BAB 5 - DHCP (Dynamic Host Configuration Protocol)

IP address dan subnet mask dapat diberikan secara otomatis menggunakan Dynamic Host Configuration Protocol atau disi 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 \rightarrow Programs \rightarrow Administrator Tools \rightarrow DHCP.



SETING SCOPE DHCP BARU

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

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E- Server [192.16	Display Statistics	
Server Opt	New Scope	
	New Multicast Scope	
	Reconcile All Scopes Unauthorize	
	Define User Classes Define Vendor Classes Set Predefined Options	
	All Tasks	•
	View	•
	Delete	
	Refresh	
	Properties	
	Help	

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

Scope Name You have to p providing a de	rovide an identifying scope name. You also have the option of scription.
Type a name a	and description for this scope. This information helps you quickly identify
how the scope	is to be used on your network.
N <u>a</u> me:	DHCP Serverku
Description:	DHCP ALICA.COM
	<back next=""> Cancel</back>

- 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**.

ew Scope Wizard	×
IP Address Range You define the scope address range by ider addresses.	tifying a set of consecutive IP
Enter the range of addresses that the scope	distributes.
Start IP address: 192 . 168 . 0 . 2	
End IP address: 192 . 168 . 0 . 25	4
A subnet mask defines how many bits of an IDs and how many bits to use for the host ID length or as an IP address.	P address to use for the network/subnet . You can specify the subnet mask by
Length: 24	
Sybnet mask: 255 . 255 . 255 . 0	
	< <u>B</u> ack <u>N</u> ext > Cancel

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

New Scope Wizard	×
Add Exclusions Exclusions are addresses or a range of addresses that are not distributed by the server.	S S
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.	
Start IP address: End IP address: 192.168.0.250 Add	
Excluded address range:	
Address 192.168.0.100	
< <u>B</u> ack <u>N</u> ext > Ca	incel

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**.

New Scope Wizard	×		
Lease Duration The lease duration specifies how long a client can use an IP address from this scope.	S)		
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: Hours: Minutes: E — 0 — 0 <u>→</u>			
< <u>B</u> ack <u>N</u> ext > Cano	cel		

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

Ne	w Scope Wizard 🔀
	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?
	O No, I will configure these options later
	< <u>B</u> ack <u>N</u> ext > Cancel
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- 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.

lew Scope Wizard		×
Router (Default Gateway) You can specify the router:	s, or default gateways, to be distributed by this scope.	(J)
To add an IP address for a	router used by clients, enter the address below.	
I <u>P</u> address:		
192.168.0.1	Add	
	<u>H</u> emove	
	Цр	
	Down	
	< <u>B</u> ack <u>N</u> ext >	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**.

New Scope Wizard		×	
Domain Name and DNS Servers The Domain Name System (DNS) maps a clients on your network.	nd translates domain names used	by 🖏	
You can specify the parent domain you want the client computers on your network to use for DNS name resolution. Parent domain: alica.com To configure scope clients to use DNS servers on your network, enter the IP addresses for thos servers.			
Server name:	IP address:		
server	192.168.0.1	Add <u>R</u> emove Up Dgwn	
	< Back Next >	Cancel	

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

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

New Scope Wizard			×
Activate Scope Clients can obtain address leases only if a scop	pe is activated	ł.	(C)
Do you want to activate this scope now?			
Yes, I want to activate this scope now			
O No, I will active this scope later			
	< <u>B</u> ack	<u>N</u> ext >	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**.