

Experiment 6: Implement Wi-Fi security (WPA2, IP based, MAC Based)

Aim:

To implement Wi-Fi security (WPA2, IP based, MAC Based)

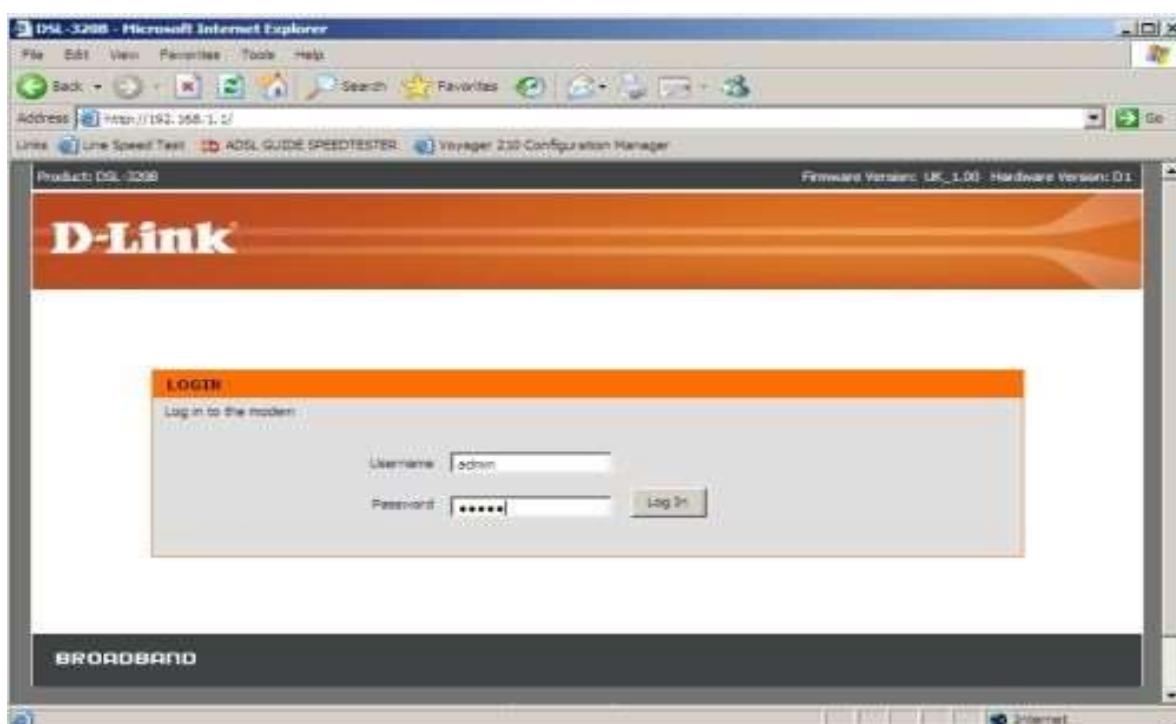
Procedure:

Step1: Switch On the D-Link Router.

Step2: Open a browser and search for dlinkrouter.local



Login



Setup security mode as WPA2

The screenshot shows the 'WIRELESS SECURITY' configuration page. The 'Security Mode' dropdown is set to 'WPA2 only'. The 'WPA Encryption' dropdown is set to 'TKIP+AES'. The 'WPA Mode' dropdown is set to 'WPA2-PSK'. The 'Group Key Update Interval' field is set to '0'.

Go to advanced tab

The screenshot shows the 'ADVANCED' tab selected. Under 'WIRELESS SETTINGS — WIRELESS BASICS', there is a 'Wireless Basic' button. Under 'ADVANCED WIRELESS — ADVANCED SETTINGS', there is an 'Advanced Settings' button. Under 'ADVANCED WIRELESS — MAC FILTERING', there is a 'MAC Filtering' button. Under 'WIRELESS — SECURITY SETTINGS', there is a 'Security Settings' button.

Go to wireless tab

WIRELESS

Use this section to configure the wireless settings for your D-Link Router. Please note that changes made on this section may also need to be duplicated on your Wireless Client.

WI-FI PROTECTED SETUP (ALSO CALLED WCN 2.0 IN WINDOWS VISTA) :

Enable :	<input type="checkbox"/>	<input type="button" value="Uncheck the enable WI-FI Protected Setup then Save"/>
Current PIN :	00000000	<input type="button" value="Generate New PIN"/> <input type="button" value="Reset PIN to Default"/>
Wi-Fi Protected Status :	Disabled / Configured <input type="button" value="Reset to Unconfigured"/>	

WIRELESS NETWORK SETTINGS

Enable Wireless : Always

Go to wireless Repeater

Product Page: DIR-600M

D-Link

DIR-600M //

Wireless Basics

WPS

Advanced Wireless

Wireless Repeater

Setup Wireless Advanced Maintenance

Wireless Basics

This page is used to configure the parameters for wireless LAN clients which may connect to your router. You may change wireless encryption settings as well as wireless network parameters.

Wireless Network

Enable SSID Broadcast:

Enable Wireless Isolation:

Name(SSID): D-Link_DIR-600M

Mode: 802.11b/g/n

Channel: 11 Current Channel: 1

Goto status tab

The screenshot shows the D-Link DIR-601 router's web-based management interface. At the top, it displays "Product Page: DIR-601" and "Hardware Version: A1 Firmware Version : 1.00NA". The main menu bar includes "SETUP", "ADVANCED", "TOOLS", "STATUS" (which is highlighted with a yellow arrow), and "SUPPORT". On the left, a sidebar lists "DEVICE INFO", "LOGS", "STATISTICS", "INTERNET SESSIONS", "ROUTING TABLE", "WIRELESS", and "IPv6". The central content area has a header "DEVICE INFORMATION" with a sub-section "GENERAL" showing the time as "Friday, May 01, 2009 12:53:13 AM" and the firmware version as "1.00NA , Mon, 05 Oct 2009". Below this is a "WAN" section containing various connection details. A yellow arrow points to the "Network Status" field, which is listed as "Connected". Another yellow arrow points to the "DHCP Renew" button in the same row.

DEVICE INFORMATION	
All of your Internet and network connection details are displayed on this page. The firmware version is also displayed here.	
GENERAL	
Time :	Friday, May 01, 2009 12:53:13 AM
Firmware Version :	1.00NA , Mon, 05 Oct 2009
WAN	
Connection Type :	DHCP Client
Cable Status :	Connected
Network Status :	Connected
Connection Up Time :	4 Days, 22:41:18
	<input type="button" value="DHCP Release"/> <input type="button" value="DHCP Renew"/>
MAC Address :	00:24:01:7a:58:d6
IP Address :	172.16.100.189
Subnet Mask :	255.255.255.0
Default Gateway :	172.16.100.1
Primary DNS Server :	4.2.2.2
Secondary DNS Server :	4.2.2.3
Advanced DNS :	Disabled

Result:

Thus the implementation of Wi-Fi security was completed successfully.