

## Installing and configuring DHCP server and assign IP

- 1) Make Connections.
- 2) Server -> Enable DHCP  
Set IP configuration  
IPV4 Address : 10.0.0.1  
Default Gateway : 10.0.0.2  
DNS IP : 10.0.0.1

The screenshot shows the 'Server0' window with the 'Desktop' tab selected. The 'IP Configuration' section is active, showing settings for both IPv4 and IPv6. The IPv4 configuration is set to 'Static' with the following values: IPv4 Address: 10.0.0.1, Subnet Mask: 255.0.0.0, Default Gateway: 10.0.0.2, and DNS Server: 10.0.0.1. The IPv6 configuration is also set to 'Static' with a Link Local Address of FE80::250:FFF:FE9E:7C5A. The 802.1X section is currently unchecked.

Configuration Type	Field	Value
IPv4 Configuration	Static	<input checked="" type="radio"/>
	IPv4 Address	10.0.0.1
	Subnet Mask	255.0.0.0
	Default Gateway	10.0.0.2
IPv6 Configuration	Static	<input checked="" type="radio"/>
	IPv6 Address	
	Link Local Address	FE80::250:FFF:FE9E:7C5A
	Default Gateway	
802.1X	Use 802.1X Security	<input type="checkbox"/>
	Authentication	MD5
	Username	
	Password	

- 3) Server -> Services -> DHCP :  
Default Gateway : 10.0.0.2  
DNS server : 10.0.0.1  
Starting IP: 10 - 0 - 0 - 3

Save

The screenshot shows the 'Server0' window with the 'Services' tab selected. The 'DHCP' service is configured for the 'FastEthernet0' interface. The service is turned 'On'. The configuration includes a pool named 'serverPool' with a default gateway of 10.0.0.2, a DNS server of 10.0.0.1, a start IP address of 10.0.0.3, and a subnet mask of 255.0.0.0. The maximum number of users is set to 512. The TFTP server and WLC address are both set to 0.0.0.0. A table at the bottom lists the configured DHCP pool.

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
serverPool	10.0.0.2	10.0.0.1	10.0.0.3	255.0.0.0	512	0.0.0.0	0.0.0.0

4) PC -> IP Configuration set DHCP

The screenshot shows a configuration window for PC0 with tabs for Physical, Config, Desktop, Programming, and Attributes. The Desktop tab is active, displaying the IP Configuration settings for the FastEthernet0 interface. The IP Configuration section has two radio buttons: DHCP (selected) and Static. Below these are input fields for IPv4 Address (10.0.0.3), Subnet Mask (255.0.0.0), Default Gateway (10.0.0.2), and DNS Server (10.0.0.1). The IPv6 Configuration section has two radio buttons: Automatic and Static (selected). Below these are input fields for IPv6 Address, Link Local Address (FE80::207:ECFF:FE4A:EB4C), Default Gateway, and DNS Server. The 802.1X section has a checkbox for Use 802.1X Security (unchecked), a dropdown for Authentication (MD5), and input fields for Username and Password.

Section	Option	Value
IP Configuration	<input checked="" type="radio"/> DHCP	
	<input type="radio"/> Static	
	IPv4 Address	10.0.0.3
	Subnet Mask	255.0.0.0
	Default Gateway	10.0.0.2
IPv6 Configuration	<input type="radio"/> Automatic	
	<input checked="" type="radio"/> Static	
	IPv6 Address	
	Link Local Address	FE80::207:ECFF:FE4A:EB4C
	Default Gateway	
802.1X	<input type="checkbox"/> Use 802.1X Security	
	Authentication	MD5
	Username	
	Password	

5) Automatically Assign IP addresses to client machines using dhcp server

6) Test by sending Messages