

LAB 13 – RADIUS QUẢN LÝ VPN

1. Chuẩn bị

Một máy DC làm file server, một máy radius server, và một máy VPN server

2. Tiến hành

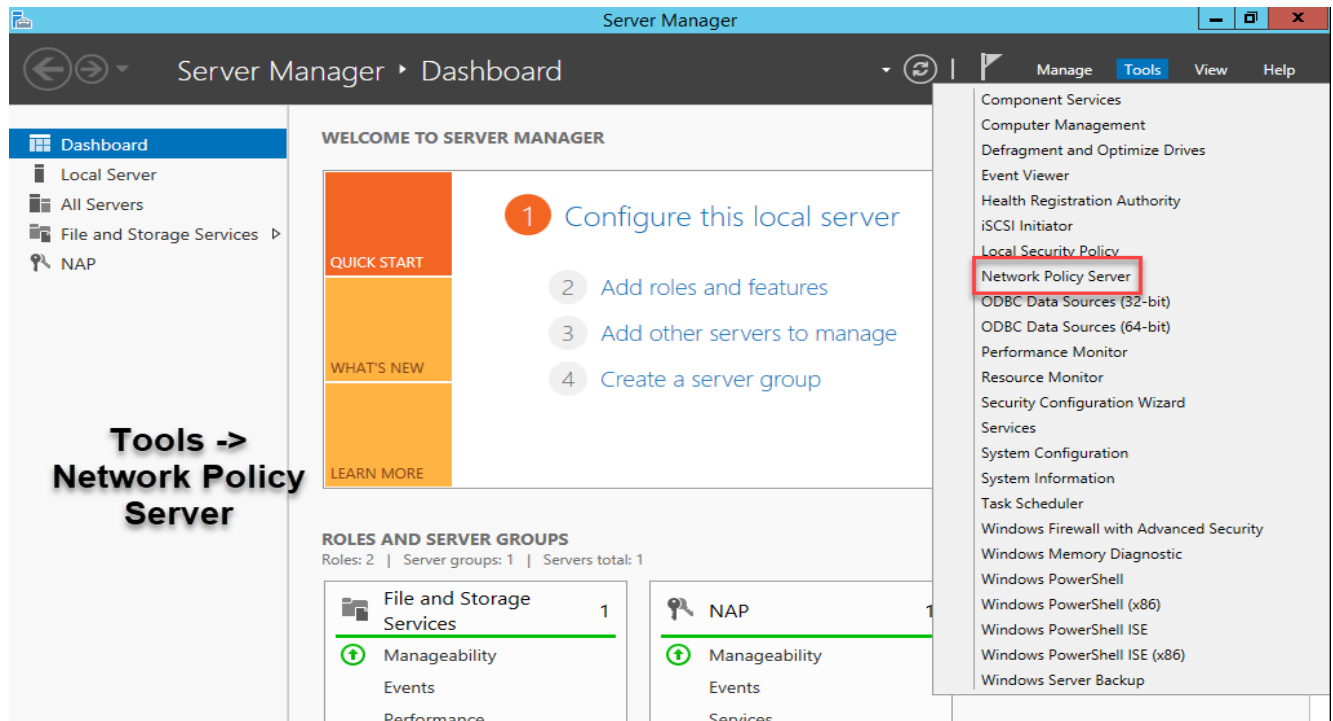
+ Máy DC tạo thư mục share và các user group.

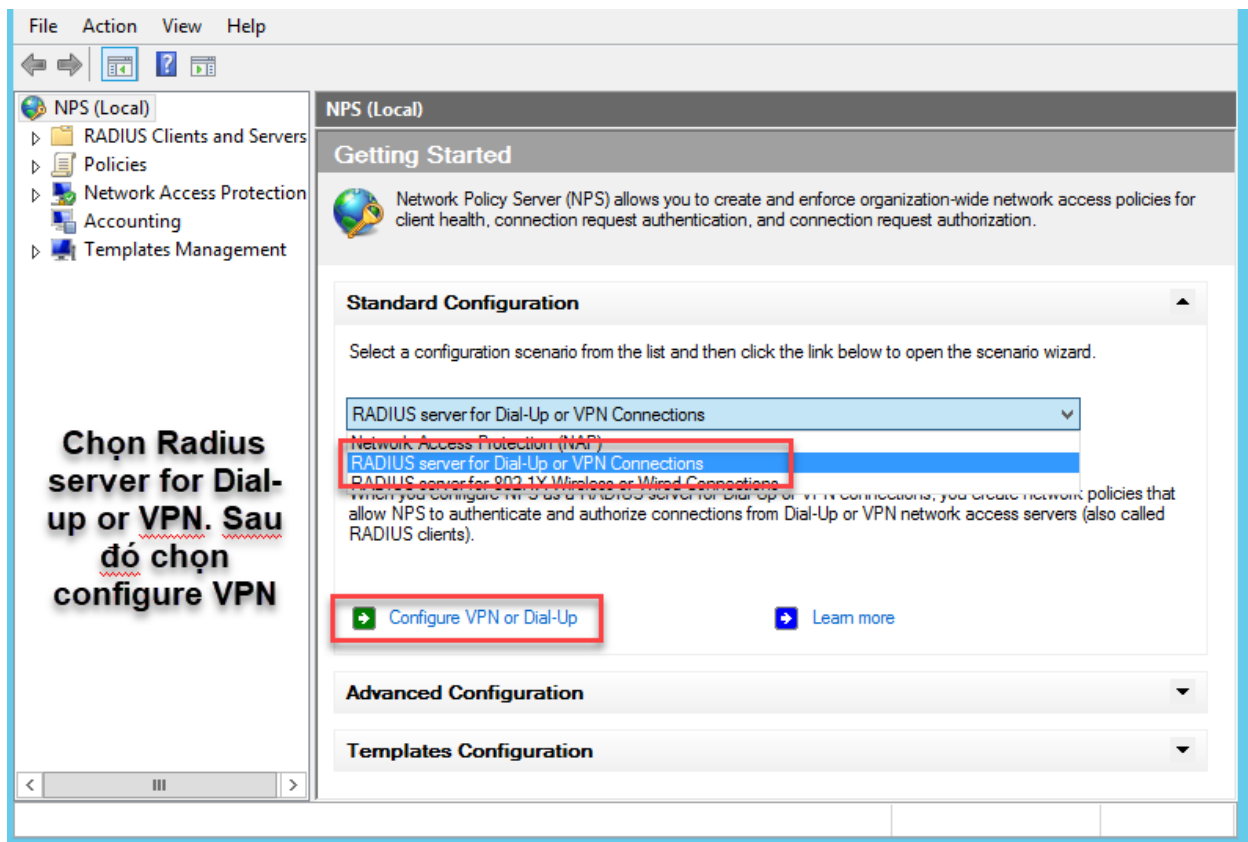
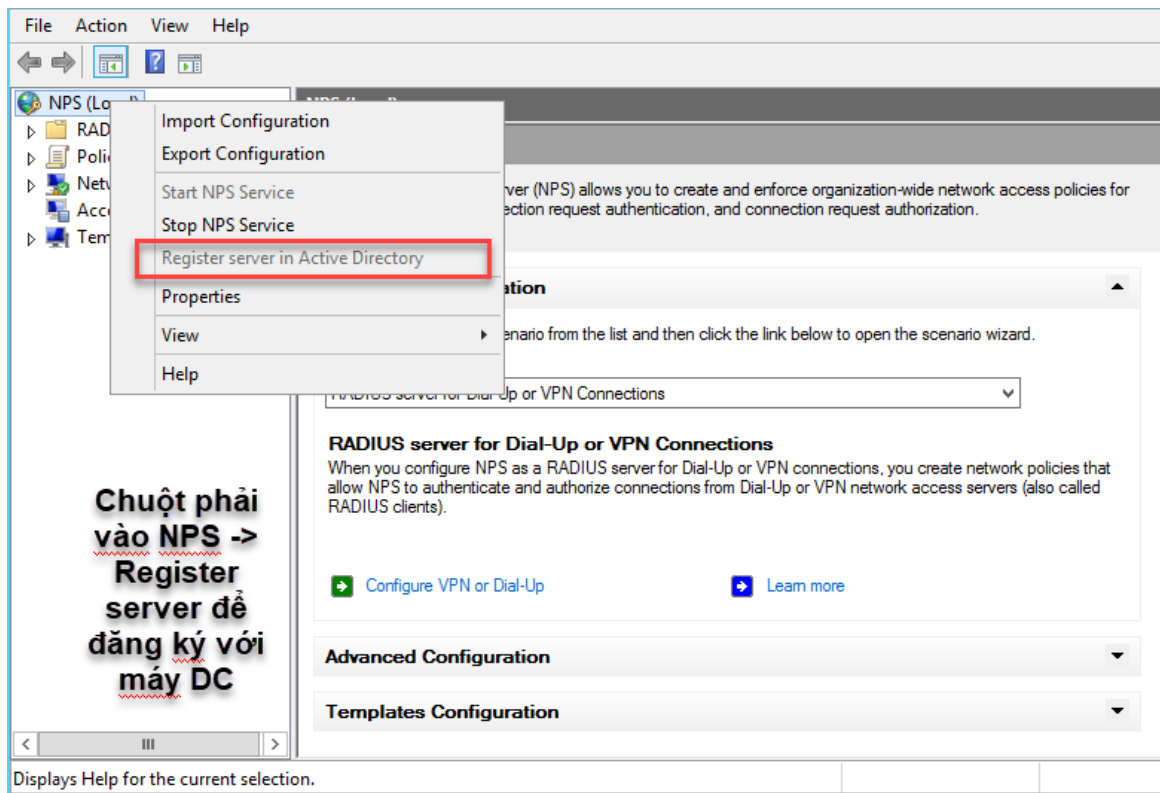
+ Máy Radius server join domain và tiến hành cài dịch vụ Network Policy and Access services như bài lab trước.

+ Trên máy VPN server tiến hành cài dịch vụ Remote Access. Máy VPN server phải có 2 card mạng một nối với DC và Radius sv, 1 card mạng nối ra internet.

+ Sau khi cài xong các dịch vụ ta tiến hành cấu hình.

Trên máy Radius server:





Configure VPN or Dial-Up

Select Dial-up or Virtual Private Network Connections Type

Type of connections:

☐ Dial-up Connections
When you deploy Dial-up servers on your network, NPS can authenticate and authorize connection requests made by dial-up clients connecting through the servers.

☒ Virtual Private Network (VPN) Connections
When you deploy VPN servers on your network, NPS can authenticate and authorize connection requests made by VPN clients connecting through the servers.

Name:
This default text is used as part of the name for each of the policies created with this wizard. You can use the default text or modify it.

VPN-2

Chọn VPN connections và đặt tên

Configure VPN or Dial-Up

Specify Dial-Up or VPN Server

RADIUS clients are network access servers, not client computers. If the local computer is running Routing and Remote Access as a VPN server, it is automatically added to the list of RADIUS clients below.

If you want to add remote VPN servers as RADIUS clients, click Add.

RADIUS clients:

RDS

Thêm máy Radius client tiến hành như bài lab trước. Địa chỉ IP của radius client là IP mặt trong của máy VPN server

RDS Properties

Settings

☐ Select an existing template:

Name and Address

Friendly name:
RDS

Address (IP or DNS):
10.10.10.254

Shared Secret

Select an existing Shared Secrets template:
None

To manually type a shared secret, click Manual. To automatically generate a shared secret, click Generate. You must configure the RADIUS client with the same shared secret entered here. Shared secrets are case-sensitive.

☒ Manual ☐ Generate

Shared secret:
.....

Confirm shared secret:
.....

Configure VPN or Dial-Up

Configure Authentication Methods

The following protocols are supported by servers running Microsoft Routing and Remote Access. If you use a different remote access server, make sure the protocols you select are supported by that software.

☐ Extensible Authentication Protocol

Type (based on method of access and network configuration):
Microsoft: Smart Card or other certificate Configure...

☒ Microsoft Encrypted Authentication version 2 (MS-CHAPv2)
Select this option to allow your users to specify a password for authentication.

☐ Microsoft Encrypted Authentication (MS-CHAP)
Select this option only if your network runs operating systems that do not support MS-CHAPv2.

Giữ nguyên defaults và next

Previous Next Finish Cancel

Configure VPN or Dial-Up

Specify User Groups

Users that are members of the selected group or groups will be allowed or denied access based on the network policy Access Permission setting.

To select User Groups, click Add. If no groups are selected, this policy applies to all users.

Groups Add... Remove

Add group có chứa các users được phép VPN vào server

Previous Next Finish Cancel

Select Group

Select this object type:
Group Object Types...

From this location:
j1708a.com Locations...

Enter the object name to select (examples):
vpns1 Check Names

Advanced... OK Cancel

Configure VPN or Dial-Up

Specify IP Filters

Configure IPv4 and IPv6 packet filters if you want to restrict the type of network traffic sent and received.

If you are using Routing and Remote Access Service configured as a dial-up or VPN server, you can configure IPv4 and IPv6 input and output filters. Otherwise, click Next.

Select an existing IP Filter template:

None

IPv4

To control the IPv4 packets this interface sends, click Input Filters.

Input Filters...

To control the IPv4 packets this interface receives, click Output Filters.

Output Filters...

IPv6

To control the IPv6 packets this interface sends, click Input Filters.

Input Filters...

To control the IPv6 packets this interface receives, click Output Filters.

Output Filters...

Giữ nguyên defaults và next

Previous Next Finish Cancel

Configure VPN or Dial-Up

Specify Encryption Settings

Specify the allowed encryption strengths used for traffic between access clients and the network access server.

If you are using Routing and Remote Access Service configured as a dial-up or VPN server, you can configure encryption strength.

The encryption settings are supported by computers running Microsoft Routing and Remote Access Service.

If you use different network access servers for dial-up or VPN connections, ensure that the encryptions settings you select are supported by your servers.

If No encryption is the only option selected, traffic from access clients to the network access server is not secured by encryption. This configuration is not recommended.

☒ Basic encryption (MPPE 40-bit)

☒ Strong encryption (MPPE 56-bit)

☒ Strongest encryption (MPPE 128-bit)

tiếp tục next

Previous Next Finish Cancel

Configure VPN or Dial-Up

Specify a Realm Name

If you specify a realm name, the user account location supplied by users in log on credentials, such as a domain name, is replaced by the value you choose.

Your ISP uses a portion of the user name to identify which connection requests to route to this server. This part of the user name is the realm name.

If you do not know your realm name, contact your ISP. If you do not care about realm name, please click next.

Type the realm name, including the separator character (the period or the forward slash), that your ISP uses to forward requests.

Realm name:

Example: ISP:

☒ Before authentication, remove the realm name from the user name

If the realm name is an identifier added to the existing Windows user name, it must be removed before Windows can authenticate the connection request.

Điền tên và next

Previous Next Finish Cancel

Configure VPN or Dial-Up

Completing New Dial-up or Virtual Private Network Connections and RADIUS clients

You have successfully created the following policies and configured the following RADIUS clients.

- To view the configuration details in your default browser, click Configuration Details.
- To change the configuration, click Previous.
- To save the configuration and close this wizard, click Finish.

Connection Request Policy:
VPN-2

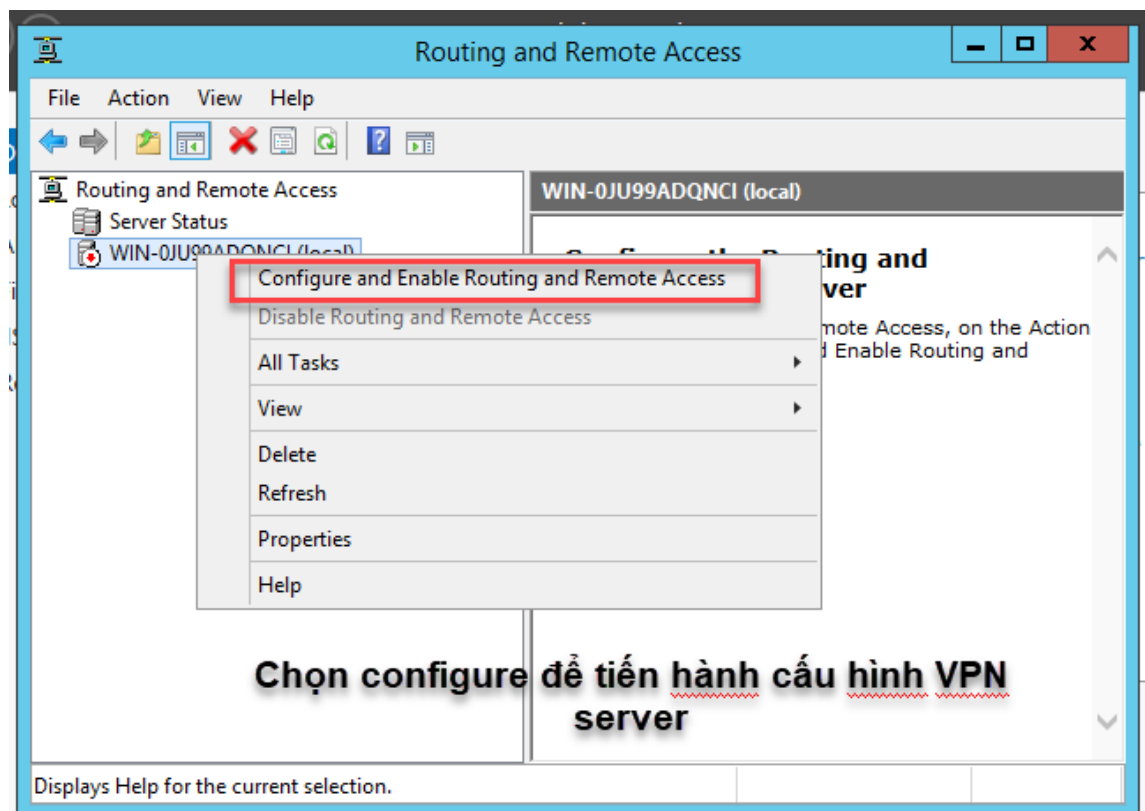
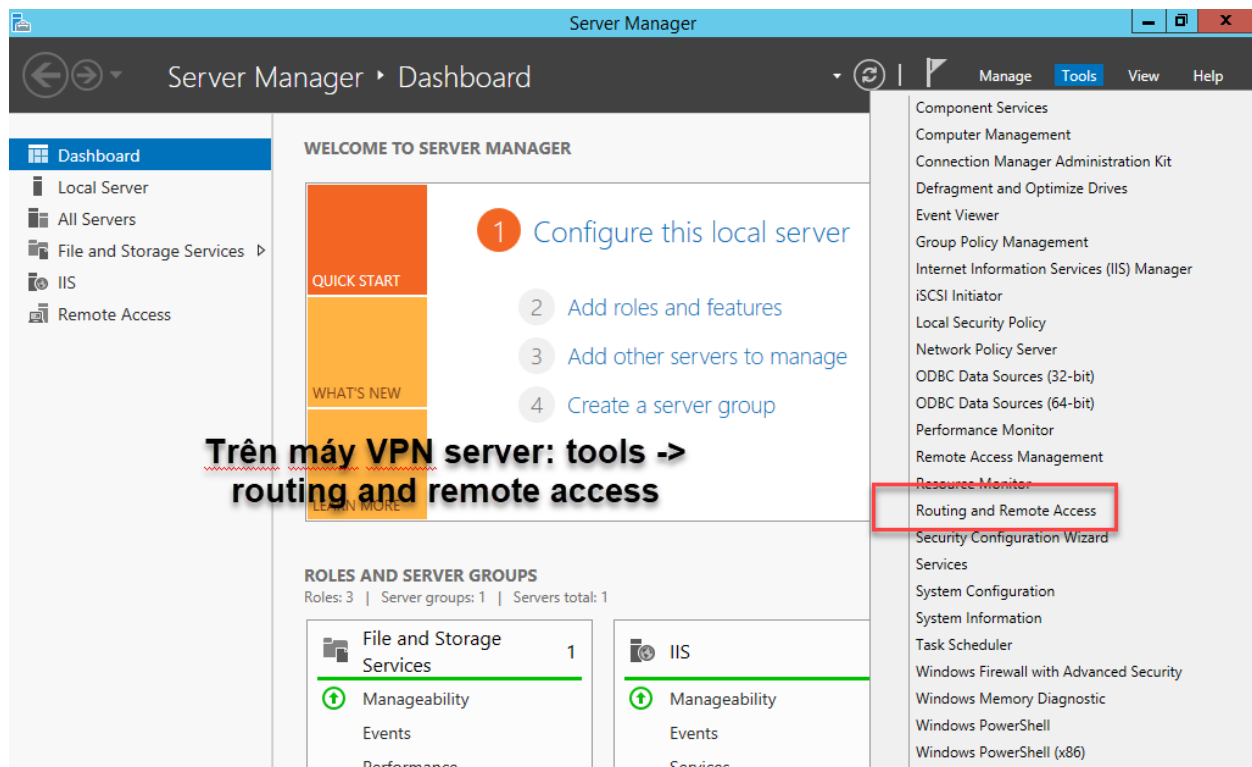
Network Policies:
VPN-2

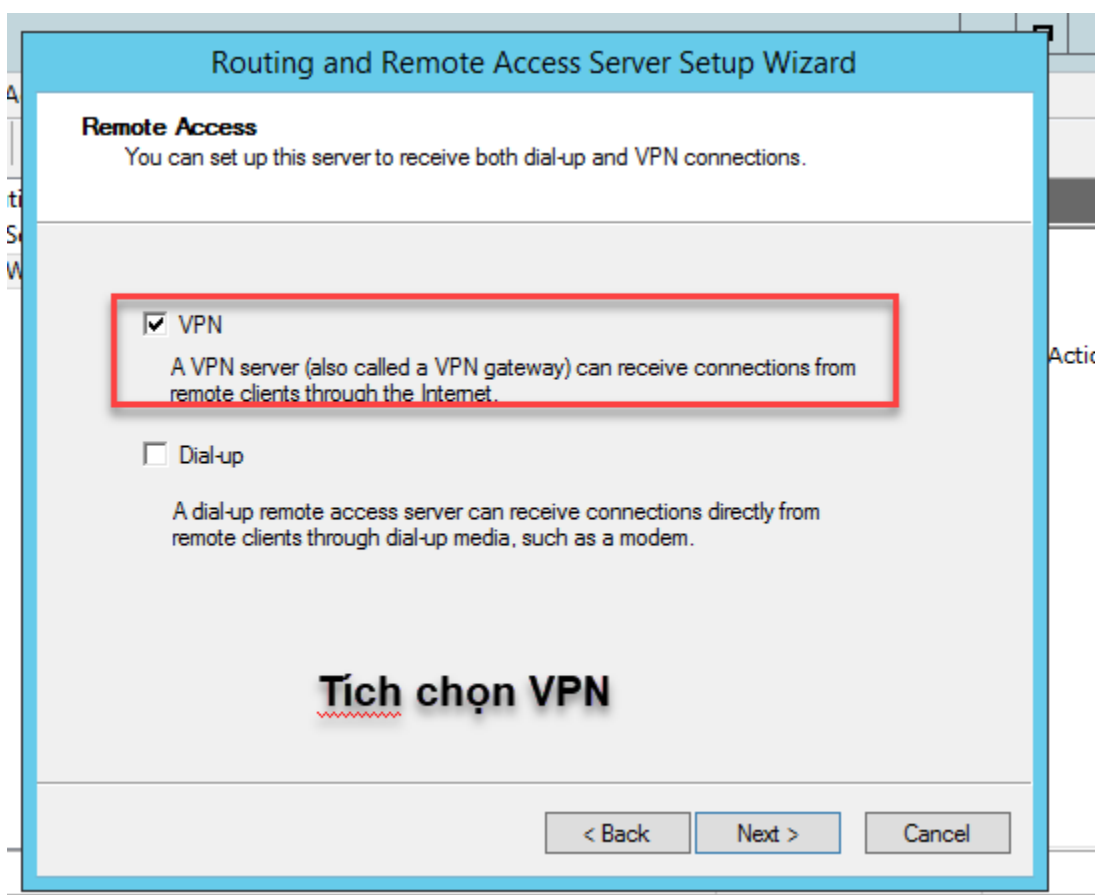
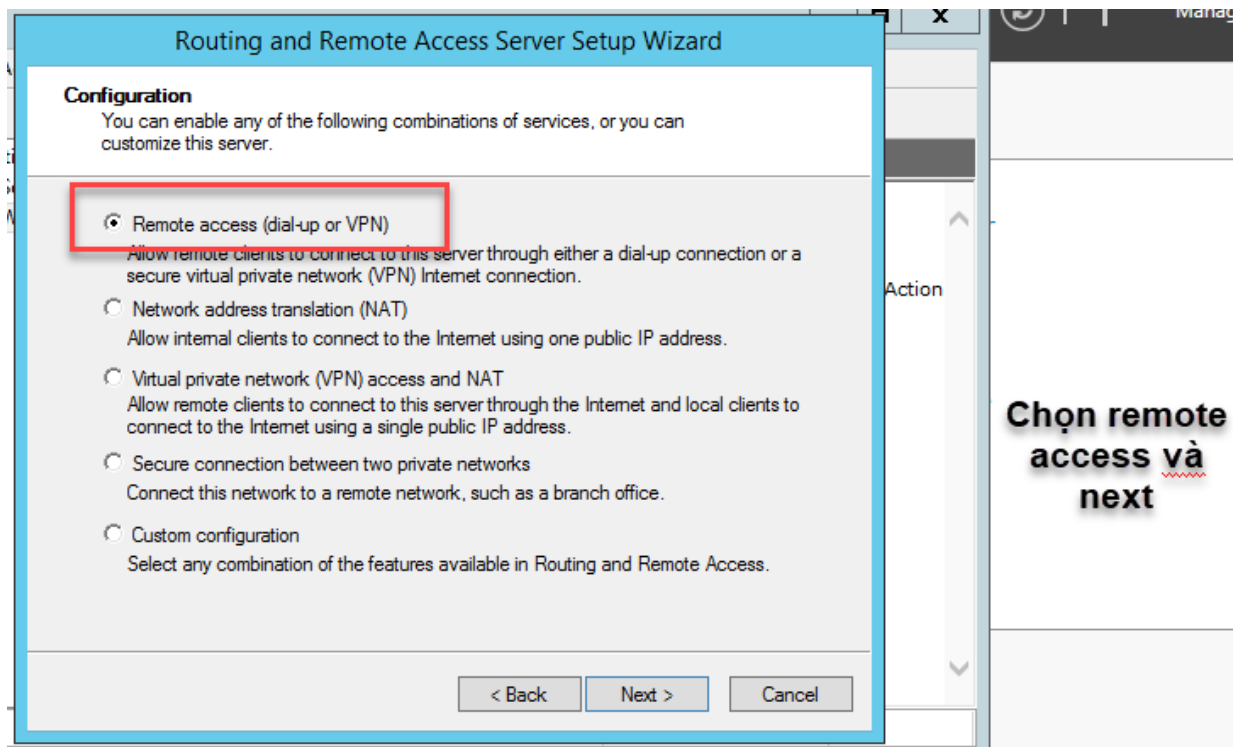
Finish để hoàn tất cấu hình radius

[Configuration Details](#)

Previous Next Finish Cancel

+ Trên máy VPN server:





Routing and Remote Access Server Setup Wizard

VPN Connection

To enable VPN clients to connect to this server, at least one network interface must be connected to the Internet.

Select the network interface that connects this server to the Internet.

Network interfaces:

Name	Description	IP Address
Ethernet0	Intel(R) 82574L Gigabit ...	10.10.10.254
Ethernet1	Intel(R) 82574L Gigabit ...	10.88.88.138 (DHCP)

☐ Enable security on the selected interface by setting up static packet filters.
Static packet filters allow only VPN traffic to gain access to this server through the selected interface.

Đối với card nối với mạng internet ta bỏ chọn enable security

< Back Next > Cancel

Routing and Remote Access Server Setup Wizard

IP Address Assignment

You can select the method for assigning IP addresses to remote clients.

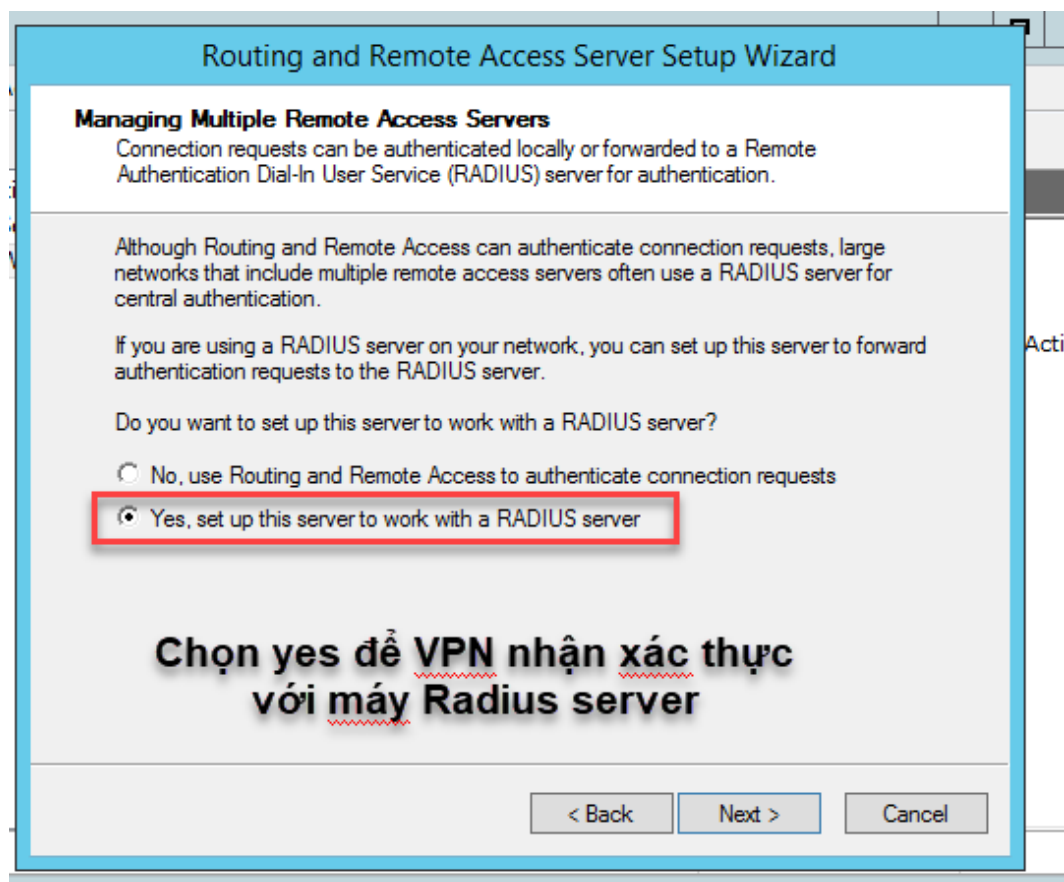
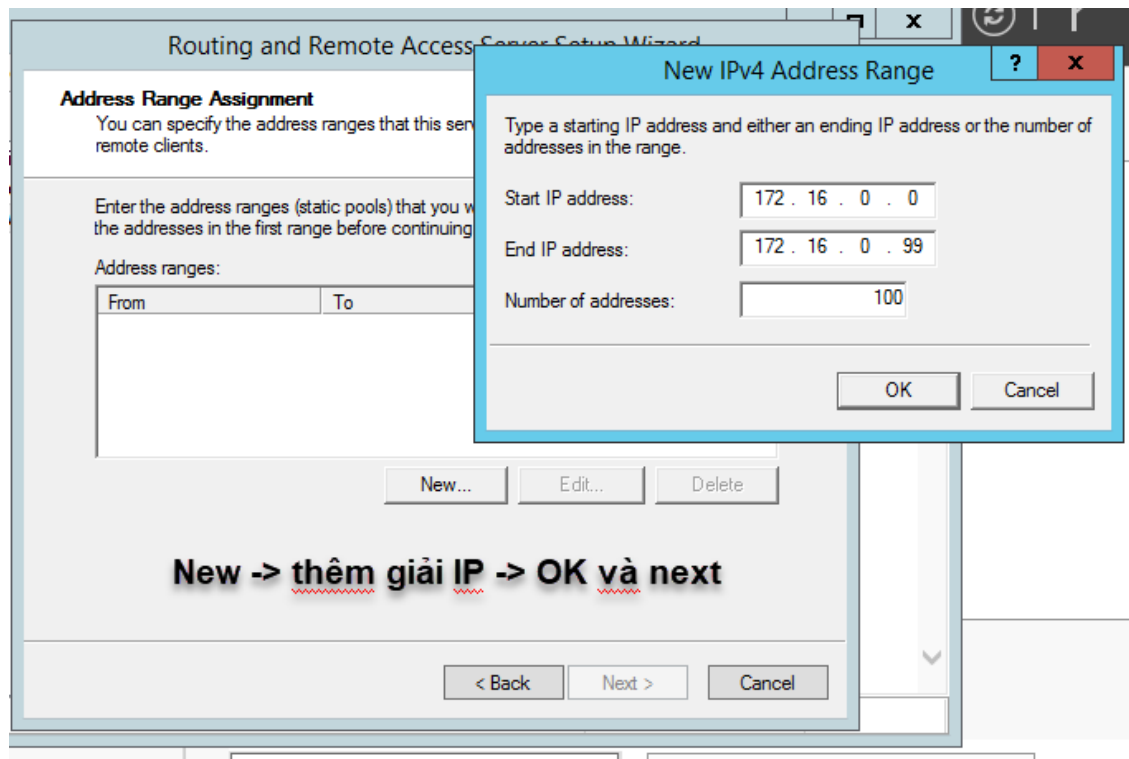
How do you want IP addresses to be assigned to remote clients?

☐ Automatically
If you use a DHCP server to assign addresses, confirm that it is configured properly.
If you do not use a DHCP server, this server will generate the addresses.

☒ From a specified range of addresses

Chọn để tự thêm một dải IP mà VPN sẽ cấp cho các máy VPN vào

< Back Next > Cancel



Routing and Remote Access Server Setup Wizard

RADIUS Server Selection

You can specify the RADIUS servers that you want to use for authentication and accounting.

Enter the primary and alternate RADIUS servers that this server will use for remote authentication and accounting.

Primary RADIUS server:

Alternate RADIUS server:

Type the shared secret (password) that is used to contact these RADIUS servers.

Shared secret:

Điền IP của máy Radius server và mã xác thực bắt tay giữa 2 máy

< Back Next > Cancel

Routing and Remote Access Server Setup Wizard

Completing the Routing and Remote Access Server Setup Wizard

You have successfully completed the Routing and Remote Access Server Setup Wizard.

Summary:

VPN clients connect to the following public interface: Ethernet1

VPN clients are assigned the following network for addressing: Ethernet0.

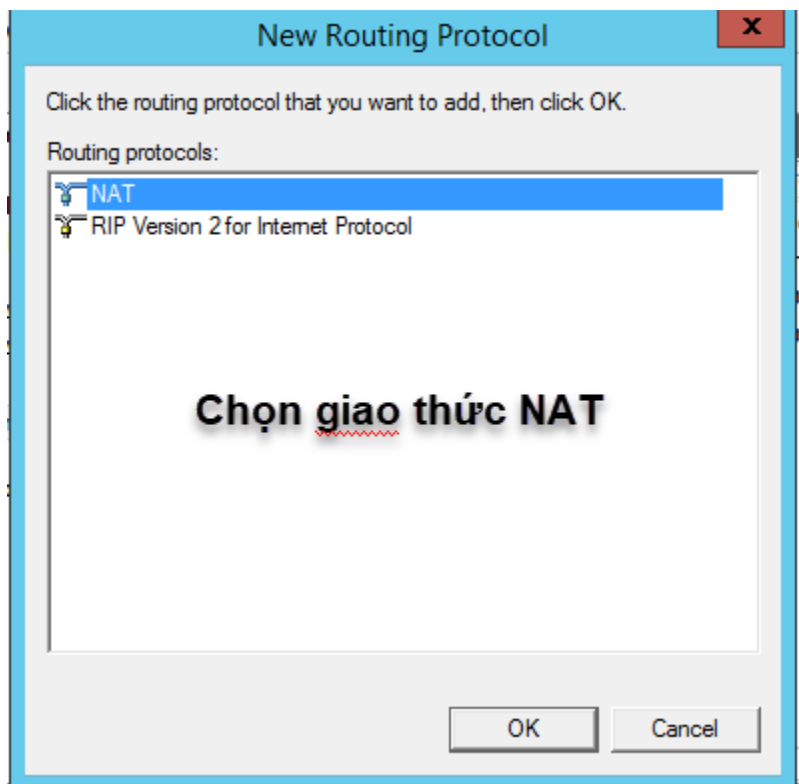
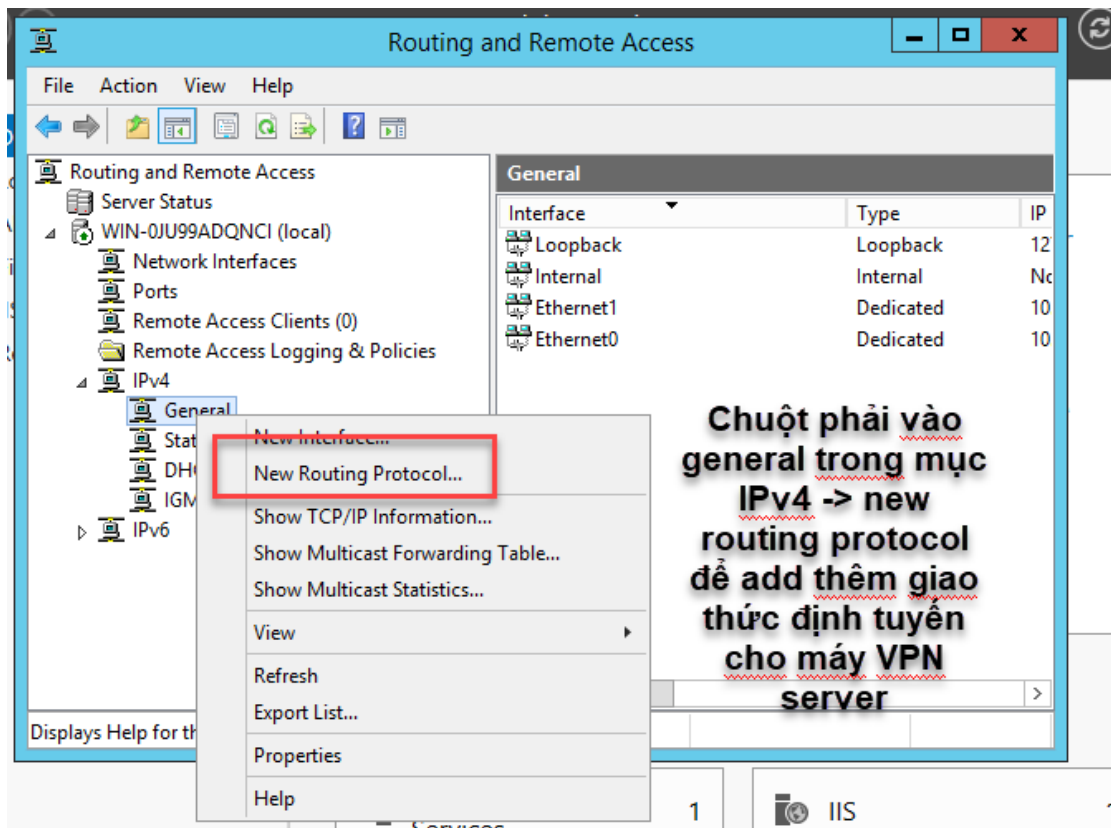
Client connections are accepted and authenticated using: an external RADIUS server.

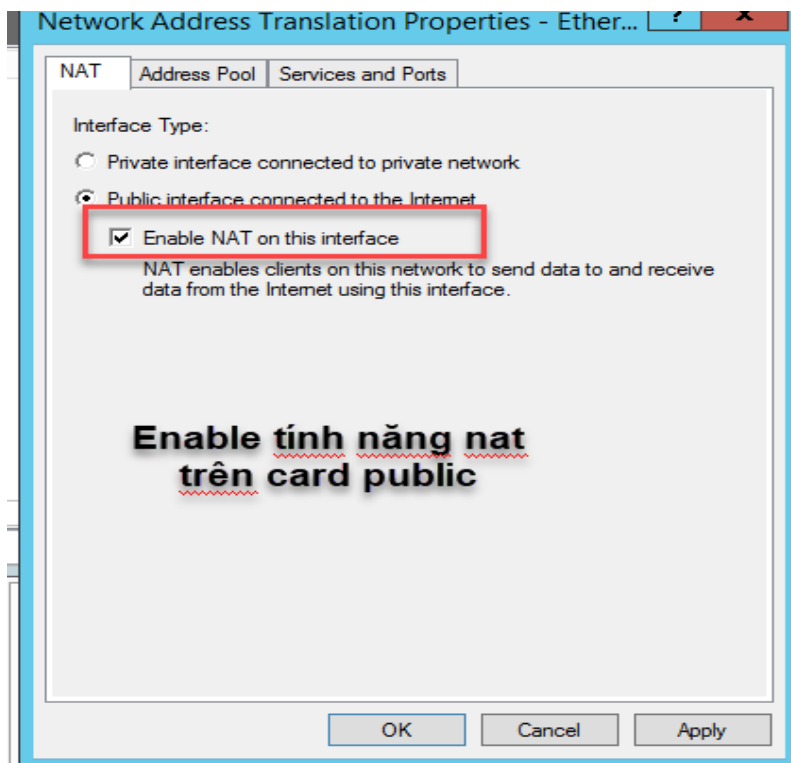
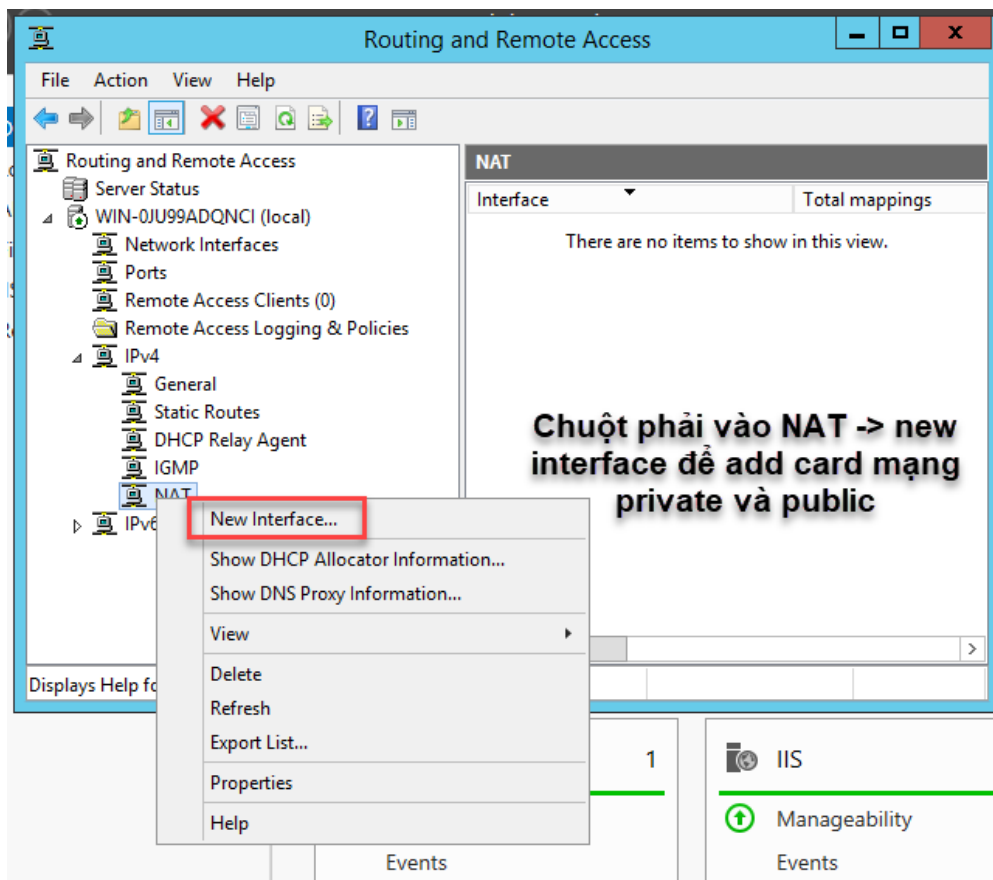
Before clients can connect, user accounts must be added locally or through Active Directory.

To close this wizard, click Finish.

Finish để hoàn thành

< Back Finish Cancel





+ Sau khi cấu hình xong, ta sử dụng một máy win 7 hoặc 10 tạo VPN client đăng nhập vào máy chủ