

K. J. Somaiya Polytechnic, Mumbai-77

Batch No: C1

Enrollment No.: FCOW19118

Experiment No: 08

Experiment Name: Setting up DHCP server.

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Course Outcome:

O18RC58.1	Install & Configure Linux, Windows 2003 Server & set up DHCP server

Theory:

A **DHCP Server** is a network server that automatically provides and assigns IP addresses, default gateways and other network parameters to client devices. It relies on the standard protocol known as Dynamic Host Configuration Protocol or DHCP to respond to broadcast queries by clients.

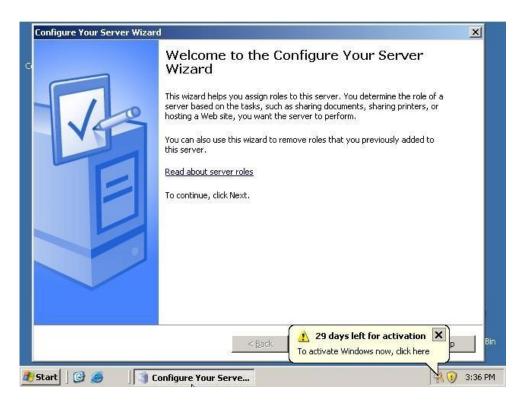
A DHCP server automatically sends the required network parameters for clients to properly communicate on the network. Without it, the network administrator has to manually set up everyclient that joins the network, which can be cumbersome, especially in large networks. DHCP servers usually assign each client with a unique dynamic IP address, which changes when the client's lease for that IP address has expired.

To setup a DHCP server follow these steps:

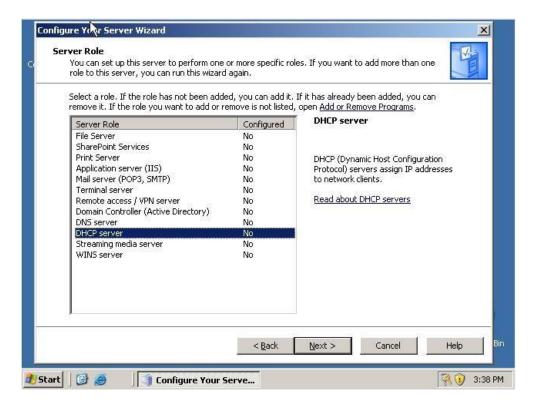
1. Click on start>All programs>Administrative Tools> Configure your server wizard.



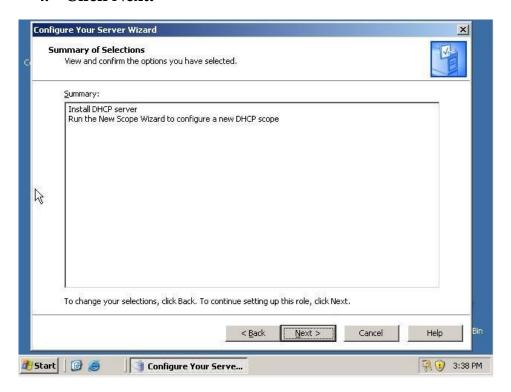
2. Click Next.



3. Select DHCP server then click Next.



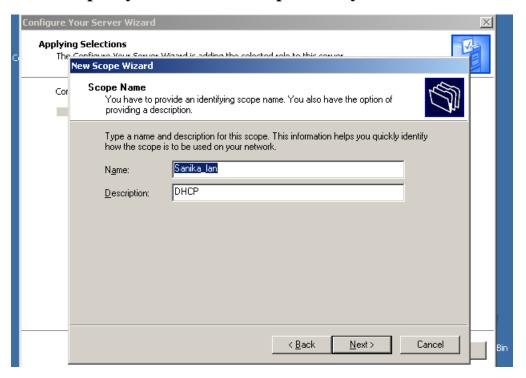
4. Click Next.



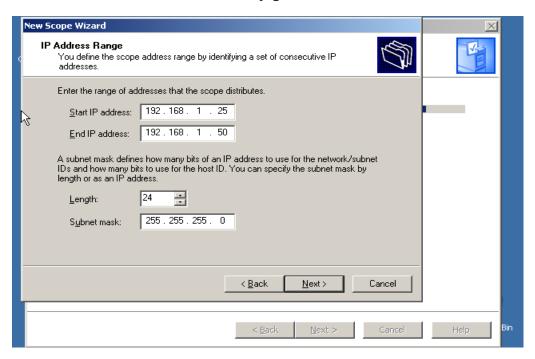
5. Now DHCP setup started, Click Next.



6. Specify Name and Description for your DHCP server then click Next.



7. Provide the starting and ending IP address range, Length and subnet mask will beautomatically provided. Click Next



8. Your entered IP address will show in below window, Click Next.



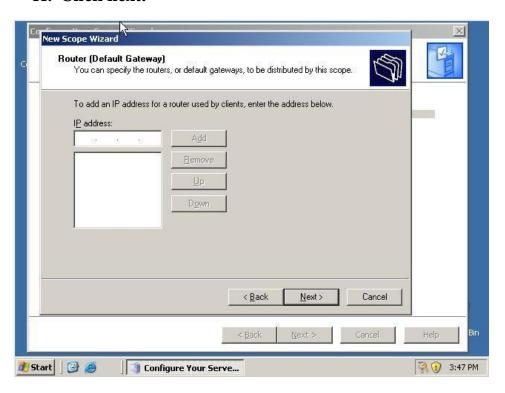
9. Select Expiration date and time of server.



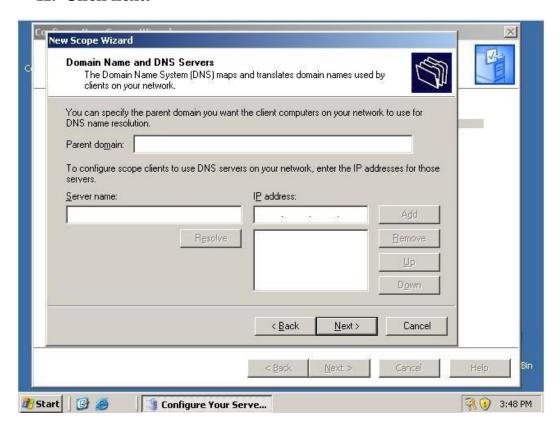
10. Select 'Yes, I want to configure these options now' then click Next.



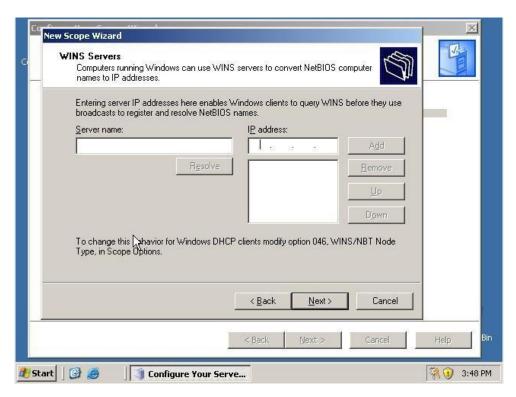
11. Click next.



12. Click next.



13. Click Next.



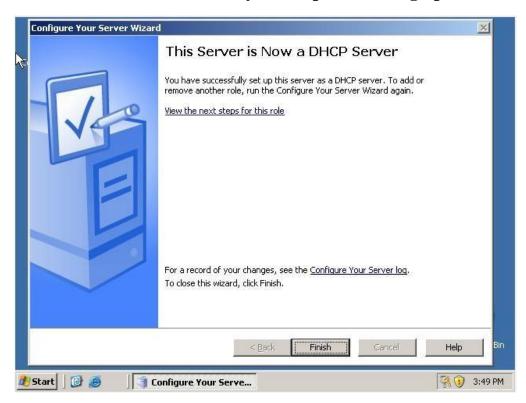
14. Select 'Yes, I want to activate this scope now' option then click next.



15. Click Finish.

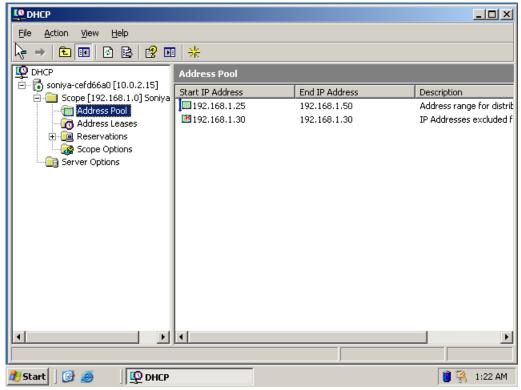


16. Click Finish. With this you completed setting up a DHCP server.

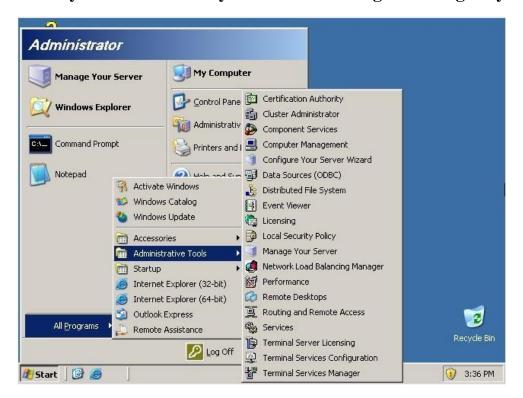


Now to check your DHCP server goto start>All programs>Administrative Tools> DHCP

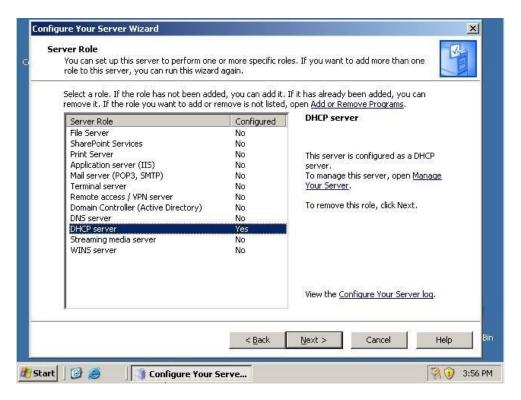




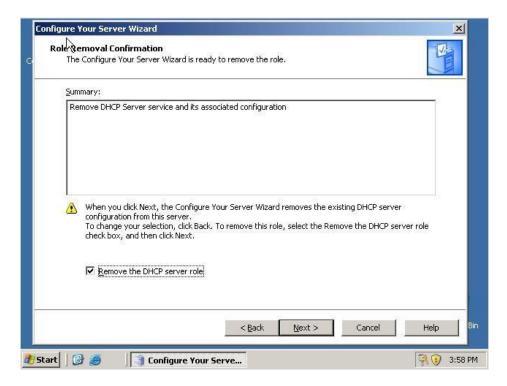
Now if you want to delete your DHCP server go to configure your server wizard.



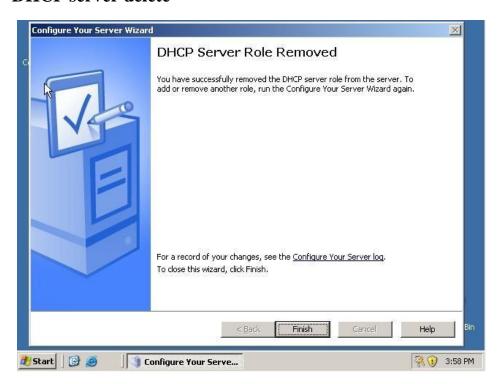
Select DHCP server then click next.



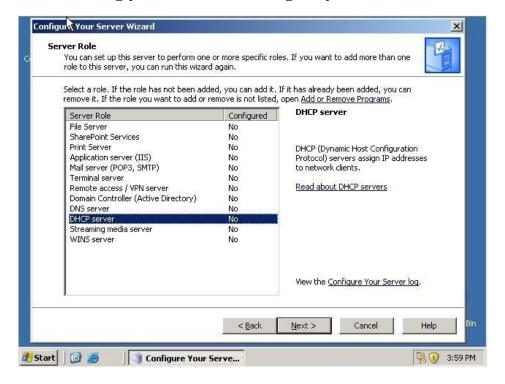
Check the 'Remove the DHCP server role' and click Next.



DHCP server delete



After deleting you can check configure your server wizard.



Conclusion: Thus, we set up a DHCP server.