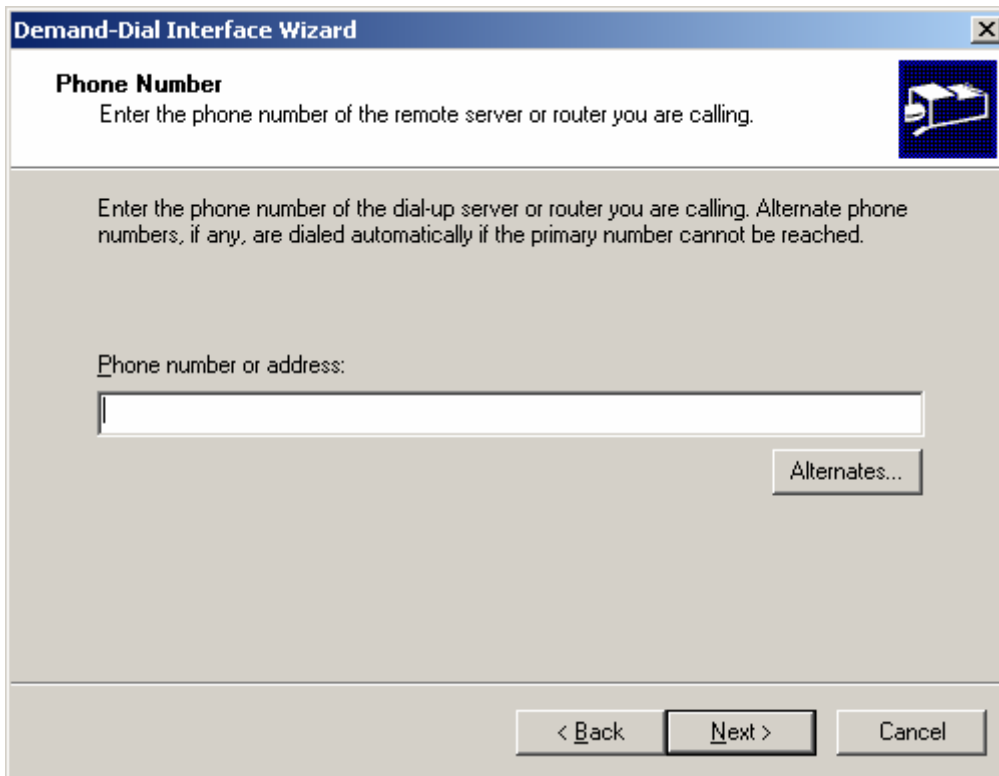


- Hộp thoại Interface : Bạn nên đặt tên của Router ở xa để quản lý



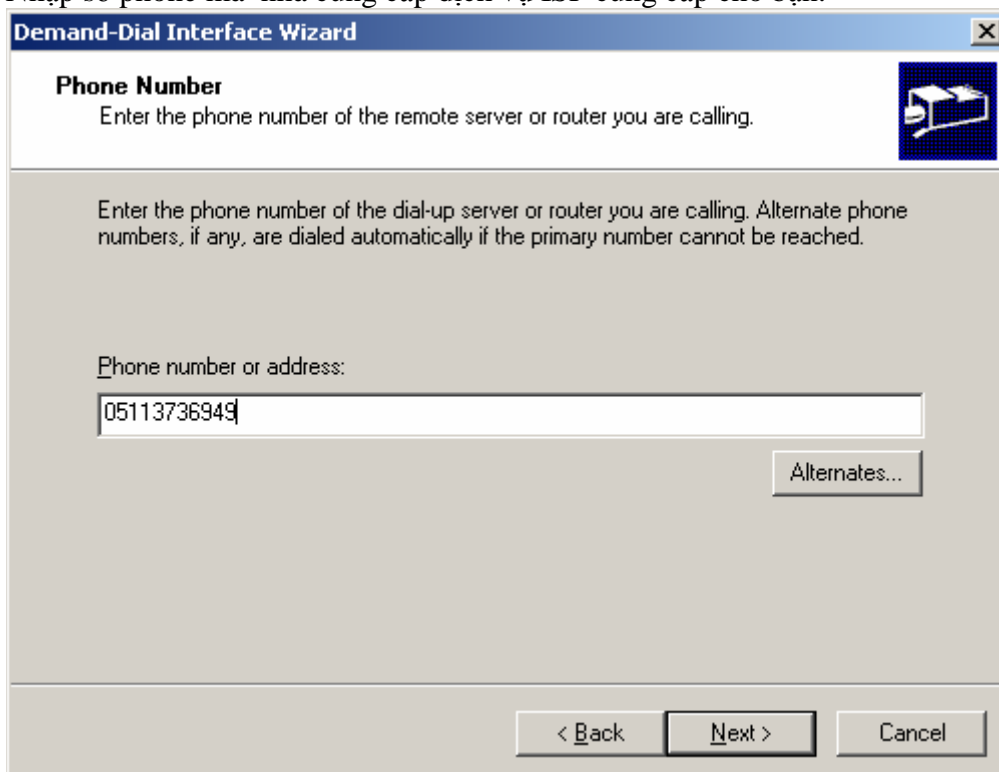
- Chọn kết nối mà interface này sử dụng
 - a. Dùng modem hay
 - b. VPN
 - c. PPP



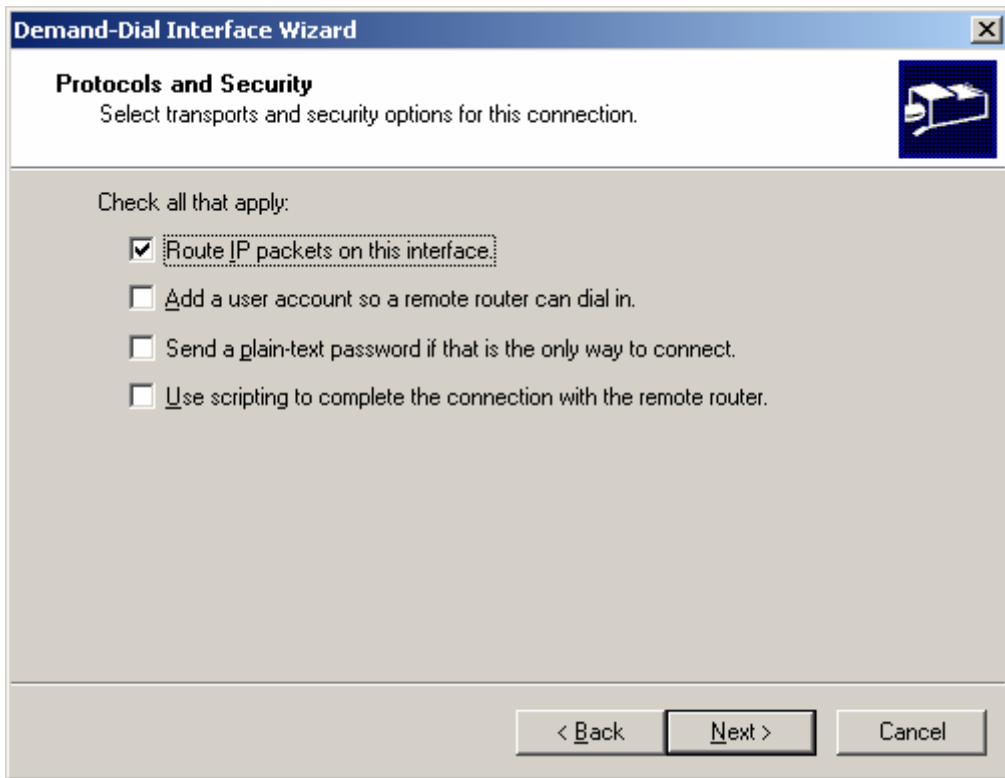


The image shows the 'Demand-Dial Interface Wizard' window, specifically the 'Phone Number' step. The window has a title bar with the text 'Demand-Dial Interface Wizard' and a close button. Below the title bar, the section is titled 'Phone Number' with a sub-instruction: 'Enter the phone number of the remote server or router you are calling.' To the right of this text is a small icon of a computer monitor. Below this, a larger instruction reads: 'Enter the phone number of the dial-up server or router you are calling. Alternate phone numbers, if any, are dialed automatically if the primary number cannot be reached.' There is a text input field labeled 'Phone number or address:' which is currently empty. To the right of the input field is a button labeled 'Alternates...'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

Nhập số phone mà nhà cung cấp dịch vụ ISP cung cấp cho bạn.



This image is identical to the one above, showing the 'Demand-Dial Interface Wizard' window at the 'Phone Number' step. The only difference is that the text input field labeled 'Phone number or address:' now contains the phone number '05113736949'.



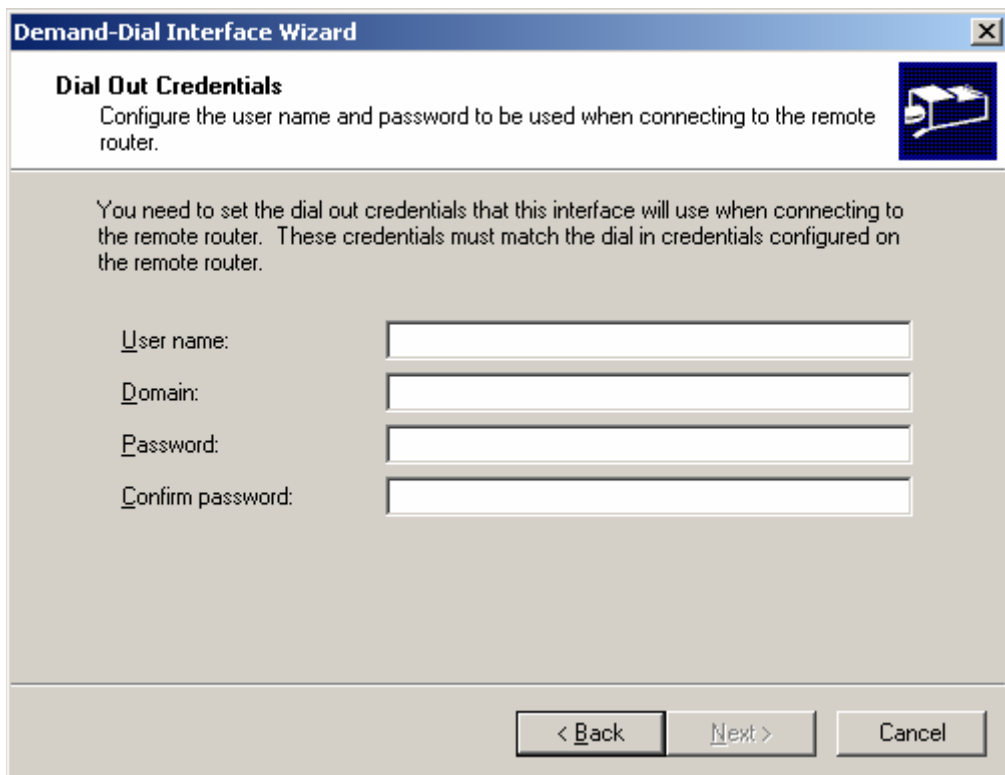
Demand-Dial Interface Wizard

Protocols and Security
Select transports and security options for this connection.

Check all that apply:

- ☒ Route IP packets on this interface.
- ☐ Add a user account so a remote router can dial in.
- ☐ Send a plain-text password if that is the only way to connect.
- ☐ Use scripting to complete the connection with the remote router.

< Back Next > Cancel



Demand-Dial Interface Wizard

Dial Out Credentials
Configure the user name and password to be used when connecting to the remote router.

You need to set the dial out credentials that this interface will use when connecting to the remote router. These credentials must match the dial in credentials configured on the remote router.

User name:

Domain:

Password:

Confirm password:

< Back Next > Cancel

Demand-Dial Interface Wizard

Dial Out Credentials

Configure the user name and password to be used when connecting to the remote router.

You need to set the dial out credentials that this interface will use when connecting to the remote router. These credentials must match the dial in credentials configured on the remote router.

User name: vnn1269

Domain:

Password: xxxxxxxx

Confirm password: xxxxxxxx

< Back Next > Cancel

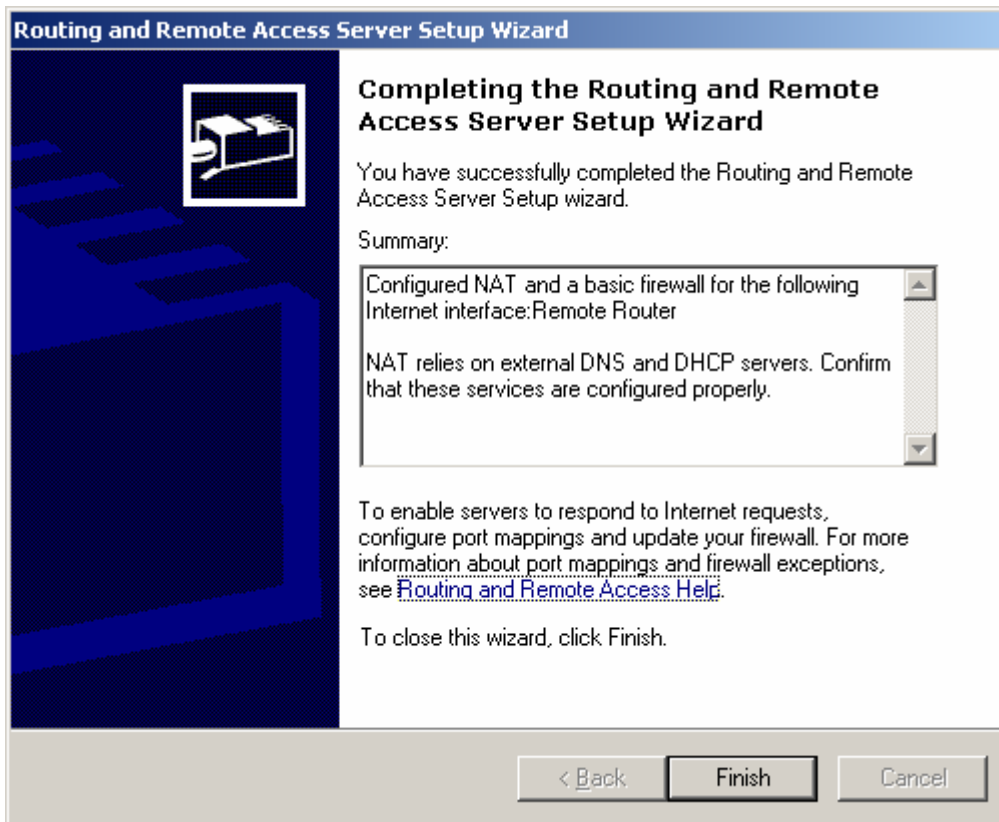
Demand-Dial Interface Wizard

Completing the Demand-Dial Interface Wizard.

You have successfully completed the Demand-Dial Interface Wizard.

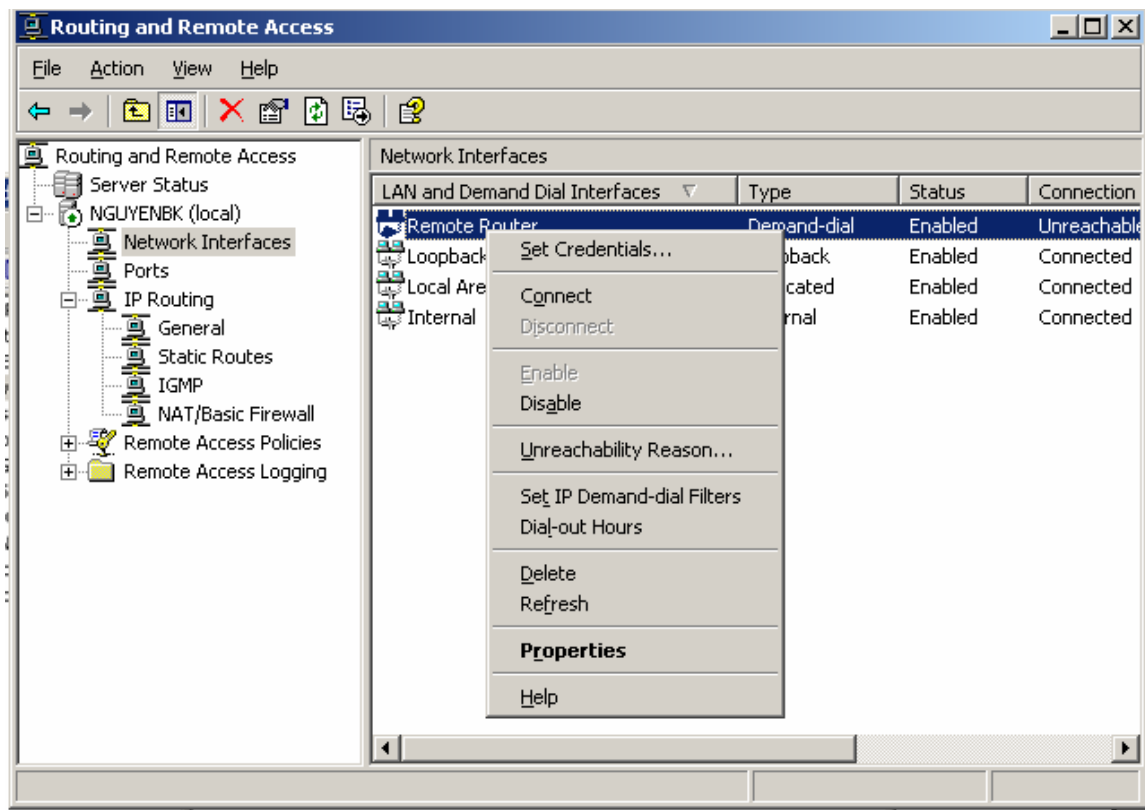
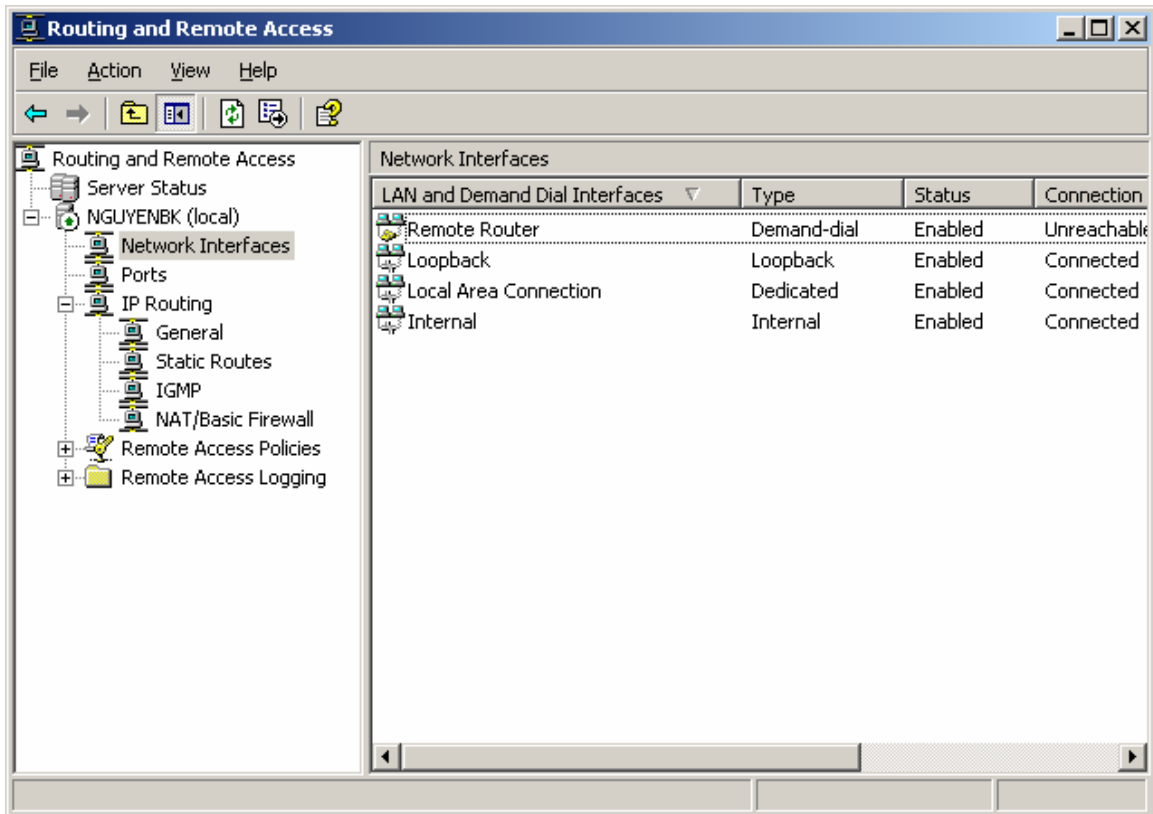
When you click Finish, this wizard creates the interface and enables it on the router. To edit the interface, in the Routing and Remote Access snap-in, click Network Interfaces. Select the interface, and then click Properties.

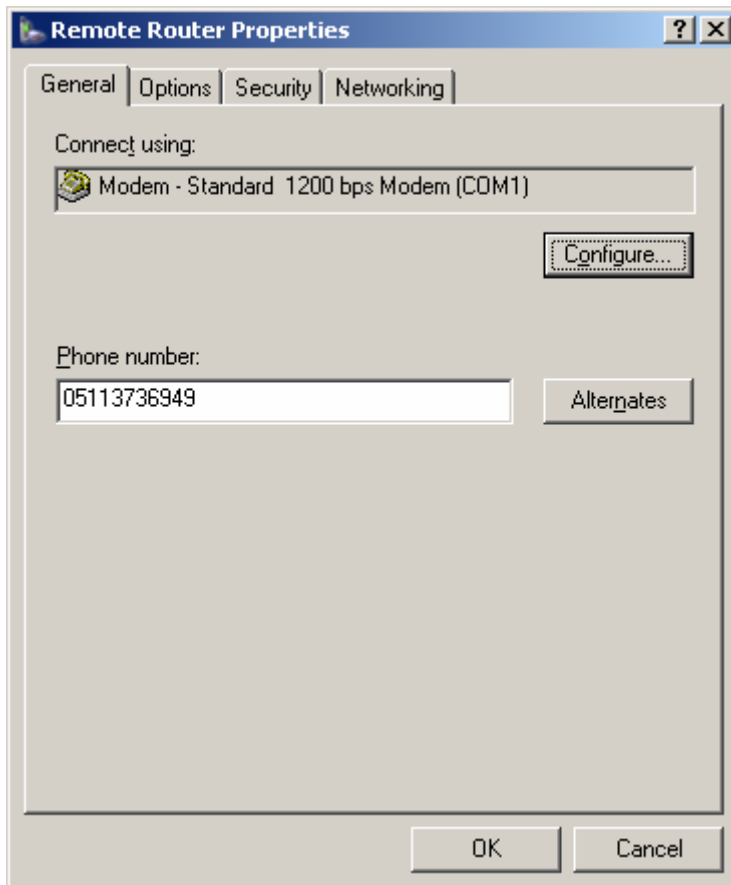
< Back Finish Cancel



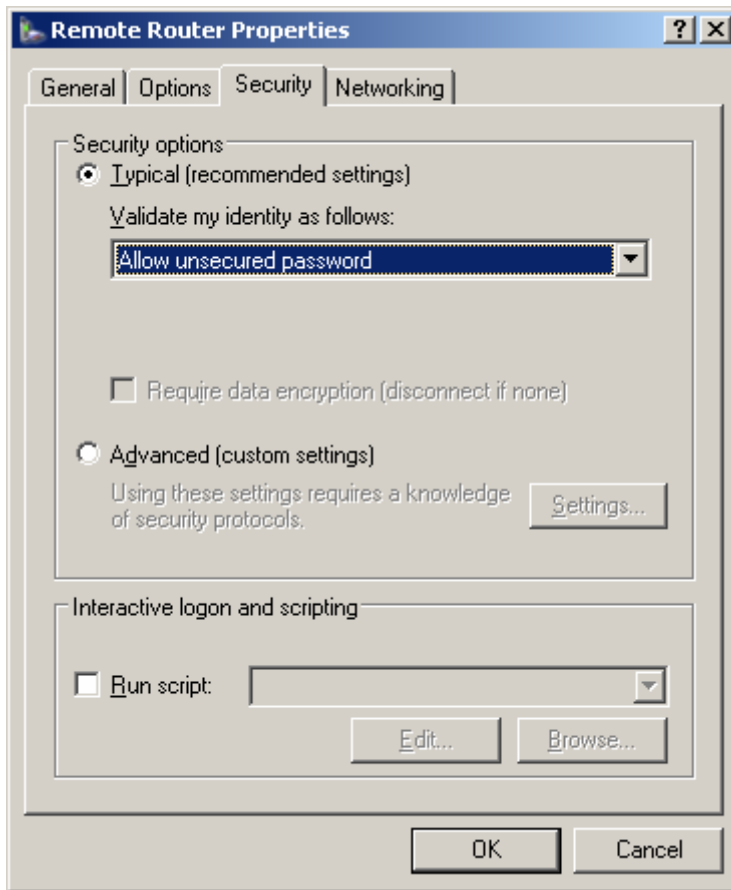
Chọn Finish

Sau khi bạn đã tạo xong demand-dial interface, tùy theo nhà cung cấp dịch vụ ISP có chấp nhận thiết lập kết nối an toàn hoặc không an toàn.
Hiện nay, các nhà cung cấp dịch vụ ở Việt Nam cung cấp các kết nối không mã hóa.
Như vậy trong mục Network Interfaces ta chọn như hình vẽ sau:

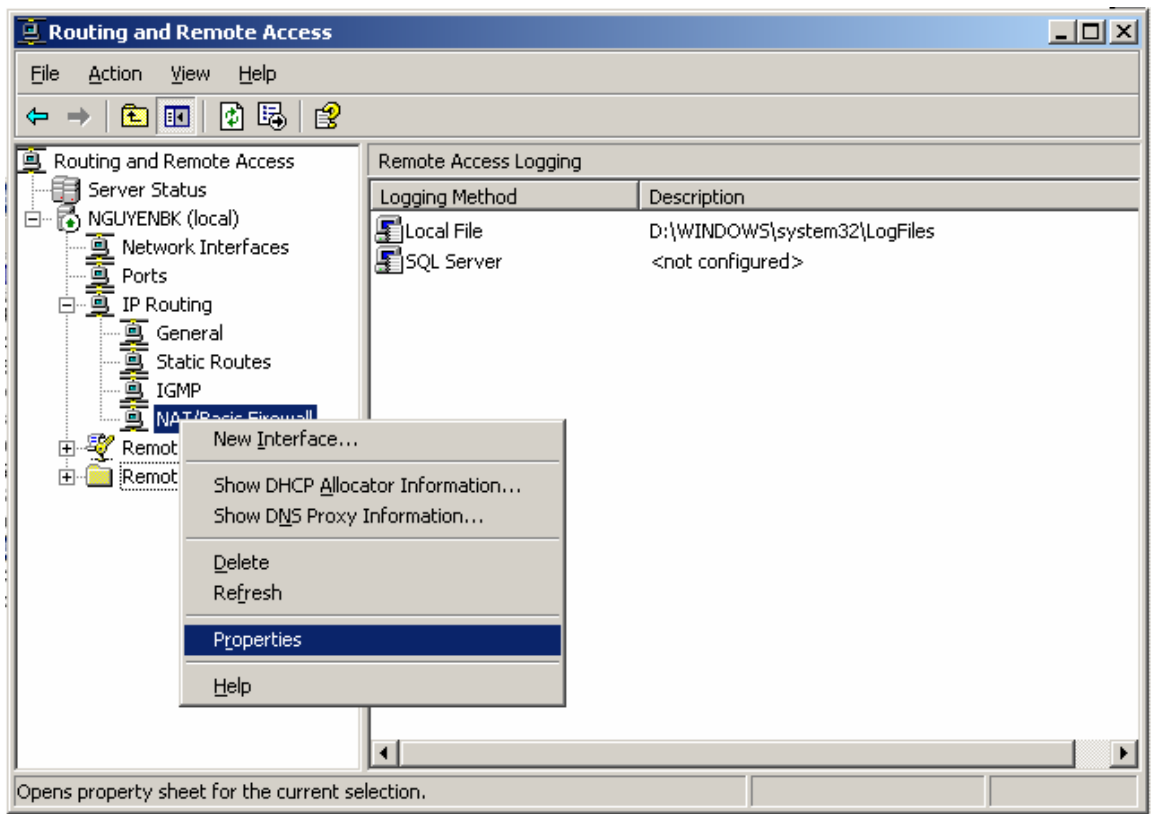
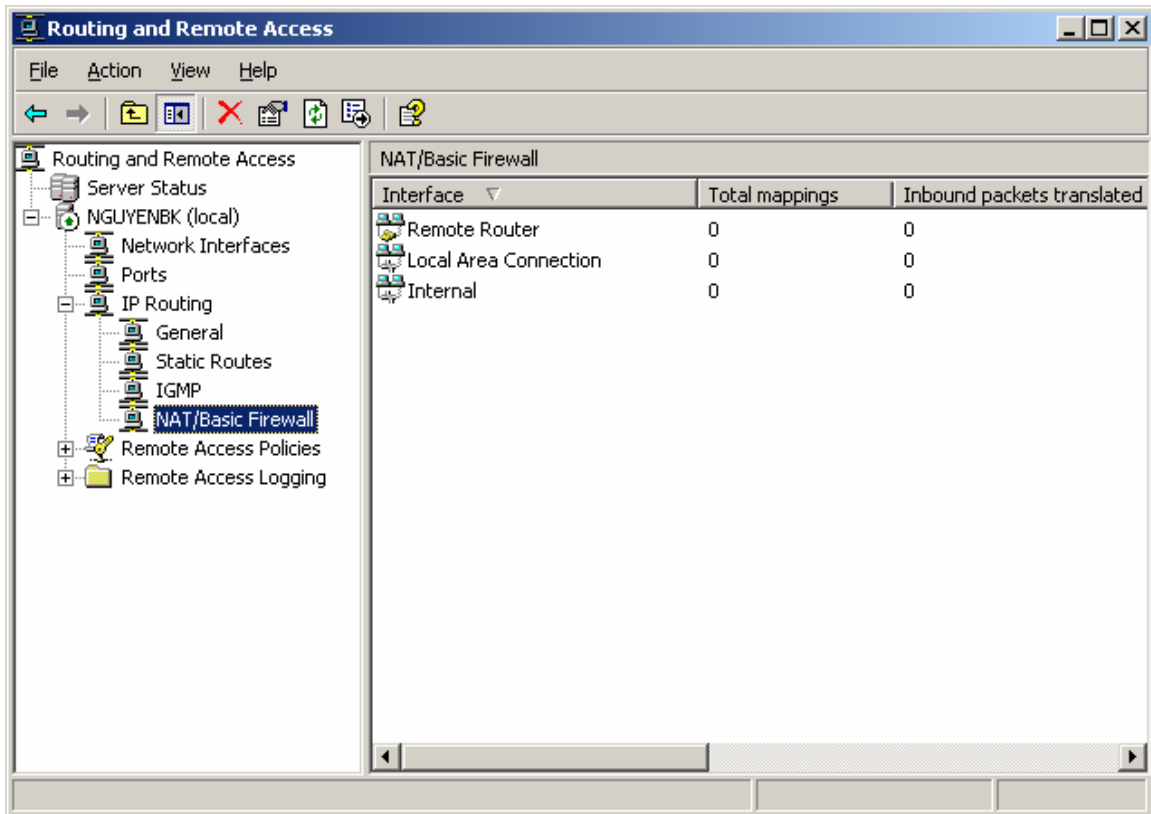


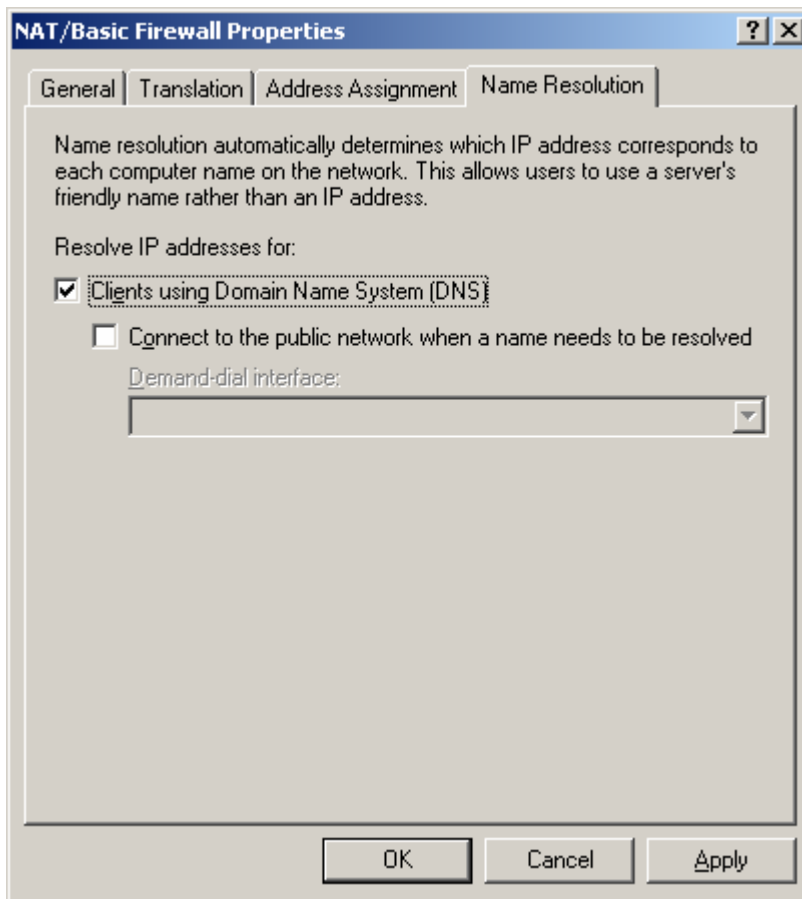


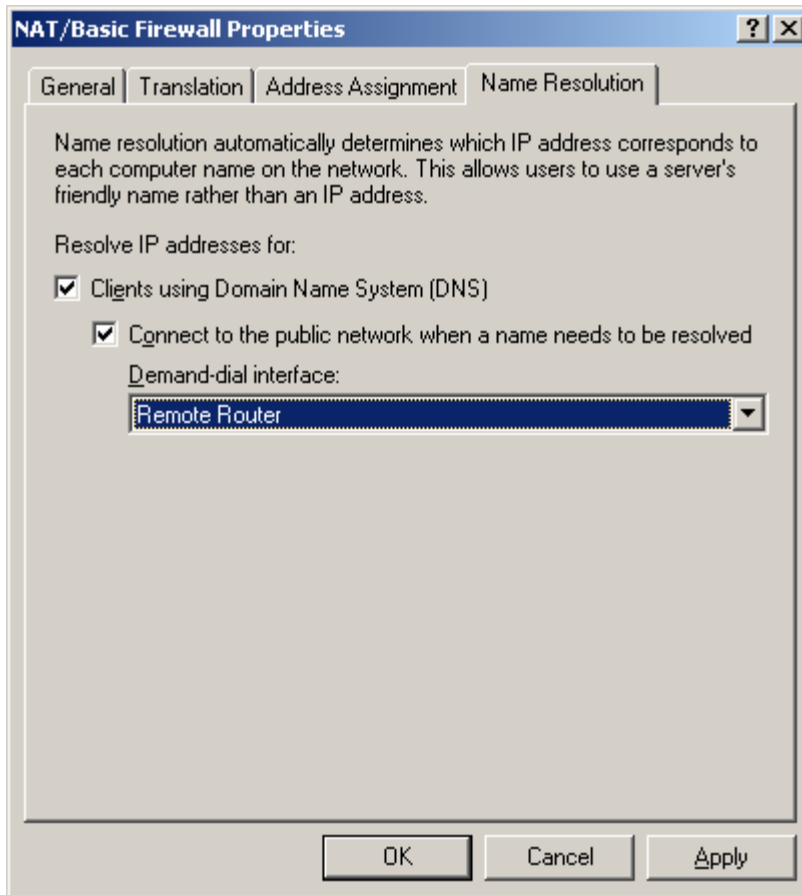
Chọn Tab Security



Mở rộng IP Routing
Chọn NAT







b. Cấu hình trên WORKSTATION

- Do trên server bạn vừa thiết lập NAT router và Forwarder DNS server, cho nên trên các WORKSTATION, ngoài việc cấu hình TCP/IP về địa chỉ IP, subnet mask, bạn phải chỉ định default gateways và DNS Server là địa chỉ của SERVER trên.