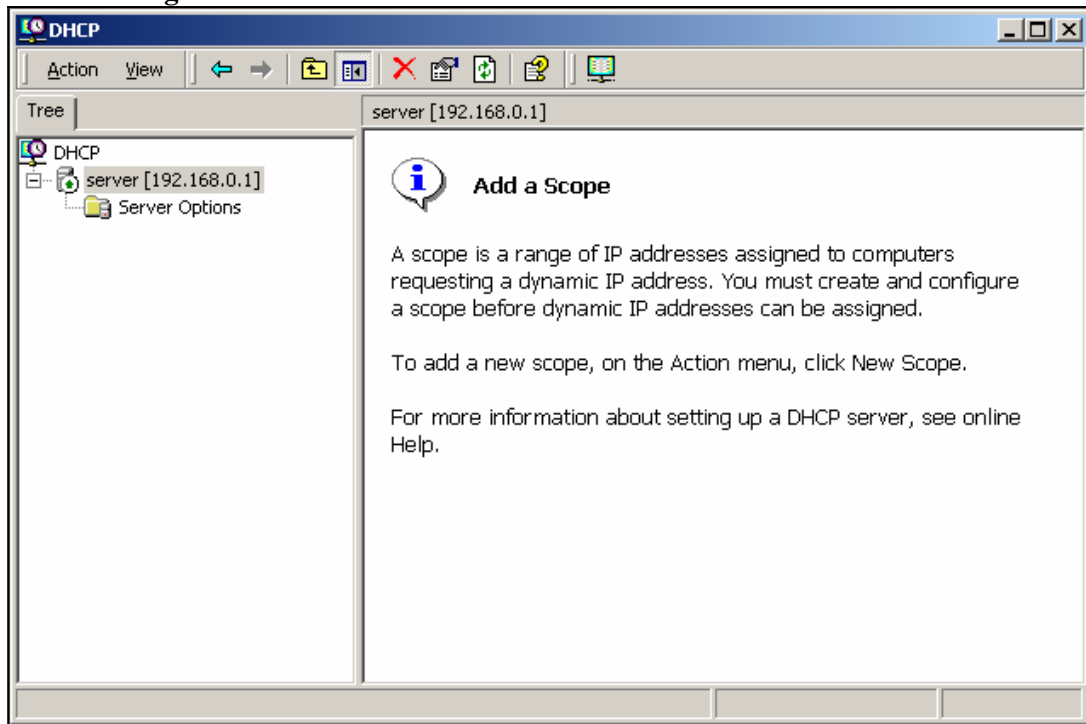


DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP)

IP address dan subnet mask dapat diberikan secara otomatis menggunakan Dynamic Host Configuration Protocol atau diisi secara manual.

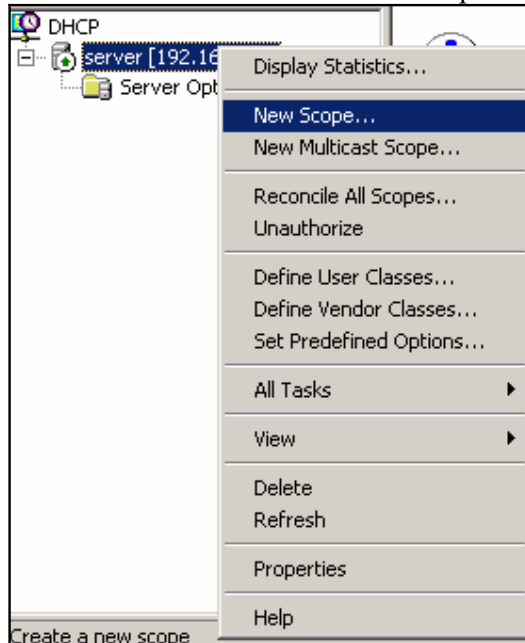
DHCP berfungsi untuk memberikan IP address secara otomatis pada komputer yang menggunakan protokol TCP/IP. DHCP bekerja dengan relasi client-server, dimana DHCP server menyediakan suatu kelompok IP address yang dapat diberikan pada DHCP client. Dalam memberikan IP address ini, DHCP hanya meminjamkan IP address tersebut. Jadi pemberian IP address ini berlangsung secara dinamis.

Untuk mengkonfigurasi DHCP di Windows 2000 Server adalah dengan menjalankan **Start → Programs → Administrator Tools → DHCP**.

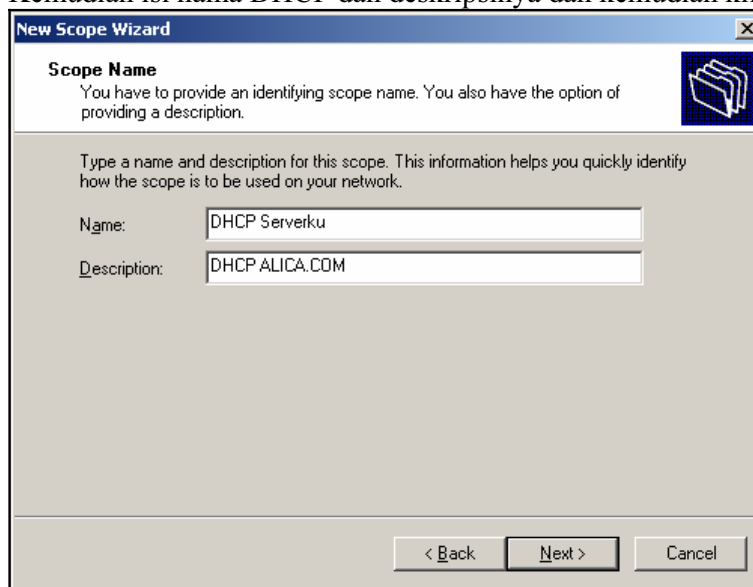


SETING SCOPE DHCP BARU

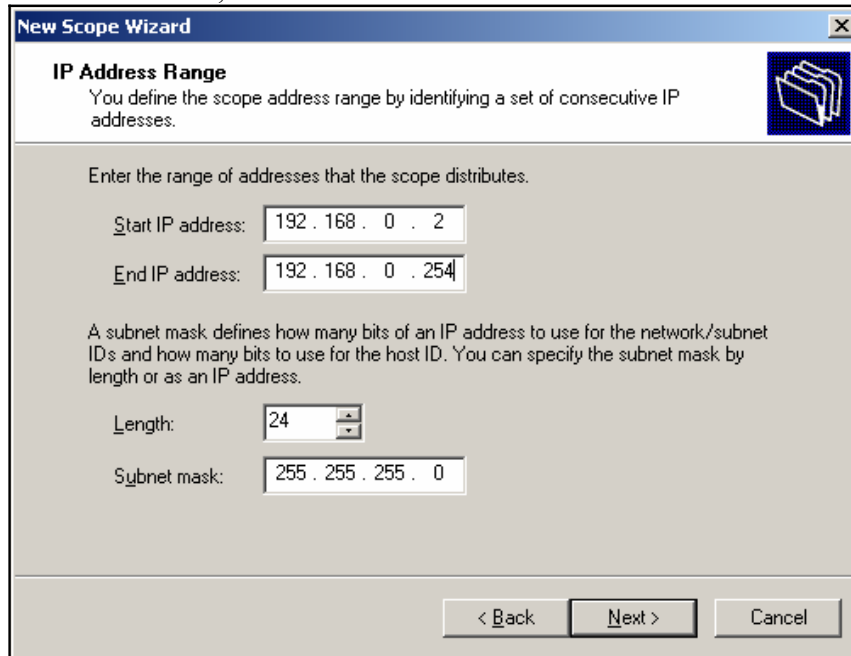
- Jalankan program DHCP
- Klik kanan di nama server kemudian pilih New Scope



- Klik **Next** di layar pembukaan pembuatan Scope
- Kemudian isi nama DHCP dan deskripsinya dan kemudian klik Next.

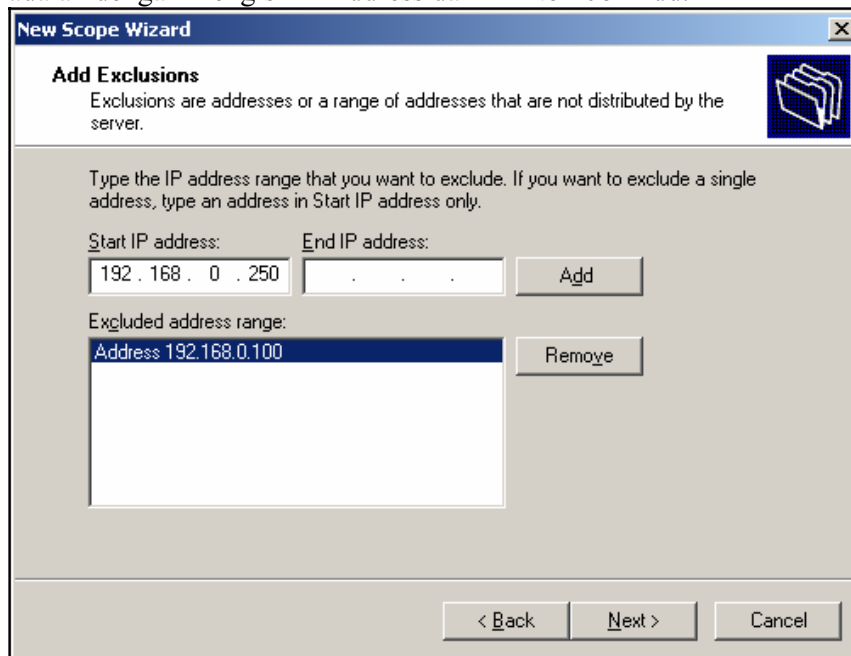


- Isi IP awal dan IP akhir yang akan dipakai oleh scope ini.
Contoh : IP Awal : 192.168.0.2 dan IP akhir : 192.168.0.254.
Kalau sudah diisi, klik tombol **Next**.



The screenshot shows the 'New Scope Wizard' window with the 'IP Address Range' tab selected. The window title is 'New Scope Wizard'. Below the title bar, there's a description: 'You define the scope address range by identifying a set of consecutive IP addresses.' The main area contains the instruction 'Enter the range of addresses that the scope distributes.' There are two input fields: 'Start IP address:' with the value '192 . 168 . 0 . 2' and 'End IP address:' with the value '192 . 168 . 0 . 254'. Below these, there's a description of a subnet mask: 'A subnet mask defines how many bits of an IP address to use for the network/subnet IDs and how many bits to use for the host ID. You can specify the subnet mask by length or as an IP address.' There are two input fields: 'Length:' with the value '24' and 'Subnet mask:' with the value '255 . 255 . 255 . 0'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

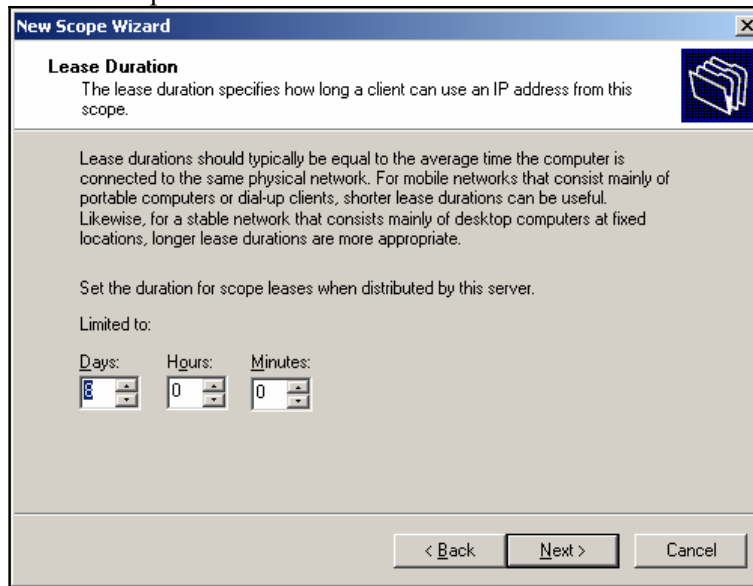
- Kemudian isi IP-IP yang tidak boleh dikeluarkan oleh DHCP tersebut. Caranya adalah dengan mengisi IP Address dan klik tombol Add.



The screenshot shows the 'New Scope Wizard' window with the 'Add Exclusions' tab selected. The window title is 'New Scope Wizard'. Below the title bar, there's a description: 'Exclusions are addresses or a range of addresses that are not distributed by the server.' The main area contains the instruction 'Type the IP address range that you want to exclude. If you want to exclude a single address, type an address in Start IP address only.' There are two input fields: 'Start IP address:' with the value '192 . 168 . 0 . 250' and 'End IP address:' with the value ' . . .'. To the right of the 'End IP address:' field is an 'Add' button. Below these, there's a section titled 'Excluded address range:' with a list box containing the text 'Address 192.168.0.100'. To the right of the list box is a 'Remove' button. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Karena IP 192.168.0.100 dan IP 192.168.0.250 dipakai oleh komputer server untuk web server, nomor ip tersebut tidak dikeluarkan/didistribusikan oleh DHCP server.

- Isi jangka waktu yang boleh digunakan oleh client yang menggunakan/mengambil IP dari komputer server DHCP. Klik tombol **Next**.



The screenshot shows the 'New Scope Wizard' dialog box with the 'Lease Duration' step selected. The title bar reads 'New Scope Wizard'. The main text area contains the following information:

Lease Duration
The lease duration specifies how long a client can use an IP address from this scope.

Lease durations should typically be equal to the average time the computer is connected to the same physical network. For mobile networks that consist mainly of portable computers or dial-up clients, shorter lease durations can be useful. Likewise, for a stable network that consists mainly of desktop computers at fixed locations, longer lease durations are more appropriate.

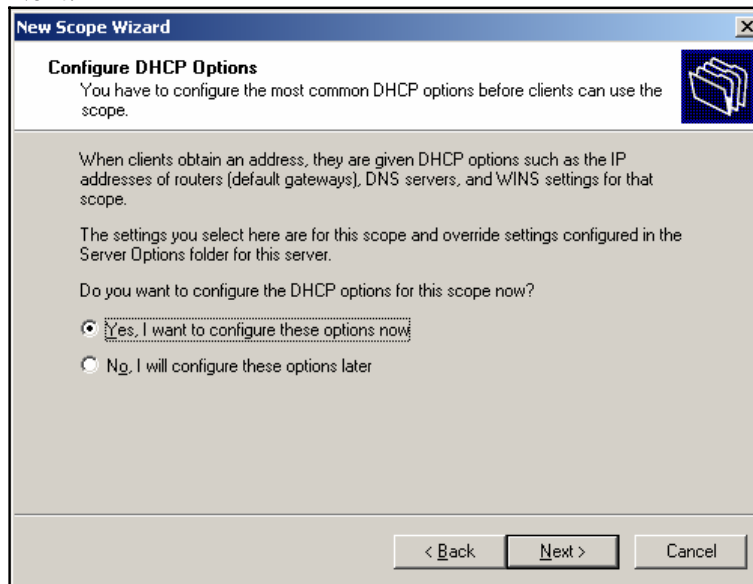
Set the duration for scope leases when distributed by this server.

Limited to:

Days: 8 Hours: 0 Minutes: 0

At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

- Pilih *Yes, I want to configure these options now*, dan kemudian tekan tombol **Next**.



The screenshot shows the 'New Scope Wizard' dialog box with the 'Configure DHCP Options' step selected. The title bar reads 'New Scope Wizard'. The main text area contains the following information:

Configure DHCP Options
You have to configure the most common DHCP options before clients can use the scope.

When clients obtain an address, they are given DHCP options such as the IP addresses of routers (default gateways), DNS servers, and WINS settings for that scope.

The settings you select here are for this scope and override settings configured in the Server Options folder for this server.

Do you want to configure the DHCP options for this scope now?

☒ Yes, I want to configure these options now

☐ No, I will configure these options later

At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

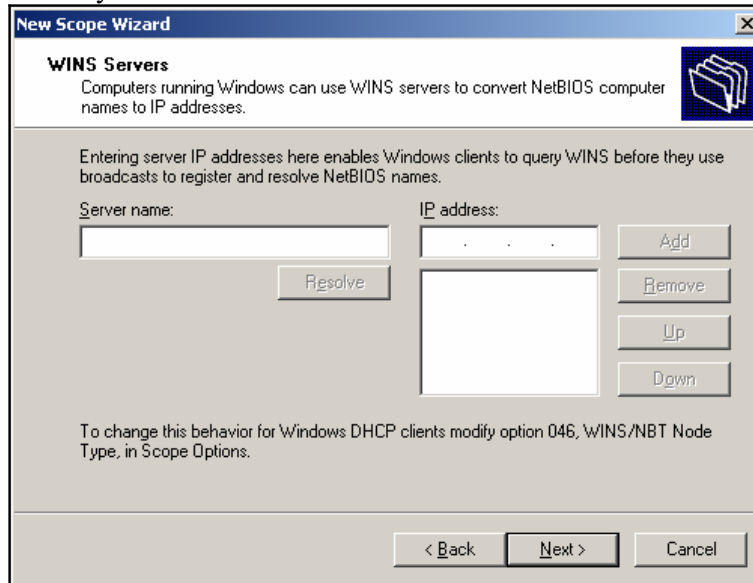
- Langkah-langkah selanjutnya adalah mengeset IP-IP address yang akan dibagikan ke client. IP pertama yang ditanya adalah IP Gateway. Isi dengan alamat gateway contohnya : 192.168.0.1 dan kemudian klik tombol Add.

The screenshot shows the 'New Scope Wizard' window with the title bar 'New Scope Wizard'. The main heading is 'Router (Default Gateway)' with a subtext 'You can specify the routers, or default gateways, to be distributed by this scope.' Below this, it says 'To add an IP address for a router used by clients, enter the address below.' There is a text input field labeled 'IP address:' containing '192.168.0.1'. To the right of the input field are four buttons: 'Add', 'Remove', 'Up', and 'Down'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

- IP berikutnya yang diseting adalah Domain Name dan IP dari DNS Server, dalam hal ini Domain Name : Alica.com dan DNS Server adalah : 192.168.0.1, tulis IP tersebut dan kemudian klik tombol **Add**. (lebih jelas lihat gambar). Jika no IP DNS lupa dan hanya mengingat nama servernya, klik nama server di bagian server name dan kemudian klik tombol **Resolve** untuk mendapatkan ip-nya dan kemudian klik **Add**.

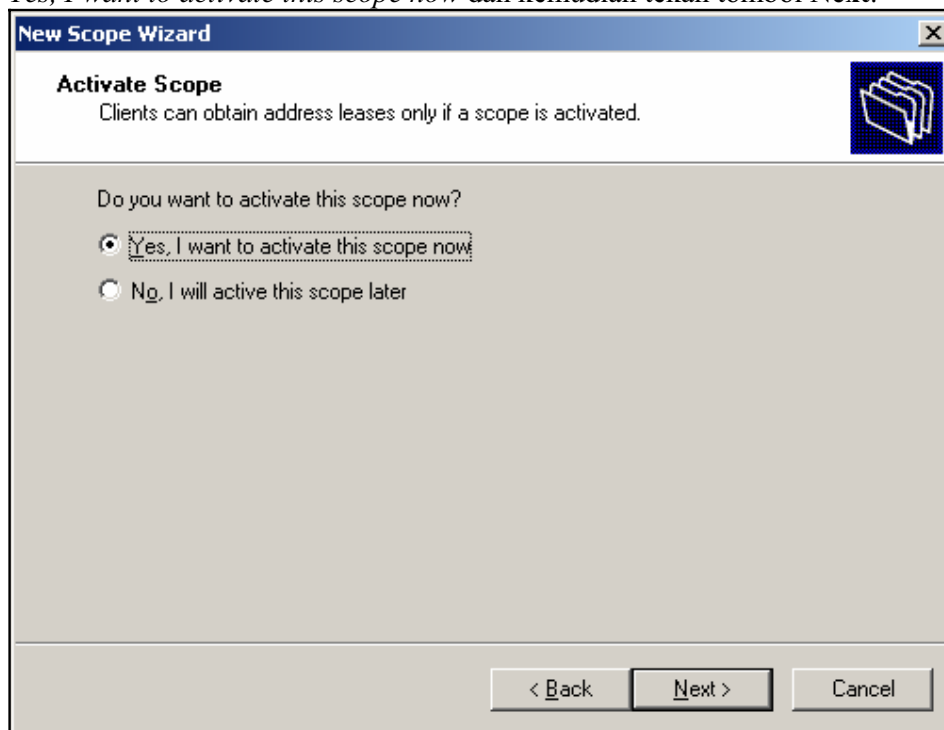
The screenshot shows the 'New Scope Wizard' window with the title bar 'New Scope Wizard'. The main heading is 'Domain Name and DNS Servers' with a subtext 'The Domain Name System (DNS) maps and translates domain names used by clients on your network.' Below this, it says 'You can specify the parent domain you want the client computers on your network to use for DNS name resolution.' There is a text input field labeled 'Parent domain:' containing 'alica.com'. Below this, it says 'To configure scope clients to use DNS servers on your network, enter the IP addresses for those servers.' There are two input fields: 'Server name:' containing 'server' and 'IP address:' containing '192.168.0.1'. To the right of the 'IP address:' field are four buttons: 'Add', 'Remove', 'Up', and 'Down'. Below the 'Server name:' field is a button labeled 'Resolve'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

- Pada layar WINS klik tombol **Next**.



The screenshot shows the 'New Scope Wizard' window with the 'WINS Servers' step selected. The window title is 'New Scope Wizard'. The main heading is 'WINS Servers' with a subtext: 'Computers running Windows can use WINS servers to convert NetBIOS computer names to IP addresses.' Below this, a paragraph explains: 'Entering server IP addresses here enables Windows clients to query WINS before they use broadcasts to register and resolve NetBIOS names.' There are two input fields: 'Server name:' and 'IP address:'. The 'IP address:' field contains three dots. To the right of these fields are buttons: 'Add', 'Remove', 'Up', and 'Down'. Below the input fields is a 'Resolve' button. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

- Kemudian akan muncul pertanyaan apakah scope akan diaktifkan sekarang. Pilih *Yes, I want to activate this scope now* dan kemudian tekan tombol **Next**.



The screenshot shows the 'New Scope Wizard' window with the 'Activate Scope' step selected. The window title is 'New Scope Wizard'. The main heading is 'Activate Scope' with a subtext: 'Clients can obtain address leases only if a scope is activated.' Below this, a question is asked: 'Do you want to activate this scope now?'. There are two radio button options: 'Yes, I want to activate this scope now' (which is selected) and 'No, I will activate this scope later'. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

- Setelah itu akan muncul layar penutup yang menandakan bahwa seting DHCP telah selesai. Tekan tombol **Finish** untuk menutupnya.
- Sebelum dapat memberikan/mendistribusikan IP, maka server DHCP harus di Authorize dulu yaitu dengan cara. Klik kanan di nama server dan kemudian pilih **Authorize**.