Experiment-6

Implement Wi-Fi Security (WPA2, IP based, MAC Based)

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Date: 30-9-24

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Implement Wi-FI Security (WPA2, IP based, MAC Based).

PROCEDURE

Step-1: Switch On the D-Link Router and connect PC using a cable

Step-2: Run IP address of router in any browser

Step-3: Choose the Internet Connection Type

Step-4: Set wireless network name

Step-5: Setup wireless security mode

Step-6: Click Wireless Settings WPA2 Personal set the password Save

Step-7: Go to Network and Internet and connect to the wi-fi-DLink.

Step-8: open browser and check internet is accessible or not.

SOURCECODE

· Connect computers LAN to wifi Routerhost

· Connect - Ethurnet cable (white wire) to Router

wisk new will find source into address

first port and CPU Ethunet Port.

- · Now connect the plug of the wifi Rouler Plug and term on the switch.
- · Go to Control Panel > Network & Internet > Networks sharing Center > Change Adapter settings > Ethunet > Properties > Select TCP/ IPV4 OK and close
- · Go to google and enter the router 12 address.
- · Login directly.
- · 90 to wireless, you will get the details. You can edit the wifiname in Name (551D) and in security options choose word 2-PSK (AED) you candit the pass word in Preshared Key. click on apply.
- · Get a device and connect to wifi using password
- · Go to status. After connecting check the Active client table under the Active client table you will find source MAC address

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- · Now connect the plug of the wifi Rowler, plug and town on the switch.
- · Go to Control Panel > Network & Internet >
 Network & sharing Center > Change Adapter
 settings > Ethunet > Properties > Select TCP/
 IPV4 OK and close
- · Go to google and enter the router 10 address.
- · Login directly.
- . go to wireless, you will get the details.

You can edit the wifi name in Name (SSID) and in security options choose WPA 2-PSK (AFD) you candid the password in Preshared Key. click on apply.

· Get a device and connect to wife using password

· Go to status. After connecting check the Active client table under the Active client table you will find source MAC address

destination MAC address, copy both the addresses and remove colons.

- . Now in the phone search inchrome and see the connectivity.
- · Now go to Advanced and Mac filter change to deny and outgoing. Inter the source and incoming destination MAC addresses and Add

If there are any existing under current MAC filter Pable remove them. Now it will get blocked. · You can test it by searching something in the

· You can now allow by clicking on allow and add for outgoing and incoming.

P.P. Based 1901-Fl. Security of America Succes based on 18 address

A souter is a device that forwards data? between computer metworks.

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SOURCECODE

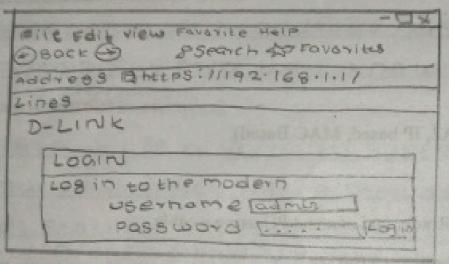
Steps open control panel, click on Network and Internet i next click on Net work and Sharing centre.

step 2° In network and sharing centre, select change adapter settings click

Steps: click on Ethernet, Click properties,
Steps: click on Ethernet, Click properties,
Select Internet protocol version 4 (TCP/10/4)
Click ok

Step 4: Select the IP address of wipi rout

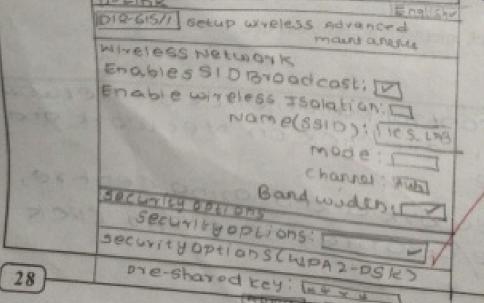
Step 5 % The Username will be hamin there is default password. Now click on 108in button.



Step 6: The information about the router device.

on the menu.

Step 8: modify the name of the device, change the password click, apply button.



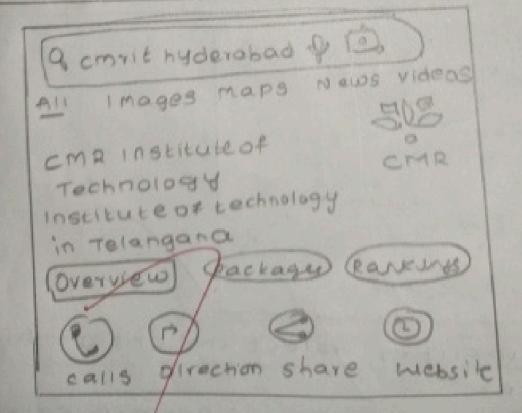
giff 8. Default policy will be default allow, filter 10. Default policy will be default allow, filter 10. Default policy will be default allow, fitter 10. Default policy.

And outgoing policy.

and outgoing policy.

and outgoing the source and Destination mac step 11.8 copy the source and bestination mac step 11.8 copy the Status tab by removing the address from the Status tab by removing the old 12. Click on advance tab select mac filter step 12. Click on a

D-LINIK Advanced) MAC FILE EVING Default Policy Outgoing Default policy . Obeny MACFINEY Incoming Default Folicy: Openy ONITOW Applychanges Add FILET Action Openy onlow SOUTCATARCE Destination mac convent mac Filteriable SELE CE DIVECTION SOUNCEMAC Destinated Treaming chile.03:162.36 MAC 01000 dony Incoming 60:18:03:681:26



Step 13: CIICK OF Add button.

Step 14: Information is available in cu. -nt mac Filter Table .

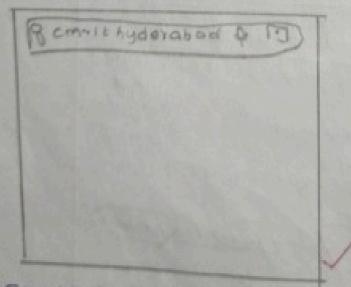
Step SLEP

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SLED

Step 15: After applied the MAC baseq filter , check the mobile device connected through wifi-Route

D-LINK	Select Language (Engish)
Miles No	Machinesing
	Default policy
MACFITTER	
16.6	(Apply changes)
	Add Filter Divection Dutgoing V
	Descination MAC.
	[Add]
187.35	current mac Filter table
	Select Direction SourceMAC Destination Action During and Direction on 18:03 bething on 18:00
	D subgoing co: 18:03:66:46:26 76:25.80 de anous D Theoming Co: 18:03:66:46:25 76:25:80 deny



Step 17: For ipfilter Belect the option ipiport Step 18° by default it will be permit, select

Step 191 In direction select with direction down Stream; step sel paste source in address and destination in address, in Status tab.

D-LINIK	Select Language Teresian
	telparteri tering
IN NOVEMBER	Default Action Status Outgeing o efablishesion Opermit Openy Theoming befault hesion; opermit Openy
	Rule configuration Protecol: Tital Rule nerven opermit openy

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sep 23: IP based wi-Fi secure provide to the

D-Link	Select Fullich A
The Balance	ActivectientTable
ActivectionsTable	Active wired client Table
השתומנום	maria 192.168.0.2 macad august 192.168.0.2 Co:18:03:
	pe:19:39
STATE THE	Active wiveless chent table
and the contract of	Mome ipaddress
	Mr cadarers
100000g/	76:25:80: 04:20:01
,	Represe