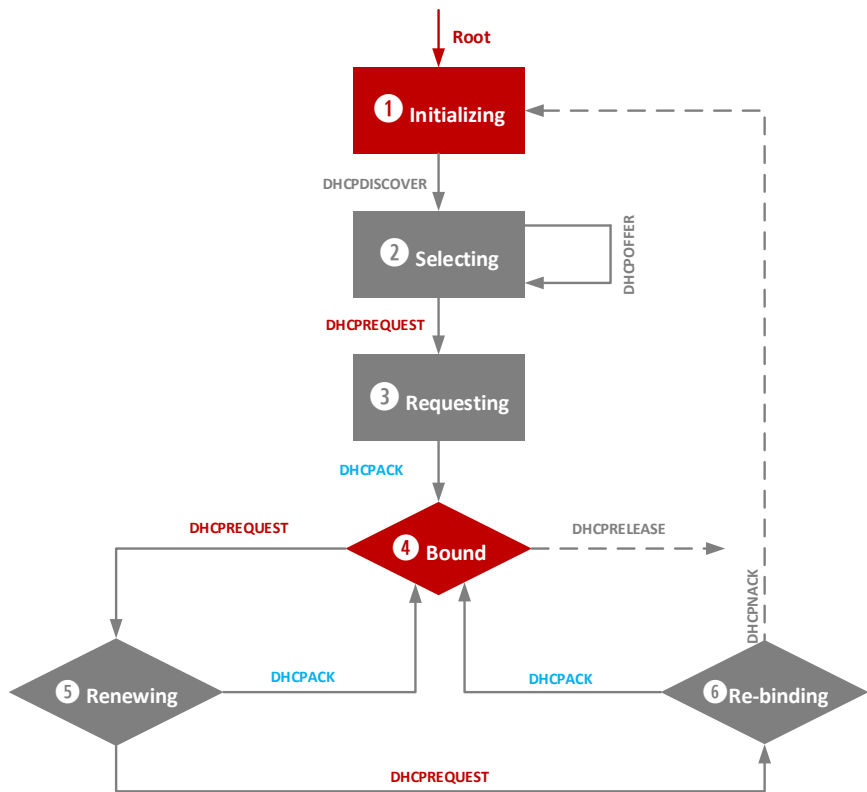


DHCP State Transitions



IP Address Assignment Methods

Manual	DHCP Server assigns IP Addresses based on certain client parameter (e.g. MAC Address)
Automatic	DHCP Server permanently assigns IP address to clients from the pool defined by the admin. Same client gets same IP even after disconnect/connect
Dynamic	DHCP Server assigns IP address to clients from the pool defined by the admin till the lease time defined by admin. Same client gets different IP after disconnect/connect

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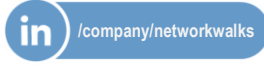
DHCP Frame Format

1	8	16	24	32
OpCode	HW Type	HW Add Length	Hops	
Transaction ID				
Seconds		Flags		
CIAddr (Client IP Address)				
YIAddr (Your IP Address)				
SIAddr (Server IP Address)				
GIAddr (GW IP Address)				
CHAddr (Client HW Address) - 16B				
SName (Server Name) - 64B				
Boot Filename- 128B				
Options – 214B max				

Variable Length

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L2 Header	IP Header	TCP/UDP Header	L7 Header	L7 Data
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