



BTTH#01: DHCP

I. THÔNG TIN SINH VIÊN

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Lớp: 18CK1 – THN2
Môn: Mạng Máy Tính
GVTH: Lê Quốc Hòa

II. TỰ ĐÁNH GIÁ

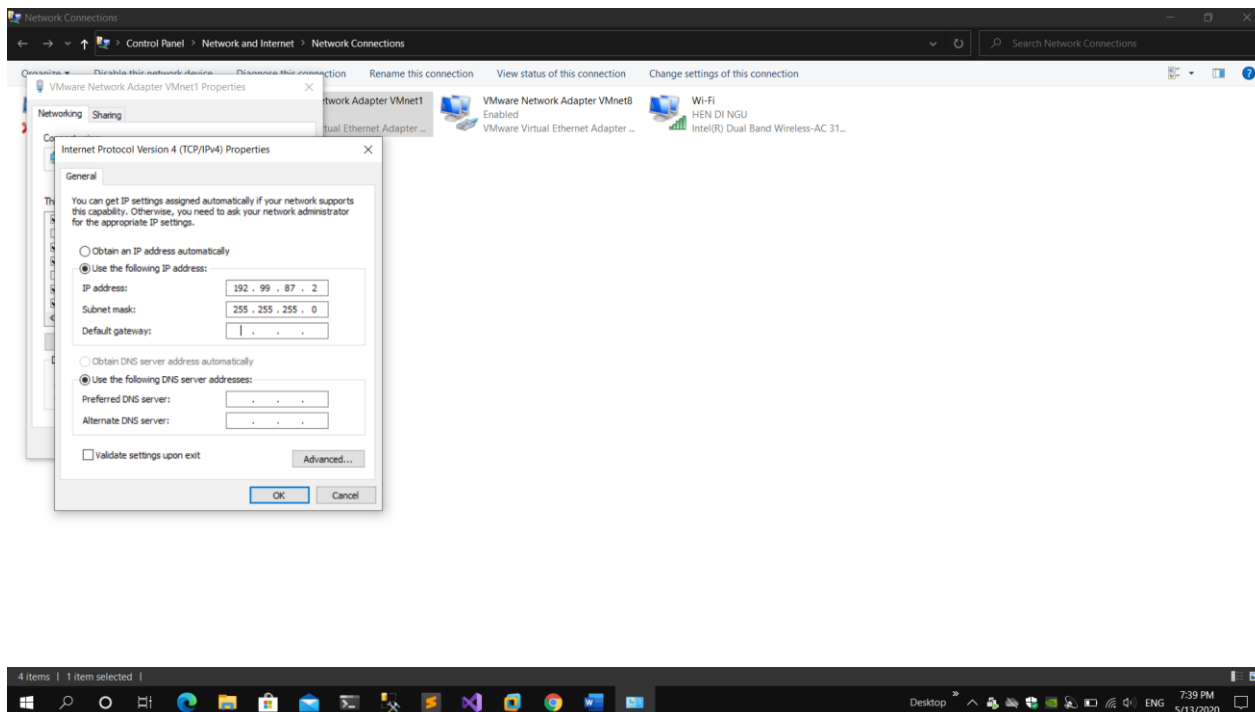
Yêu cầu	Mô tả tiêu chí	Thang điểm	Điểm tự đánh giá
Yêu cầu 1	Server: Máy ảo Windows Server 2003, Client: Máy thật. Card mạng của máy ảo ở chế độ Host Only. Cấu hình địa chỉ IP để 2 máy liên lạc được với nhau (ping nhau).	0.2 * 10	2
Yêu cầu 2	Cài đặt và cấu hình dịch vụ DHCP trên máy Server: ✓ Domain: hoten.edu.vn ✓ IP range: 192.99.X.100 - 192.99.X.200. Biết dãy địa chỉ ip từ 192.99.X.100 - 192.99.X.120 được để dành lại cho các máy đặc biệt. ✓ Subnet Mask: 255.255.255.0 ✓ Default gateway: 192.99.X.254 ✓ DNS Server: 192.99.X.1 ✓ Cấu hình reservation cho card Vmnet1 để luôn được cấp IP 192.99.X.99 ✓ Kiểm tra quá trình cấp phát địa chỉ IP: ipconfig /release, ipconfig /renew	0.7* 10	7
Trình bày	Báo cáo trình bày rõ ràng, dễ đọc, có đầy đủ thông tin SV và tự đánh giá	1	1
	Tổng	10	10

Mức độ hoàn thành: **100%**

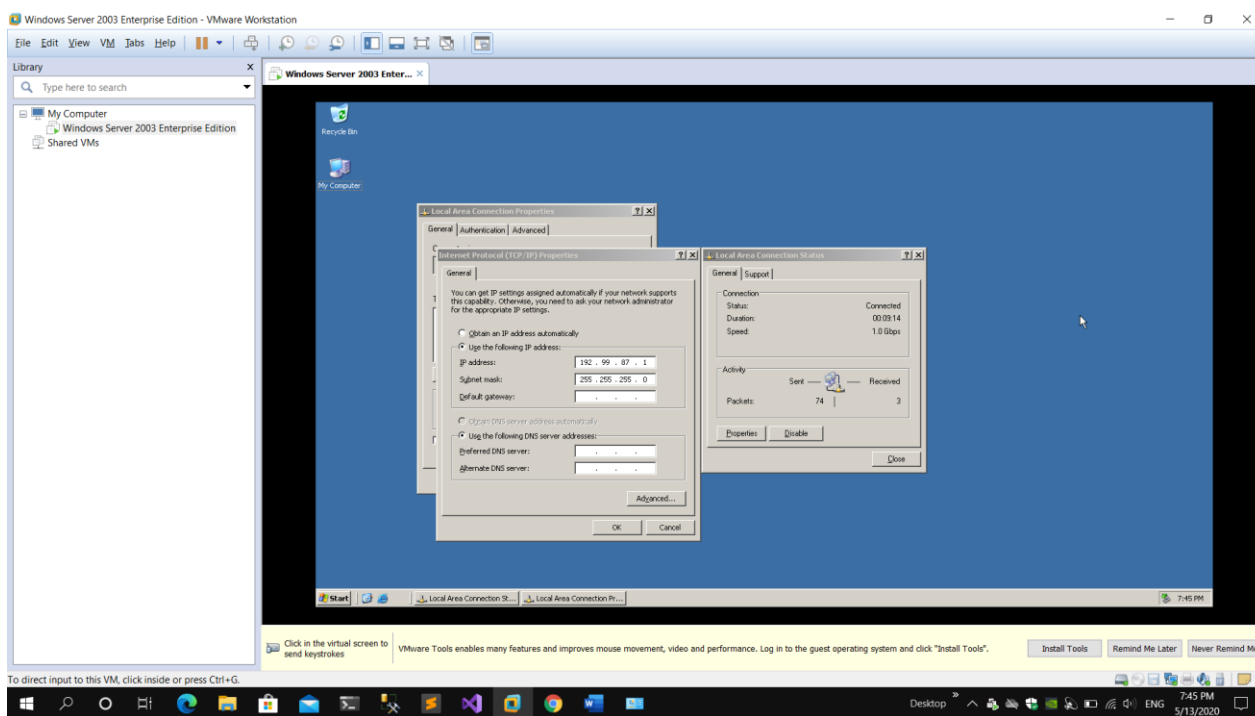
III. BÀI LÀM

Câu 1: Cấu hình địa chỉ IP để 2 máy liên lạc được với nhau (ping nhau).

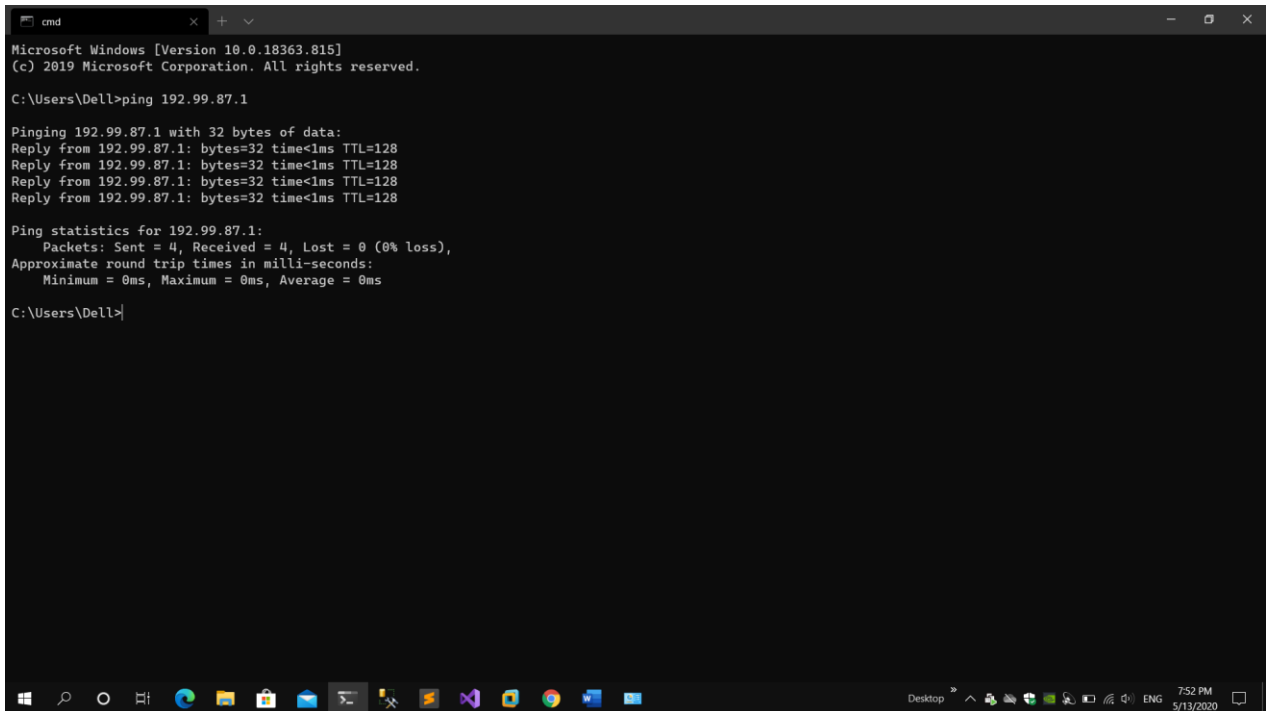
✓ Cấu hình IP tĩnh cho Client



✓ Cấu hình IP tĩnh cho Server



✓ Kiểm tra kết nối từ Client qua Server



```
cmd
Microsoft Windows [Version 10.0.18363.815]
(c) 2019 Microsoft Corporation. All rights reserved.

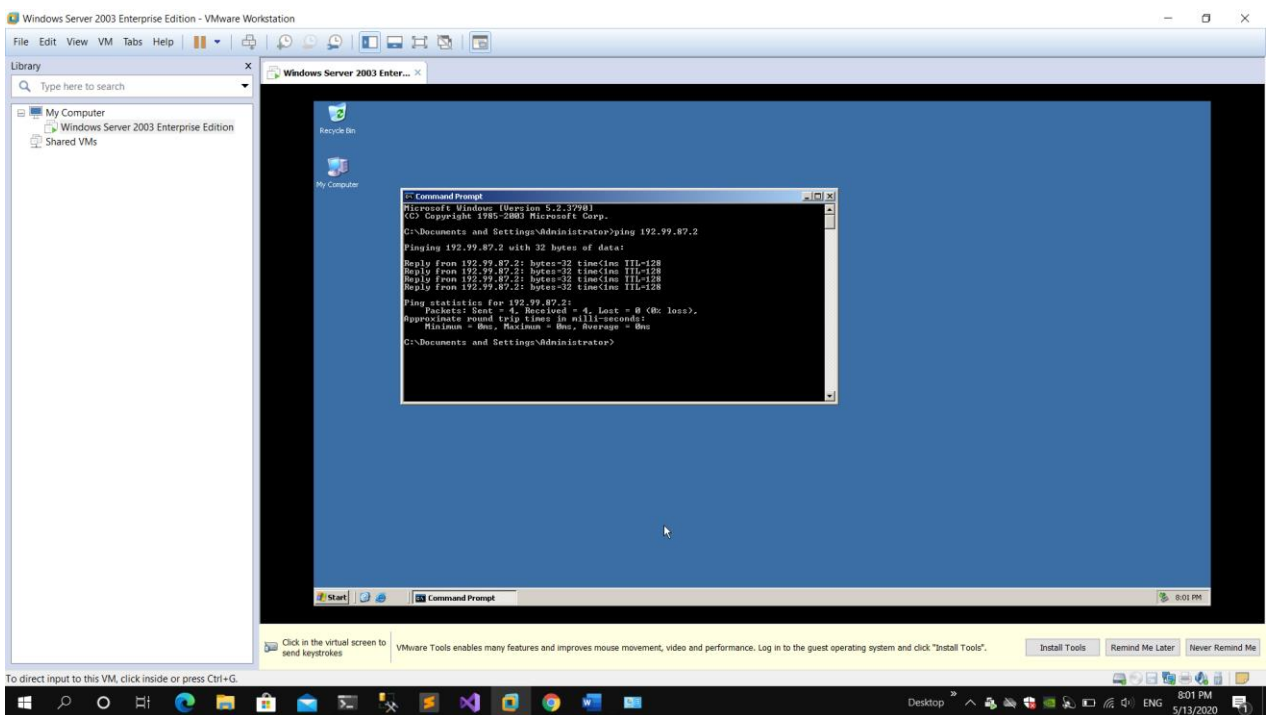
C:\Users\Dell>ping 192.99.87.1

Pinging 192.99.87.1 with 32 bytes of data:
Reply from 192.99.87.1: bytes=32 time<1ms TTL=128
Reply from 192.99.87.1: bytes=32 time<1ms TTL=128
Reply from 192.99.87.1: bytes=32 time<1ms TTL=128
Reply from 192.99.87.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.99.87.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Dell>
```

✓ Kiểm tra kết nối từ Server qua Client



```
Windows Server 2003 Enterprise Edition - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
  Windows Server 2003 Enterprise Edition
  Shared VMs

Windows Server 2003 Enter...
Recycle Bin
My Computer

C:\Documents and Settings\Administrator>ping 192.99.87.2

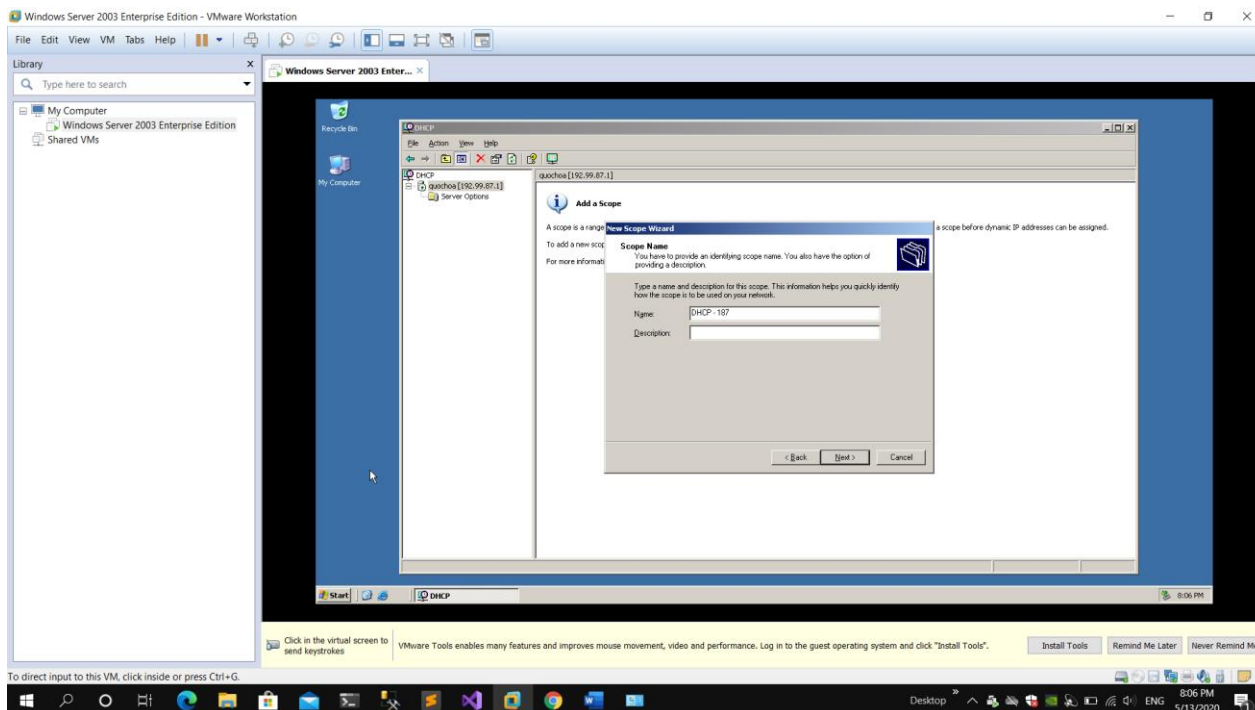
Pinging 192.99.87.2 with 32 bytes of data:
Reply from 192.99.87.2: bytes=32 time<1ms TTL=128
Reply from 192.99.87.2: bytes=32 time<1ms TTL=128
Reply from 192.99.87.2: bytes=32 time<1ms TTL=128
Reply from 192.99.87.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.99.87.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

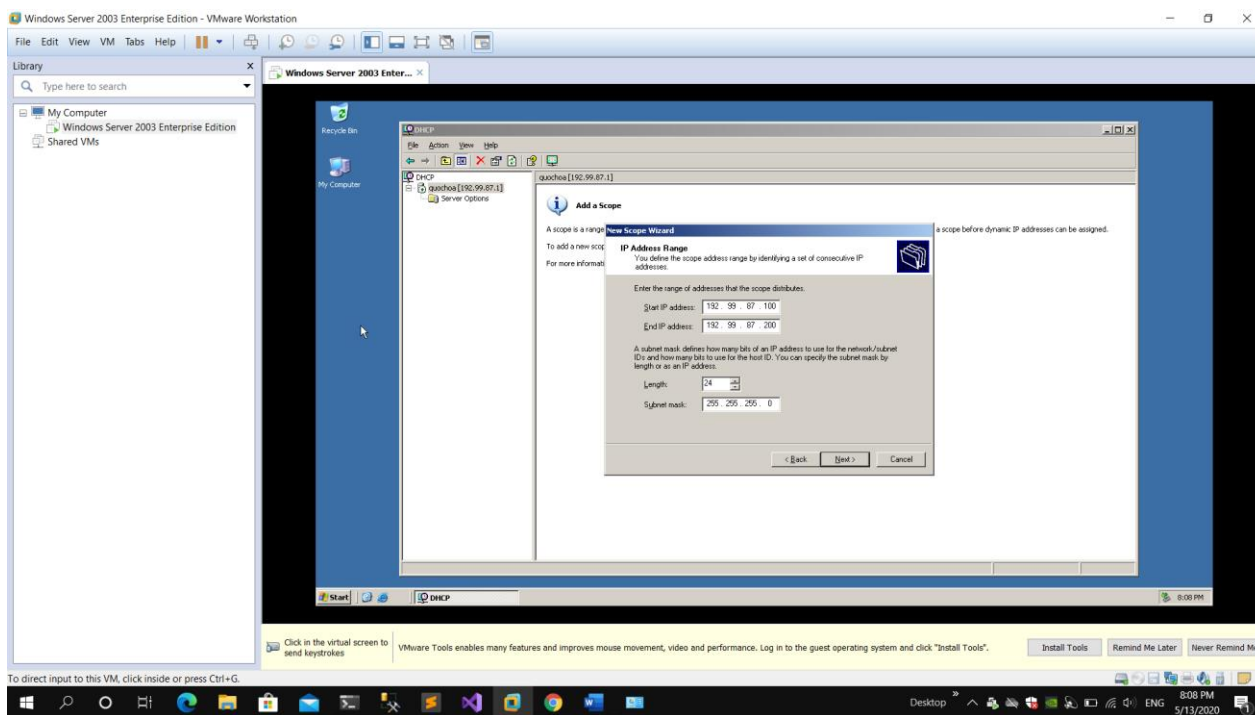
C:\Documents and Settings\Administrator>
```

Câu 2: Cài đặt và cấu hình dịch vụ DHCP trên máy Server.

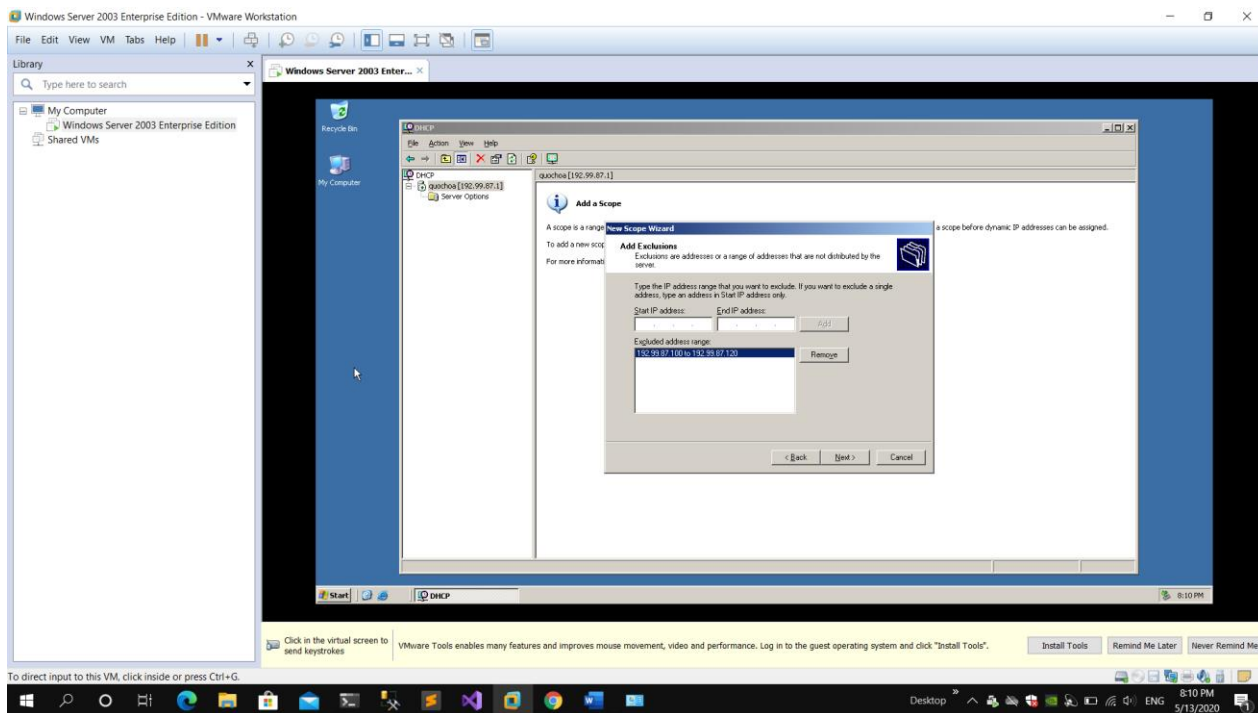
✓ Tạo 1 scope mới



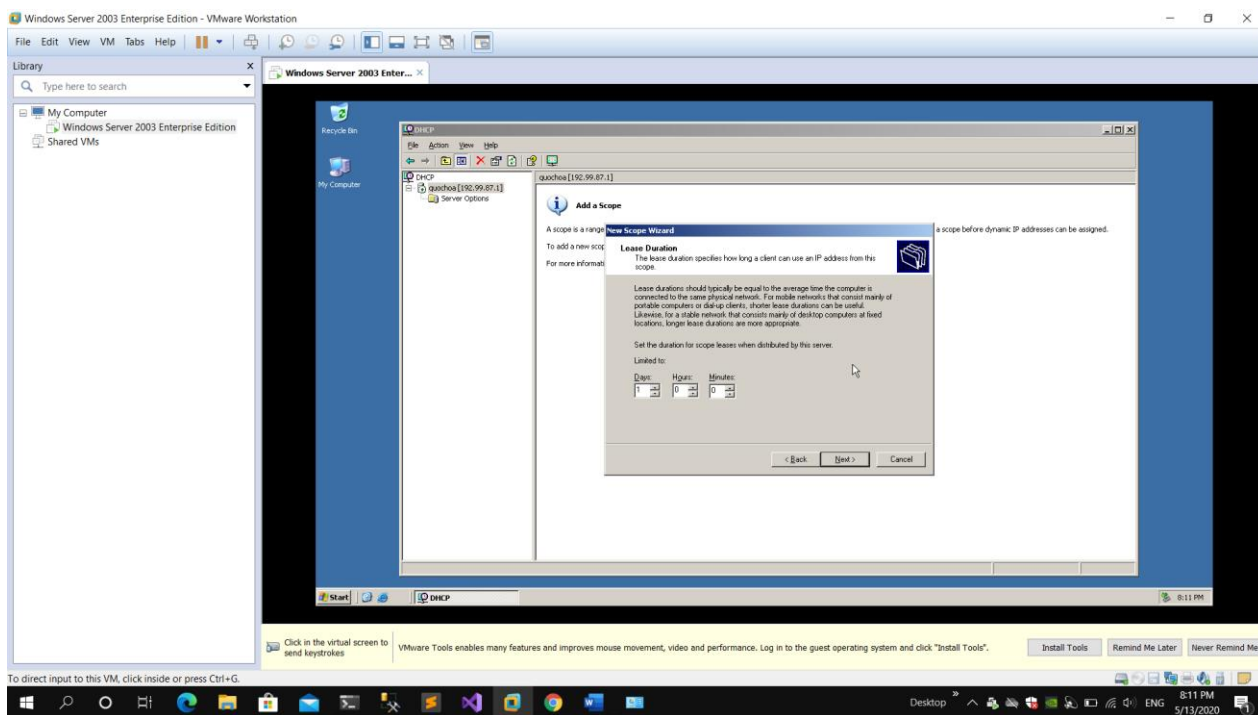
✓ Xác định dải IP mà scope sẽ cấp phát, xác định subnet mask cho dải IP



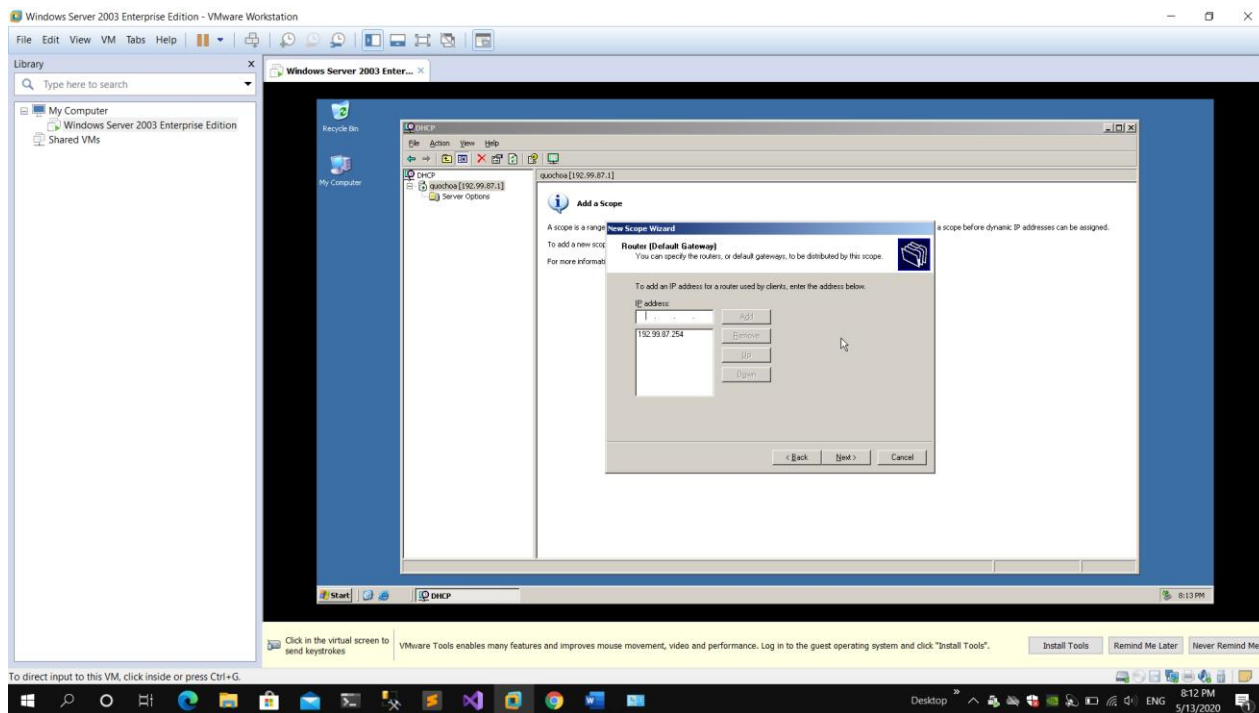
✓ Xác định các IP không được cấp tự động



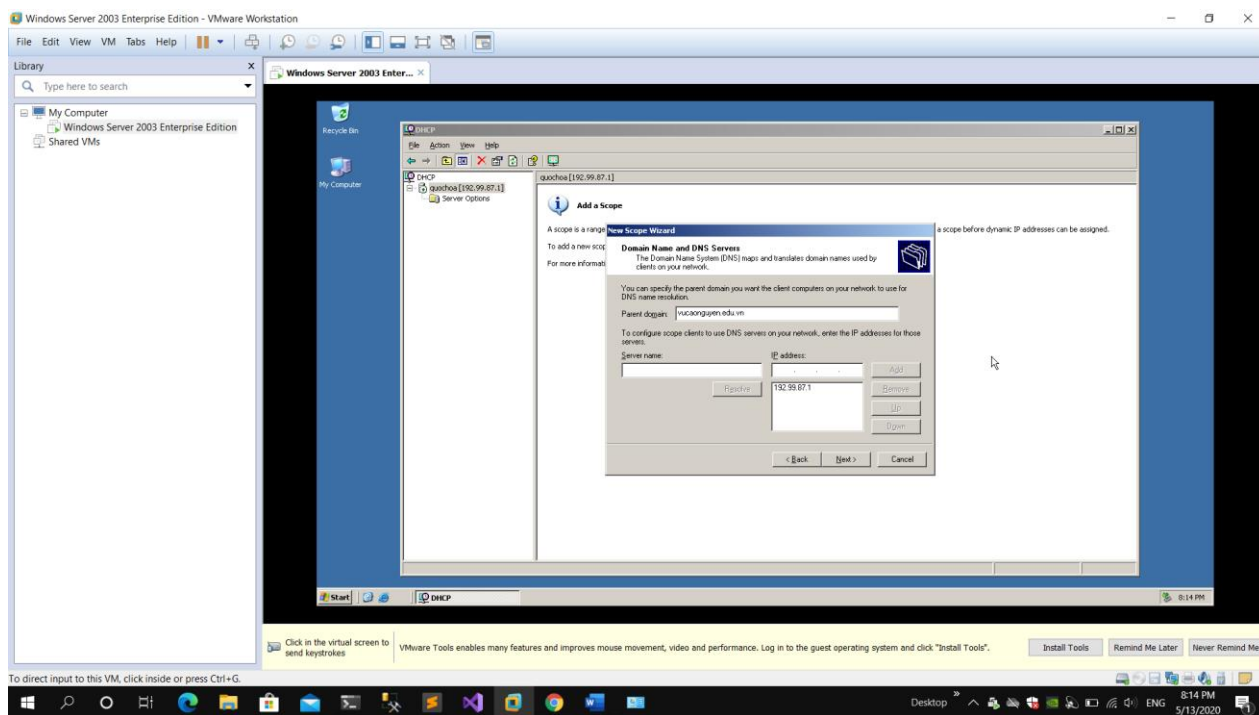
✓ Xác định thời gian tối đa để máy giữ lại IP được cấp tự động



✓ Xác định Default Gateway cho IP động



✓ Cấu hình thông tin DNS





✓ Cài đặt địa chỉ IP dành riêng

Windows Server 2003 Enterprise Edition - VMware Workstation

Library

My Computer

Windows Server 2003 Enterprise Edition

Shared VMs

Windows Server 2003 Enter...

New Reservation

Provide information for a reserved client.

Reservation name: VIP

IP address: 192.99.87.99

MAC address: 00:50:56:CD:00:01

Description:

Supported types:

☒ Both

☐ DHCP only

☐ BOOTP only

Click in the virtual screen to send keystrokes

VMware Tools enables many features and improves mouse movement, video and performance. Log in to the guest operating system and click "Install Tools".

Install Tools

Remind Me Later

Never Remind Me

To direct input to this VM, click inside or press Ctrl+G.

Network Connections

Control Panel > Network and Internet > Network Connections

Ethernet

Network cable unplugged

Realtek PCIe GBE Family Controller

VMware Network Adapter VMnet1

Enabled

VMware Virtual Ethernet Adapter ...

VMware Network Adapter VMnet8

Enabled

VMware Virtual Ethernet Adapter ...

Wi-Fi

HEN DI NGU

Intel(R) Dual Band Wireless-AC 31...

VMware Network Adapter VMnet1 Status

Network Connection Details

Property	Value
Connection-specific DNS S...	vucuonguyen.edu.vn
Description	VMware Virtual Ethernet Adapter for VMnet1
Physical Address	00:50:56:CD:00:01
DHCP Enabled	Yes
IPv4 Address	192.99.87.99
IPv4 Subnet Mask	255.255.255.0
Lease Obtained	Wednesday, May 13, 2020 8:56:13 PM
Lease Expires	Thursday, May 14, 2020 8:56:13 PM
IPv4 Default Gateway	192.99.87.254
IPv4 DHCP Server	192.99.87.1
IPv4 DNS Server	192.99.87.1
IPv4 WINS Server	
NetBIOS over Tcpip Enabl...	Yes
Link-local IPv6 Address	fe80:1acbd543fe1941%17
IPv6 Default Gateway	
IPv6 DNS Server	

Close

4 items |

Desktop

8:56 PM

5/13/2020

- ✓ Trả lại địa chỉ IP động mà DHCP Client đang sử dụng cho DHCP Server bằng lệnh `ipconfig /release`

```
cmd
C:\Users\Dell>ipconfig /release

Windows IP Configuration

No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Local Area Connection* 10 while it has its media disconnected.

Ethernet adapter Ethernet:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 10:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter VMware Network Adapter VMnet1:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::1ac:bd5:43fe:1841%17
    Default Gateway . . . . . :

Ethernet adapter VMware Network Adapter VMnet8:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::a5cb:a4a6:c0f2:5dab%3
    Default Gateway . . . . . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2402:800:6232:95d0:5021:313b:539:eeb1
    Temporary IPv6 Address. . . . . : 2402:800:6232:95d0:b1dd:5c46:581a:f632
    Link-local IPv6 Address . . . . . : fe80::5021:313b:539:eeb1%20
    Default Gateway . . . . . : fe80::1%20
```

- ✓ Sử dụng `ipconfig /renew` trên DHCP Client để nhận địa chỉ IP mới

```
cmd
C:\Users\Dell> ipconfig /renew

Windows IP Configuration

No operation can be performed on Ethernet while it has its media disconnected.
No operation can be performed on Local Area Connection* 1 while it has its media disconnected.
No operation can be performed on Local Area Connection* 10 while it has its media disconnected.

Ethernet adapter Ethernet:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 10:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Ethernet adapter VMware Network Adapter VMnet1:

    Connection-specific DNS Suffix  . : vucaonguyen.edu.vn
    Link-local IPv6 Address . . . . . : fe80::1ac:bd5:43fe:1841%17
    IPv4 Address. . . . . : 192.99.87.99
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.99.87.254

Ethernet adapter VMware Network Adapter VMnet8:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::a5cb:a4a6:c0f2:5dab%3
    IPv4 Address. . . . . : 192.168.163.1
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . :
    IPv6 Address. . . . . : 2402:800:6232:95d0:5021:313b:539:eeb1
    Temporary IPv6 Address. . . . . : 2402:800:6232:95d0:b1dd:5c46:581a:f632
    Link-local IPv6 Address . . . . . : fe80::5021:313b:539:eeb1%20
    IPv4 Address. . . . . : 192.168.1.7
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1%20
    192.168.1.1
```