

CYSE 608: Hands-On Lab Report 3

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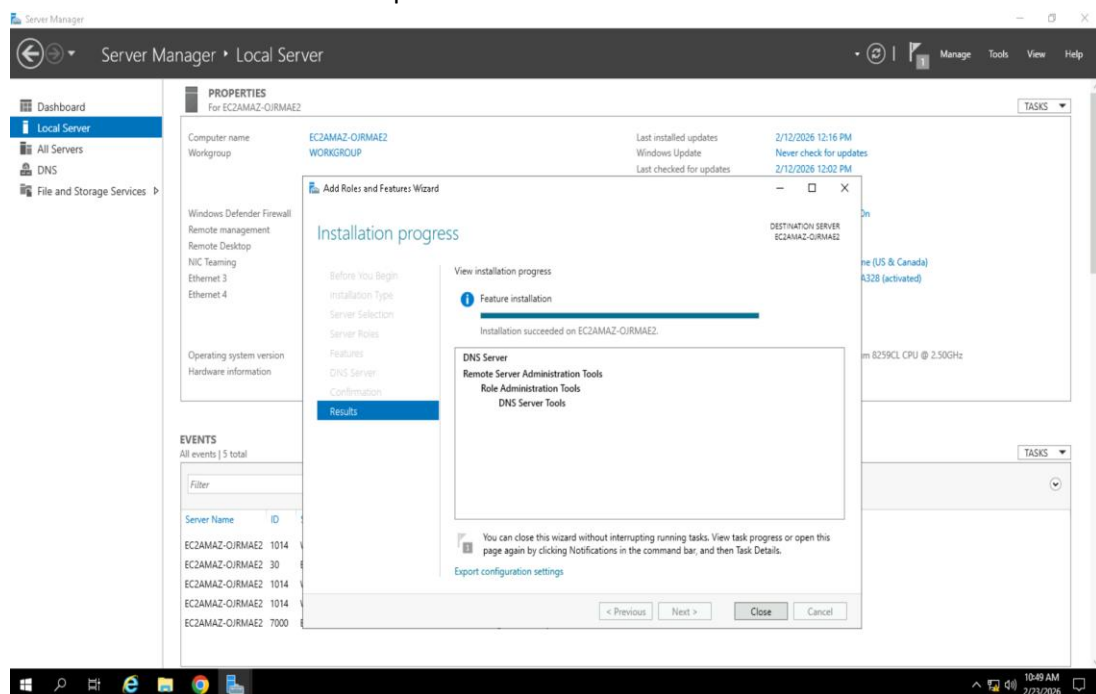
Directions: Review the tutorial video found in Module 3 and complete the following tasks. Submit your completed report in Canvas.

Install and Setup DNS service in Windows Server 2019

Total Points = 50 points

Task 1. [10 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.

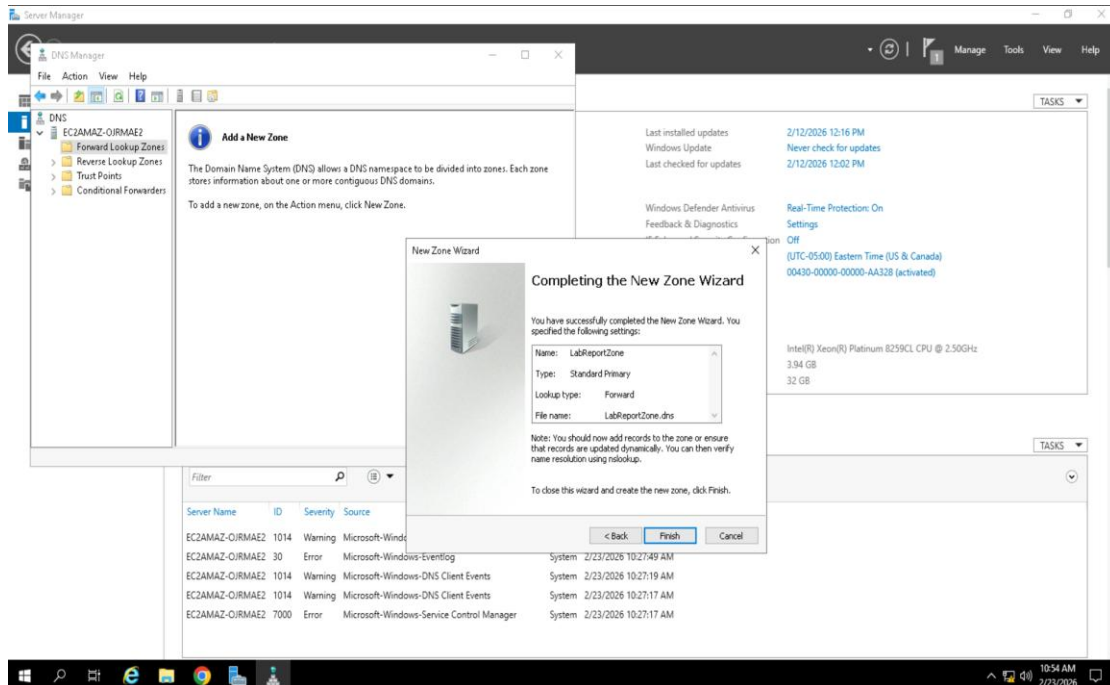


3. Briefly describe the screenshot, explaining the task or tool used.

The above screenshot illustrates the successful installation of a DNS server. The DNS server plays the role of translating legible domain names into numeric internet protocol addresses.

Task 2. [10 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.

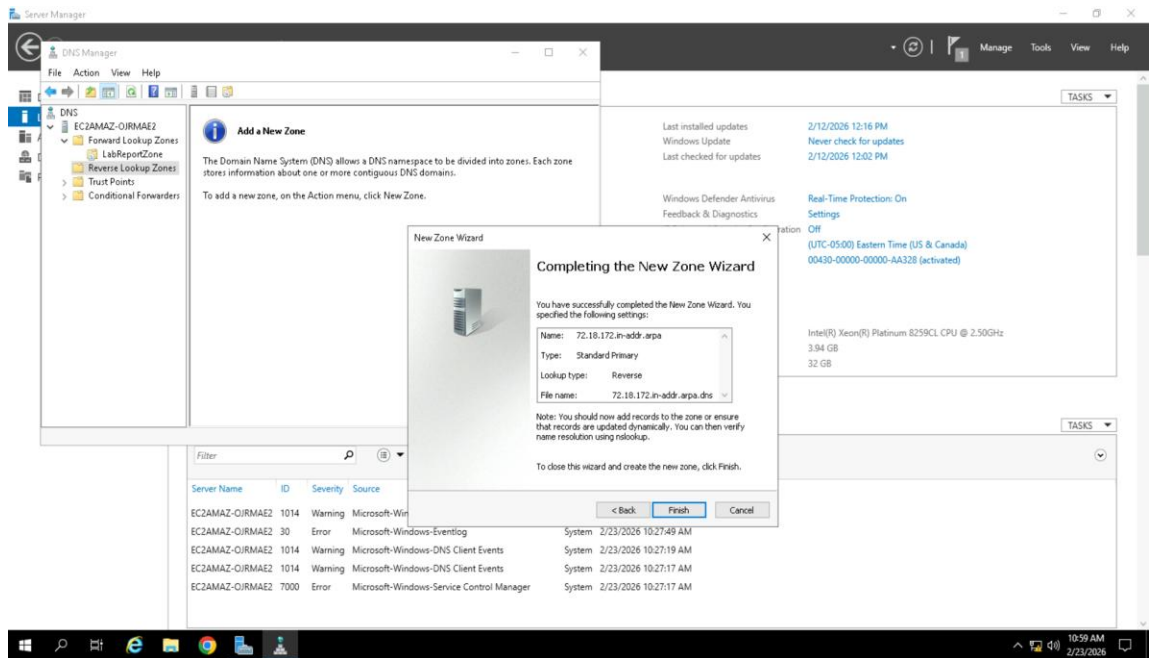


3. Briefly describe the screenshot, explaining the task or tool used.

This image illustrates the successful creation of what is called a *Forward Lookup Zone*. A Forward Lookup Zone is responsible for mapping a hostname to the numeric internet protocol address.

Task 3. [10 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.

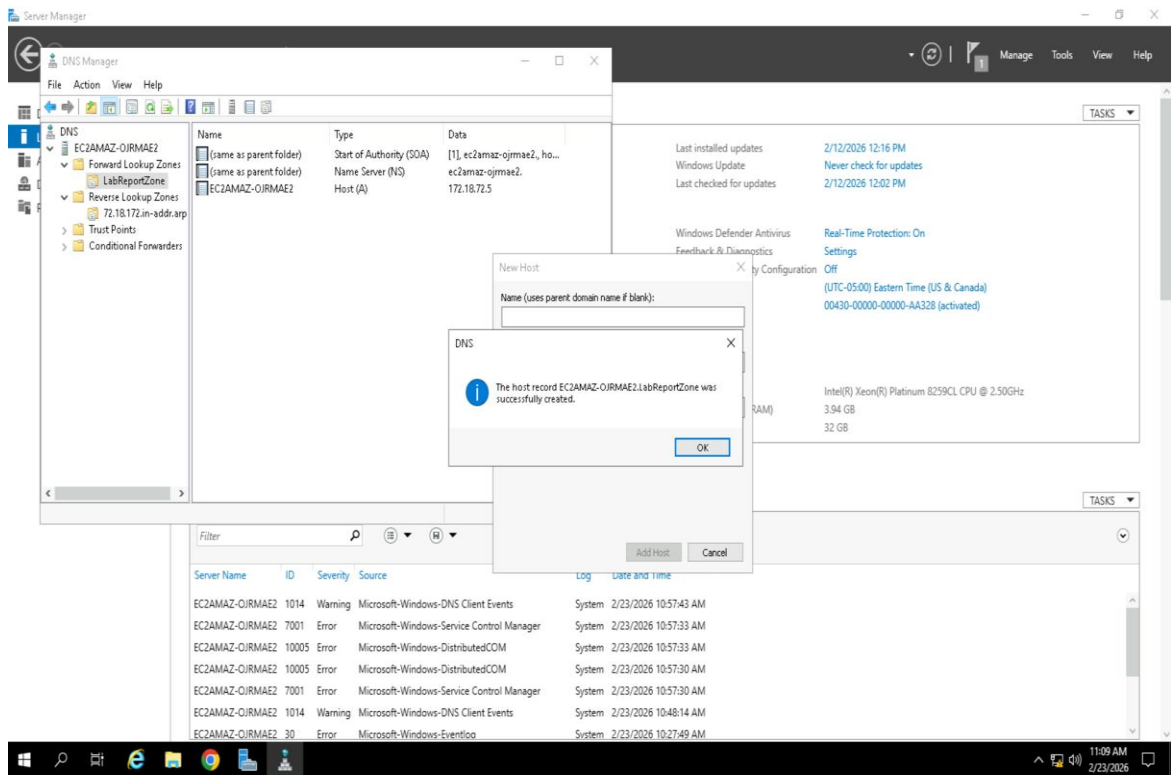


3. Briefly describe the screenshot, explaining the task or tool used.

This image illustrates the successful creation of what is called a *Reverse Lookup Zone*. A Reverse Lookup Zone is responsible for mapping a numeric internet protocol address to the hostname.

Task 4. [10 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.

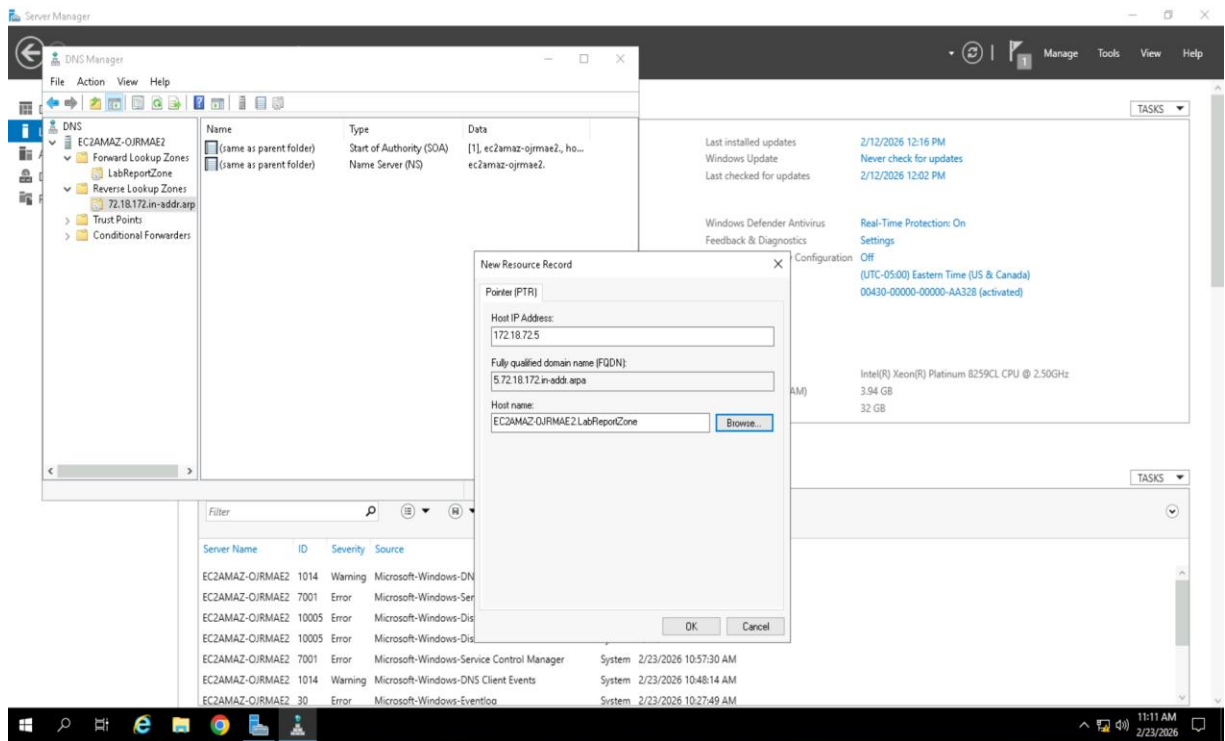


3. Briefly describe the screenshot, explaining the task or tool used.

The above image illustrates the successful creation and configuration of a Forward Lookup Zone host record titled EC2AMAZ-0JRMAE2. A host record is needed for Forward Lookup Zones to function fully, as the host record is what provides an active resolution for the domain.

Task 5. [10 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.



3. Briefly describe the screenshot, explaining the task or tool used.

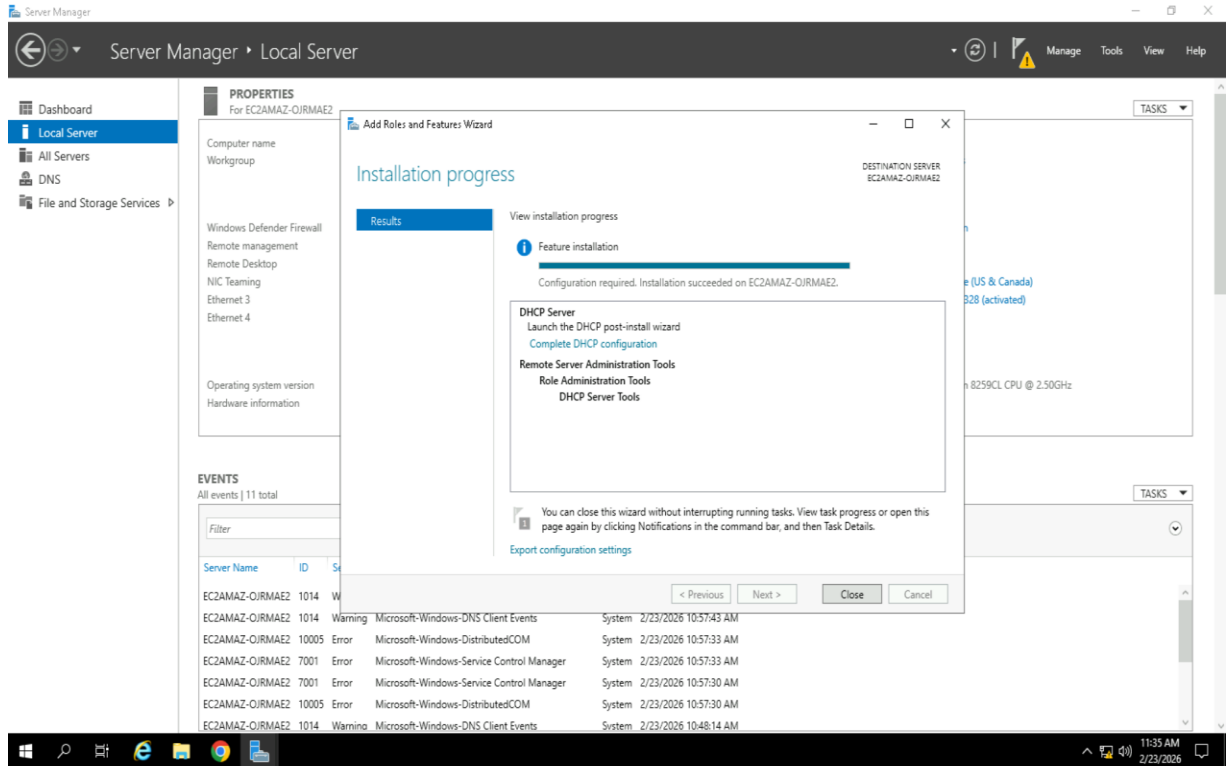
The above image illustrates the successful creation and configuration of a Reverse Lookup Zone resource record with a host name of, *EC2AMAZ-OJRM AE2.LabReportZone*. A Reverse Lookup Zone resource record, which utilizes Pointer records (PTR), maps an internet protocol address to the fully qualified domain name.

Install and Configure DHCP Server in Server in Windows Server 2019

Total Point = 50 points

Task 6. [12.5 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.

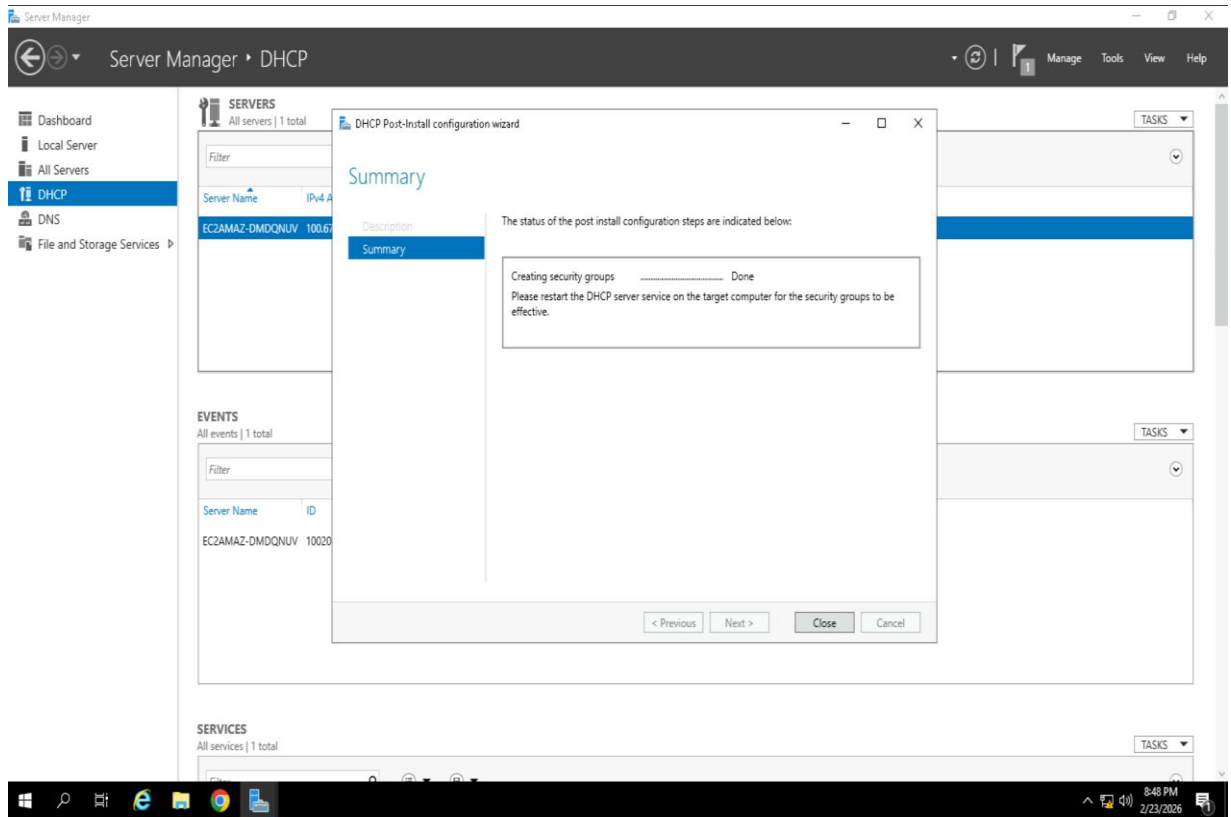


3. Briefly describe the screenshot, explaining the task or tool used.

The above screenshot illustrates the successful installation of a DHCP server. The DHCP server plays the role of assigning internet protocol addresses. This process operates in contrast to static internet protocol addresses, as static addresses are manually configured and permanent in their status.

Task 7. [12.5 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.

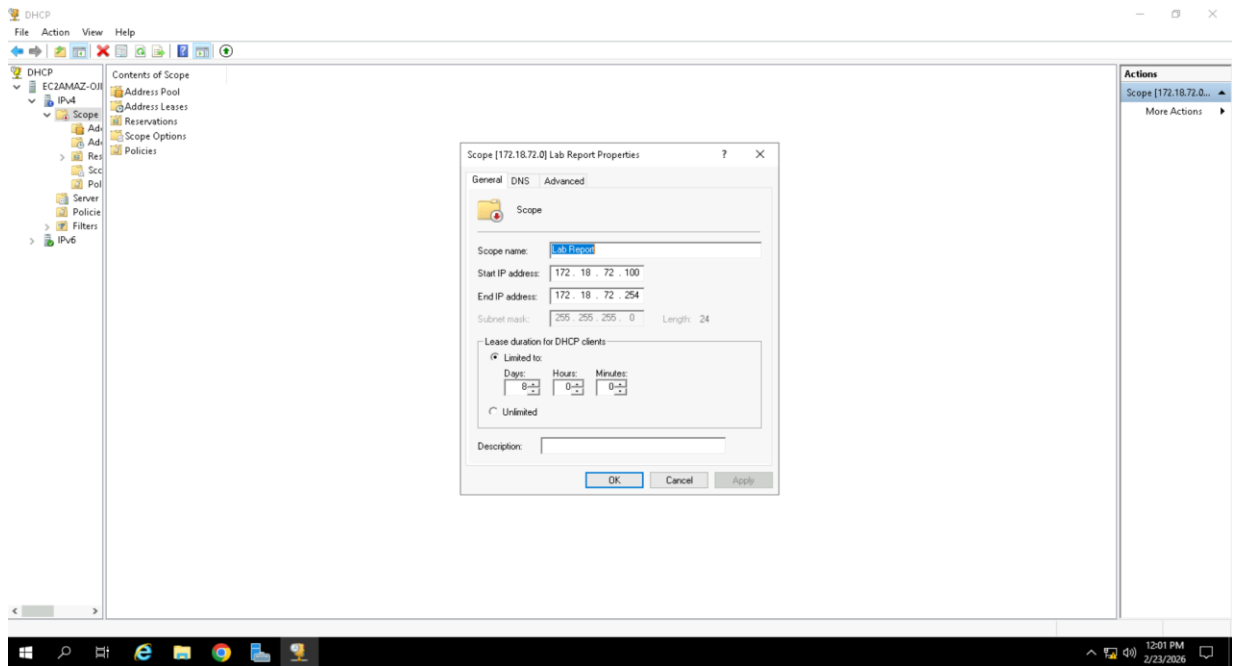


3. Briefly describe the screenshot, explaining the task or tool used.

The image above illustrates the successful configuration of the DHCP server. Installation is merely the first step in the process of managing a DHCP server. The configuration process for managing DHCP servers is critical, as failure to do so may cause post-installation conflicts in its desired functionality.

Task 8. [12.5 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.

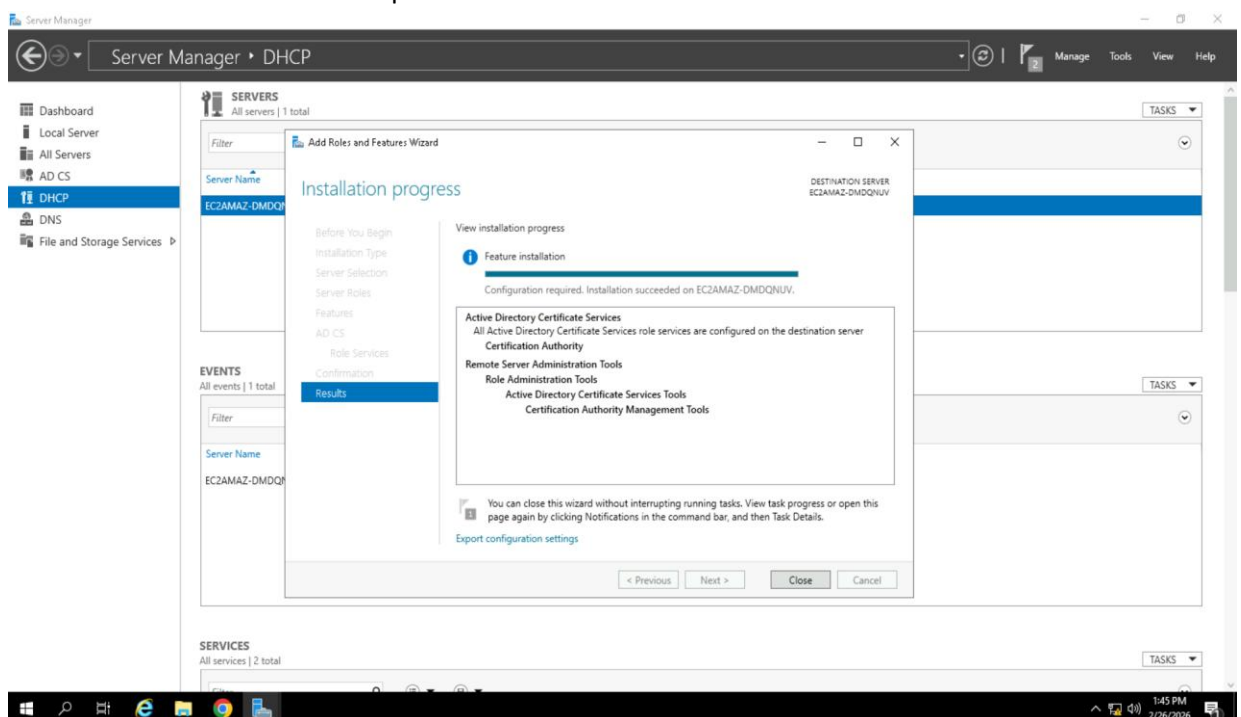


3. Briefly describe the screenshot, explaining the task or tool used.

The above image displays the successful completion and configuration of what is called a scope. The scope is the defined range of internet protocol addresses that are to be automatically assigned by the DHCP server.

Task 9. [12.5 points]

1. The most relevant task you can complete/perform.
2. Provide a screenshot of the completed task.



3. Briefly describe the screenshot, explaining the task or tool used.

The image above shows the successful installation and configuration of what is called *Active Directory Certificate Services*. The Active Directory Certificate Services tool functions to manage Public Key Infrastructure. Public Key Infrastructure allows for the issuance or revocation of digital certificates, which is critical to cybersecurity administrative operations.