LABORATORIO 2

Realizaremos la conexión por puenteo inalámbrico del laboratorio 1 (donde estará el puente DWL-2100AP) y el laboratorio 4 (donde estará el computer 1).

Paso 1: Reconocer el material que utilizaremos en el laboratorio.

Paso 2: Configurar el punte AP Mode, LAN y Dynamic pool con el computer 2.

Paso 3: Configurar el computer 1 con el conector USB para red inalámbrica con DHCP.

Paso 4: Probar la conexión a Internet con el explorador





Connections

Home > Wireless > AP Mode

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Wireless Band-

IEEE 802.11g.

- Mode- Access Point is selected from the pull down menu..
- SSID-Service Set Identifier(SSID) is the name designated for a specific wireless local area network(WLAN). The SSID factpru default setting is default. The SSID can be easily changed to connect to an existing network or to establish a new wireless network.

SSID Enable or Disable SSID Broadcast. Enabling this feature broadcasts the SSID across the network.

Channel- 6 is the default channel. All devices on the network must share the same channel.

Auto Channel Select Enable or Disable.(Enable this feature to auto-select the chanscan-nel for best wireless performance.)

- Radio- Select On or Off.
- Super GSuper G is a group of performance enhancement features that
increase end user application throughput in an 802.11g network.
Super G is backward compatible to standard 802.11g devices.
For top performance, all wireless devices on the network should be
Super G capable. Select either Disabled, Super G without Turbo, or
Super G with Dynamic Turbo.

Home > Wireless> AP Mode(continued)

Disabled: Standard 802.11g support, no enhanced capabilities. **Super G without Turbo:** Capable of Packet Bursting, Fast Frames, Compression, and no Turbo mode.

Super G with Dynamic Turbo: Capable of Packet Bursting, Fast Frames, Compression, and Dynamic Turbo mode. This setting is backwards compatible with non-Turbo (legacy) devices. Dynamic Turbo mode is only enabled when all devices on the wireless network are configured with Super G with Dynamic Turbo enabled.

WMM- Select Enable or Disable, Disable is selected by default. WMM stands for Wi-Fi Multimedia, by enabling this feature it will improve the user experience for audio and video applications over a Wi-Fi network.

Authentication: Open System Shared Key Open System/Shared Key WPA-EAP WPA-PSK WPA2-EAP WPA2-PSK WPA-Auto-EAP WPA-Auto-PSK

Select **Open System** to communicate the key across the network.

Select **Shared Key** to limit communication to only those devices that share the same WEP settings.

Select **Open System/Shared Key** to allow either form of data encryption.

Select **WPA-EAP**, **WPA2-EAP**, **WPA-Auto-EAP** to secure your network with the inclusion of a RADIUS server.

Select **WPA-PSK**, **WPA2-PSK**, **WPA-Auto-PSK** to secure your network using a password and dynamic key changes. (No RADIUS server required).

Home > Wireless>AP Mode>WEP Encryption

Encryption: Select Disabled or Enabled. (Disabled is selected here).

Key Type*: Select HEX or ASCII.

Key Size: Select 64-, 128-, 152-bits.

Valid Key: Select the 1st through the 4th key to be the active key.

First through Input up to **four keys** for encryption. You will select one of these keys in the valid key field.

*Hexadecimal digits consist of the numbers 0-9 and the letters A-F

ASCII (American Standard Code for Information Interchange) is a code for representing English letters as numbers from 0-127

DHCP Server Control-Enable or Disable the DHCP function here.

Dynamic Pool Settings

IP Assigned From-

Input the first IP address available for assignment in your network.

The Range of Pool (1-255)-

Enter the number of IP addresses available for assignment.

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Home	Advanced	Tools	Status	Help
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DNS		0.0.0.0		
Domain Name				
Lease Time (50	- 31536000 sec)	8	1	
Status		OPT >		

SubMask-	Enter the subnet mask.
Gateway-	Enter the IP address of the router on the network.
Wins-	Windows Internet Naming Service is a system that determines the IP address of a network computer that has a dynamically assigned IP address.
DNS-	Enter the IP address of the DNS server. The DNS server translates domain names such as www.dlink.com into IP addresses.
Domain Name-	Enter the Domain Name of the DWL-2100AP.
Lease Time (60- 31536000 sec)-	The Lease Time is the period of time before the DHCP server will assign a new IP address.
Status-	Turn the Dynamic Pool Settings ON or OFF here.
Apply-	Click Apply if you have made any changes.

Advanced > DHCP Server > Dynamic Pool Settings

Home > LAN



LAN is short for Local Area Network. This is considered your internal network. These are the IP settings of the LAN interface for the DWL-2100AP. These settings may be referred to as private settings. You may change the LAN IP address if needed. The LAN IP address is private to your internal network and cannot be seen on the Internet.

Get IP From-	Select Static (Manual) or Dynamic (DHCP) as the method you will use to assign an IP address to the DWL-2100AP.
IP Address-	The IP address of the LAN interface. The default IP address is: ${\bf 192.168.0.50}$
Subnet Mask-	The subnet mask of the LAN interface. The default subnet mask is 255.255.255.0
Default Gateway-	This field is optional. Enter in the IP address of the gateway on your network.
Apply-	Click Apply to save the changes.