



Experiment-7

Add and configure server roles

(ADDS without DNS delegation/certificate/DHCP/DNS)

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1. Aim/Overview of the practical:

Add and configure server roles (ADDS without DNS delegation/certificate/DHCP/DNS).

2. Task to be done:

On the Windows server 2008 add DHCP role and features on the server.

3. Apparatus:

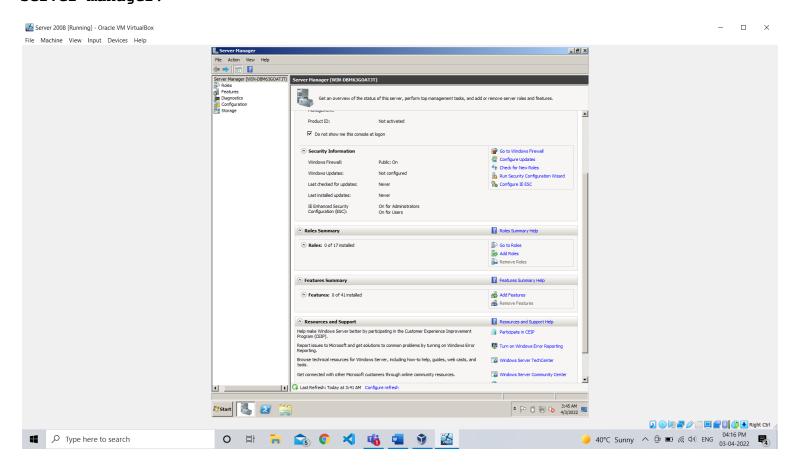
Windows Server 2008 Oracle VM Virtual Box Manager







- 4. Steps and their screenshots:
- 1: Open the Virtual Box and start the windows server 2008. Then open teh server manager.

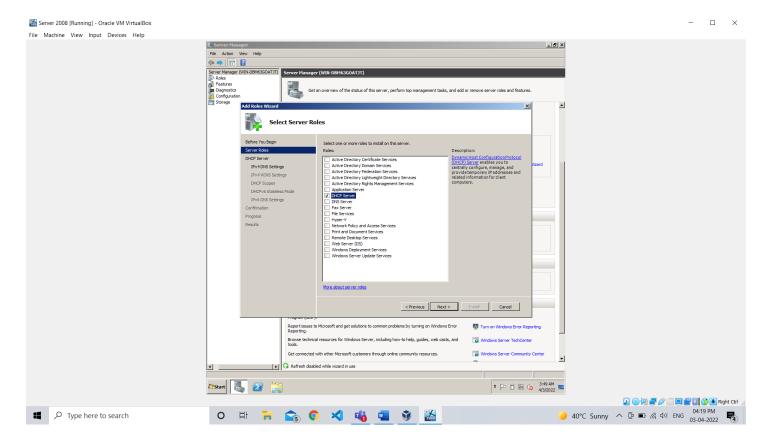








2: Select the Roles option and add a role for the server. Choose a DHCP server for the role.

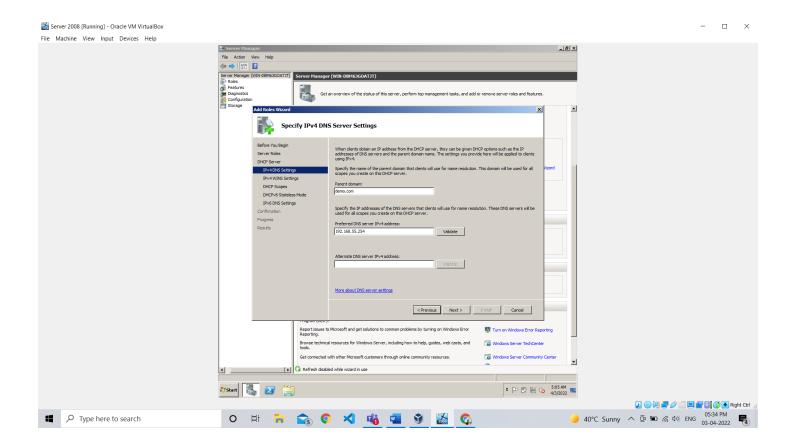








3: Specify the Domain name(for the experimentation purpose we can specify any random Domain name).

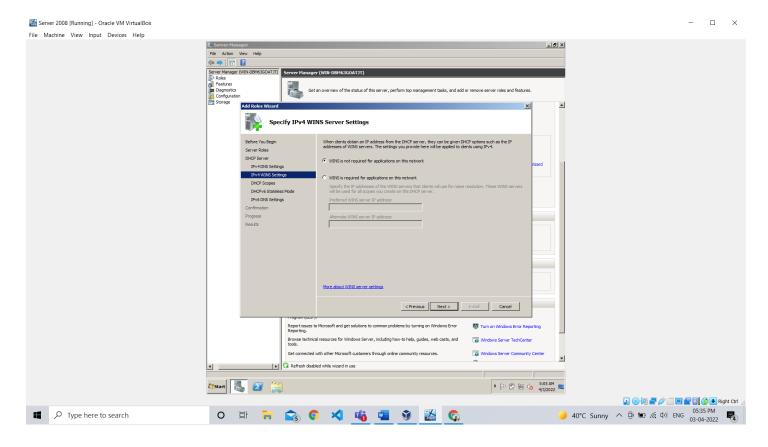








4: Select the specified option, as we do not require WINS for this network.

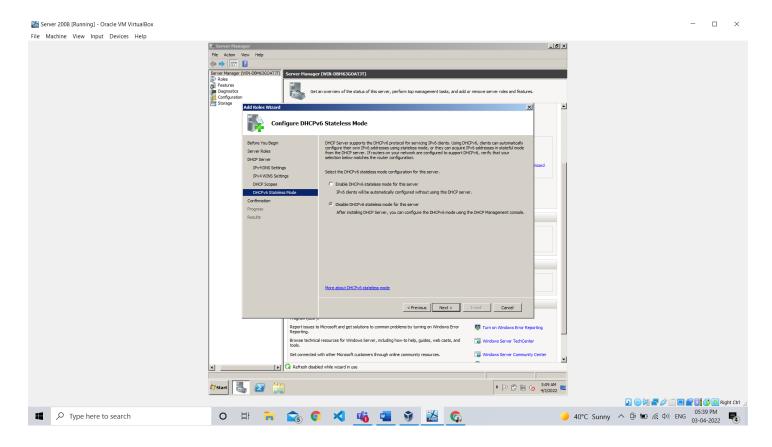








5: Disable DHCPv6 stateless mode for this server.

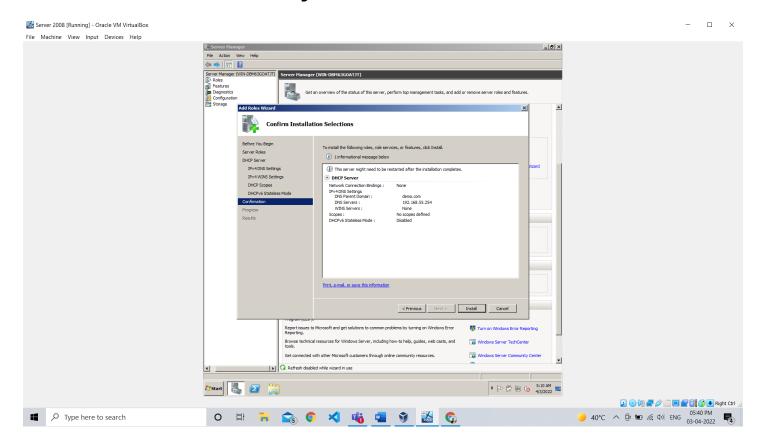








7: Install the selected configurations of the DHCP server.

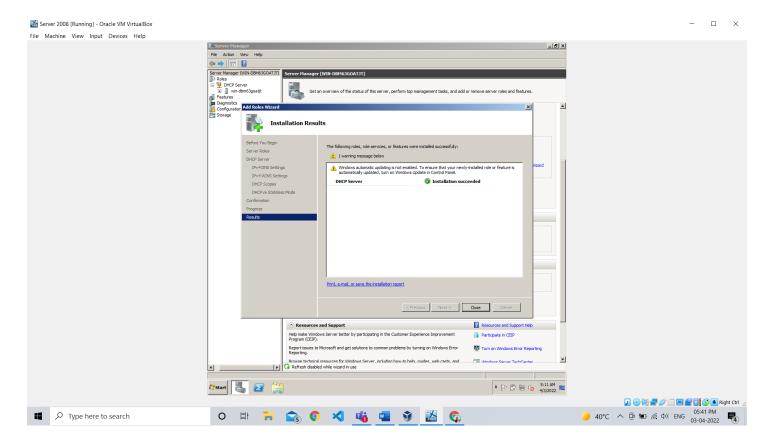








8: Installation successful. Now the server will act as a DHCP server.

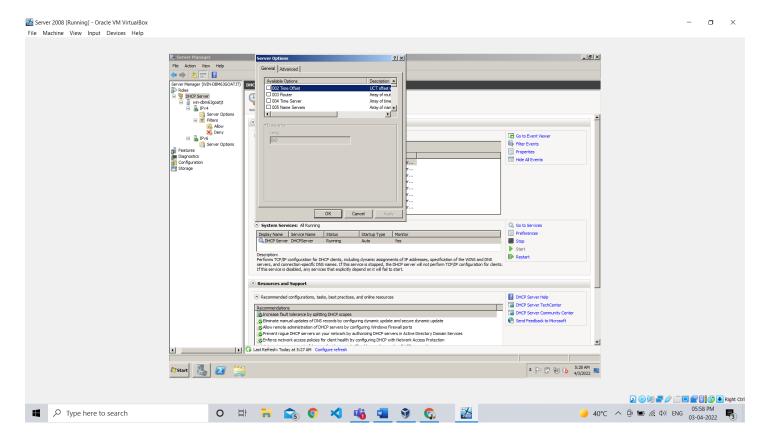








9: We can choose any server options that we want to add to the DHCP server.

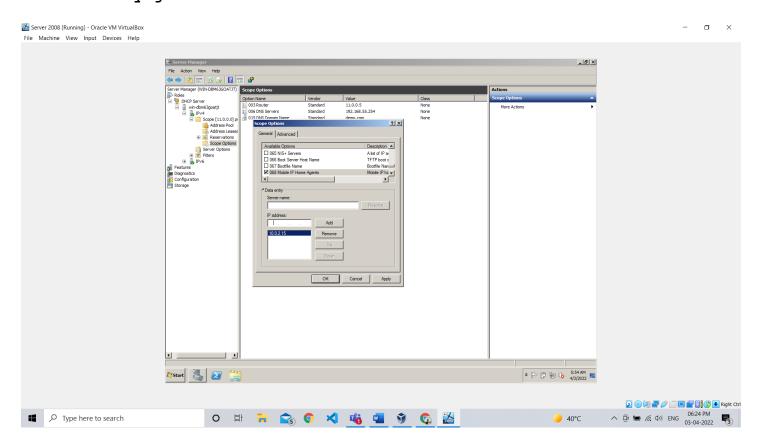








10: Adding the Mobile IP Home Agents server option, using the name of the same server on which we are working. On resolving the server name, it will automatically generate its IP address.

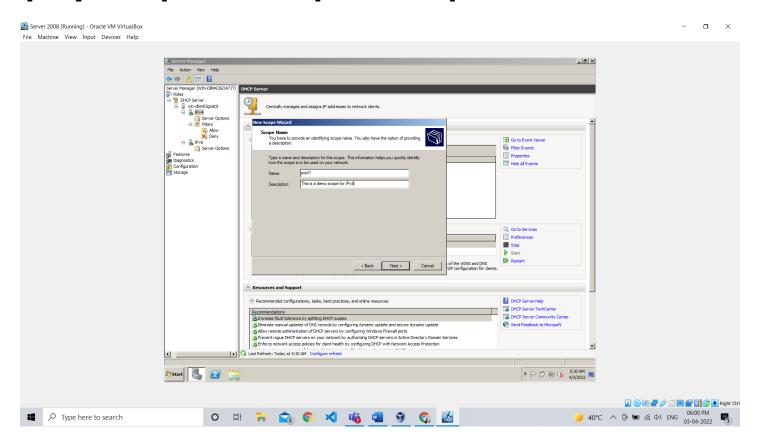








11: We can create a new scope wizard by right-clicking on the IPv4 option. Specify the scope name and an optional description.

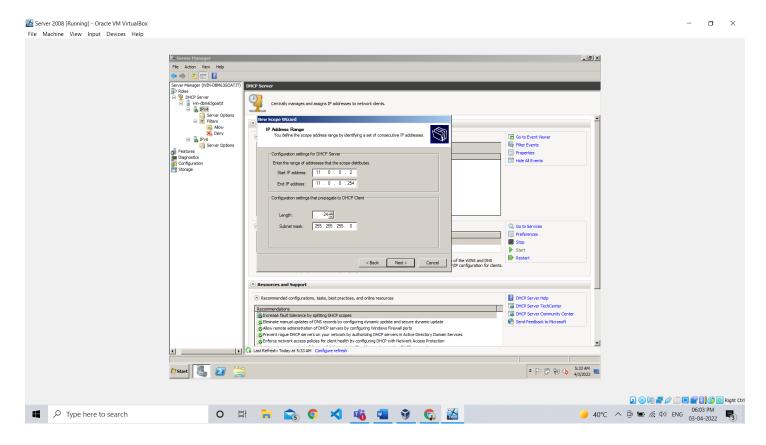








12: Specify the starting and ending IP address pool, for the IP address allocation by the DHCP server.

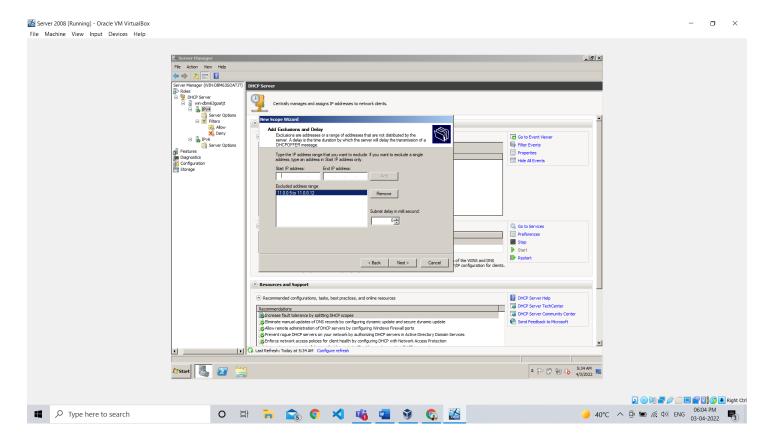








13: We can exclude any range of IP addresses, which we don't want to allocate to the client device, for example, an IP address like that of the router.

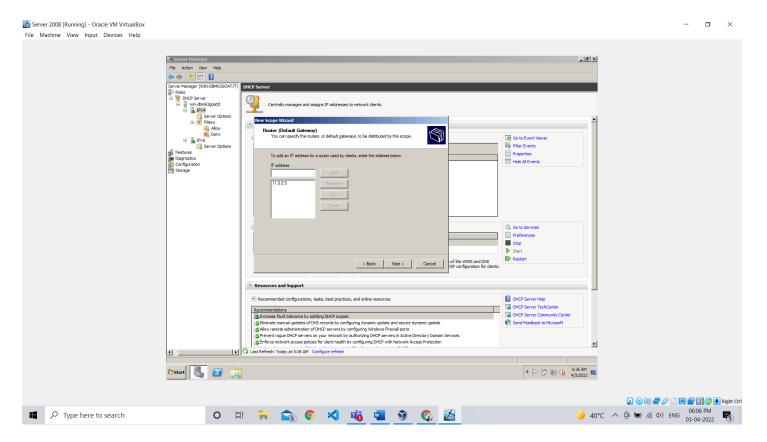








14: Give the IP address to the router (from the range which was excluded in the last step).

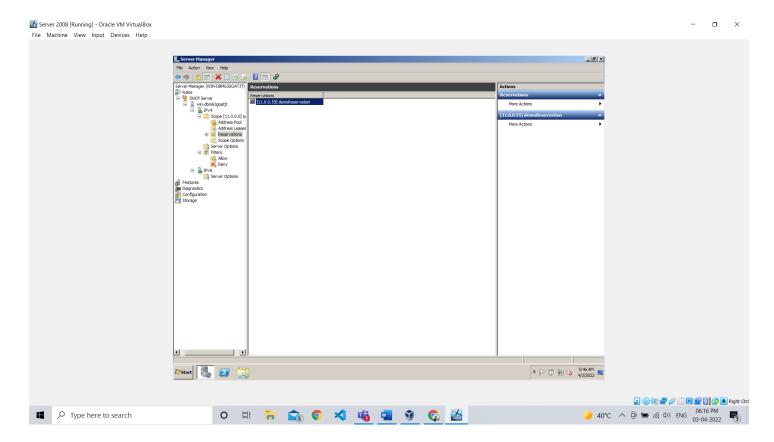








15: We use reservation to give a fixed/specific Ip address to a device by DHCP server.

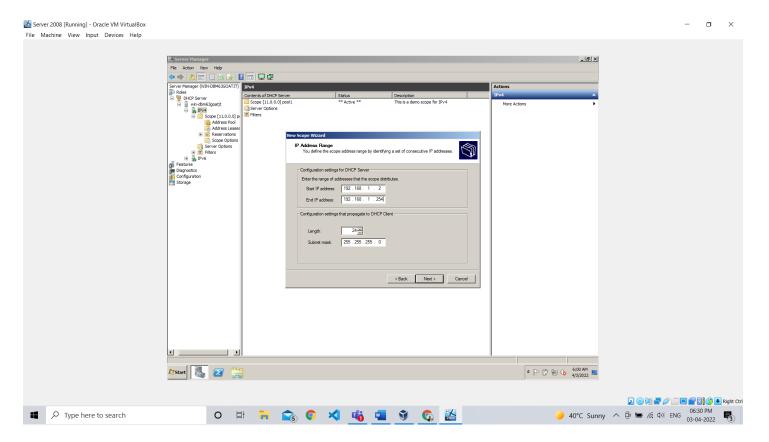








16: Creating another scope wizard for revision, named pool2. The same steps need to be performed as mentioned above.

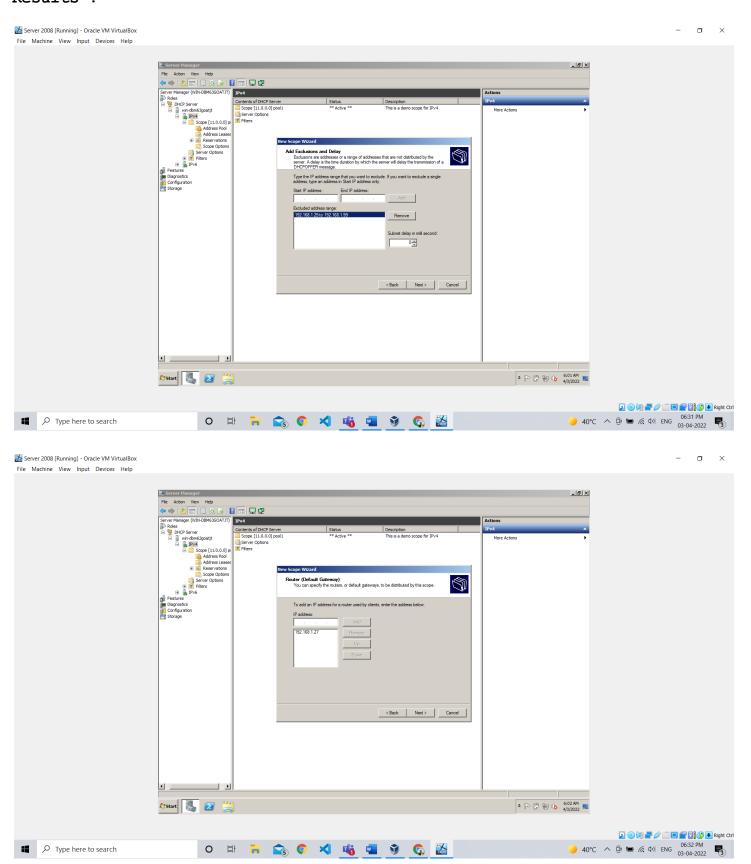








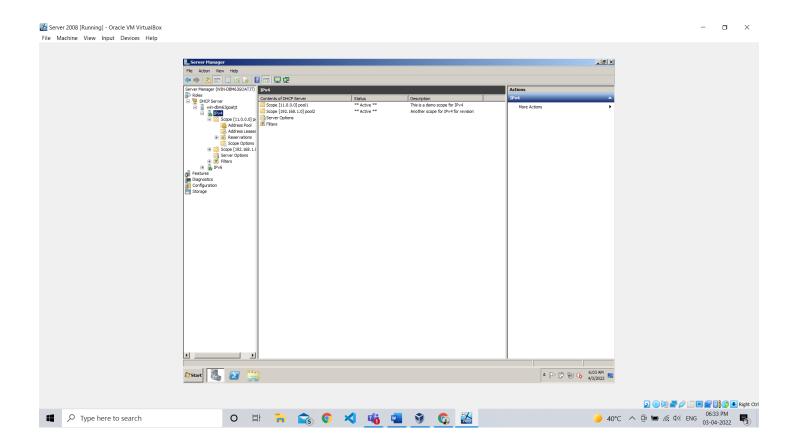
Results :

















Learning outcomes (What I have learned):

- 1. Learned to add roles and features on Windows server 2008, specifically DHCP.
- 2. Learned to add server options like Mobile IP Home Agents, specifying the server name and its IP address.
- 3. Learned to add a new scope wizard on IPv4.
- 4. Understood the different steps required like specifying the start and end IP address pool, excluding certain IP address ranges, which we don't want to allocate to the client device.
- 5. Configuring router with IP address.
- 6. Using reservation to allocate fixed/specific IP address to a particular client device.

Evaluation Grid (To be created as per the SOP and Assessment quidelines by the faculty):

Parameters	Marks Obtained	Maximum Marks
	Parameters	Parameters Marks Obtained

