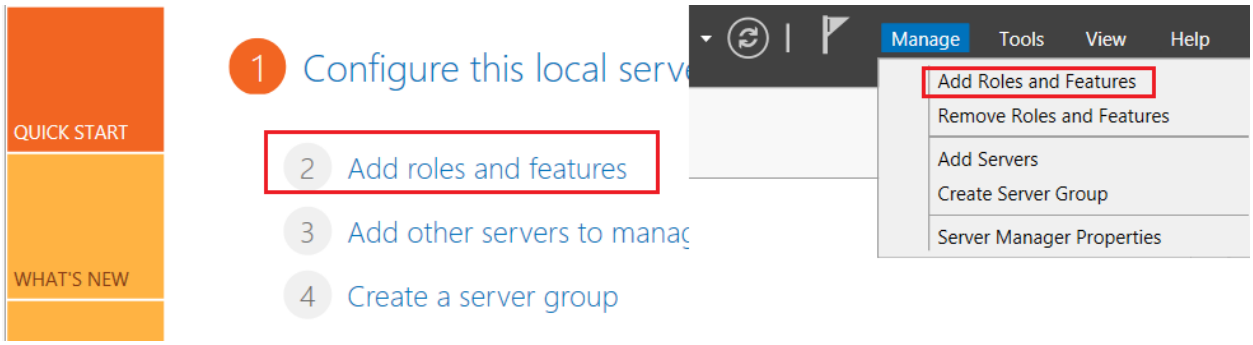
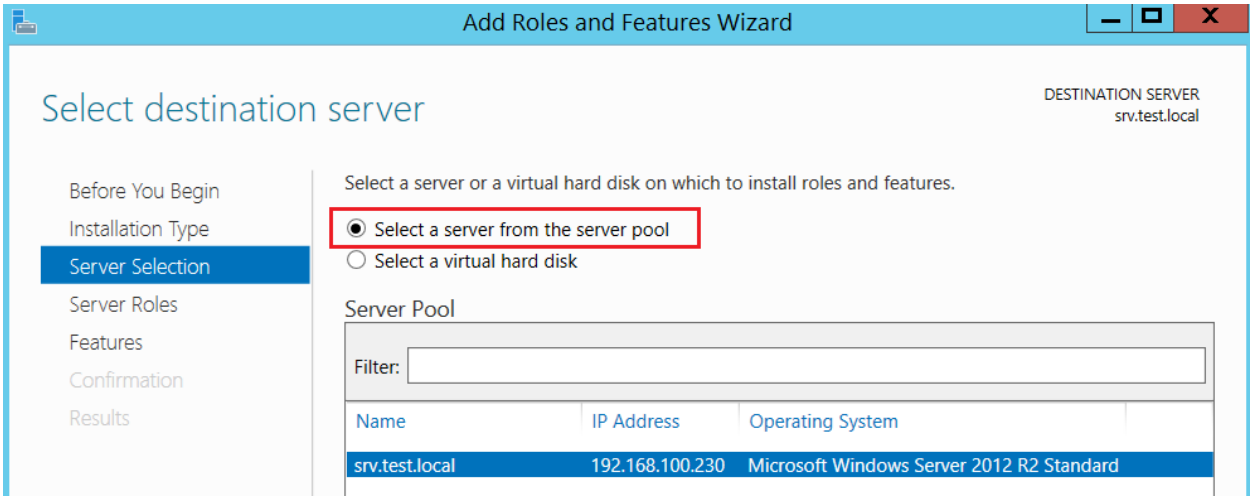
DHCP Server:

First, install DHCP server role. In Server 2012, install DHCP server role. Open Server Manager. On the menu, click Manage and click Add Roles and Features.

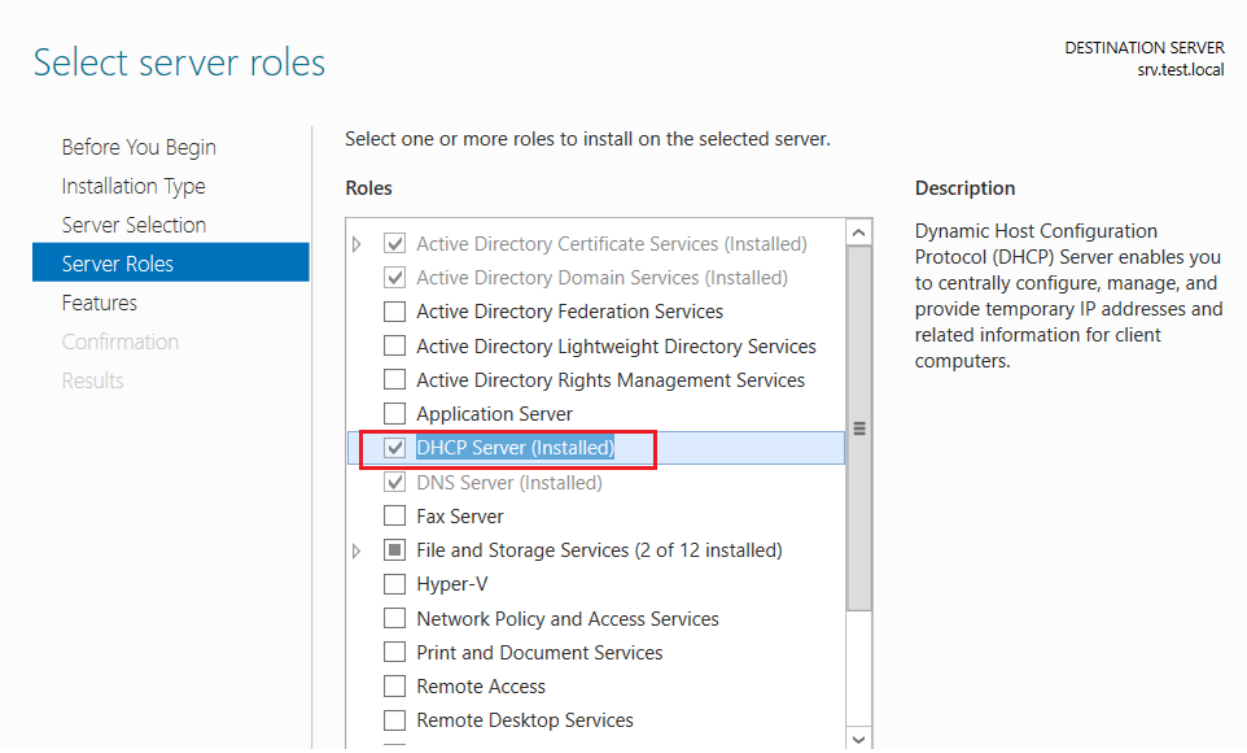


Select the option "Role-based or feature-based installation". Click Next to continue.

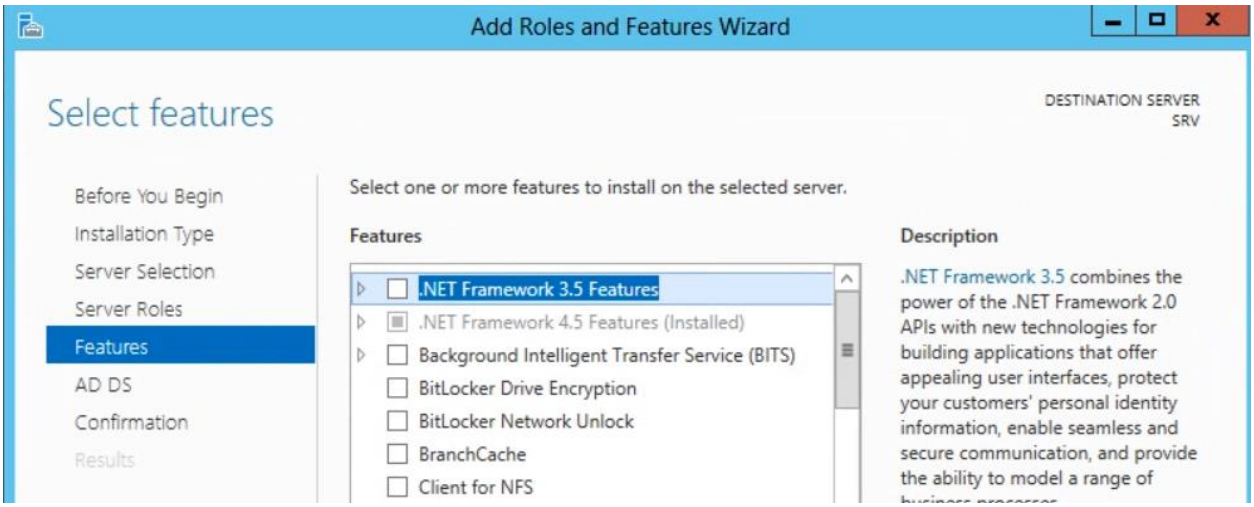
Select the server and click Next again.



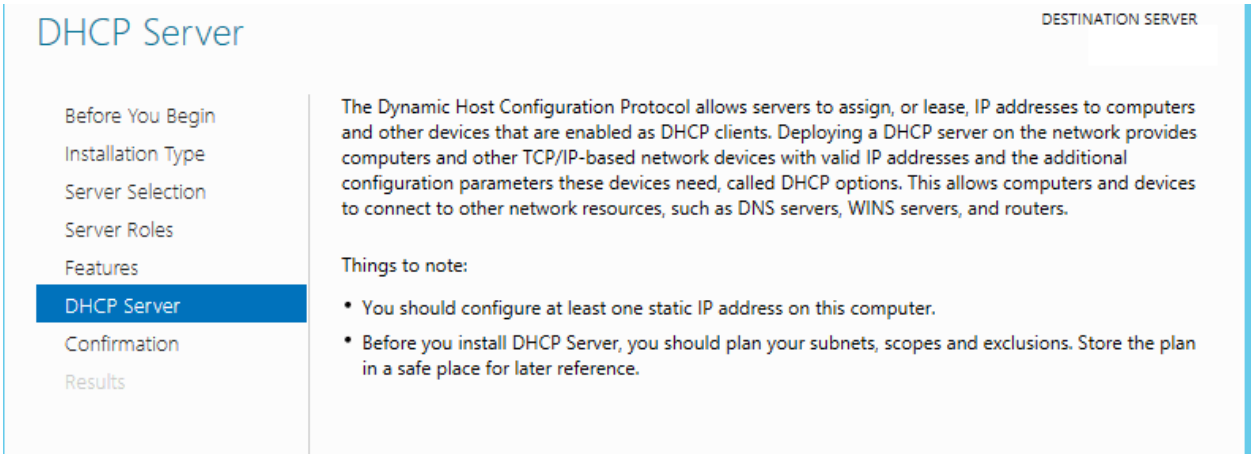
In the "Select Server Role" window, select DHCP role. This would add additional features required for DHCP. Click on "Add Features" to add all the dependent features automatically. Moreover, please ensure that "Include Management tool" option is checked. This will install the management tool required to manager the role. Click Next to continue.



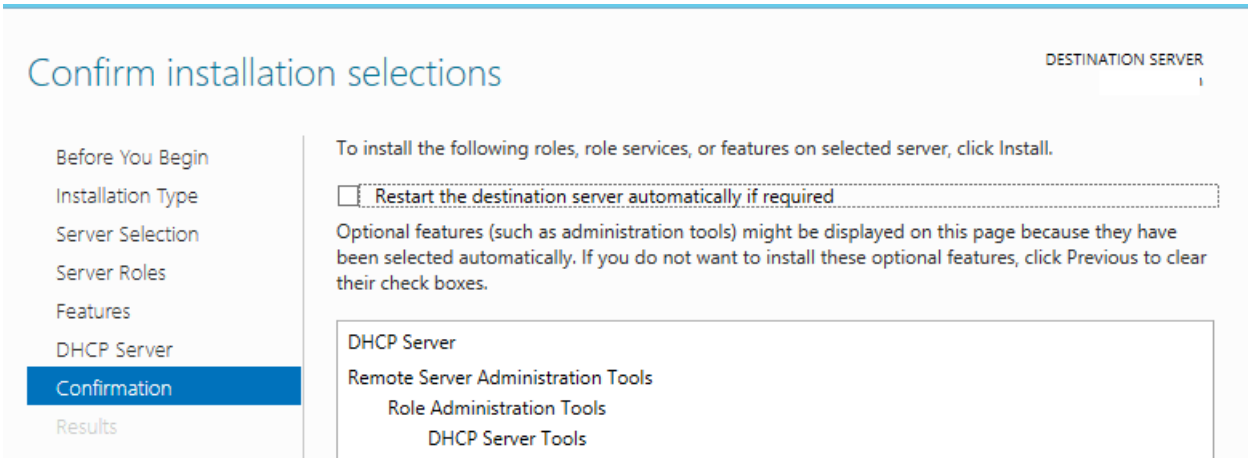
In the "Select Feature" window, all the dependent features are already selected. We don't need to select any additional feature. Click Next.



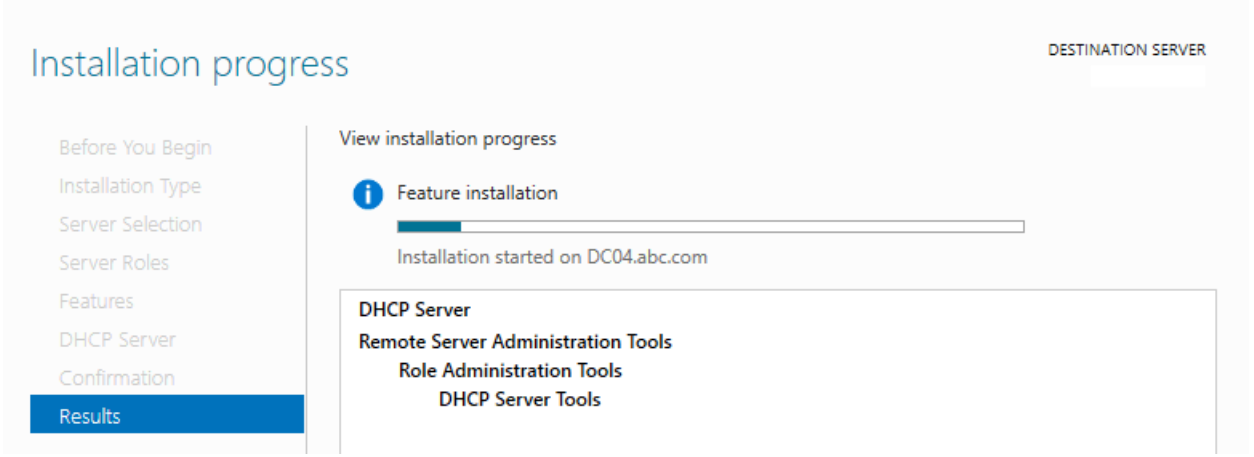
This window will explain you the functionality and advantages of DHCP.



Check the option "Restart the destination server automatically if required", this would restart your Computer after role is successfully installed. Click on yes, if you are good to automatically restart the computer. Click on install to begin the installation process.

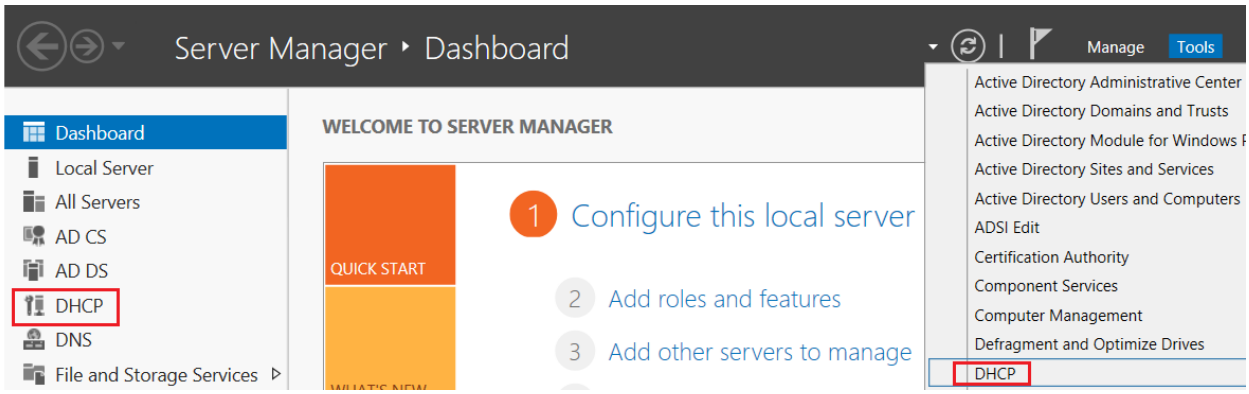


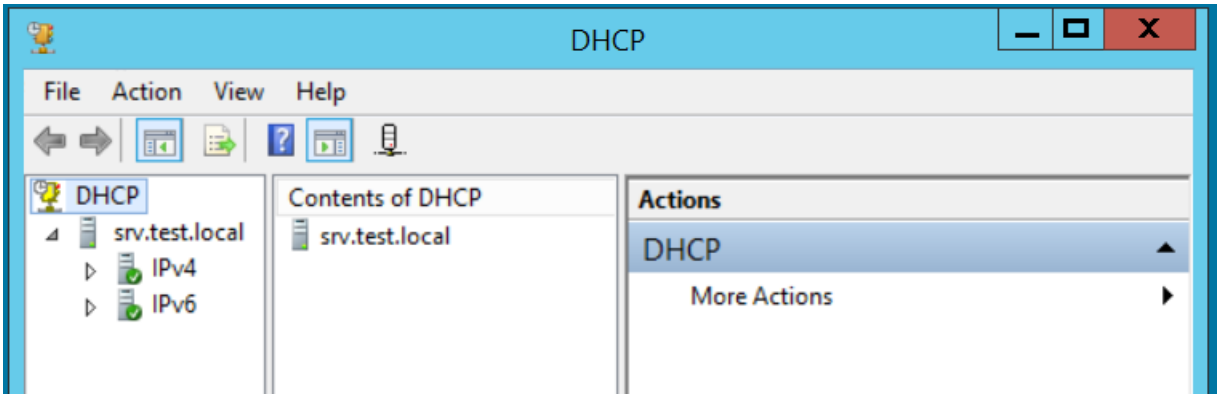
Installation progress can be reviewed in this window. You can even close this window; it would not interrupt the running task. Click close once the installation is completed.



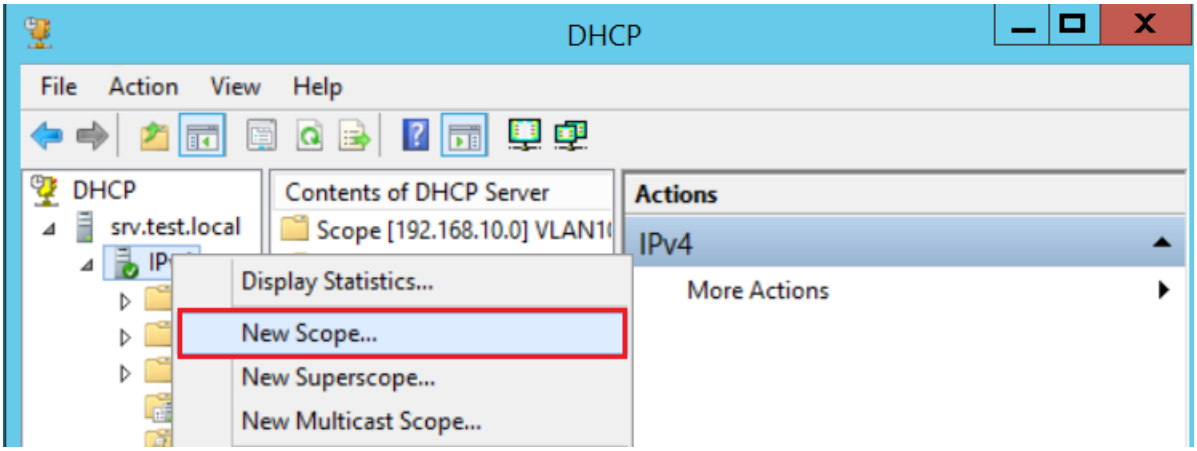
Create DHCP Server Scopes:

Login to DHCP server as administrator, run DHCP control console.

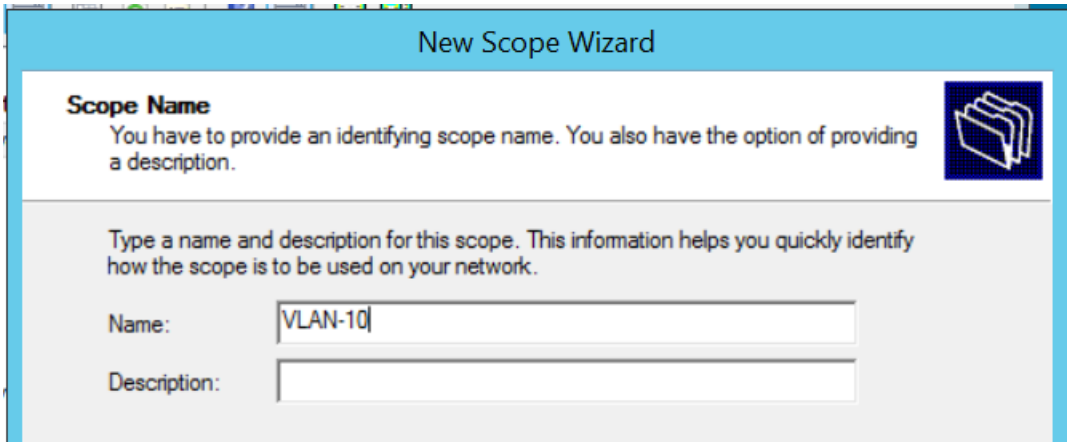




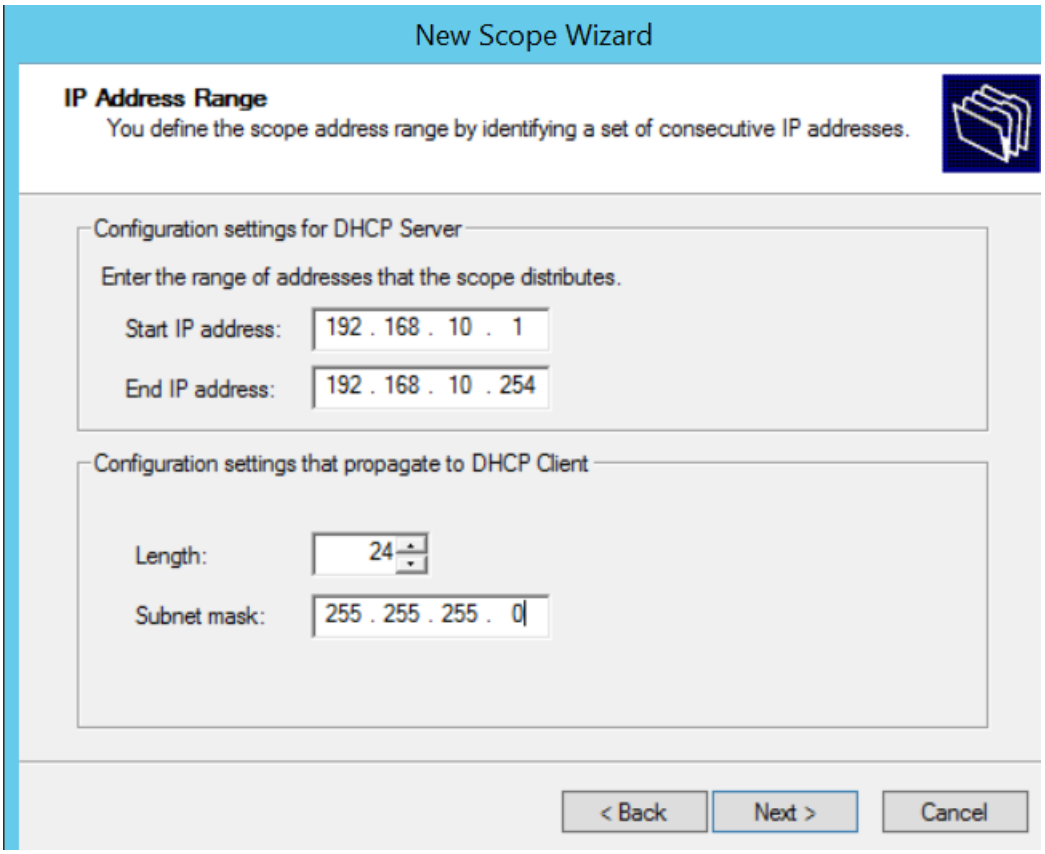
To create the new scope, right click on IPV4 then select on New Scope. Scope is a group or range of IPs that DHCP would lease to clients.



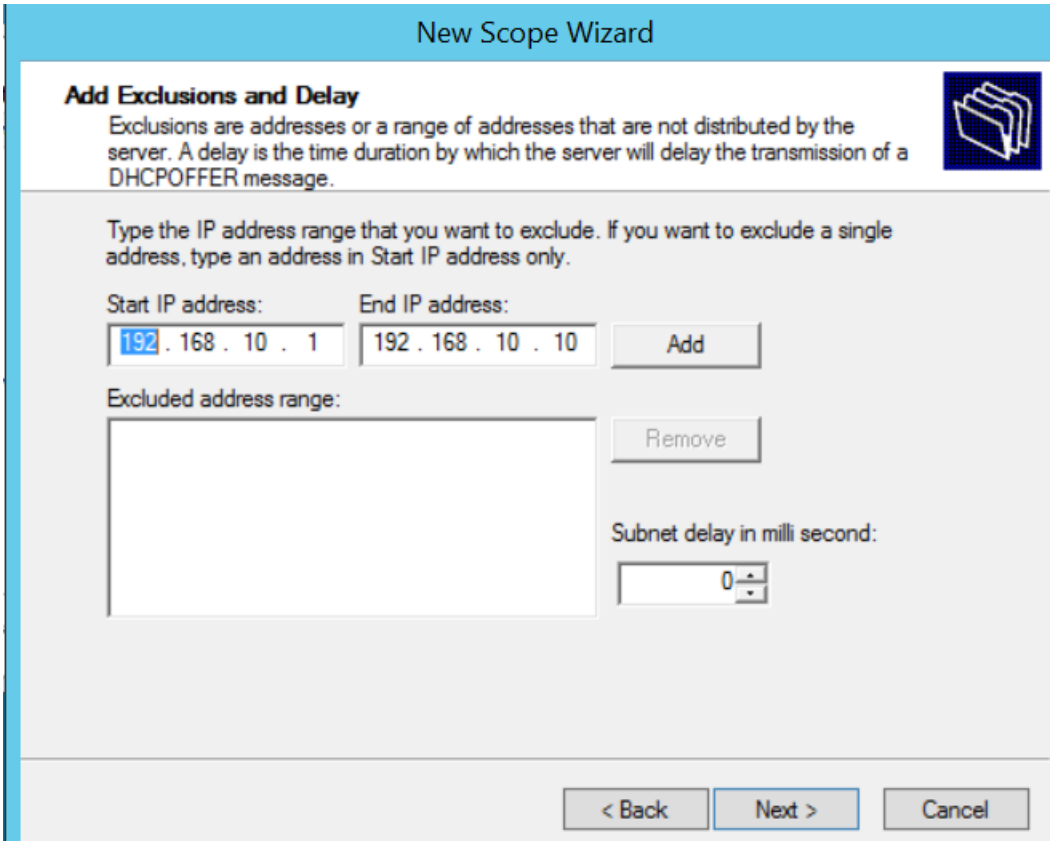
It opens "the New Scope Wizard". It defines the range of IPs DHCP will assign to client. To configure DHCP Scope, enter the name of the Scope you want to define as per your requirement and you can give a brief description, then click on next to proceed.



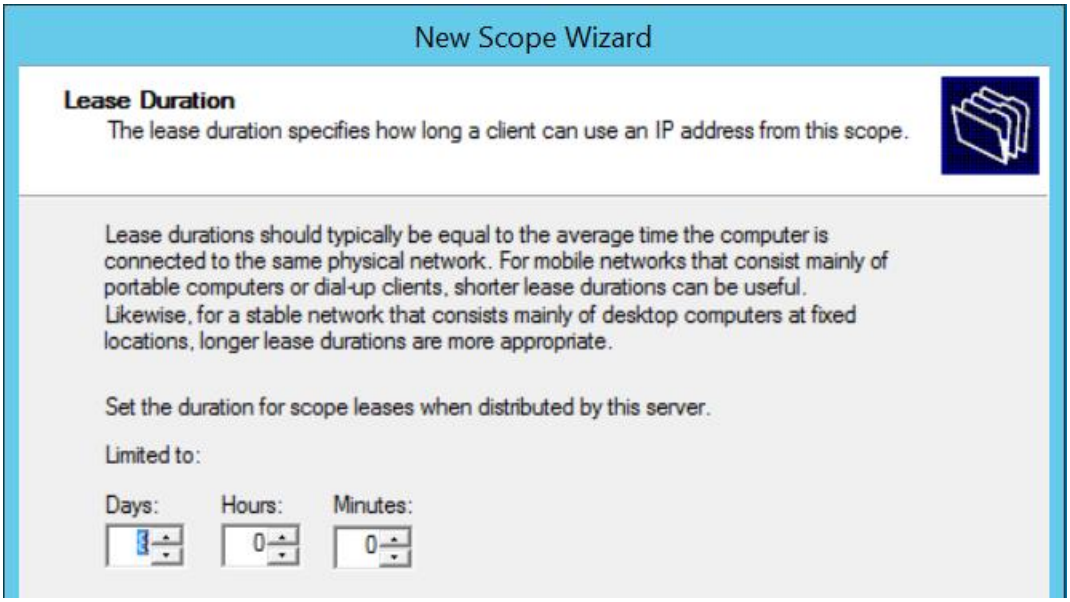
On the "IP Address Range" window, we have to define the range of IPs for the scope. Click Next to continue. In the "Subnet mask" define the subnet mask.



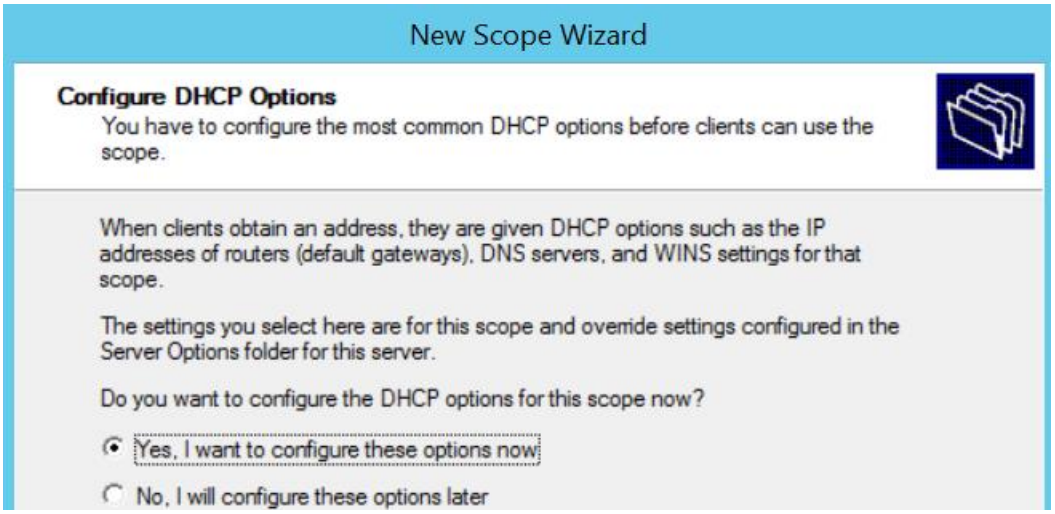
On the" Add Exclusions and Delay" console we set the IP range that we want to exclude. In this console, we set the range from 192.168.10.1 to 192.168.10.10 as our excluded range and then click on ADD to set excluded address range. Exclusion defines the range of IP address that DHCP will not offer or assign to client machines. To continue, click Next.



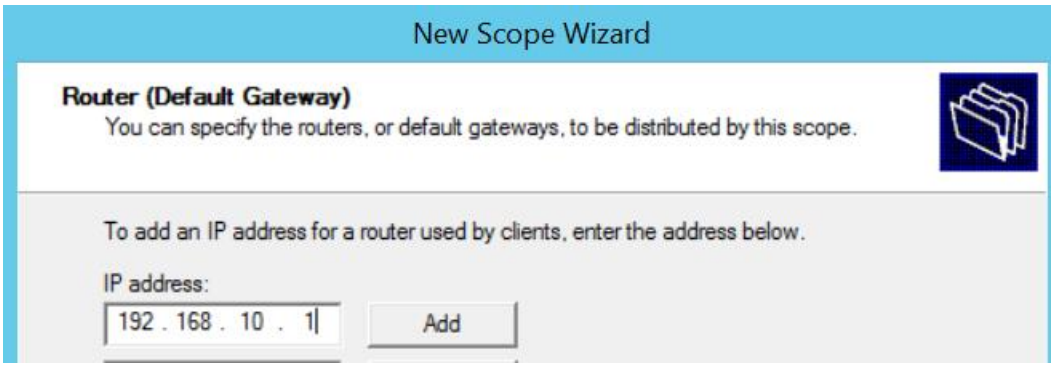
On the "Lease Duration" console we can define the lease for the IP, by default the lease is for 8 days. It can be increased or decreased as per your requirement.



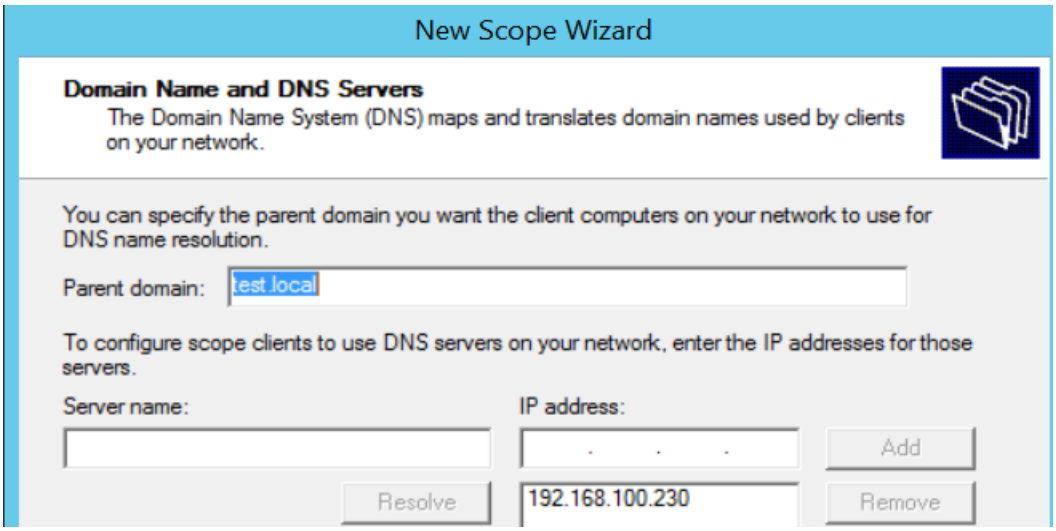
On the Configure DHCP options select checkbox “Yes, I want to configure these options now” and click Next to continue.



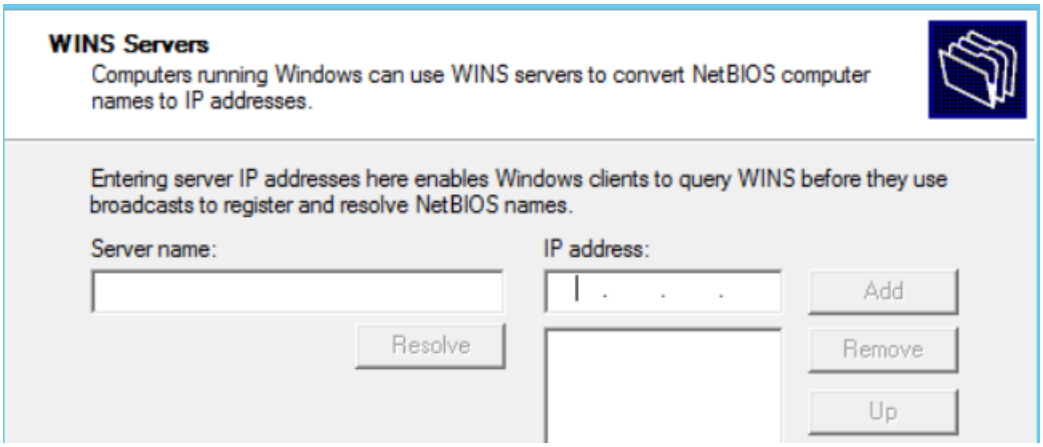
To add an IP address for a Router (Gateway) used by clients, enter the address below otherwise click on Next to continue.



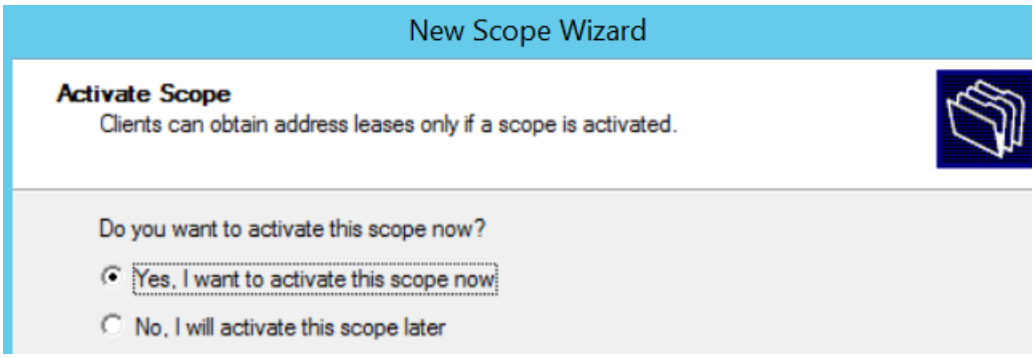
On Domain Name and DNS Servers window enter parent domain and DNS server name and DNS IP address. In case of multiple DNS IPs, you can add them individually. Click next to continue.



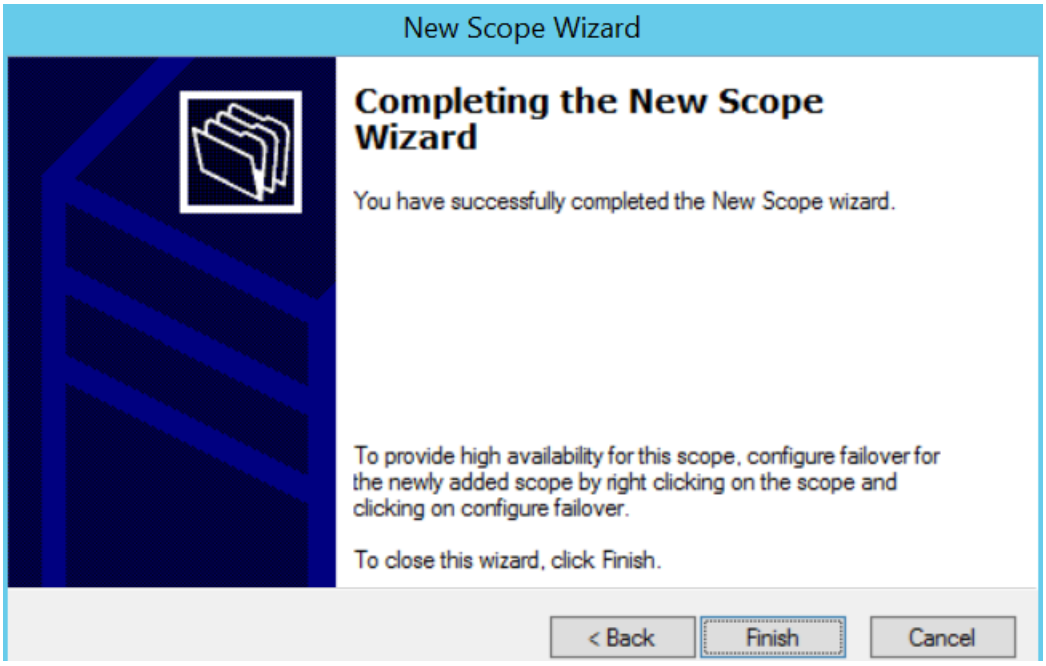
On WINS Server window enter details like Server name and IP address otherwise click on Next



On Activate Scope window select “Yes, I want to activate this scope now” to activate the scope otherwise select “No, I will activate this scope later” to activate it after sometime.



On “Complete the New Scope Wizard” click ‘Finish’ to close the console.



Similarly create two more Scopes VLAN20 and VLAN30 showing below image.