

# CYSE695-Bridge 2: Hands-On Lab Report 3

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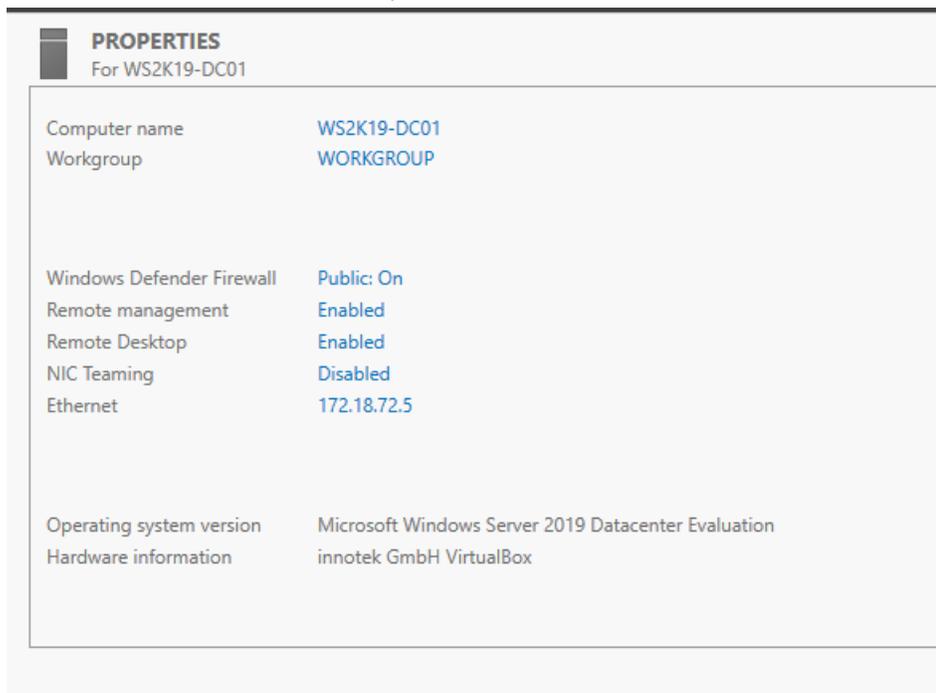
**Directions:** Review the tutorial video found in Module 3 and complete the following tasks. Submit your completed report in Canvas.

## Install and Setup DNS service in Windows Server 2019

**Total Points = 50 points**

### Task 1.

1. Update Ethernet properties.
2. Provide a screenshot of the completed task.



3. Briefly describe the screenshot, explaining the task or tool used.  
I clicked on the ethernet and then properties, selected IPv4 and properties, and set an IP address.

### Task 2.

1. Start the installation process.
2. Provide a screenshot of the completed task.

Add Roles and Features Wizard

DESTINATION SERVER  
WS2K19-DC01

# Installation progress

- Before You Begin
- Installation Type
- Server Selection
- Server Roles
- Features
- DNS Server
- Confirmation
- Results**

View installation progress

**i** Feature installation

Installation started on WS2K19-DC01

**DNS Server**

**Remote Server Administration Tools**

**Role Administration Tools**

**DNS Server Tools**

**i** You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

[Export configuration settings](#)

< Previous    Next >    Close    Cancel

Add Roles and Features Wizard

DESTINATION SERVER  
WS2K19-DC01

# Installation progress

- Before You Begin
- Installation Type
- Server Selection
- Server Roles
- Features
- DNS Server
- Confirmation
- Results**

View installation progress

**i** Feature installation

Installation succeeded on WS2K19-DC01.

**DNS Server**

**Remote Server Administration Tools**

**Role Administration Tools**

**DNS Server Tools**

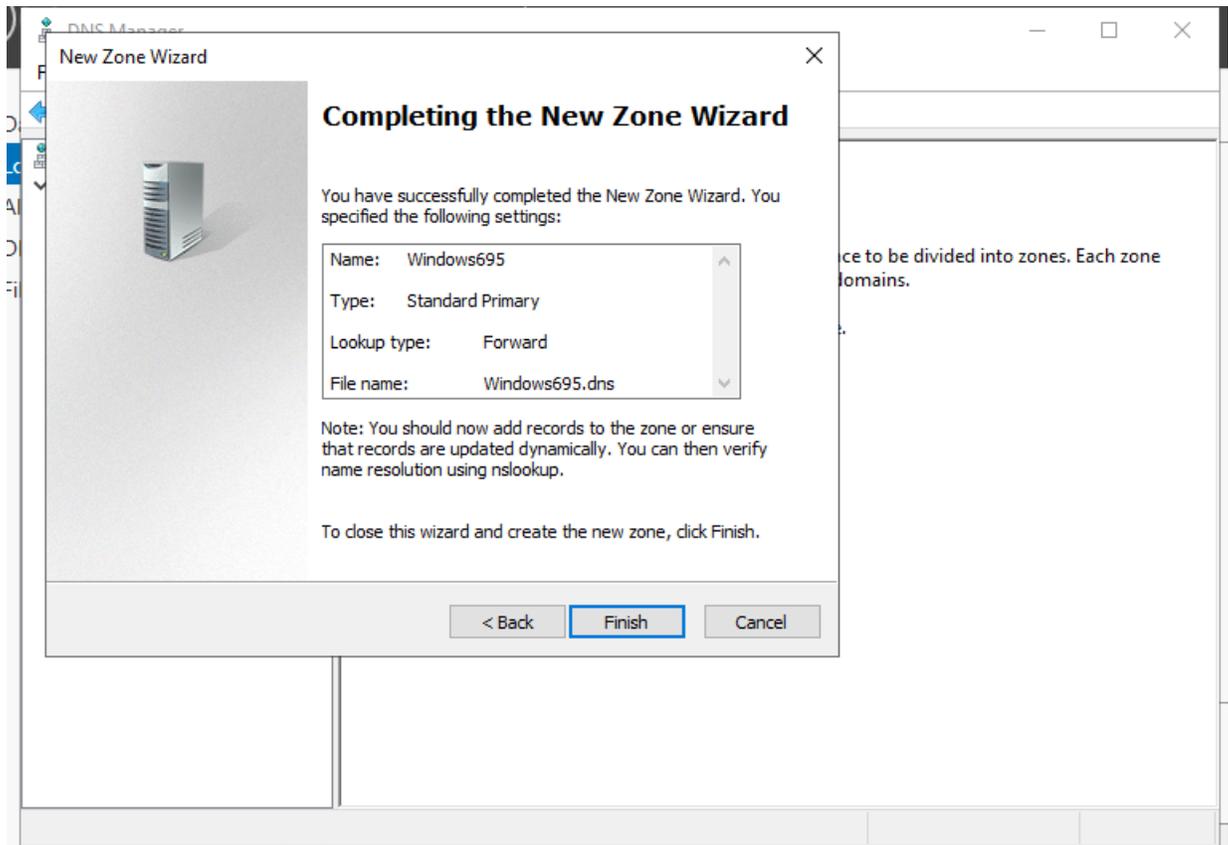
**i** You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

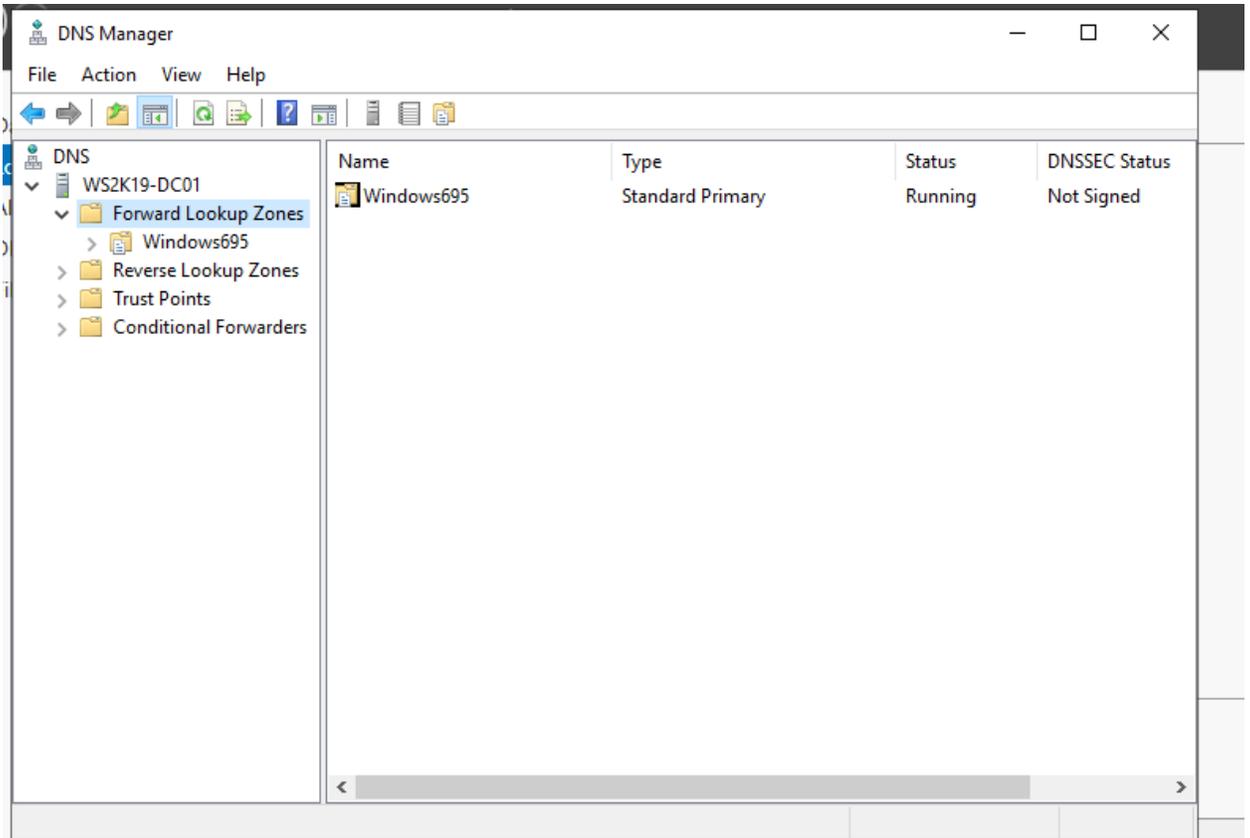
[Export configuration settings](#)

3. Briefly describe the screenshot, explaining the task or tool used.  
Click manage, select add roles and features, select DNS Servers, click next, and install.

### Task 3.

1. Add a new zone.
2. Provide a screenshot of the completed task.





3. Briefly describe the screenshot, explaining the task or tool used.  
Click on tools and then select DNS. Select servers, expand it and select forward lookup zone. Right-click on it, select a new zone, give it a name, next, and install.

#### Task 4.

1. Add a new host.
2. Provide a screenshot of the completed task.

Windows Defender Firewall Public: On

Remote man DNS Manager

Remote Des File Action View Help

NIC Teaming Ethernet

DNS

- WS2K19-DC01
  - Forward Lookup Zones
    - Windows695
  - Reverse Lookup Zones
  - Trust Points
  - Conditional Forwarders

**New Host**

Name (uses parent domain name if blank):  
ws2k19-dns-01

Fully qualified domain name (FQDN):  
ws2k19-dns-01.Windows695.

IP address:

Create associated pointer (PTR) record

Add Host Cancel

Operating sy  
Hardware in

**VENTS**  
11 events | 22

Filter

Server Name

WS2K19-DC0	1000	warning	Microsoft-Windows-PerfM	Application	2/10/2024 7:56:55 PM
WS2K19-DC0	2004	Error	Microsoft-Windows-PerfNet	Application	2/10/2024 7:56:55 PM

DNS Manager

File Action View Help

DNS

- WS2K19-DC01
  - Forward Lookup Zones
    - Windows695
  - Reverse Lookup Zones
  - Trust Points
  - Conditional Forwarders

**New Host**

Name (uses parent domain name if blank):  
Windows695.

Fully qualified domain name (FQDN):  
Windows695.

IP address:

Create associated pointer (PTR) record

Add Host Cancel

**DNS**

The host record ws2k19-dns-01.Windows695 was successfully created.

OK

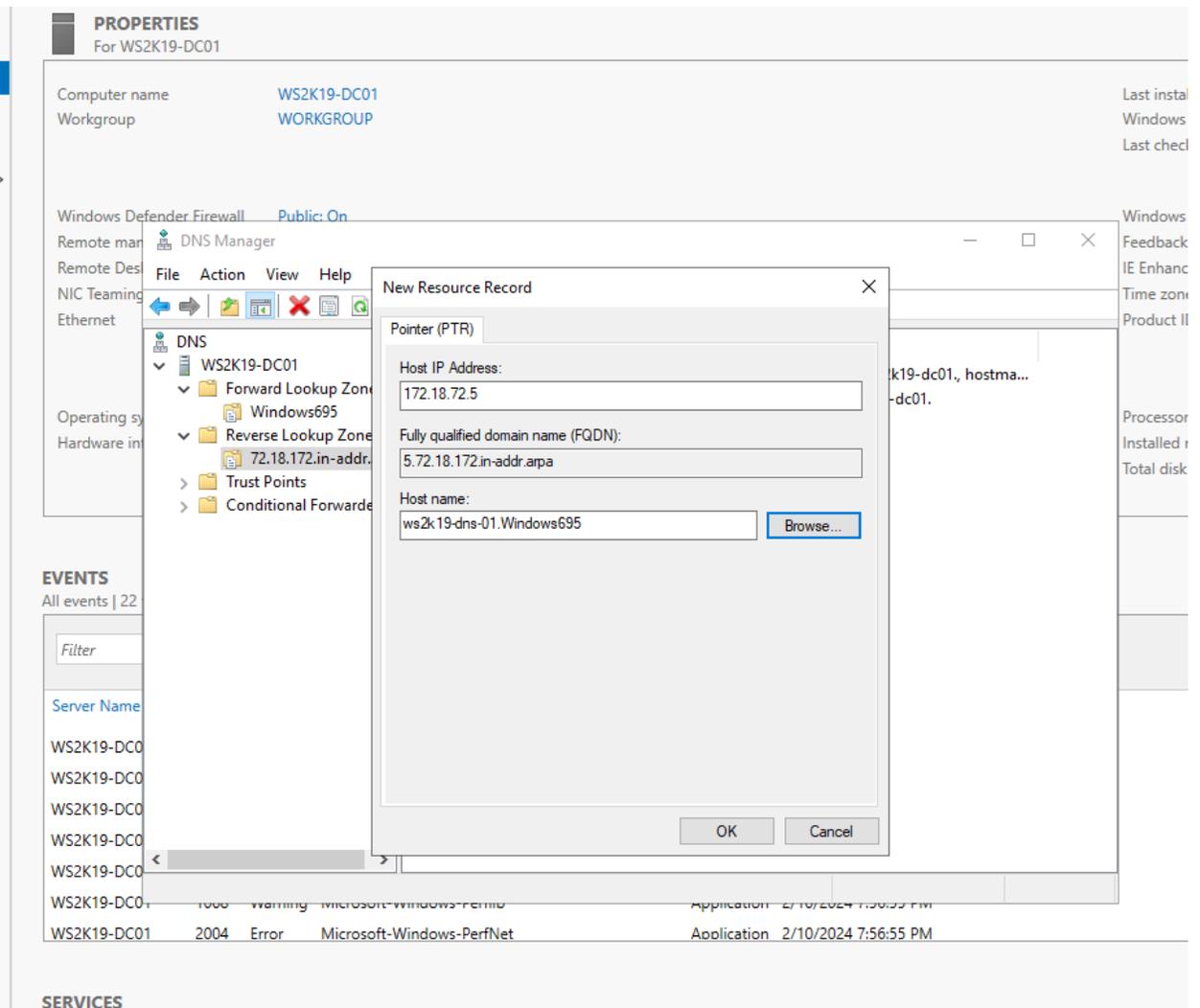
1000	warning	Microsoft-Windows-PerfM	Application	2/10/2024 7:56:55 PM
2004	Error	Microsoft-Windows-PerfNet	Application	2/10/2024 7:56:55 PM

3. Briefly describe the screenshot, explaining the task or tool used.  
Right-click on the forward lookup zone, select New Host and enter the name and the IP address, click on add host.

## Task 5.

1. Add a new resource record.
2. Provide a screenshot of the completed task.

The screenshot displays the Windows DNS Manager interface. The left-hand pane shows the tree view with 'DNS' expanded, then 'WS2K19-DC01', and finally 'Forward Lookup Zones'. A context menu is open over the 'Forward Lookup Zones' folder, with 'New Host' selected. The 'New Resource Record' dialog box is open, showing the 'Pointer (PTR)' tab. The 'Host IP Address' field contains '172.18.72'. The 'Fully qualified domain name (FQDN)' field contains '72.18.172.in-addr.arpa'. The 'Host name' field is empty, with a 'Browse...' button next to it. The 'OK' and 'Cancel' buttons are at the bottom of the dialog. In the background, the 'EVENTS' pane shows a list of events with columns for 'Server Name', 'ID', 'Level', 'Source', and 'Time'. The 'SERVICES' pane at the bottom shows 'All services | 210 total'.



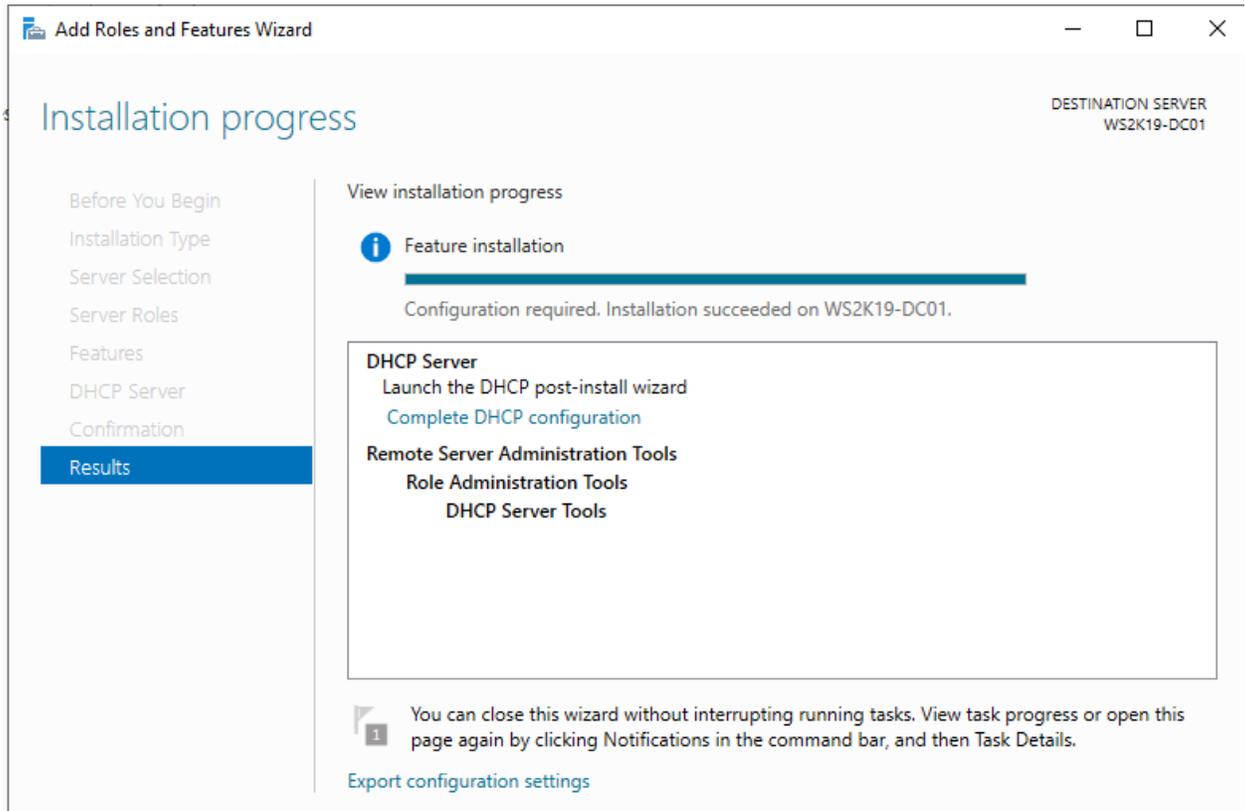
3. Briefly describe the screenshot, explaining the task or tool used.  
Select Reverse lookup zone, right-click and select new pointer, browse the name, choose, and click ok.

## Install and Configure DHCP Server in Server in Windows Server 2019

Total Point = 50 points

### Task 6.

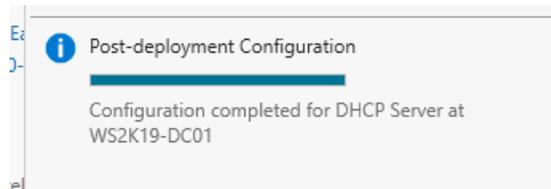
1. Install DHCP Server role.
2. Provide a screenshot of the completed task.



3. Briefly describe the screenshot, explaining the task or tool used. Manage, add roles and features, select DHCP, and install.

## Task 7.

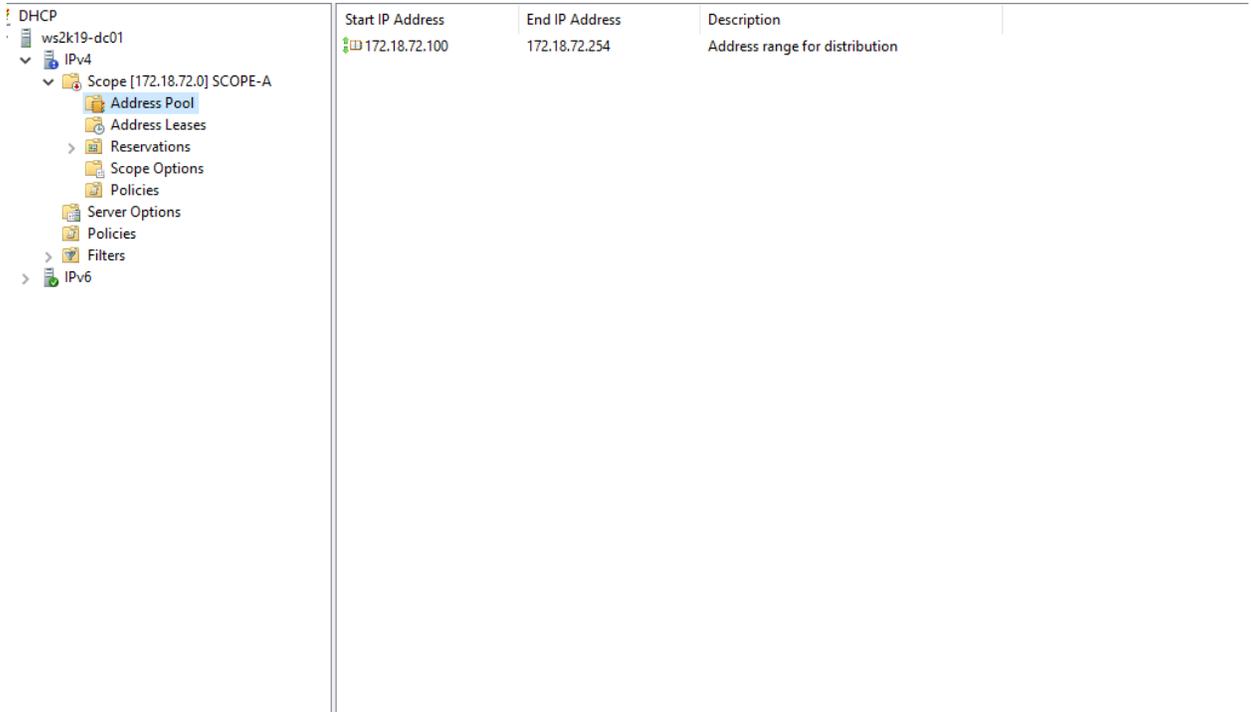
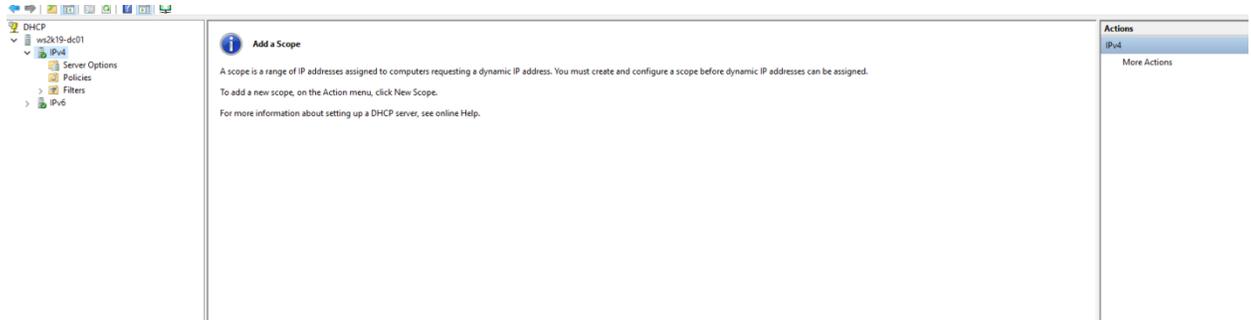
1. Complete DHCP post install configuration task.
2. Provide a screenshot of the completed task.



3. Briefly describe the screenshot, explaining the task or tool used. Click on Configuration, click Next, and commit.

## Task 8.

1. Create at least one DHCP scope.
2. Provide a screenshot of the completed task.



3. Briefly describe the screenshot, explaining the task or tool used.  
Tools, DHCP management console, expand IPv4, click action and select a new scope.

## Task 9.

1. Show Ethernet status and network connection details.
2. Provide a screenshot of the completed task.



Network Connections

Control Panel > All Control Panel Items > Network Connections

Organize | Disable this network device | Diagnose this connection | Rename this connection | View status of this connection

Ethernet Properties

Networking

Connect using:  
Intel(R) PRO/1000 MT Desktop Adapter

This connection uses the following items:

- Client for Microsoft Networks
- File and Printer Sharing for Microsoft Networks
- QoS Packet Scheduler
- Internet Protocol Version 4 (TCP/IPv4)
- Microsoft Network Adapter Multiplexor Protocol
- Microsoft LLDP Protocol Driver
- Internet Protocol Version 6 (TCP/IPv6)

Install... | Uninstall | Properties

Description  
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.

OK | Cancel

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network has this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address: 172 . 18 . 7

Subnet mask: 255 . 255 . 255

Default gateway: 172 . 18 . 7

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server: 172 . 18 . 7

Alternate DNS server: . .

Validate settings upon exit

OK

No Internet  
Your device  
anything c  
make this  
properties



Change co

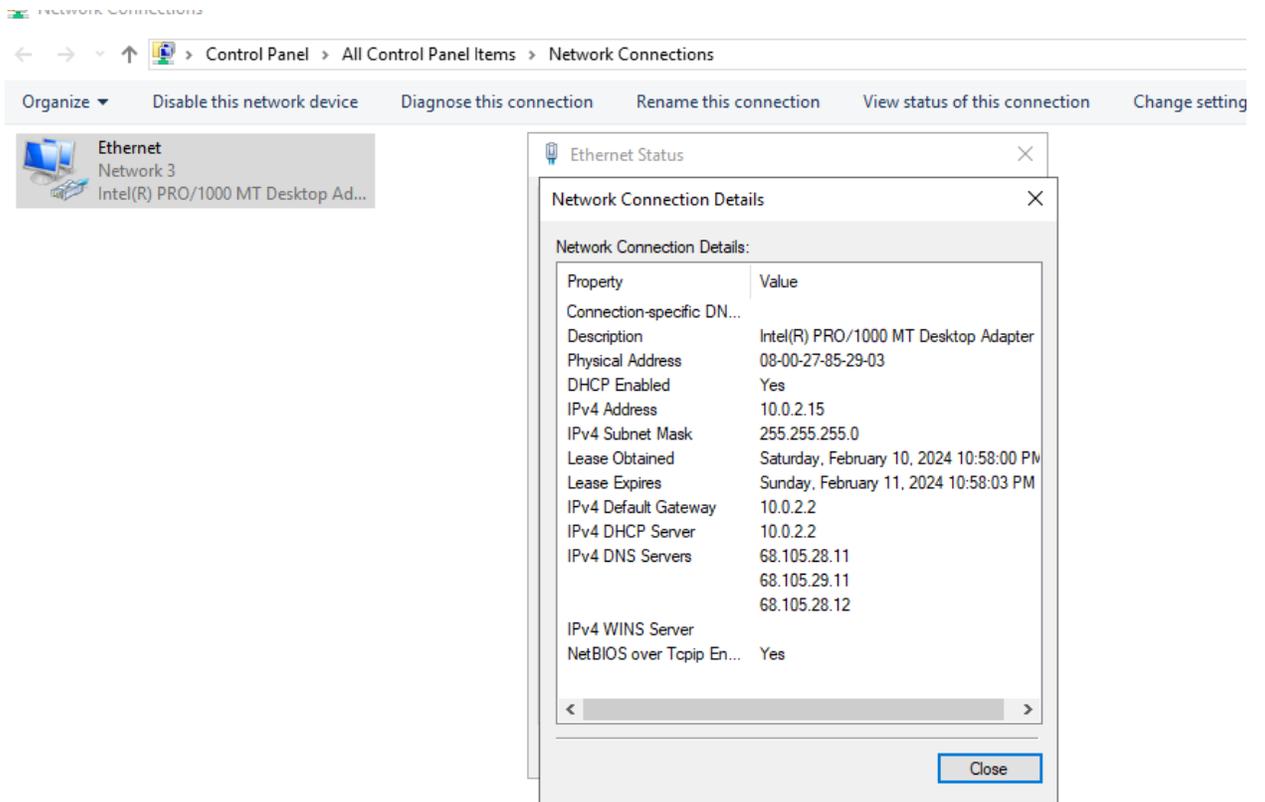
Show avail

Change



View your

Windows



1 item | 1 item selected

3. Briefly describe the screenshot, explaining the task or tool used. Settings, network, and internet select change adapter options.