

# Configuración del router inalámbrico

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Configurar lo siguiente en el router inalámbrico prestado en clase:

Para comenzar dejar configurada una máquina virtual (Windows o Linux) en vuestro ordenador como adaptador puente (bridge). Conectar el router a la red del centro (conector internet) y ordenador a un puerto ethernet del router.

1) Cambiar SSID y password de la red creada del router.

⚠ No seguro | 192.168.0.1/cgi-bin/webproc?getpage=html/index.html&var:menu=h... ㊄

**Wireless Radio** : Enabled  
**MAC Address** : C4:E9:0A:69:2D:94  
**802.11 Mode** : Mixed 802.11n, 802.11g and 802.11b  
**Channel Width** : 20/40MHz  
**Channel** : 2

**Network Name (SSID)** : andreidg  
**Wi-Fi Protected Setup** : Enabled/Configured  
**Security** : WPA/WPA2-PSK

**Guest Zone Wireless Radio** : Disabled  
**Guest Zone Network Name (SSID)** : dlink-2D93-guest  
**Guest Zone Security** : NONE  
**2.4G Repeater Status** :

## WIRELESS LAN2

**Wireless Radio** : Enabled  
**MAC Address** : C4:E9:0A:69:2D:95  
**802.11 Mode** : Mixed 802.11ac, 802.11n and 802.11a  
**Channel Width** : 20/40/80MHz  
**Channel** : 48

**Network Name (SSID)** : andreidg  
**Wi-Fi Protected Setup** : Enabled/Configured  
**Security** : WPA/WPA2-PSK

**Guest Zone Wireless Radio** : Disabled  
**Guest Zone Network Name (SSID)** : dlink-2D93-5GHz-guest  
**Guest Zone Security** : NONE  
**5G Repeater Status** :

2) Comprobar la IP asignada a la máquina virtual. Comprobar que funciona internet. Hacer un traceroute a [www.google.es](http://www.google.es) y comprobar por qué direcciones pasa (ip del router, puerta de enlace del instituto,...) Conectar el móvil a la red inalámbrica.

```
Administrador: C:\Windows\system32\cmd.exe

Adaptador de Ethernet Ethernet 2:

    Sufijo DNS específico para la conexión. . . :
    Vínculo: dirección IPv6 local. . . . . : fe80::f589:4af0:6267:92b%11
    Dirección IPv4. . . . . : 192.168.0.50
    Máscara de subred. . . . . : 255.255.255.0
    Puerta de enlace predeterminada. . . . . : 192.168.0.1

C:\Users\Administrador>tracert www.google.es

Trazo a la dirección www.google.es [216.239.38.120]
sobre un máximo de 30 saltos:

 1  <1 ms    1 ms    <1 ms    dlinkrouter [192.168.0.1]
 2  1 ms     3 ms     2 ms     10.224.20.1
 3  5 ms     4 ms     4 ms     100.65.159.121
 4  6 ms     5 ms     5 ms     100.65.43.134
 5  7 ms     6 ms     6 ms     172.23.144.4
 6  6 ms     6 ms    10 ms     172.23.144.113
 7  6 ms     8 ms     7 ms     cejcm.xe4-0-7-96.telmad.rt4.mad.red.rediris.es [130.206.214.217]
 8  7 ms     9 ms     7 ms     telmad.rt3.ethtrunk3.telmad.rt1.mad.red.rediris.es [130.206.245.49]
 9  *        *        *        Tiempo de espera agotado para esta solicitud.
10  *        *        *        74.125.242.161
11  8 ms    16 ms     7 ms     142.250.46.165
12  7 ms     7 ms     8 ms     www.google.es [216.239.38.120]

Trazo completa.

C:\Users\Administrador>
```

3) Cambiar en el router el rango de direcciones DHCP a 50-99. Deshabilitar y habilitar el adaptador de red de la máquina virtual y comprobar qué IP le asigna ahora.

Use this section to configure the built-in DHCP server to assign IP address to the computers on your network.

Enable DHCP Server : ☒

DHCP IP Address Range : 50 to 99 (addresses within the LAN subnet)

DHCP Lease Time : 10080 (minutes)

Always broadcast : ☐ (compatibility for some DHCP Clients)

**ADD DHCP RESERVATION**

Enable : ☐

Computer Name :  << Computer Name ▼

IP Address :

MAC Address :

Clone Your PC's MAC Address

Add / Update Clear

**DHCP RESERVATIONS LIST**

```

Sufijo DNS específico para la conexión. . . :
Vínculo: dirección IPv6 local. . . : fe80::f589:4af0:6267:92b%11
Dirección IPv4. . . . . : 192.168.0.100
Máscara de subred . . . . . : 255.255.255.0
Puerta de enlace predeterminada . . . . . : 192.168.0.1

C:\Users\Administrador>ipconfig /renew

Configuración IP de Windows

Error al renovar la interfaz Ethernet 2 : El nombre especificado en el bloque de control de red
adaptador remoto.
El NCB son los datos.

C:\Users\Administrador>ipconfig /renew

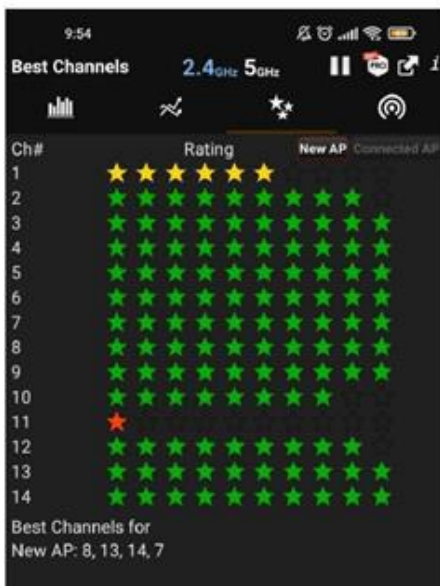
Configuración IP de Windows

Adaptador de Ethernet Ethernet 2:

Sufijo DNS específico para la conexión. . . :
Vínculo: dirección IPv6 local. . . : fe80::f589:4af0:6267:92b%11
Dirección IPv4. . . . . : 192.168.0.50
Máscara de subred . . . . . : 255.255.255.0
Puerta de enlace predeterminada . . . . . : 192.168.0.1

```

4) Instalar Wifi Analyzer desde la play store en vuestro móvil. Comprobar los canales en uso y en qué canal está vuestra red. Cambiar el canal manualmente en el router el canal de vuestra red.





5) Configurar el DMZ en el router y una IP estática para un servidor en la red desmilitarizada (DMZ).

D-LINK SYSTEMS, INC. | WIRELESS x +

No seguro | 192.168.0.1/cgi-bin/webproc?getpage=html/index.html&var:menu=a...

DIR-809 // SETUP ADVANCED TOOLS STATUS

VIRTUAL SERVER  
PORT FORWARDING  
APPLICATION RULES  
QOS ENGINE  
NETWORK FILTER  
INBOUND FILTER  
ACCESS CONTROL  
WEBSITE FILTER  
FIREWALL SETTINGS  
ROUTING  
ADVANCED WIRELESS  
WI-FI PROTECTED SETUP  
ADVANCED NETWORK  
GUEST ZONE  
IPv6 FIREWALL  
IPv6 ROUTING

### FIREWALL & DMZ SETTINGS

DMZ means "Demilitarized Zone". DMZ allows computers behind the router firewall to be accessible to Internet traffic. Typically, your DMZ would contain Web servers, FTP servers and others.

Save Settings Don't Save Settings

### FIREWALL SETTINGS

Enable SPI : ☒

### ANTI-SPOOF CHECKING

Enable anti-spoof checking : ☐

### DMZ HOST

The DMZ (Demilitarized Zone) option lets you set a single computer on your network outside of the router. If you have a computer that cannot run Internet applications successfully from behind the router, then you can place the computer into the DMZ for unrestricted Internet access.

**Note:** Putting a computer in the DMZ may expose that computer to a variety of security risks. Use of this option is only recommended as a last resort.

Enable DMZ : ☒

DMZ IP Address : 192.168.200.1 <<

Computer Name

6) Configurar Filtros (de Mac Address por ejemplo) y red de invitados.

D-LINK SYSTEMS, INC. | WIRELESS x +

No seguro | 192.168.0.1/cgi-bin/webproc?getpage=html/index.html&var:

D-Link

DIR-809 // SETUP ADVANCED TOOLS

VIRTUAL SERVER  
PORT FORWARDING  
APPLICATION RULES  
QOS ENGINE  
NETWORK FILTER  
INBOUND FILTER  
ACCESS CONTROL  
WEBSITE FILTER  
FIREWALL SETTINGS

### MAC ADDRESS FILTER

The MAC (Media Access Controller) Address filter option is used to control network the MAC Address of the network adapter. A MAC address is a unique ID assigned manufacturer of the network adapter. This feature can be configured to ALLOW or network/Internet access.

Save Settings Don't Save Settings

### 24 -- MAC FILTERING RULES

Configure MAC Filtering below:

Turn MAC Filtering ON and ALLOW computers listed to access the network

Remaining number of rules that can be created: 24

Product Page : DIR-809

Hardware Vers

**D-Link**

DIR-809

SETUP

ADVANCED

TOOLS

STATU

VIRTUAL SERVER

PORT FORWARDING

APPLICATION RULES

QOS ENGINE

NETWORK FILTER

INBOUND FILTER

ACCESS CONTROL

WEBSITE FILTER

FIREWALL SETTINGS

ROUTING

ADVANCED WIRELESS

WI-FI PROTECTED  
SETUP

ADVANCED NETWORK

GUEST ZONE

IPv6 FIREWALL

IPv6 ROUTING

**GUEST ZONE**

Use this section to configure the guest zone settings of your router. The guest zone provide a separate network zone for guest to access Internet.

[Save Settings](#)[Don't Save Settings](#)**GUEST ZONE****Enable Routing Between Zones :** ☒**SESSION 2.4GHZ****Enable Guest Zone :** ☒ [Always](#) [New Schedule](#)**Wireless Band :** 2.4GHz Band**Wireless Network Name :**  (Also called the SSID)**Security Mode :** **SESSION 5GHZ****Enable Guest Zone :** ☒ [Always](#) [New Schedule](#)**Wireless Band :** 5GHz Band**Wireless Network Name :**  (Also called the SSID)**Security Mode :** [Save Settings](#)[Don't Save Settings](#)