



**DIR-878**

**FAQ \_ Ver.1.1**

<b>HW Version</b>	<b>Firmware Version</b>
<b>A1</b>	<b>1.00</b>

**Written By**

**Customer Service Department I of DHQ on July 24<sup>th</sup>, 2017**

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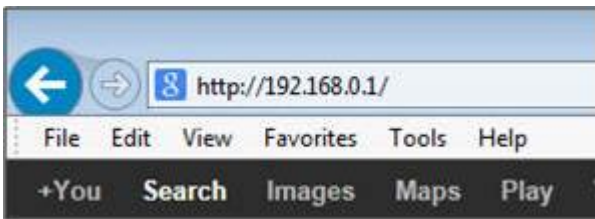
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# Device Setup/Installation

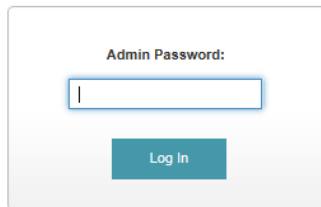
Q1: How do I login to my router?

Verify that your computer is connected to the router either via an [Ethernet](#) cable or wireless connection, then follow the steps below:

**Step 1:** Open your web browser and enter the IP address of the router into the address bar (not in google). The default IP is 192.168.0.1, or using the link: **<http://dlinkrouter.local>**.



**Step 2:** You should be taken to a D-Link login page. By default, the username is admin and no password is required.



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**Note:** Administering a Router over Wi-Fi:

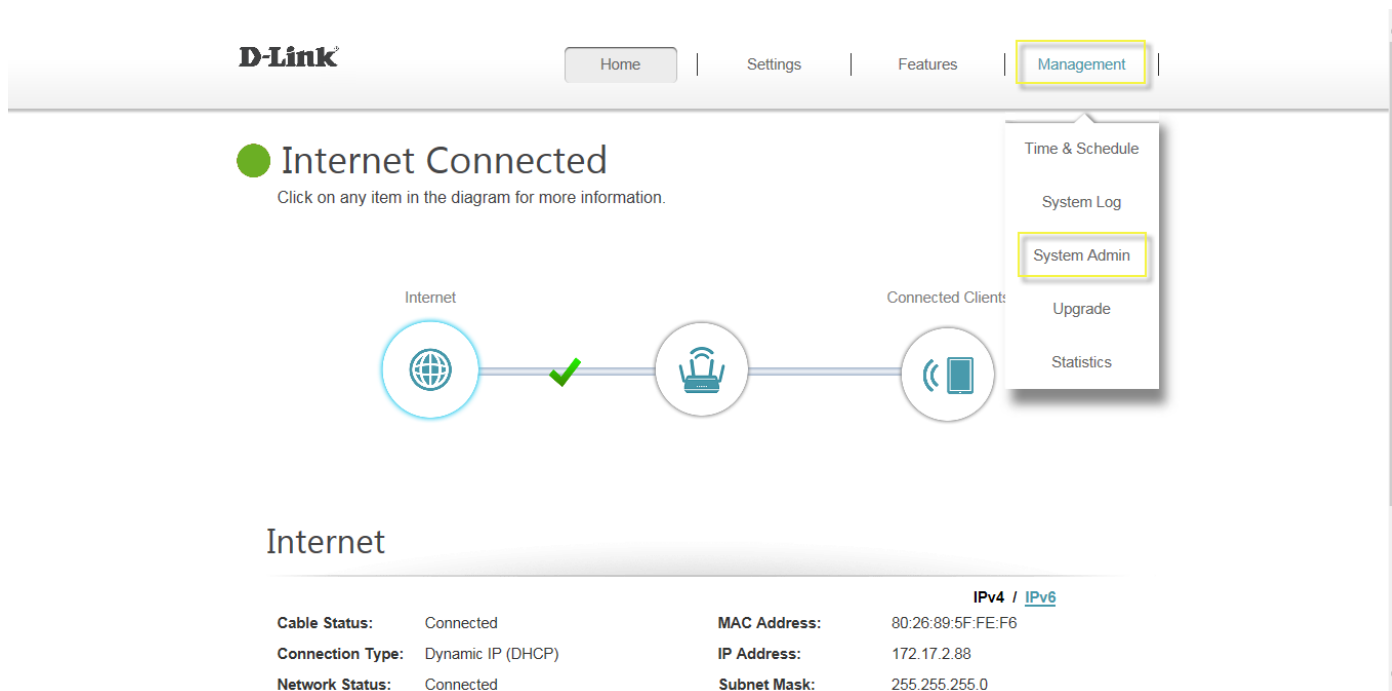
Setting up a router for the first time is best done over a wired connection so that your connection isn't dropped if the security or wireless settings are changed the process. However, it can be done over wireless too.

When connecting to a router via Wi-Fi, keep the computer close to the router - in the same room if necessary - to avoid [connection drops](#) due to interference or weak wireless signals.

## Q2: How do I change the login password?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

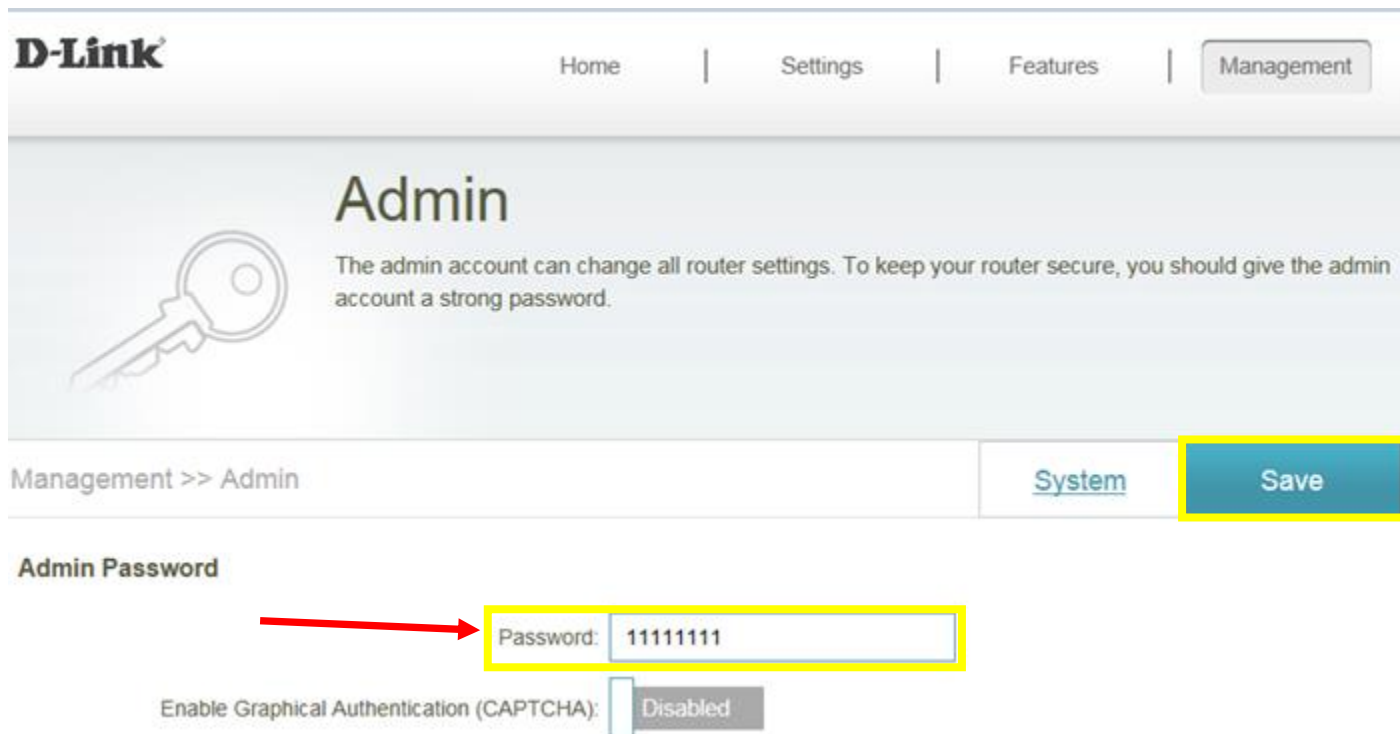
**Step 1:** Click **Management** -> **System Admin**



The screenshot shows the D-Link router's management interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Management' menu is open, showing options: 'Time & Schedule', 'System Log', 'System Admin', 'Upgrade', and 'Statistics'. Below the navigation bar, there is a status indicator 'Internet Connected' with a green dot and a checkmark. A diagram shows the connection path: Internet (globe icon) -> Router (router icon) -> Connected Client (laptop icon). Below the diagram, there is a table of network information:

Internet	
Cable Status:	Connected
Connection Type:	Dynamic IP (DHCP)
Network Status:	Connected
MAC Address:	80:26:89:5F:FE:F6
IP Address:	172.17.2.88
Subnet Mask:	255.255.255.0

**Step 2:** Fill in the password you'd like to set and click **Save**:

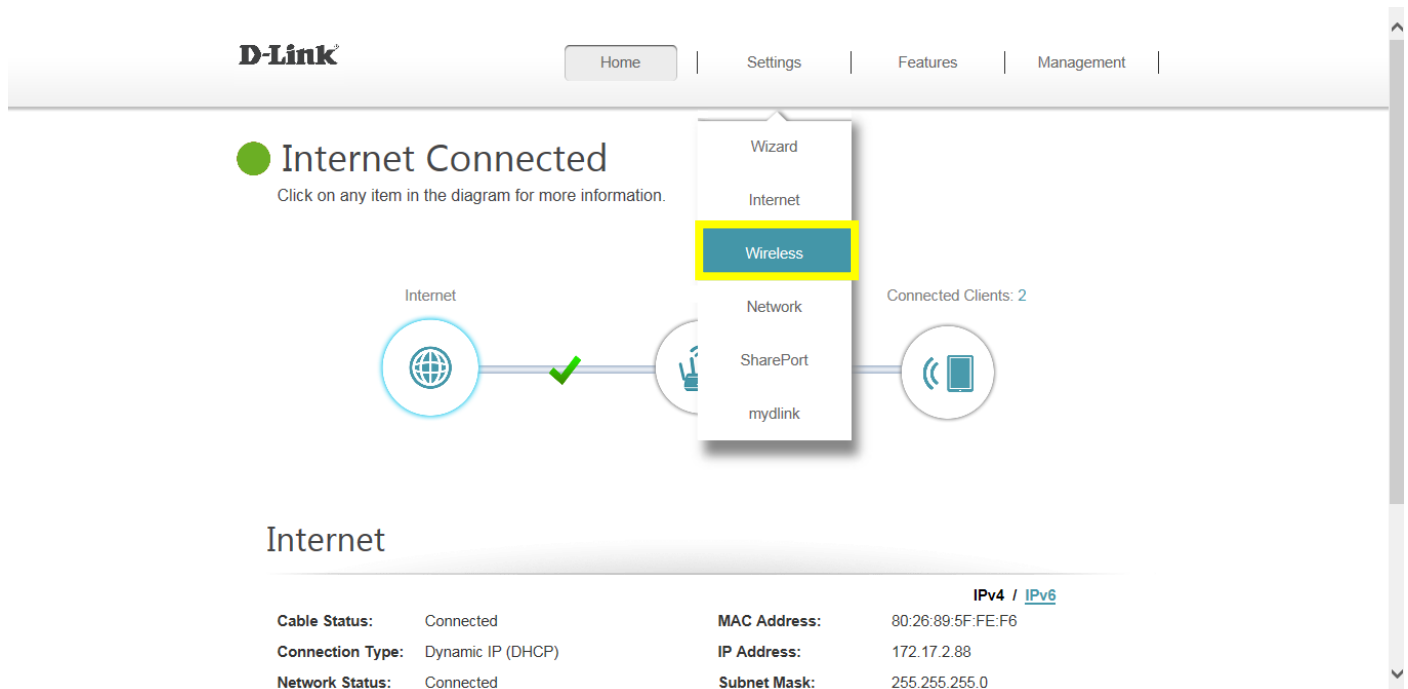


The screenshot shows the 'Admin' settings page in the D-Link router management interface. The page title is 'Admin' and it includes a key icon and the text: 'The admin account can change all router settings. To keep your router secure, you should give the admin account a strong password.' Below this, there is a breadcrumb trail 'Management >> Admin' and a 'System' button. A 'Save' button is highlighted with a yellow border. The 'Admin Password' section contains a 'Password:' field with the value '11111111' and a red arrow pointing to it. Below the password field, there is a checkbox for 'Enable Graphical Authentication (CAPTCHA)' which is currently 'Disabled'.

### Q3: How do I set up and secure my wireless connection?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click **Settings** -> **Wireless**



The screenshot shows the D-Link router's web management interface. At the top, there is a navigation bar with the D-Link logo and menu items: Home, Settings, Features, and Management. Below the navigation bar, a status section indicates 'Internet Connected' with a green dot and a message: 'Click on any item in the diagram for more information.' A network diagram shows 'Internet' connected to the router, which is then connected to 'Connected Clients: 2'. A dropdown menu is open over the diagram, with the 'Wireless' option highlighted in yellow. Below the diagram, the 'Internet' status is detailed with the following information:

Internet	
<b>Cable Status:</b>	Connected
<b>Connection Type:</b>	Dynamic IP (DHCP)
<b>Network Status:</b>	Connected
<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>IP Address:</b>	172.17.2.88
<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** In the wireless **Wi-Fi name (SSID)** field (for both the 2.4 and 5GHz sections), erase the default name (dlink-xxxxx) and enter a unique wireless network name (This is the name you will see when scanning for wireless networks on your computer/wireless device).

In the password field, remove the default password and enter a new one of your choice. (Must be a minimum of 8 characters), then click **Save**.

(1) Smart Connect enabled:

**D-Link** Home | Settings | Features | Management

## Wireless

Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.

Settings >> Wireless [Guest Zone](#) **Save**

### Smart Connect

Status: **Enabled**


### Wireless

Wi-Fi Name (SSID):

Password:  **X**

(2) Smart Connect disabled:

# Wireless



Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.

Settings >> Wireless [Guest Zone](#) **Save**

### Smart Connect

Status:  Disabled

### 2.4GHz

Status:  Enabled

Wi-Fi Name (SSID):

Password:

[Advanced Settings...](#)

### 5GHz

Status:  Enabled

Wi-Fi Name (SSID):

Password:

[Advanced Settings...](#)

**Note:** Please check Q3 as the link below about the detailed information about Smart Connect:  
[What is smart connect?](#)



# General Settings

Q4: How to clone my PC MAC address to the router?

Few cable internet providers requires you to clone PC Mac address in order to go online through the router.

**Note:** It is recommended to clone MAC address from last computer which was able to go online when connected to modem.

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click **Setting** -> **Internet**



**D-Link** Home Settings Features Management

**Internet Connected**  
Click on any item in the diagram for more information.

Internet

Wizard  
Internet  
Wireless  
Network  
SharePort  
mydlink

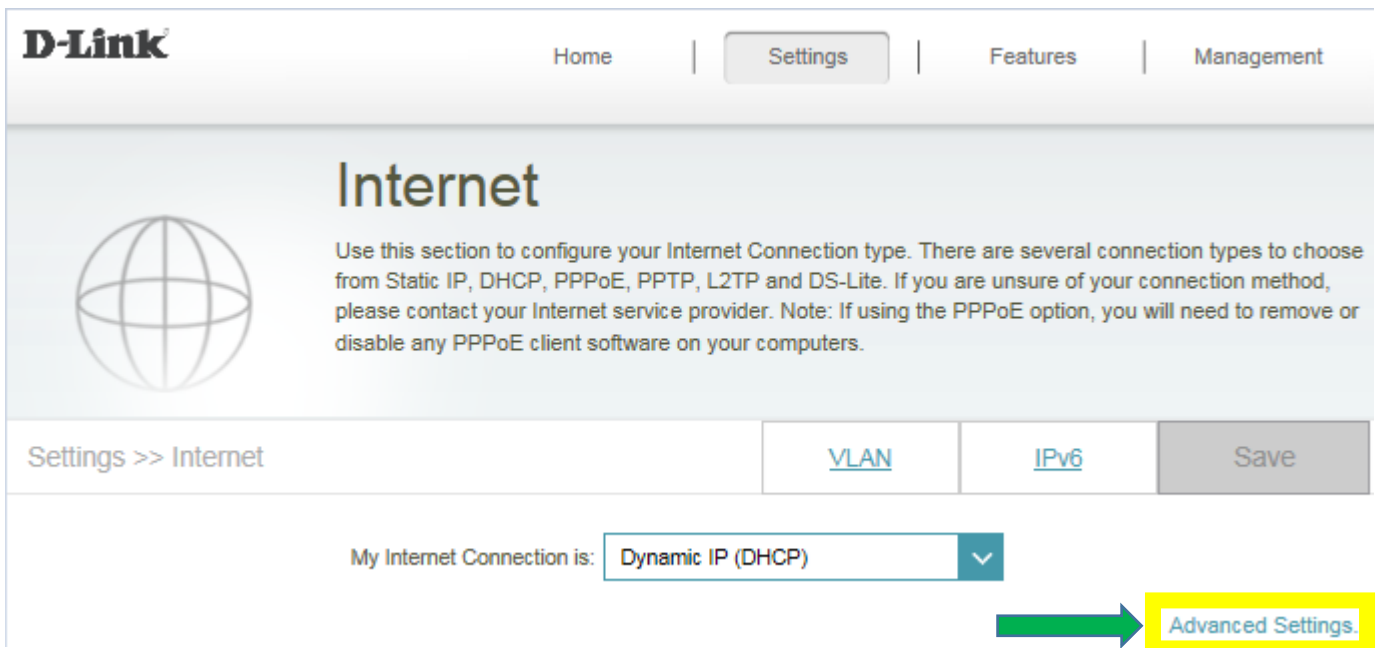
Connected Clients: 2

### Internet

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

IPv4 / IPv6

**Step 2: Click Advanced Setting**





**D-Link** Home | Settings | Features | Management

## Internet

Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.

Settings >> Internet [VLAN](#) [IPv6](#) [Save](#)

My Internet Connection is:  

 [Advanced Settings](#)

**Step 3:** Find **Mac address clone** field, then select one Mac address from the drop-down menu and click **Save**

**D-Link** Home | Settings | Features | Management

## Internet

Use this section to configure your Internet Connection type. There are several connection types to choose from Static IP, DHCP, PPPoE, PPTP, L2TP and DS-Lite. If you are unsure of your connection method, please contact your Internet service provider. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers.

Settings >> Internet >> IPv4 | [VLAN](#) | [IPv6](#) | **Save**

My Internet Connection is:

[Advanced Settings...](#)

Host Name:

Primary DNS Server:

Secondary DNS Server:

MTU:

MAC Address Clone:

- << MAC Address
- << MAC Address
- 00:21:CC:5E:0D:52

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## Q5: How do I configure DHCP reservation?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click **Connected Clients** from the Home Tab:

**D-Link** Home | Settings | Features | Management

### Internet Connected

Click on any item in the diagram for more information.

Internet — [Router] — **Connected Clients: 2**





#### Internet

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** Click the **Pencil Icon** next to your client you'd like to adjust:

## Connected Clients

You can block a device from accessing your network completely.

	<b>08384NBWIN7</b>		
	Flextronics 192.168.0.156		Intel 192.168.0.104
Parental Control: Disabled		Parental Control: Disabled	

**Step 3:** Click **Reserve IP** to Enable, and fill in the reserved IP address, then click **Save**.

## Edit Rule



Name:

Vendor: Flextronics

MAC Address: 00:21:cc:5e:0d:52

IP Address: 192.168.0.156

Reserve IP:  Enabled  Remaining:24

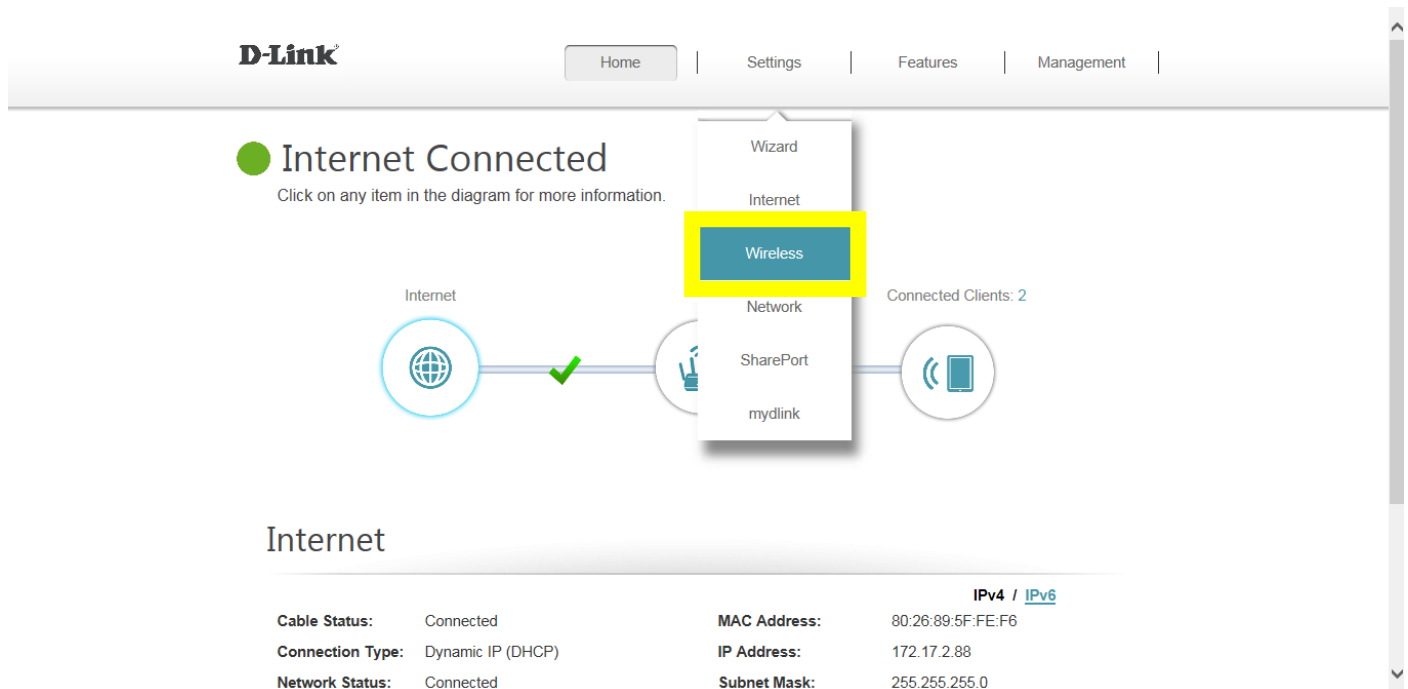
IP Address (Reserved):    
[It will take effect after reconnecting](#)

Parental Control:  Disabled

## Q6: How do I configure 802.11 mode on my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click **Settings** -> **Wireless**



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. Below this, a status bar indicates 'Internet Connected' with a green dot and a message: 'Click on any item in the diagram for more information.' A network diagram shows 'Internet' connected to the router, which is then connected to 'Connected Clients: 2'. A dropdown menu is open over the router icon, with 'Wireless' highlighted in a yellow box. Other options in the menu include 'Wizard', 'Internet', 'Network', 'SharePort', and 'mydlink'. Below the diagram, the 'Internet' section provides connection details:

Internet	
<b>Cable Status:</b>	Connected
<b>Connection Type:</b>	Dynamic IP (DHCP)
<b>Network Status:</b>	Connected
<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>IP Address:</b>	172.17.2.88
<b>Subnet Mask:</b>	255.255.255.0

IPv4 / [IPv6](#)

**Step 2:** Disable **Smart Connect**, and select the 802.11 mode for 2.4G/5G band:

**Smart Connect**

Status:  Disabled

**2.4GHz**

Status:  Enabled

Wi-Fi Name (SSID):

Password:

[Advanced Settings...](#)

Security Mode:  ▼

802.11 Mode:  ▼

Wi-Fi Channel:  ▼

Transmission Power:  ▼

Channel Width:  ▼

HT20/40 Coexistence:  Enabled

Visibility Status:  ▼

[Schedule](#):  ▼

## 5GHz

Status:  Enabled

Wi-Fi Name (SSID):

Password:

[Advanced Settings...](#)

Security Mode:

802.11 Mode:

Wi-Fi Channel:

Transmission Power:


Channel Width:

Visibility Status:

[Schedule:](#)



**Step 3:** Click **Save** to save your configuration.



# Wireless

Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.

Settings >> Wireless [Guest Zone](#) **Save**

### Smart Connect

Status:  Disabled

---

### 2.4GHz

Status:  Enabled

Wi-Fi Name (SSID):

Password:

[Advanced Settings...](#)

---

### 5GHz

Status:  Enabled

Wi-Fi Name (SSID):

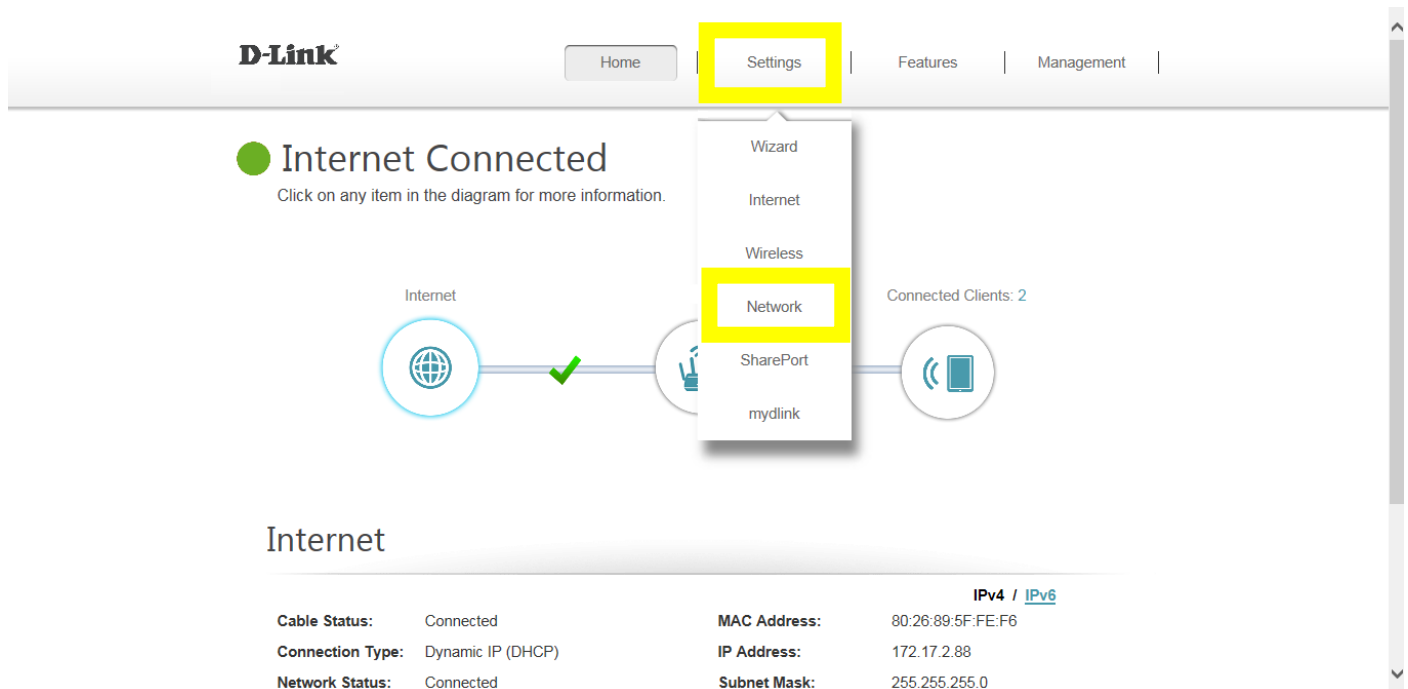
Password:

[Advanced Settings...](#)

## Q7: How do I change the router's IP address?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click **Settings** -> **Network**



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with the D-Link logo on the left and buttons for Home, Settings, Features, and Management on the right. The Settings button is highlighted with a yellow box. Below the navigation bar, there is a status section titled "Internet Connected" with a green dot and a green checkmark. Below this, there is a network diagram showing Internet, a central router icon, and Connected Clients: 2. A dropdown menu is open over the router icon, with the "Network" option highlighted in yellow. Below the diagram, there is a section titled "Internet" with a table of network status information.

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** Change the IP address as needed under **Network Setting**, and click **Save**



Home

Settings

Features

Management

## Network



Use this section to configure the network settings for your device. You can enter a name for your device in the management link field, and use the link to access web UI in a web browser. We recommend you change the management link if there are more than one D-Link devices within the network.

Settings >> Network

Save

### Network Settings

LAN IP Address:

Subnet Mask:

Management Link: http://  .local/

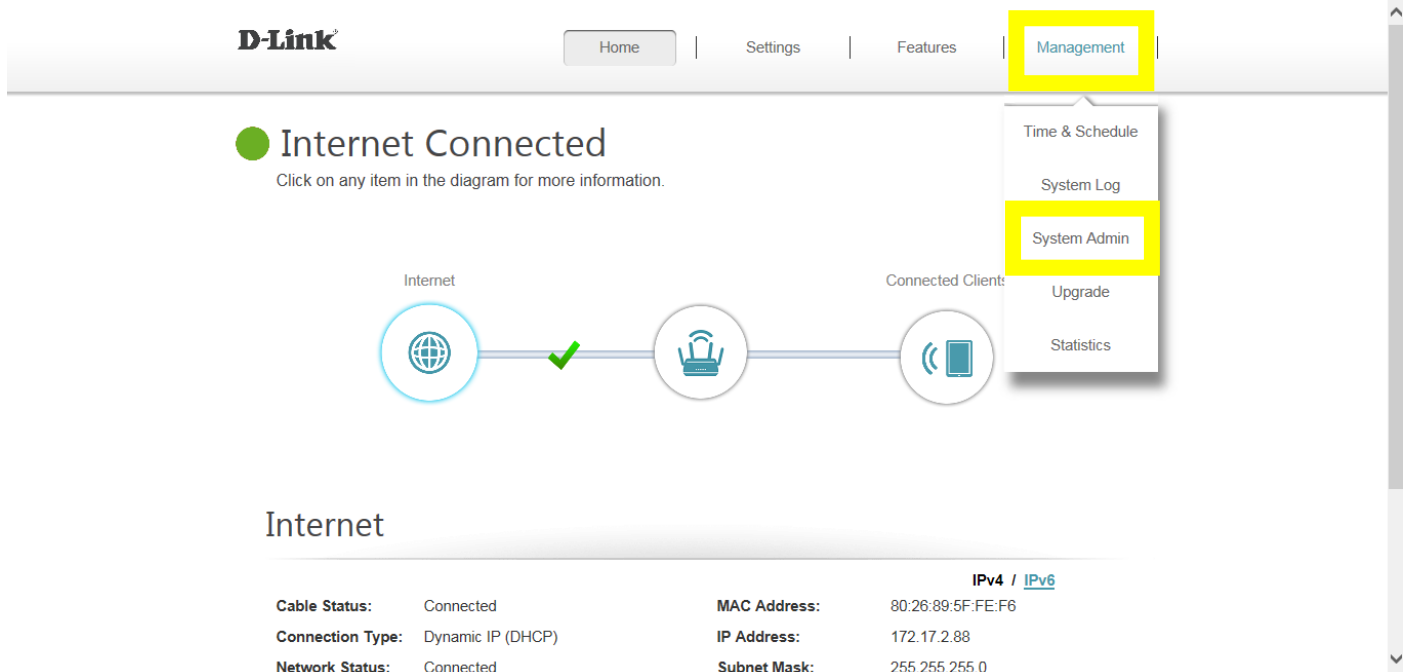
Local Domain Name:

Enable DNS Relay:  Enabled

## Q8: How do I enable remote management for my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

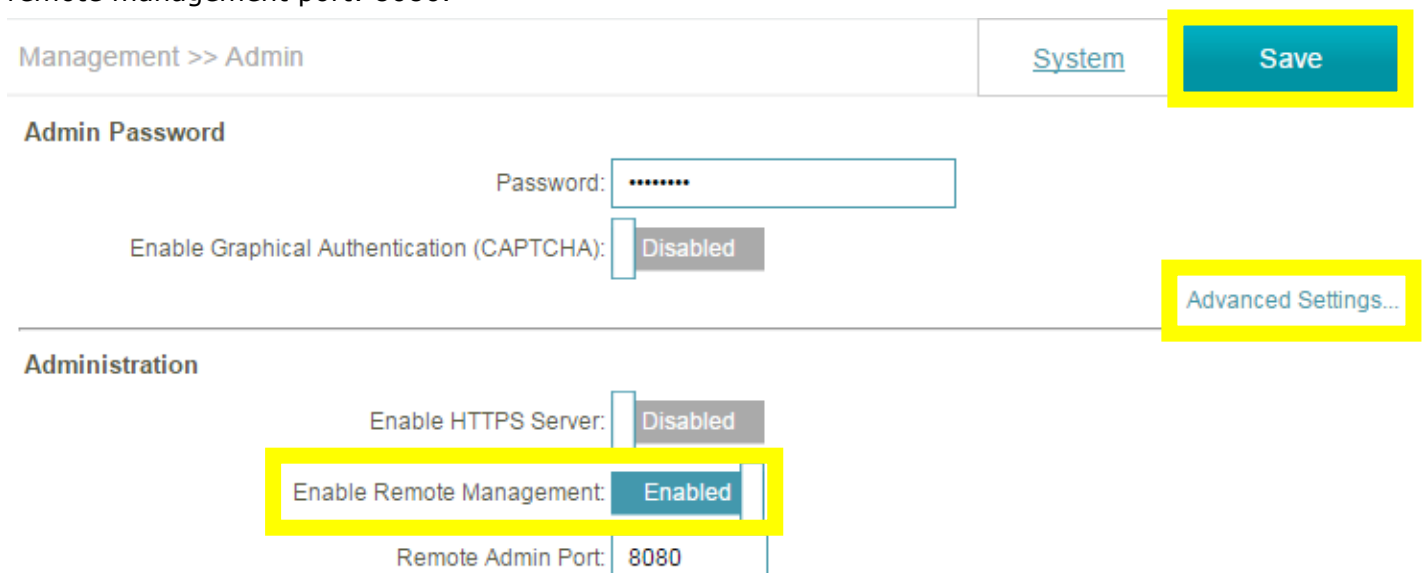
### Step 1: Click **Management** -> **System Admin**



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Management' menu is open, showing options: 'Time & Schedule', 'System Log', 'System Admin', 'Upgrade', and 'Statistics'. Below the navigation bar, there is a status section titled 'Internet Connected' with a green checkmark and a diagram showing the connection path from Internet to Connected Client. Below this, there is a table of network information:

Internet	
Cable Status:	Connected
Connection Type:	Dynamic IP (DHCP)
Network Status:	Connected
MAC Address:	80:26:89:5F:FE:F6
IP Address:	172.17.2.88
Subnet Mask:	255.255.255.0

### Step 2: Click **Advanced Settings**, and enable Remote Management, then click **Save**. The default remote management port: 8080.



The screenshot shows the 'Management >> Admin' page. There is a 'System' tab and a 'Save' button. Below this, there is a section for 'Admin Password' with a password field and a checkbox for 'Enable Graphical Authentication (CAPTCHA)'. Below that, there is a section for 'Administration' with a checkbox for 'Enable HTTPS Server' and a checkbox for 'Enable Remote Management'. The 'Enable Remote Management' checkbox is checked and highlighted with a yellow box. Below it, there is a field for 'Remote Admin Port' with the value '8080'. There is also a 'Save' button and an 'Advanced Settings...' link.

**Note:** To access your router remotely, from a web browser enter: <http://<your WAN IP>:8080>.  
e.g. <http://172.17.2.74:8080>

You can find your WAN IP by clicking on the Home tab. It will be displayed under the Internet Section

## Internet Connected

Click on any item in the diagram for more information.



## Internet

**Cable Status:** Connected  
**Connection Type:** Dynamic IP (DHCP)  
**Network Status:** Connected  
**Connection Uptime:** 10 Day 3 Hour 29 Min 15 Sec

Release IP Address

IPv4 / [IPv6](#)

**MAC Address:** 80:26:89:5F:FE:F6  
**IP Address:** 172.17.2.88  
**Subnet Mask:** 255.255.255.0  
**Default Gateway:** 172.17.2.254  
**Primary DNS Server:** 192.168.168.249  
**Secondary DNS Server:** 192.168.168.201  
192.168.168.250

[Go to settings](#) →

Q9: What model support bridge mode?

Currently, the models support bridge mode are: [DIR-895L](#), [DIR-885L](#), [DIR-880L](#), [DIR-868L](#), [DIR-865L](#), [DIR-605L](#).

# Firmware Upgrade/Checking

Q10: How to upgrade firmware for router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1: Click Management -> Upgrade**

The screenshot shows the D-Link router management interface. At the top, there is a navigation bar with the D-Link logo and menu items: Home, Settings, Features, and Management. The Management menu item is highlighted with a yellow box, and a green arrow points down to it. Below the navigation bar, there is a status section titled "Internet Connected" with a green dot and a subtext "Click on any item in the diagram for more information." Below this is a network diagram showing "Internet" (globe icon), a green checkmark, a laptop icon, and "Connected Clients" (phone icon). A dropdown menu is open from the Management menu, showing options: Time & Schedule, System Log, System Admin, Upgrade (highlighted with a yellow box), and Statistics. A green arrow points down to the Upgrade option. Below the diagram is the "Internet" status section with the following details:

		IPv4 / IPv6	
Cable Status:	Connected	MAC Address:	80:26:89:5F:FE:F6
Connection Type:	Dynamic IP (DHCP)	IP Address:	172.17.2.88
Network Status:	Connected	Subnet Mask:	255.255.255.0

**Step 2:** Click **Select File** to browse for the firmware

# Upgrade



Your router can automatically detect firmware updates, but requires your authorization to install them. It is also possible to check for new firmware manually, upgrade firmware from a local file.

Firmware may use code that is subject to the GPL licenses. For more information, visit <http://tsd.dlink.com.tw/GPL.asp>.

Management >> Upgrade

## Firmware Information

Current Firmware Version: 1.00

Current Firmware Date: 2017-05-25 11:44:33

Check for New Firmware

## Upgrade Manually

Upgrade Firmware:

Select File





**Step 3: Click Upload**

# Upgrade



Your router can automatically detect firmware updates, but requires your authorization to install them. It is also possible to check for new firmware manually, upgrade firmware from a local file.

Firmware may use code that is subject to the GPL licenses. For more information, visit <http://tsd.dlink.com.tw/GPL.asp>.

Management >> Upgrade

## Firmware Information

Current Firmware Version: 1.00

Current Firmware Date: 2017-05-25 11:44:33

Check for New Firmware

*Firmware you selected to upload*

## Upgrade Manually

Upgrade Firmware:

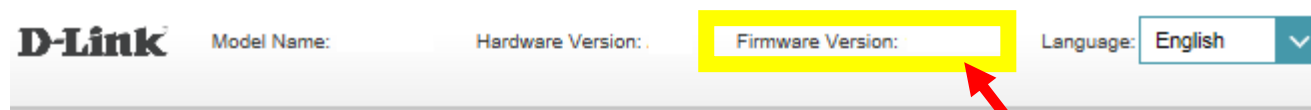
Select File

DIR882A1\_FW100B07.bin

Upload

## Q11: How to check firmware version of router?

Please launch your browser and enter `http://dlinkrouter.local` or `http://192.168.0.1` into the address bar. The firmware version can be found at the top right hand corner of the page.



**Admin Password:**

# Factory Reset

Q12: How to reset my router to factory default setting?

Example: If you forget the password of your router's configuration interface, you can do a factory reset to return the settings to the factory defaults.

**Note:** Performing a factory reset will erase all current settings, and this action cannot be undone.

**Step 1:** With the unit on, use the end of a paperclip to press the reset button for seven seconds, which is located inside a small hole on the base of the unit. The power light on the front of the router will turn orange to indicate that the unit is restarting.



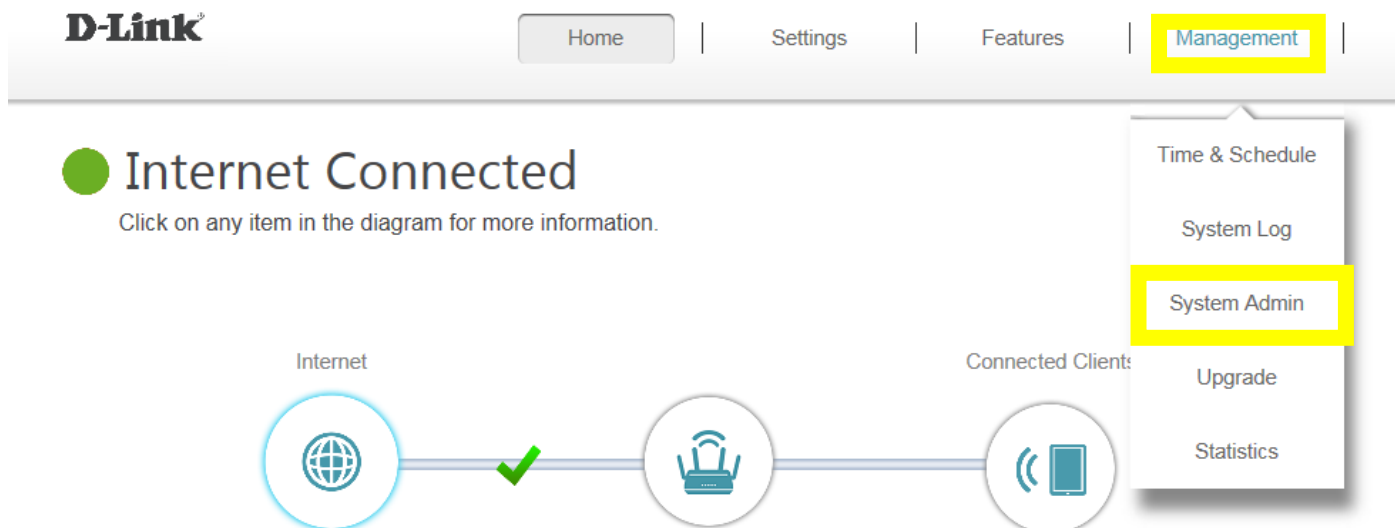
**Step 2:** The unit will reboot automatically. Once the power light stops blinking, the unit has been reset and is ready to use. **Resetting the router does not reset the firmware to the previous version, but it will change all settings back to factory defaults.**

Note: The password for the Administrator (Admin) account will be reset to the default. When logging in for the first time after resetting your router, leave the Password field blank and click Log In.

### Q13: How do I backup/restore the configuration on my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

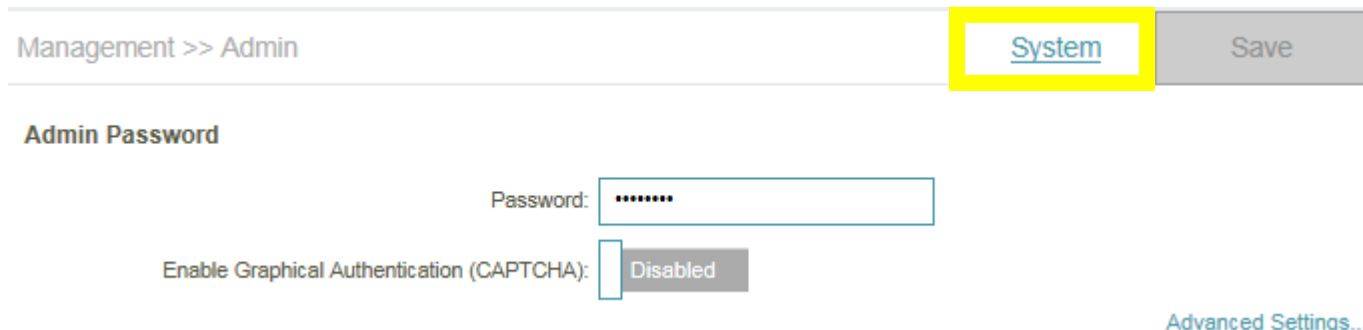
**Step 1:** Click **Management** -> **System Admin**



## Internet

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** Click **System**



**Step 3:** Click **Save** to save the configuration:

Management >> System

[Admin](#)

Save

### System

Save Settings To Local Hard Drive:

Save

Load Settings From Local Hard Drive:

Select File

Restore To Factory Default Settings:

Restore

**Step 4:** To restore your configuration, click the **Select File** button and select your configuration backup file. Once selected, click **Restore**.

Management >> System

[Admin](#)

Save

### System

Save Settings To Local Hard Drive:

Save

Load Settings From Local Hard Drive:

Select File

Restore To Factory Default Settings:

Restore

Management >> System

[Admin](#)

Save

### System

Save Settings To Local Hard Drive:

Save

*configuration file you selected*

Load Settings From Local Hard Drive:

Select File

DIR882A1\_FW100B07.bin

Restore

Restore To Factory Default Settings:

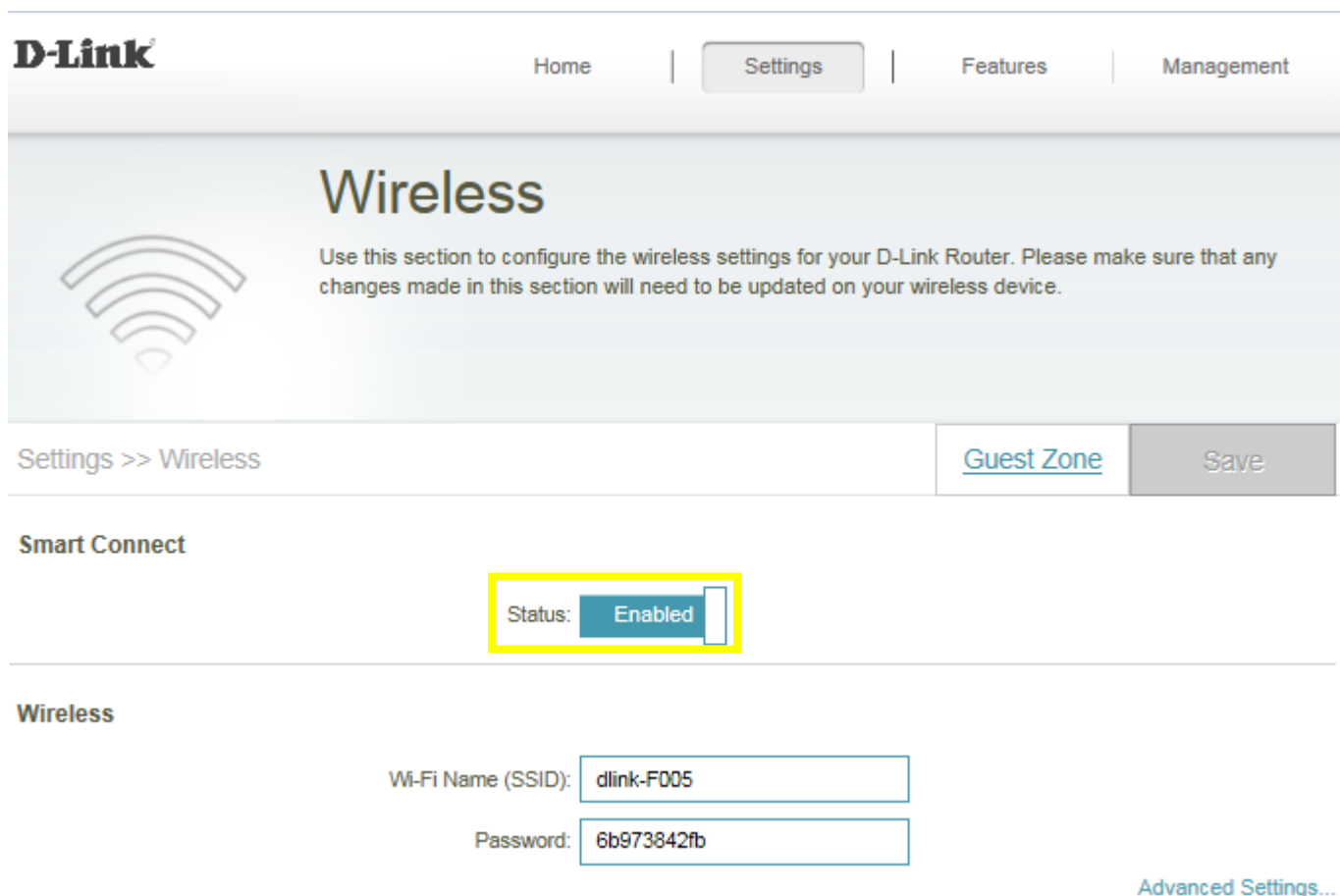
Restore

# Definitions

Q14: What is smart connect?

**Smart Connect** - Creates a 'single' wireless network for your devices to connect to. Behind the scenes, the router automatically determines whether to connect a device to the 2.4 or 5 GHz band, thereby providing the best speed and range for each device and optimally distributing devices to each network.

Smart connect is enabled by default in **Setting** -> **Wireless**:



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Settings' tab is selected. Below the navigation bar, the page title is 'Wireless'. A sub-header reads: 'Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.' Below this, there are two buttons: 'Guest Zone' and 'Save'. The 'Smart Connect' section shows a status of 'Enabled' in a blue box, which is highlighted with a yellow border. Below this, the 'Wireless' section has two input fields: 'Wi-Fi Name (SSID): dlink-F005' and 'Password: 6b973842fb'. A link for 'Advanced Settings...' is visible at the bottom right of the settings area.

If disable smart connect, you'll need to configure 2.4G/5G band individually.

## Q15: What is WPS?

Wi-Fi Protected Setup (WPS) is a standard to connect wireless devices together easily and secure. To use WPS, your product must support WPS and be compatible with WPA/WPA2 security.

To use, simply press the WPS button on your router or access point, and then press the WPS button on your wireless client (sometimes may be enabled by software) within 2 minutes. The router/access point will automatically configure your client with your Wi-Fi name (SSID) and Wi-Fi password.

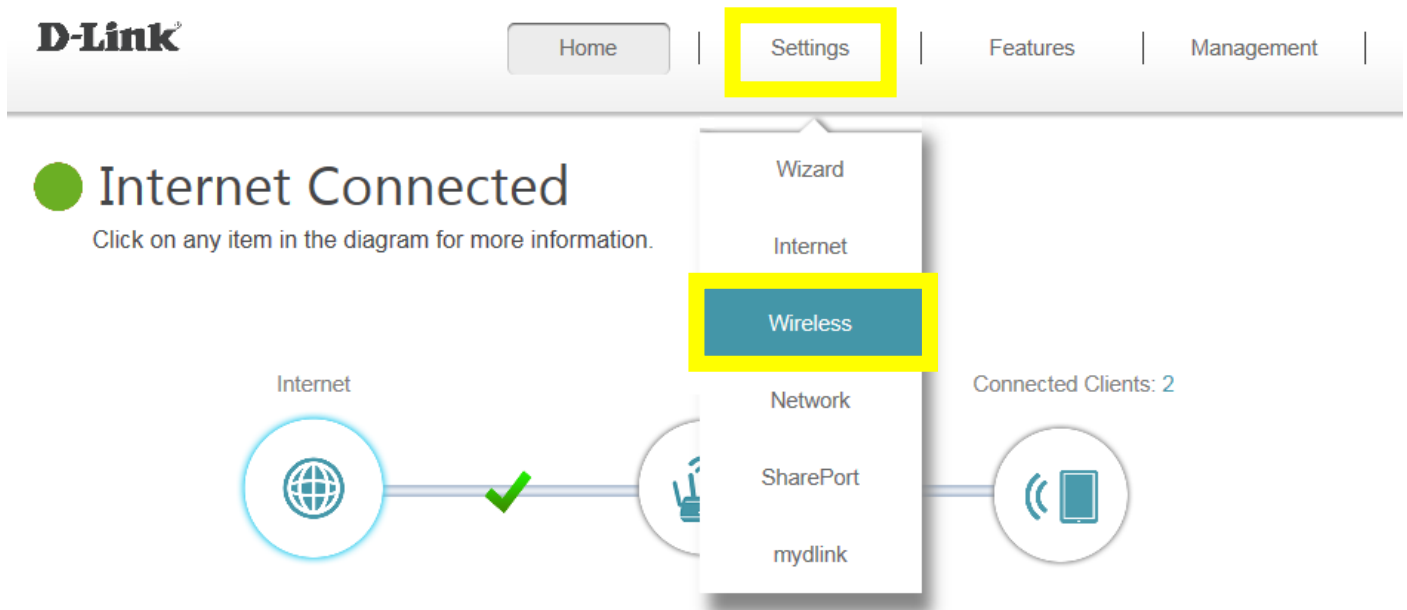


# Guest Zone Setting

Q16: How do I enable Guest Zone/Guest Access on my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

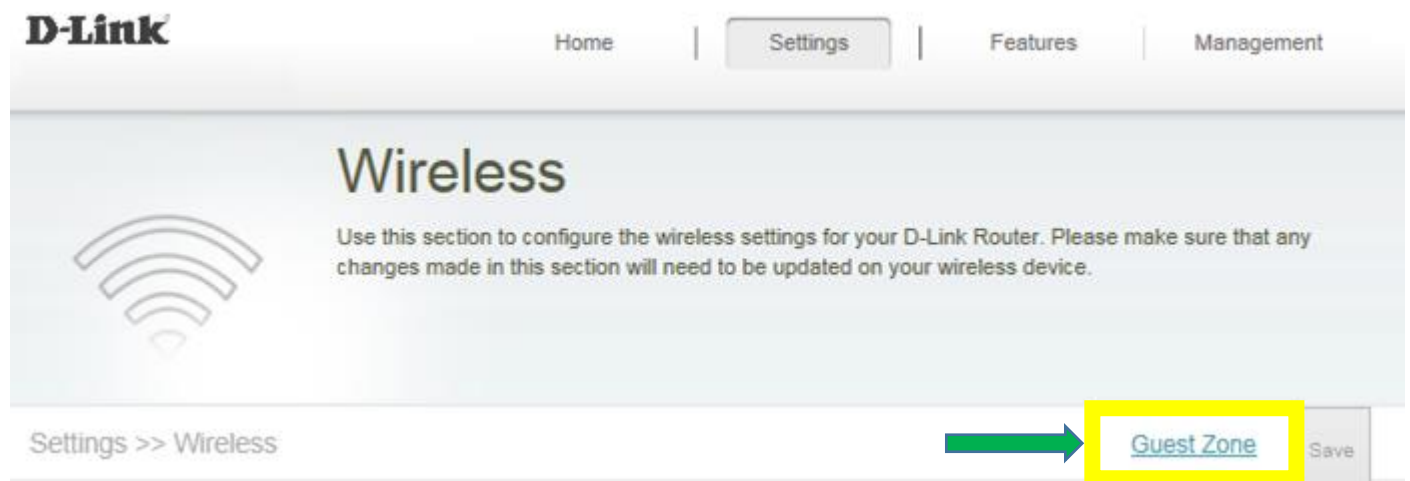
**Step 1:** Click **Settings** -> **Wireless**



## Internet

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** Click the **Guest Zone** tab:



**D-Link** Home | Settings | Features | Management

## Wireless

Use this section to configure the wireless settings for your D-Link Router. Please make sure that any changes made in this section will need to be updated on your wireless device.

Settings >> Wireless [Guest Zone](#) Save

**Step 3: Configure Guest Zone** and click **Save**:

# Guest Zone

This page lets you enable and configure a Wi-Fi Guest Zone. Users connected to a Guest Zone cannot communicate or detect devices on your home network unless Internet Access Only is disabled under Home Network Access.

Settings >> Wireless >> Guest Zone Wi-Fi **Save**

**2.4GHz**

Status:  Enabled

Wi-Fi Name (SSID):  X ←

Password:

Schedule:  ▼

**5GHz**

Status:  Enabled

Wi-Fi Name (SSID):  ←

Password:

Schedule:  ▼

# Connection Checking/Troubleshooting

Q17: How many simultaneous users can my Wi-Fi network handle?

The more devices that are simultaneously connected to your device, the slower the transfer speed will be for each device. D-Link recommends **15 simultaneously connected users** as the maximum number.

## Q18: My router is dropping connections, how to fix this?

If your router is not performing properly (freezing, automatically rebooting, disconnecting...etc.), this could be happening for a number of reasons.

Please check the following:

1. Ensure the router is in a well ventilated area. If the router does not get adequate airflow, it could overheat.

2. Ensure the firmware is up to date.

Firmware is the "brain" of the router, it is the programming that tells it how to work. D-Link will release new firmware versions when bugs are reported and fixed. Upgrading the firmware may correct issues you are experiencing.

Please follow this link for instructions of how to upgrade the firmware- [How to upgrade firmware for router?](#)

3. Perform a factory reset on the router. Please follow this link for instructions: [Reset your router to factory default setting?](#)

## Q19: What can I do if I'm having wireless connection problems?

If you are experiencing any of the below wireless problems:

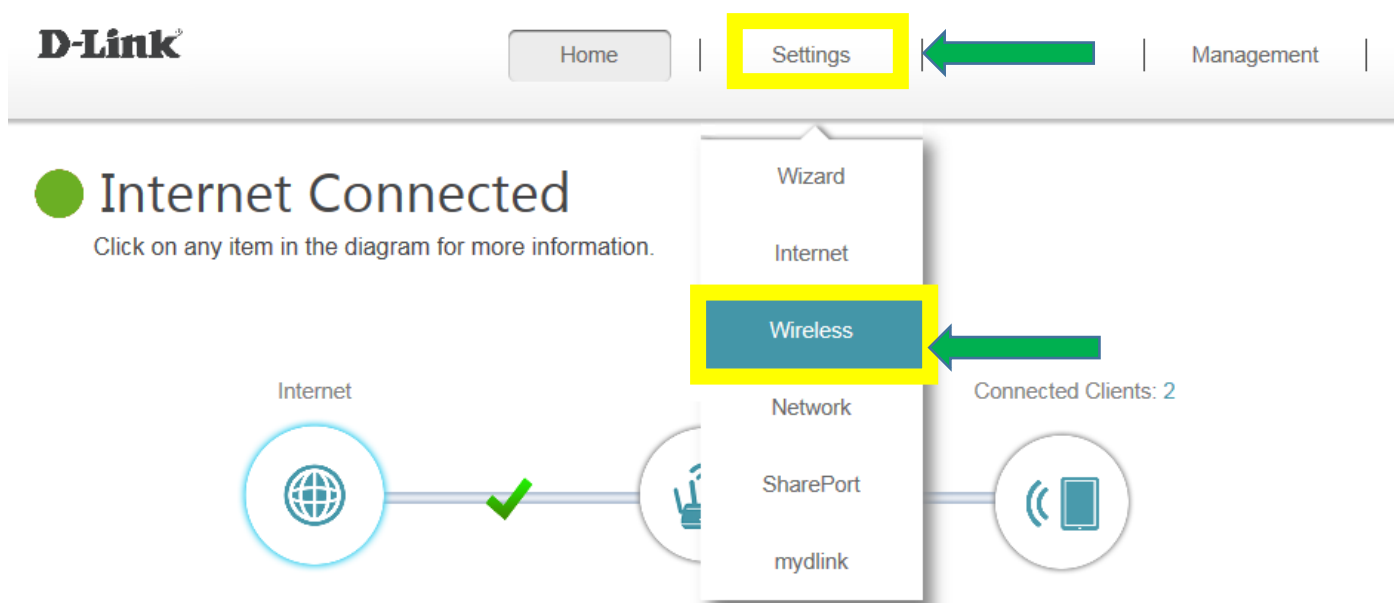
- Slow Wireless Speeds
- Wireless Connection Drops
- Low Wireless Signal

**Note:** An easy way to determine if the issue is with the router or with the wireless device is to see if the issue exists on multiple devices. If your internet is slow or is only dropping on one of multiple devices/computers, then the issue is probably not with the router. If the router is the cause, all devices connected will be affected.

### 1. Change the wireless channel:

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click **Settings** -> **Wireless**



The screenshot shows the D-Link router management interface. At the top, there is a navigation bar with 'Home', 'Settings', and 'Management' buttons. The 'Settings' button is highlighted with a yellow box and a green arrow pointing to it from the right. Below the navigation bar, there is a status section titled 'Internet Connected' with a green circle icon and the text 'Click on any item in the diagram for more information.' Below this, there is a network diagram showing 'Internet' connected to a central router icon, which is then connected to a wireless icon. A green checkmark is shown between the Internet and router icons. To the right of the wireless icon, it says 'Connected Clients: 2'. A dropdown menu is open over the router icon, with 'Wireless' highlighted in blue and a yellow box around it, and a green arrow pointing to it from the right. The dropdown menu options are: Wizard, Internet, Wireless, Network, SharePort, and mydlink.

## Internet

			IPv4 / <a href="#">IPv6</a>
<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** Click **Advanced Settings** for both 2.4G and 5G bands:

**2.4GHz**

Status:  Enabled

Wi-Fi Name (SSID):

Password:



**5GHz**

Status:  Enabled

Wi-Fi Name (SSID):

Password:



**Step 3:** Click **Wi-Fi Channel** box, select your desired Channel and click **Save**

**2.4GHz**

Status:  Enabled

Wi-Fi Name (SSID):

Password:

[Advanced Settings...](#)

Security Mode:  ▼

802.11 Mode:  ▼

**Wi-Fi Channel:  ▼**

Transmission Power:  ▼

Channel Width:  ▼

- 2. Check or change the location of your router**-- even a subtle changes (2-3 feet) can make a big difference.
  - Ensure the router is in a well ventilated and open area (Do not put the router in a cabinet or enclosed area)
  - Other devices that use the 2.4Ghz/5Ghz wireless band will interfere with your wireless network, these include- (Microwaves, wireless cameras, baby monitors). If needed, place the router or the other devices in a different area if they are close to each other.

- Wireless signals will degrade (or die completely) when going through brick (fireplace), metal (file cabinet), steel, lead, mirrors, water (fish tank), large appliances, glass, etc.

3. **Ensure that your router is running the latest firmware version.** Please follow this link for instructions of how to upgrade the firmware- [How to upgrade firmware for router?](#)



## Q20: Why won't my VoIP device work with my router?

1. Please confirm if you load the latest firmware in your router. You can review the process of firmware version checking and upgrading process below:

(1) Firmware version checking: [How to check firmware version for your router?](#)

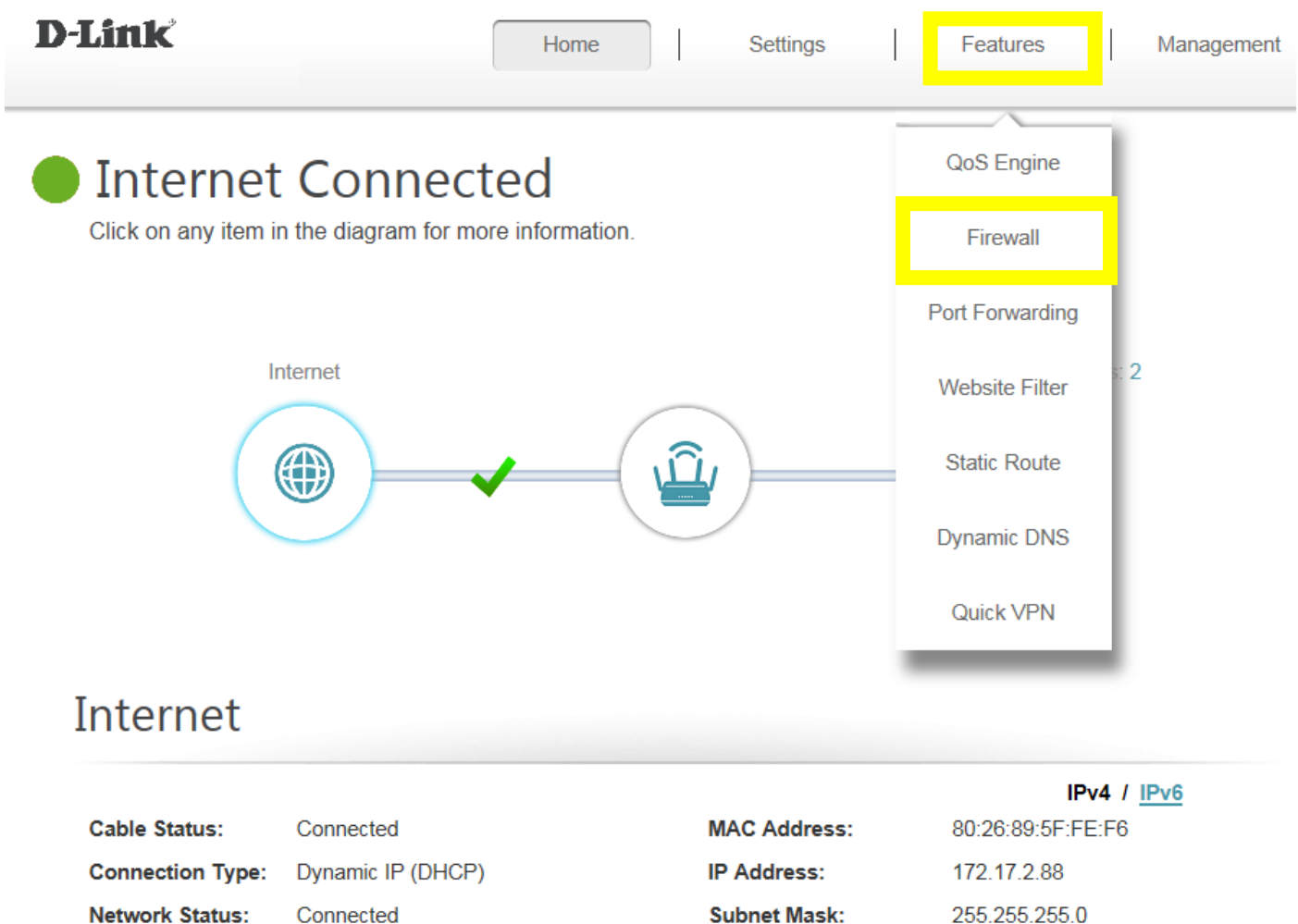
(2) Firmware upgrade process: [How to upgrade firmware for your router?](#)

### 2. Disable the SIP ALG feature on your router

SIP ALG allows devices and applications using VoIP (Voice over IP) to communicate across NAT. Some VoIP applications and devices have the ability to discover NAT devices and work around them. This ALG may interfere with the operation of such devices. If you are having trouble making VoIP calls, try turning this ALG off.

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** First, click **Feature** -> **Firewall**:



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Features' menu is open, showing options like 'QoS Engine', 'Firewall', 'Port Forwarding', 'Website Filter', 'Static Route', 'Dynamic DNS', and 'Quick VPN'. The 'Firewall' option is highlighted. Below the navigation bar, there is a status indicator 'Internet Connected' with a green circle and a green checkmark. A diagram shows 'Internet' connected to a router icon. Below the diagram, there is a table with network status information.

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** Then, click **Advanced Settings:**

**D-Link** Home | Settings | **Features** | Management

## Firewall Settings

Your router's high-performance firewall feature continuously monitors Internet traffic, protecting your network and connected devices from malicious Internet attacks.

Advanced >> Firewall Settings >> Advanced

[IPv4 Rules](#) | [IPv6 Rules](#) | Save

Enable DMZ:  Disabled

---

Enable SPI IPv4:  Disabled

Enable Anti-spoof Checking:  Disabled

IPv6 Simple Security:  Disabled


IPv6 Ingress Filtering:  Disabled

[Advanced Settings..](#)

**Step 3:** Click **SIP** to disable SIP ALG, then click **Save**:

# Firewall Settings

Your router's high-performance firewall feature continuously monitors Internet traffic, protecting your network and connected devices from malicious Internet attacks.



Advanced >> Firewall Settings >> Advanced

[IPv4 Rules](#) [IPv6 Rules](#) **Save**

Enable DMZ:  Disabled

---

Enable SPI IPv4:  Disabled

Enable Anti-spoof Checking:  Disabled

IPv6 Simple Security:  Disabled

IPv6 Ingress Filtering:  Disabled

[Advanced Settings...](#)

---

### Application Level Gateway (ALG) Configuration

PPTP:  Enabled

IPSec (VPN):  Enabled

RTSP:  Enabled

**SIP:  Disabled**

# Port Forwarding/Virtual Server Setting

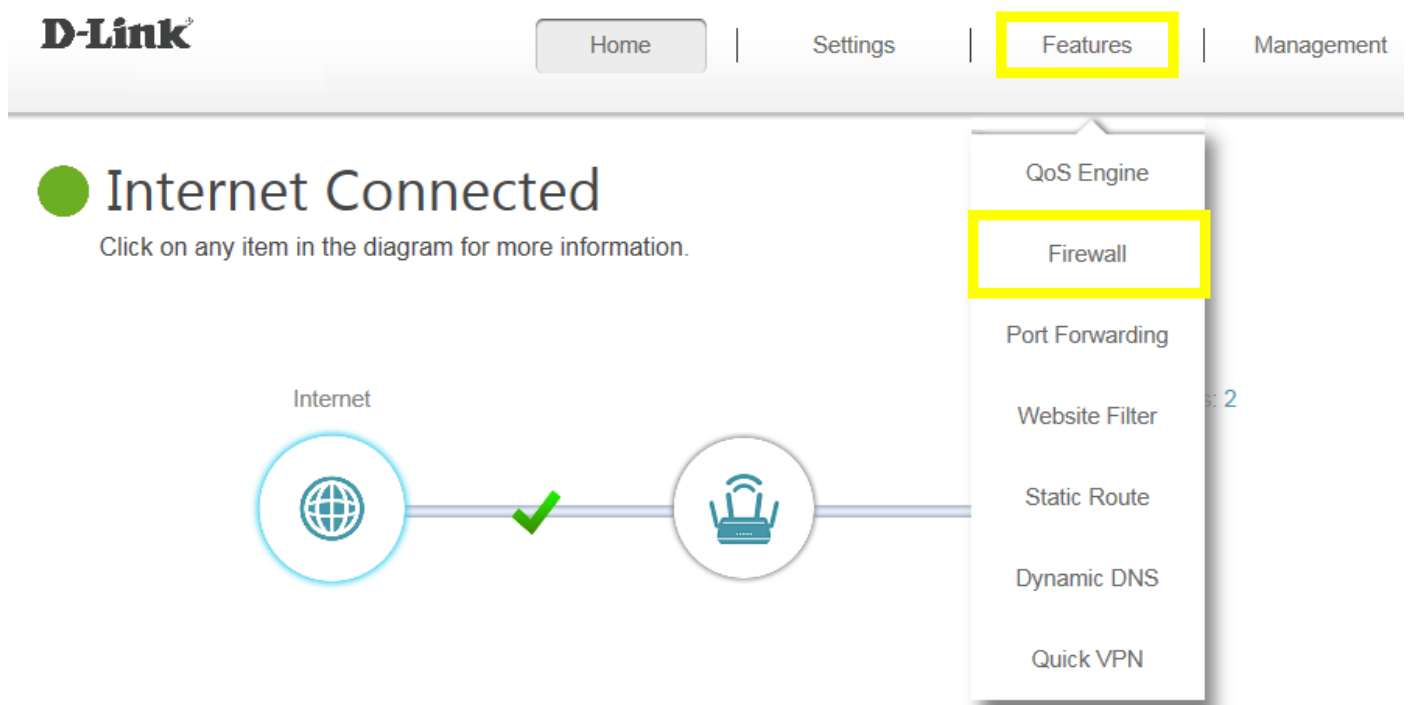
Q21: How do I enable DMZ on my router?

DMZ should only be used if you have a computer/device that cannot run Internet applications properly from behind the router.

**Note:** By enabling the DMZ (Demilitarized Zone) feature, you are allowing the router to forward all incoming traffic from the internet to the device specified, virtually disabling the routers "firewall protection". This may expose the device to a variety of security risks, so only use this option as a last resort.

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

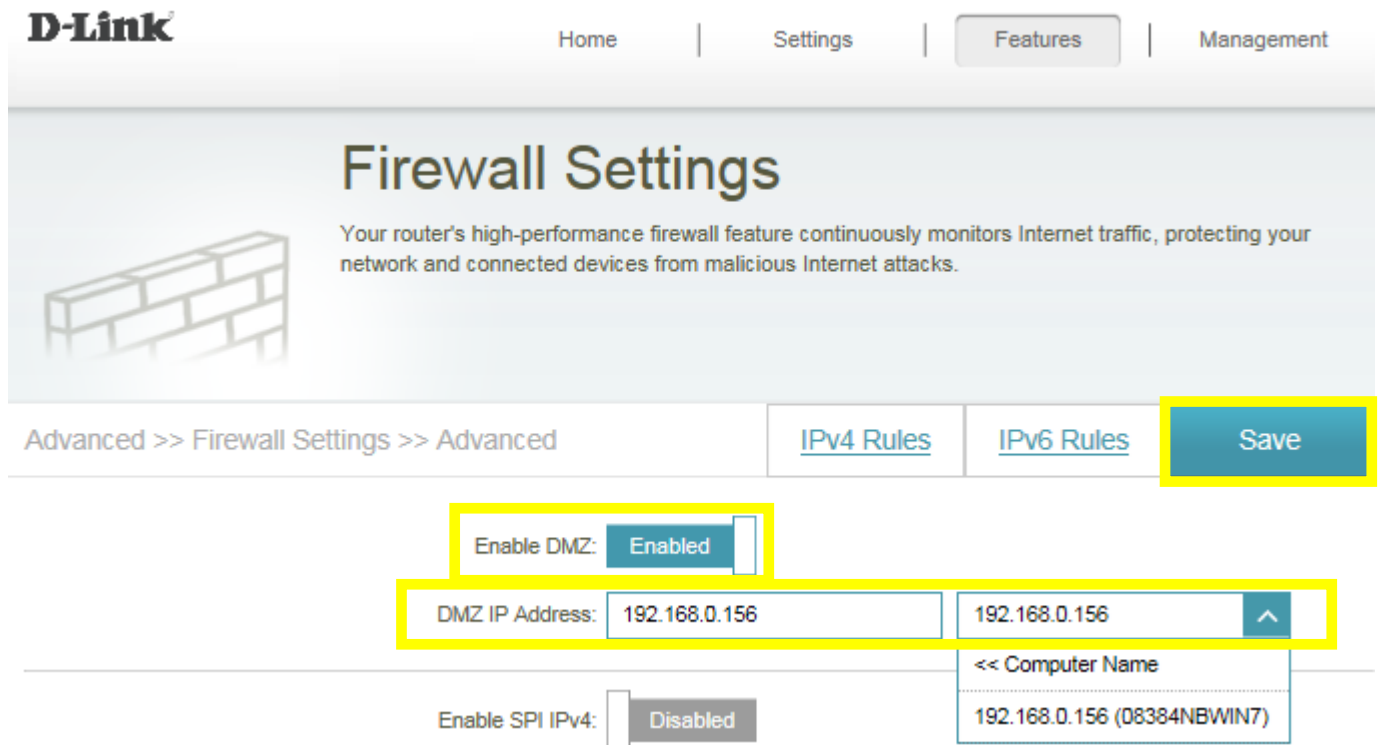
**Step 1:** Click **Features** -> **Firewall**



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Features' menu is open, showing options like 'QoS Engine', 'Firewall', 'Port Forwarding', 'Website Filter', 'Static Route', 'Dynamic DNS', and 'Quick VPN'. The 'Firewall' option is highlighted with a yellow box. Below the navigation bar, there is a status section titled 'Internet Connected' with a green circle icon and a green checkmark. A diagram shows 'Internet' connected to a router icon. Below this, there is a section titled 'Internet' with a table of network status information.

		IPv4 / <a href="#">IPv6</a>	
<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** Click **Enable DMZ** to toggle the DMZ state, and fill in the IP address of the specified device (**One device only**), then click **Save**.



**D-Link** Home | Settings | **Features** | Management

## Firewall Settings

Your router's high-performance firewall feature continuously monitors Internet traffic, protecting your network and connected devices from malicious Internet attacks.

Advanced >> Firewall Settings >> Advanced | [IPv4 Rules](#) | [IPv6 Rules](#) | **Save**

Enable DMZ: **Enabled**

DMZ IP Address: 192.168.0.156 | 192.168.0.156 ^

Enable SPI IPv4: **Disabled**

<< Computer Name  
192.168.0.156 (08384NBWIN7)

## Q22: How do I open ports for routers?

### Scenario 1: Single Port:

By default, your router will block all incoming connections (into your network) and allow all Outgoing connections to the Internet. In some cases, you may need to allow some connections into your network (for Example: Using the Remote Desktop Application). To do this, you must open ports on your router.

Please launch your browser and enter `http://dlinkrouter.local` or `http://192.168.0.1` into the address bar. Then login and follow the steps below:

**Step 1:** Click **Feature** -> **Port Forwarding**

The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with the D-Link logo on the left and buttons for 'Home', 'Settings', 'Features', and 'Management'. The 'Features' button is highlighted with a yellow box, and a green arrow points to it from the 'Settings' button. Below the navigation bar, there is a status section titled 'Internet Connected' with a green circle icon and the text 'Click on any item in the diagram for more information.' Below this, there is a diagram showing 'Internet' connected to a router icon, with a green checkmark between them. A green arrow points from the router icon to a dropdown menu. The dropdown menu contains several options: 'QoS Engine', 'Firewall', 'Port Forwarding' (highlighted with a yellow box), 'Website Filter', 'Static Route', 'Dynamic DNS', and 'Quick VPN'. Below the diagram, there is a section titled 'Internet' with a table of network status information.

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2: Click Virtual Server and Add Rule**

The image shows two screenshots of the D-Link router's web interface. The top screenshot is the 'Port Forwarding' page. It features a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The main heading is 'Port Forwarding' with a sub-explanation: 'Your router helps share a single IP address assigned by your ISP among several clients in your home. Port forwarding allows traffic requests from a specified application to be directed to a specified client inside.' Below this is a table with columns: Status, Name, Local IP, TCP Port, UDP Port, Schedule, Edit, and Delete. A 'Virtual Server' button is highlighted with a yellow box, and a 'Save' button is visible. The bottom screenshot is the 'Virtual Server' page. It has the same navigation bar. The main heading is 'Virtual Server' with a sub-explanation: 'Your router helps share a single IP address assigned by your Internet service provider among several clients in your home. Virtual servers are preset port mappings for popular services, like a web or e-mail server, that route traffic to a specified client inside.' Below this is a table with columns: Status, Name, Local IP, Protocol, External Port, Internal Port, Schedule, Edit, and Delete. An 'Add Rule' button is highlighted with a yellow box, and a green arrow points to it from the left. A 'Port Forwarding' button and a 'Save' button are also visible.

**Step 3: Create your rule** (FTP server as example), then **apply**

- **Name-** Enter a name for the rule (i.e. Web Server 1)
- **Local IP:** Specify the IP address of the device you are opening the port for
- **Protocol:** Specify the traffic type (TCP or UDP) - **Note:** If you are not sure, choose **BOTH**
- **External/Internal Port:** Enter the port number you want to open (i.e. 21, for FTP)

## Edit Rule ✕

Name:  << Application Name ▼

Local IP:  << Computer Name ▼

Protocol:  ▼

External Port:

Internal Port:

Schedule:  ▼

**Apply**

Step 4: Click **Save** After finish adding your rule.

**D-Link** Home | Settings | Features | Management

## Virtual Server

Your router helps share a single IP address assigned by your Internet service provider among several clients in your home. Virtual servers are preset port mappings for popular services, like a web or e-mail server, that route traffic to a specified client inside.

Advanced >> Virtual Server Port Forwarding **Save**

Status	Name	Local IP	Protocol	External Port	Internal Port	Schedule	Edit	Delete
<input checked="" type="checkbox"/>	FTP	192.168.0.156	TCP	21	21	Always Enable		

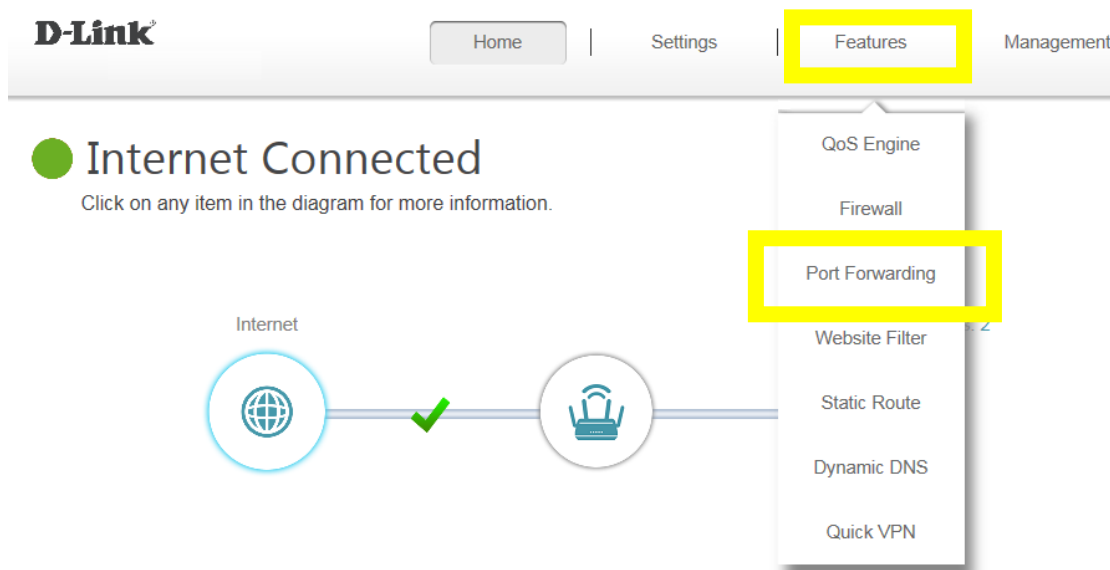
**Add Rule** Remaining: 23



## Scenario 2: Multiple Ports:

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

### Step 1: Click **Feature** -> **Port Forwarding**



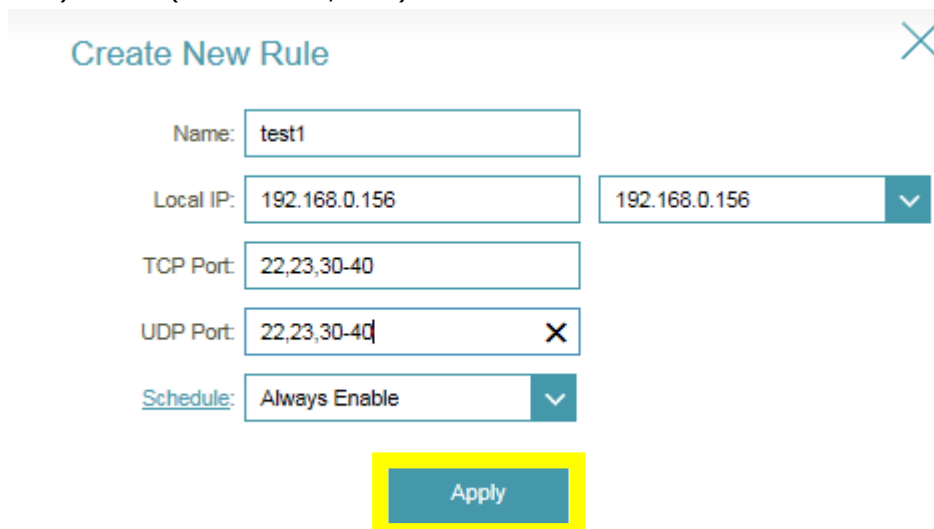
The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Features' menu is open, and 'Port Forwarding' is highlighted. Below the navigation bar, there is a status indicator 'Internet Connected' with a green dot and a link to click on any item in the diagram for more information. A diagram shows 'Internet' connected to a router icon with a green checkmark. Below the diagram, there is a table of network status information.

Internet	
<b>Cable Status:</b>	Connected
<b>Connection Type:</b>	Dynamic IP (DHCP)
<b>Network Status:</b>	Connected
<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>IP Address:</b>	172.17.2.88
<b>Subnet Mask:</b>	255.255.255.0

### Step 2: Enter the TCP port numbers you want to open:

- **Name-** Enter a name for the rule (i.e. Web Server 1)
- **Local IP:** Specify the IP address of the device you are opening the port for
- **TCP Port:** Enter the TCP port numbers you want to open
- **UDP Port-** Enter the UDP port numbers you want to open

**Note:** You can enter the ports in multiple different ways- Range (50-100) Individual (80, 68, 888) Mixed (1020-5000, 689)




The screenshot shows the 'Create New Rule' form in the D-Link router's web interface. The form has a close button (X) in the top right corner. The fields are as follows:

- Name:** test1
- Local IP:** 192.168.0.156 (with a dropdown menu showing 192.168.0.156)
- TCP Port:** 22,23,30-40
- UDP Port:** 22,23,30-40 (with a clear button X)
- Schedule:** Always Enable (with a dropdown menu)

An 'Apply' button is highlighted with a yellow box at the bottom of the form.

**Step 3:** Click **Save** After finish adding your rule.





Home | Settings | **Features** | Management

## Port Forwarding

Your router helps share a single IP address assigned by your ISP among several clients in your home. Port forwarding allows traffic requests from a specified application to be directed to a specified client inside.

Advanced >> Port Forwarding [Virtual Server](#) **Save**

Status	Name	Local IP	TCP Port	UDP Port	Schedule	Edit	Delete
<input checked="" type="checkbox"/>	test1	192.168.0.156	22,23,30-40	22,23,30-40	Always Enable		

**Add Rule** Remaining: 23

## Q23: How do I configure inbound filter?

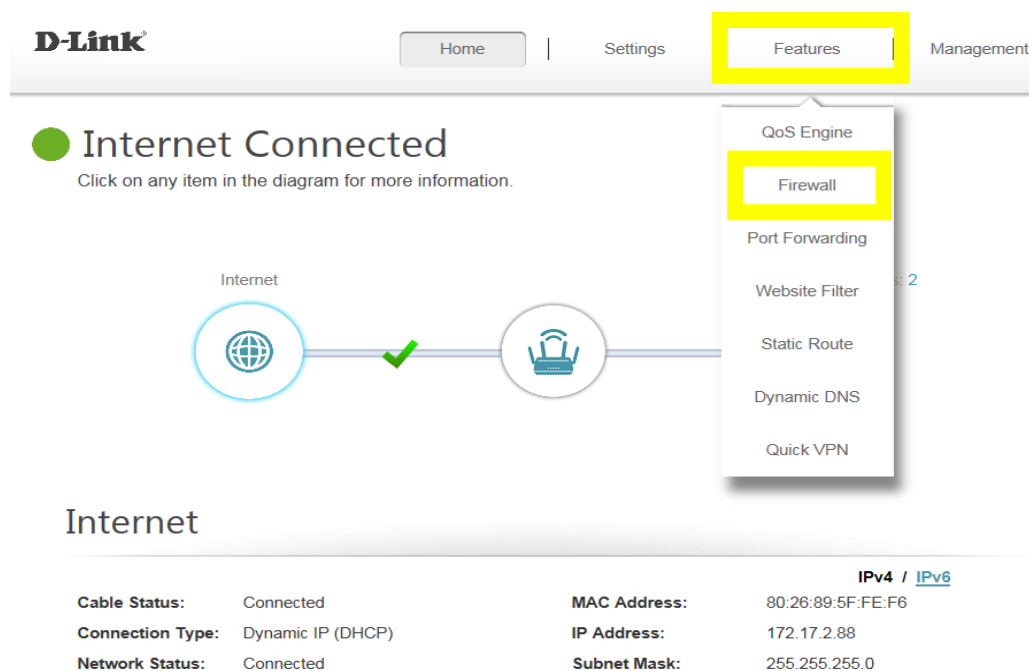
When you use the Virtual Server, Port Forwarding, or Remote Administration features to open specific ports to traffic from the Internet, you could be increasing the exposure of your LAN to cyberattacks from the Internet.

In these cases, you can use **Inbound Filters** to limit that exposure by specifying the IP addresses of internet hosts that you trust to access your LAN through the ports that you have opened. You might, for example, only allow access to a game server on your home LAN from the computers of friends whom you have invited to play the games on that server.

Inbound Filters can be used for limiting access to a server on your network to a system or group of systems. Filter rules can be used with Virtual Server, Gaming, or Remote Administration features. Each filter can be used for several functions; for example a "Game Clan" filter might allow all of the members of a particular gaming group to play several different games for which gaming entries have been created. At the same time, an "Admin" filter might only allow systems from your office network to access the WAN admin pages and an FTP server you use at home. If you add an IP address to a filter, the change is effected in all of the places where the filter is used.

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click on **Features** on the top and then **Firewall**



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Features' menu is open, showing options like 'QoS Engine', 'Firewall', 'Port Forwarding', 'Website Filter', 'Static Route', 'Dynamic DNS', and 'Quick VPN'. The 'Firewall' option is highlighted. Below the navigation bar, there is a status section titled 'Internet Connected' with a green checkmark and a diagram showing 'Internet' connected to a router. Below this, there is a section titled 'Internet' with network status information:

		IPv4 / IPv6	
Cable Status:	Connected	MAC Address:	80:26:89:5F:FE:F6
Connection Type:	Dynamic IP (DHCP)	IP Address:	172.17.2.88
Network Status:	Connected	Subnet Mask:	255.255.255.0

**Step 2:** Click on **IPv4 Rules**, then select **Turn IPv4 Filtering ON and ALLOW rules listed**, then click **Add Rule**

D-Link

Home | Settings | Features | Management

## Firewall Settings

Your router's high-performance firewall feature continuously monitors Internet traffic, protecting your network and connected devices from malicious Internet attacks.

Advanced >> Firewall Settings >> Advanced

[IPv4 Rules](#) [IPv6 Rules](#) Save

Advanced >> Firewall Settings >> IPv4 Rules

[Advanced](#) [IPv6 Rules](#) Save

Turn IPv4 Filtering ON and ALLOW rules listed

Name	Schedule	Edit	Delete
------	----------	------	--------

[Add Rule](#) Remaining: 24

**Step 3:** Create your rule

### Edit Rule

Name:

Source IP Address Range:

Destination IP Address Range:

Protocol & Port Range:

Schedule:

[Apply](#)

**Step 4:** Click **Save** after adding your rule.

**D-Link** Home | Settings | Features | Management

## Firewall Settings

The IPv4 rule section is an advance feature used to deny or allow traffic from passing through the device.

Advanced >> Firewall Settings >> IPv4 Rules

[Advanced](#) | [IPv6 Rules](#) | **Save**

Turn IPv4 Filtering ON and ALLOW rules listed

Name	Schedule	Edit	Delete
Test_1	Always Enable		

**Add Rule** Remaining: 23

**Note:** If you'd like to block specific IP addresses accessing your router, please select "**Turn IPV4 Filtering ON and ALLOW rules listed**" from the drop-down menu.

# Website Filter Setting

Q24: How do I set up website filter on my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click **Features** -> **Website Filter**

The screenshot shows the D-Link router's web management interface. At the top, there is a navigation bar with the D-Link logo on the left and four menu items: Home, Settings, Features, and Management. The 'Features' menu item is highlighted with a yellow box. Below the navigation bar, there is a status section titled 'Internet Connected' with a green circle icon and a subtext 'Click on any item in the diagram for more information.' Below this is a network diagram showing 'Internet' connected to a router icon, with a green checkmark on the connection line. A dropdown menu is open from the 'Features' menu item, listing several options: QoS Engine, Firewall, Port Forwarding, Website Filter (highlighted with a yellow box), Static Route, Dynamic DNS, and Quick VPN. Below the diagram, there is a section titled 'Internet' which displays network status information. The status is 'Connected'. The connection type is 'Dynamic IP (DHCP)'. The network status is 'Connected'. The MAC address is '80:26:89:5F:FE:F6'. The IP address is '172.17.2.88'. The subnet mask is '255.255.255.0'. There are also links for 'IPv4' and 'IPv6'.

**Internet**

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** If you want to create a list of sites to block, **select DENY computers access to ONLY these sites** from the drop-down menu. All other sites will be accessible.

D-Link Home | Settings | Features | Management

## Website Filter

The website filters feature allows rules to be set that restrict access to a specified web address (URL) or blocks specified keywords in the URL. You can use Website Filter to restrict access to potentially harmful and inappropriate websites.

Advanced >> Website Filter Save

- DENY clients access to ONLY these sites
- DENY clients access to ONLY these sites
- ALLOW clients access to ONLY these sites

Add Rule Remaining: 24 Delete

If you want to specify a list of sites to allow, select **ALLOW computers access to ONLY these sites** from the drop menu. All other sites will be blocked.

**Step 3:** You may specify a maximum of fifteen web sites. To add a new site to the list, click **Add Rule**, and enter the URL or domain you wish to deny or allow access to in the Website URL/Domain column, and click **save**.

D-Link Home | Settings | Features | Management

## Website Filter

The website filters feature allows rules to be set that restrict access to a specified web address (URL) or blocks specified keywords in the URL. You can use Website Filter to restrict access to potentially harmful and inappropriate websites.

Advanced >> Website Filter Save

DENY clients access to ONLY these sites

Website URL/Domain	Delete
<span style="border: 2px solid yellow; padding: 2px;">cnn.com</span>	

Add Rule Remaining: 23

**Note:**

1. If you wish to delete a rule, click on its trash can icon in the Delete column. If you wish to edit a rule, simply replace the URL or domain.
2. **The https website can't be blocked by website filter. For example: Facebook, YouTube, Amazon...etc. If necessary, please apply OpenDNS paid service to fulfill your requirement.**

The service website is as below: <https://www.opendns.com/setupguide/>. There are 15 days for free trial. Sign up for new account, follow the setup guide to establish the service, and start enjoy the stunning service provided by Cisco.

**Note:** Please confirm if DNS relay is enabled. (It's enabled by default)



# System Log

Q25: How to check system log for router?

There are 3 methods to check system log of router. Select **Management** -> **System Log**, and follow the methods as below:

The screenshot shows the D-Link router's web management interface. At the top, there is a navigation bar with the D-Link logo on the left and four menu items: Home, Settings, Features, and Management. The Management menu item is highlighted with a yellow box. Below the navigation bar, the main content area displays 'Internet Connected' with a green status indicator and a sub-message: 'Click on any item in the diagram for more information.' A network diagram shows three components: 'Internet' (globe icon), a router icon, and 'Connected Clients' (laptop icon). A green checkmark is placed between the Internet and Router icons. A dropdown menu is open from the Management menu, listing 'Time & Schedule', 'System Log' (highlighted with a yellow box), 'System Admin', 'Upgrade', and 'Statistics'.

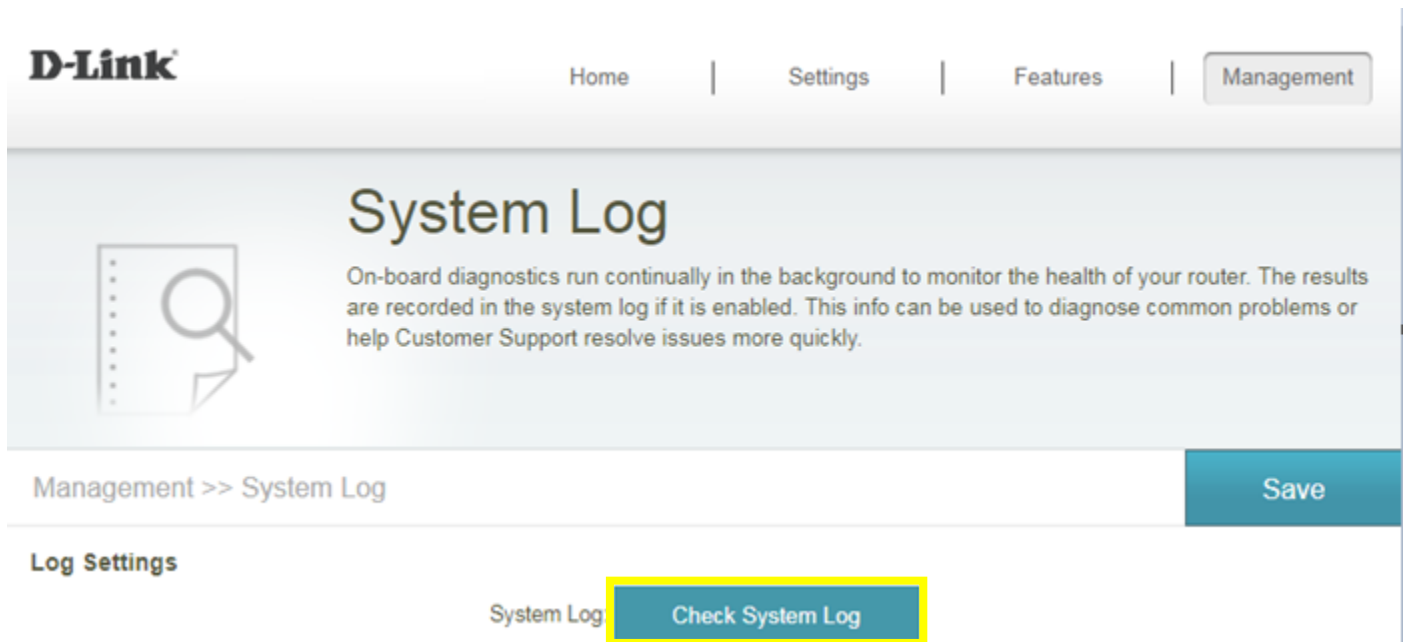
## Internet

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

[IPv4](#) / [IPv6](#)

## Method 1: Log Settings

**Step 1:** Click Check System Log button, and download the file "messages" to your folder.



**D-Link** Home | Settings | Features | Management

# System Log

On-board diagnostics run continually in the background to monitor the health of your router. The results are recorded in the system log if it is enabled. This info can be used to diagnose common problems or help Customer Support resolve issues more quickly.

Management >> System Log Save

Log Settings

System Log Check System Log

**Step 2:** Open the messages via WordPad/NotePad, then you can check system log.

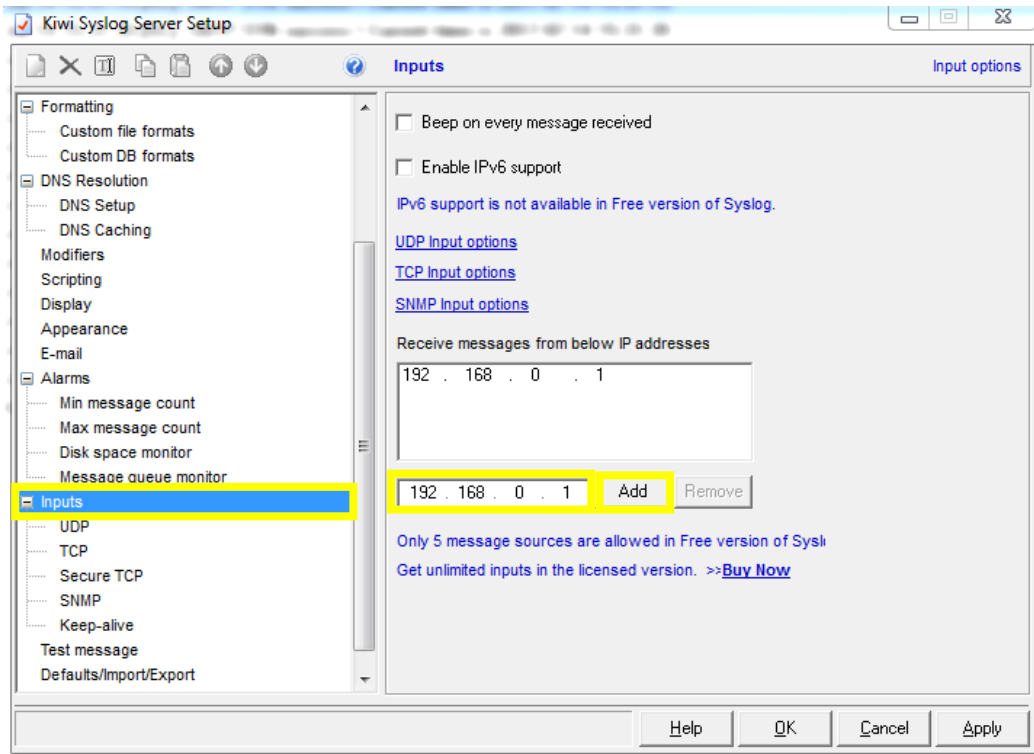
```
2017-05-25 11:44:40 [SYSLOG]: start BusyBox v1.12.1
2017-05-25 11:45:20 [RC]: Wan(ppp0) Disconnect
2017-05-25 11:45:20 ipsec_setup: ...Openswan IPsec stopped
2017-05-25 11:45:20 [DHCP6-6]: dhcp6_ctl_authinit: failed to
open /var/etc/dhcp6sctlkey: No such file or directory
2017-05-25 11:45:20 [RC]: Current Wan interface is eth3 , mode
is pppoe
2017-05-25 11:45:38 [RC]: Wan(ppp0) connect Success , Current
Wan ip is 220.137.10.136
2017-05-25 11:45:38 [UPNP]: WPS listening on port 8888
2017-05-25 11:45:41 [UPNP]: addSubscriber(/event,
http://192.168.0.2:2869/upnp/eventing/jldkzxeqsi, 1800)
2017-05-25 11:45:42 ipsec_setup: ...Openswan IPsec stopped
2017-07-12 03:19:14 [RC]: SNTP SYN success ! Current timer is
2017-07-12 03:19:14
2017-07-12 03:19:14 [MDNS]: mDNSCoreReceive: mDNSPlatformRawTime
went backwards by 79350006 ticks; setting correction factor to -
1610415401
2017-07-12 06:12:15 [UPNP]: addSubscriber(/event,
http://192.168.0.2:2869/upnp/eventing/nizkldsuaia, 1800)
2017-07-12 06:12:16 [UPNP]: addSubscriber(/evt/L3F,
http://192.168.0.2:2869/upnp/eventing/vadwoqkleo, 1800)
2017-07-12 06:12:16 [UPNP]: addSubscriber(/evt/CmnIfCfg,
http://192.168.0.2:2869/upnp/eventing/lzeipjapnq, 1800)
2017-07-12 06:12:16 [UPNP]: addSubscriber(/evt/IPConn,
http://192.168.0.2:2869/upnp/eventing/zjauwwprtx, 1800)
2017-07-12 06:16:42 [UPNP]: addSubscriber(/evt/CmnIfCfg,
http://192.168.0.2:2869/upnp/eventing/qjthsaxtua, 1800)
2017-07-12 06:16:42 [UPNP]: addSubscriber(/evt/CmnIfCfg,
http://192.168.0.2:2869/upnp/eventing/pzxdjayxaf, 1800)
```

## Method 2: Syslog Settings

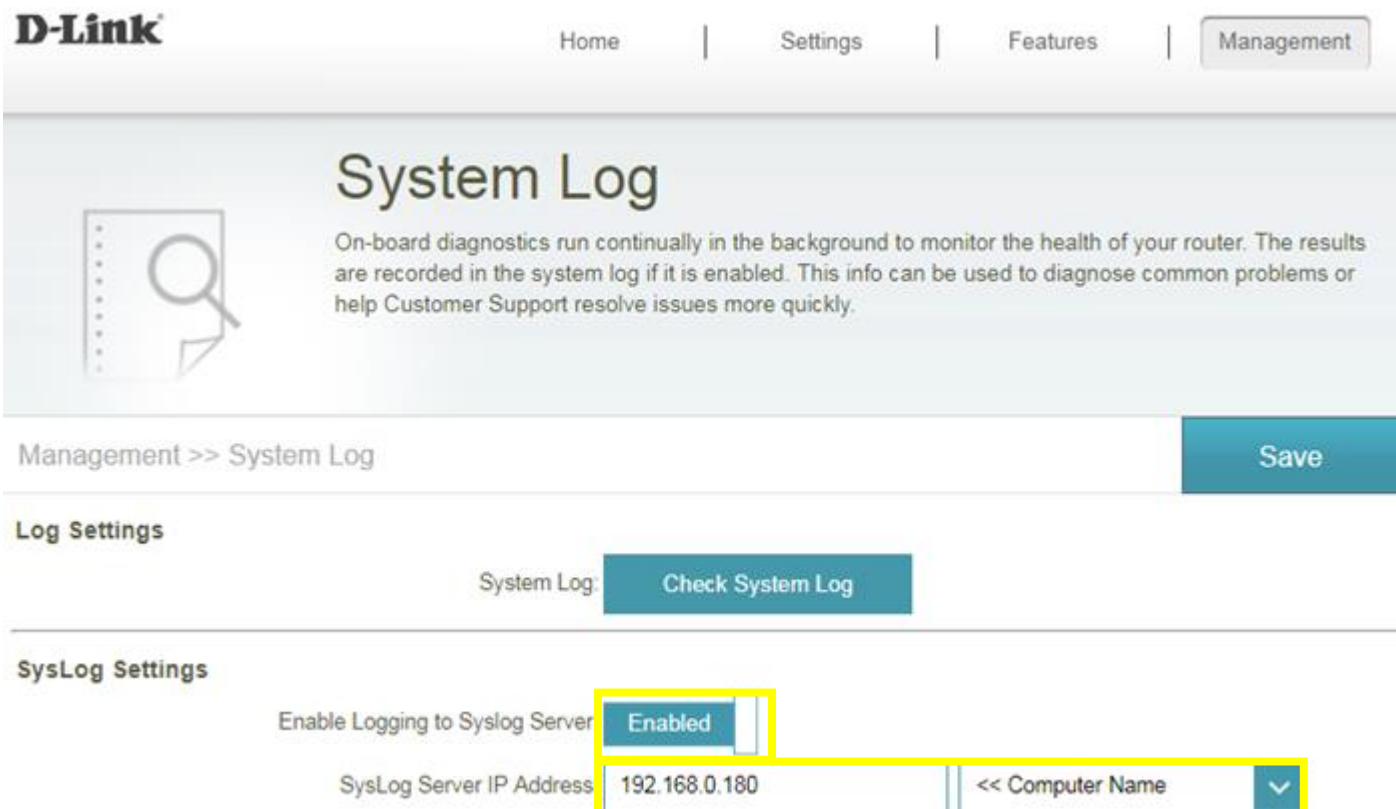
**Step 1:** Download system log server application, ex: Kiwi Syslog Server:

<http://www.kiwisyslog.com/free-tools/kiwi-free-syslog-server>

**Step 2:** Click **File** -> **Setup**, and fill in the IP address of your network device, then click **Add**:



**Step 3:** Enable "Enable Logging to Syslog Server", and fill in the IP address of the PC installing Kiwi Syslog Server:



**Step 4:** You'll be able to check the log in Kiwi Syslog Service Manager as below:

Kiwi Syslog Service Manager (Free Version 9.6)

File Edit View Manage Help

Display 00 (Default)

Date	Time	Priority	Hostname	Message
07-14-2017	15:37:16	Daemon.Notice	192.168.0.1	Jul 14 15:37:15 [RC]: SNTP SYN success ! Current timer is 2017-07-14 15:37:15
07-14-2017	15:31:40	Daemon.Notice	192.168.0.1	Jul 14 15:31:39 [RC]: SNTP SYN success ! Current timer is 2017-07-14 15:31:39
07-14-2017	15:24:06	Daemon.Notice	192.168.0.1	Jul 14 15:24:05 [RC]: SNTP SYN success ! Current timer is 2017-07-14 15:24:05
07-14-2017	15:20:56	Daemon.Notice	192.168.0.1	Jul 14 15:20:55 [RC]: SNTP SYN success ! Current timer is 2017-07-14 15:20:55
07-14-2017	15:19:37	Daemon.Notice	192.168.0.1	Jul 14 15:19:36 [RC]: SNTP SYN success ! Current timer is 2017-07-14 15:19:36
07-14-2017	15:18:22	Daemon.Notice	192.168.0.1	Jul 13 20:18:21 [DDNS]: DDNS client connect fault!
07-14-2017	15:15:29	Daemon.Notice	192.168.0.1	Jul 13 20:15:28 [RC]: SNTP SYN success ! Current timer is 2017-07-13 20:15:28
07-14-2017	15:11:23	Daemon.Notice	192.168.0.1	Jul 13 22:11:22 [RC]: SNTP SYN success ! Current timer is 2017-07-13 22:11:22
07-14-2017	15:10:20	Daemon.Notice	192.168.0.1	Jul 13 21:10:19 [RC]: SNTP SYN success ! Current timer is 2017-07-13 21:10:19
07-14-2017	15:08:37	Daemon.Notice	192.168.0.1	Jul 13 19:08:36 [RC]: SNTP SYN success ! Current timer is 2017-07-13 19:08:36
07-14-2017	15:04:30	Daemon.Notice	192.168.0.1	Jul 14 15:04:29 [DDNS]: DDNS client connect fault!
07-14-2017	15:02:58	Daemon.Notice	192.168.0.1	Jul 14 15:02:57 [DDNS]: DDNS client connect fault!
07-14-2017	14:57:01	Daemon.Notice	192.168.0.1	Jul 14 14:57:00 [DDNS]: DDNS client connect fault!
07-14-2017	14:55:15	Daemon.Notice	192.168.0.1	Jul 14 14:55:14 [RC]: SNTP SYN success ! Current timer is 2017-07-14 14:55:14
07-14-2017	14:52:15	Local7.Debug	127.0.0.1	Kiwi Syslog Server - Test message number 0001

### Method 3: E-mail Settings

**Step 1:** Setup the e-mail information as below:

Management >> System Log Save

---

**SysLog Settings**

Enable Logging to Syslog Server:  Disabled

---

**E-mail Settings**

Enable E-mail Notification:  Enabled

From E-mail Address:

To E-mail Address:

SMTP Server Address:

SMTP Server Port:

Enable Authentication:  Enabled

Account Name:

Password:

---

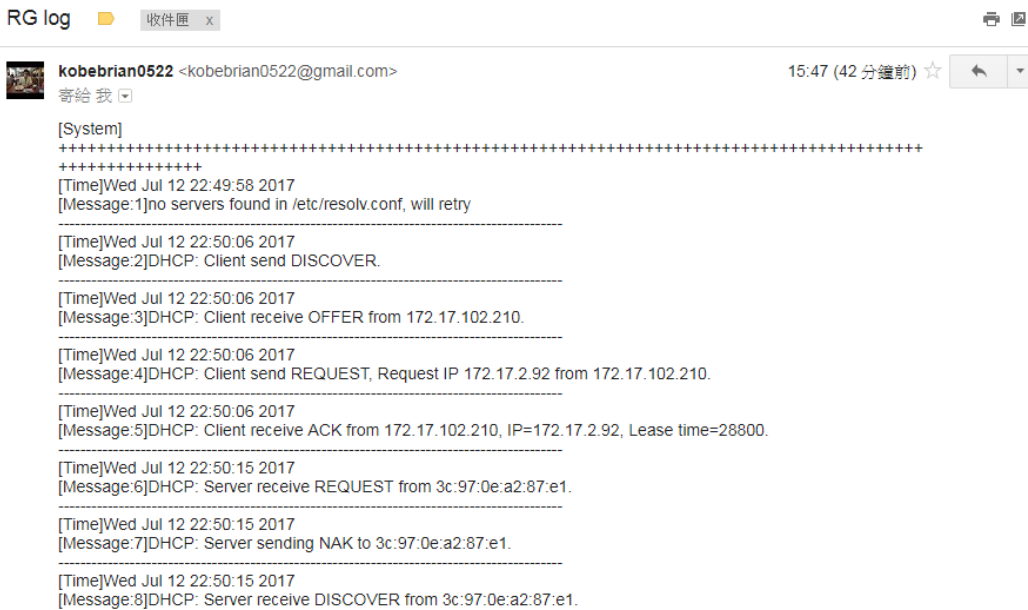
**E-mail Log When Full or On Schedule**

Send When Log Full:  Disabled

Send on Schedule:  Enabled

Schedule:  ▼

**Step 2:** You will receive the log email:

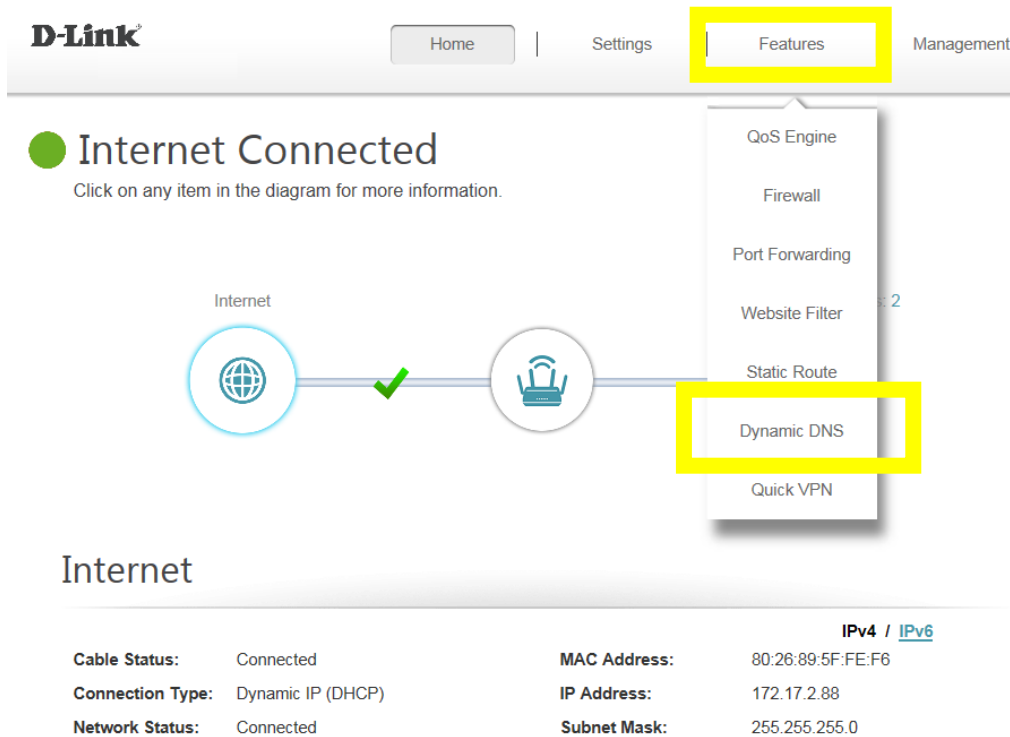


# DNS/DDNS

Q26: How do I configure Dynamic DNS on my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

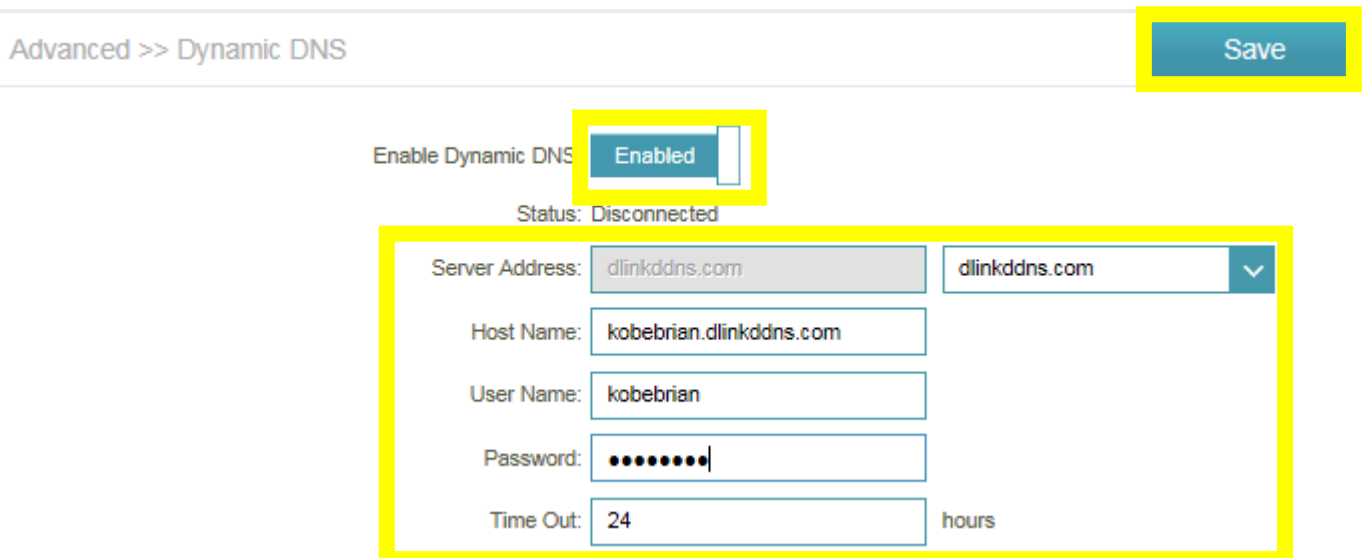
**Step 1: Click Features -> Dynamic DNS**



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Features' menu is open, showing options like QoS Engine, Firewall, Port Forwarding, Website Filter, Static Route, Dynamic DNS, and Quick VPN. The 'Dynamic DNS' option is highlighted with a yellow box. Below the navigation bar, there is a status indicator 'Internet Connected' with a green dot and a checkmark. A network diagram shows 'Internet' connected to the router. Below the diagram, there is a table of network information:

		IPv4 / IPv6	
Cable Status:	Connected	MAC Address:	80:26:89:5F:FE:F6
Connection Type:	Dynamic IP (DHCP)	IP Address:	172.17.2.88
Network Status:	Connected	Subnet Mask:	255.255.255.0

**Step 2: Enable Dynamic DNS, and enter your Dynamic DNS account information, then save:**










The screenshot shows the 'Advanced >> Dynamic DNS' configuration page. The 'Save' button is highlighted. The 'Enable Dynamic DNS' toggle is set to 'Enabled'. The status is 'Disconnected'. The configuration fields are highlighted with a yellow box:

Server Address:	<input type="text" value="dlinkddns.com"/>	<input type="text" value="dlinkddns.com"/>
Host Name:	<input type="text" value="kobebrrian.dlinkddns.com"/>	
User Name:	<input type="text" value="kobebrrian"/>	
Password:	<input type="password" value="••••••••"/>	
Time Out:	<input type="text" value="24"/>	hours

**Note:** To register to get the dlinkddns service, Please enter the website:

<https://www.dlinkddns.com/signin/>, then fill in the required information.

HOME	UPGRADE ACCOUNT	CHANGE EMAIL	CHANGE PASSWORD	SUPPORT
<p> <b>Reminder:</b> This service is for D-Link customers only. If you are not a D-Link user and you're looking for a way to remotely access your router, computer, etc.; then Dyn would love to offer you an <b>exclusive 25% off</b> our <b>Remote Access (DynDNS Pro) service</b>. You'll gain access to up to 30 hostnames per account and will never have to worry about your account expiring!</p>				HOW TO FAQ CONTACT LOST PASSWORD
<h2>New Account</h2>				
<b>Username</b>	<input type="text"/>			
<b>Password</b>	<input type="password"/>			
<b>Confirm Password</b>	<input type="password"/>			
<b>Email</b>	<input type="text"/>			
<b>Serial Number</b>	<input type="text"/>			
<b>MAC Address</b> Ex: 1A:2B:3C:4D:5E:6F	<input type="text" value="1A:2B:3C:4D:5E:6F"/>			
<div data-bbox="108 824 657 1043"> <input type="text" value="Type the text"/> <a href="#">Privacy &amp; Terms</a>   </div>				

## Q27: Why am I unable to register my device with dlinkddns?

When validating your D-Link device with dlinkddns, you may receive an "**Unknown Serial Number/Unknown MAC Address**" error.

Please confirm the information you are entering is correct. You can find the needed information on the product label of the back/bottom of the router/device.

**Note:** When entering the MAC address, you **MUST** enter it in the following format, including colons, **e.g. 12:34:56:78:91:01**

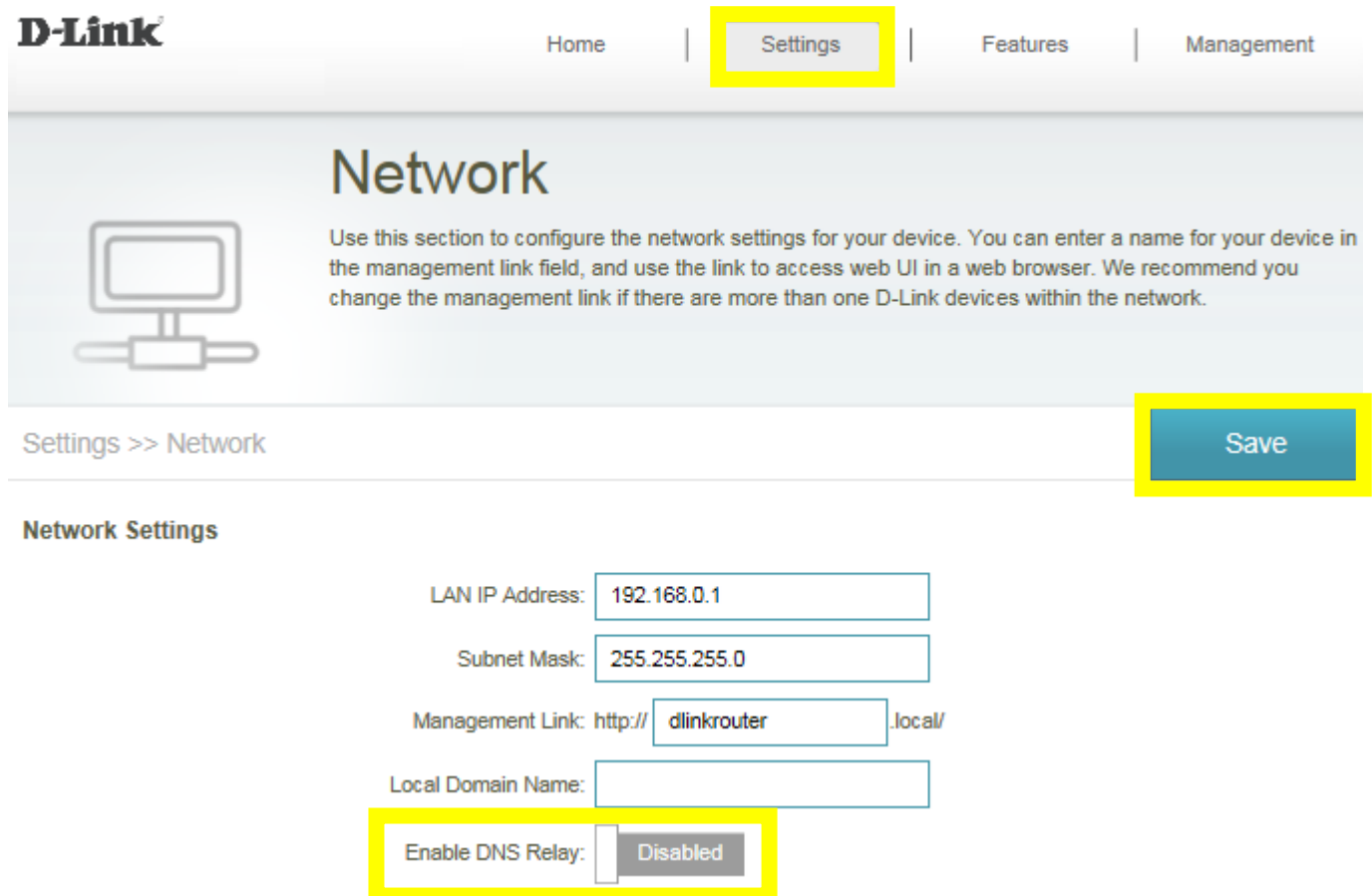


## Q28: How do I disable DNS relay?

If enabling DNS relay, your computers will use the router for a DNS server.

Please launch your browser and enter `http://dlinkrouter.local` or `http://192.168.0.1` into the address bar. Then login and follow the steps below:

**Step 1:** Click **Settings** -> **Network**, and click to disable DNS Relay, then click **Save**.



The screenshot shows the D-Link router's web interface. At the top, the 'Settings' menu item is highlighted with a yellow box. Below the navigation bar, the 'Network' section is visible, with a 'Save' button highlighted in a yellow box. The 'Network Settings' section contains several input fields: 'LAN IP Address' (192.168.0.1), 'Subnet Mask' (255.255.255.0), 'Management Link' (http://dlinkrouter.local/), and 'Local Domain Name'. The 'Enable DNS Relay' option is highlighted with a yellow box and is currently set to 'Disabled'.

**D-Link** Home | **Settings** | Features | Management

## Network

Use this section to configure the network settings for your device. You can enter a name for your device in the management link field, and use the link to access web UI in a web browser. We recommend you change the management link if there are more than one D-Link devices within the network.

Settings >> Network **Save**

### Network Settings

LAN IP Address:

Subnet Mask:

Management Link: http://  .local/

Local Domain Name:

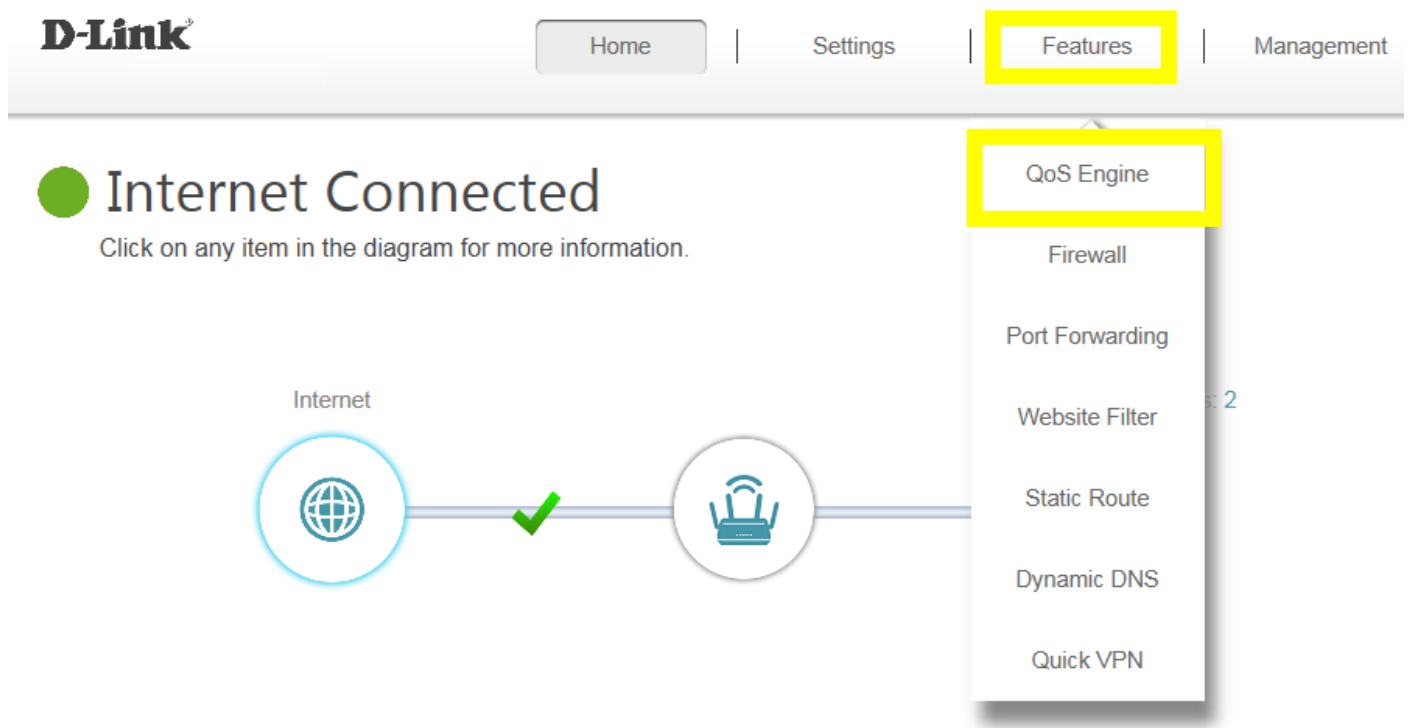
Enable DNS Relay:  Disabled

# QoS Setting

Q29: How do I configure QoS on my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click **Features** -> **QoS Engine**



The screenshot shows the D-Link router's web interface. At the top, there is a navigation bar with the D-Link logo on the left and four menu items: Home, Settings, Features, and Management. The 'Features' menu item is highlighted with a yellow box. Below the navigation bar, there is a status section titled 'Internet Connected' with a green dot and a green checkmark. Below this, there is a diagram showing a connection between 'Internet' (represented by a globe icon) and the router (represented by a router icon). A green checkmark is placed on the line connecting them. To the right of the diagram, a dropdown menu is open, showing a list of features: QoS Engine, Firewall, Port Forwarding, Website Filter, Static Route, Dynamic DNS, and Quick VPN. The 'QoS Engine' option is highlighted with a yellow box. Below the diagram, there is a section titled 'Internet' with a table of network status information.

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** To assign a priority level to a device, drag the device card from the **Connected Clients** list to an empty slot and release the mouse button. The card will move to the priority slot. If you want to remove a priority assignment from a device and return it to the All Devices list, click the cross icon in the top right of the device card.

- A maximum of one device can be assigned **Highest** priority.
- A maximum of two devices can be assigned **High** priority.
- A maximum of eight devices can be assigned **Medium** priority.

Advanced >> QoS Engine



Download Speed (Mbps):  ⓘ  
Upload Speed (Mbps):

Connected Clients

< 08384NBWIN7  
FLEXTRONICS  
192.168.0.101 android-227712f7...  
HTC  
192.168.0.181 >

Drag the device cards above to the priority boxes below.

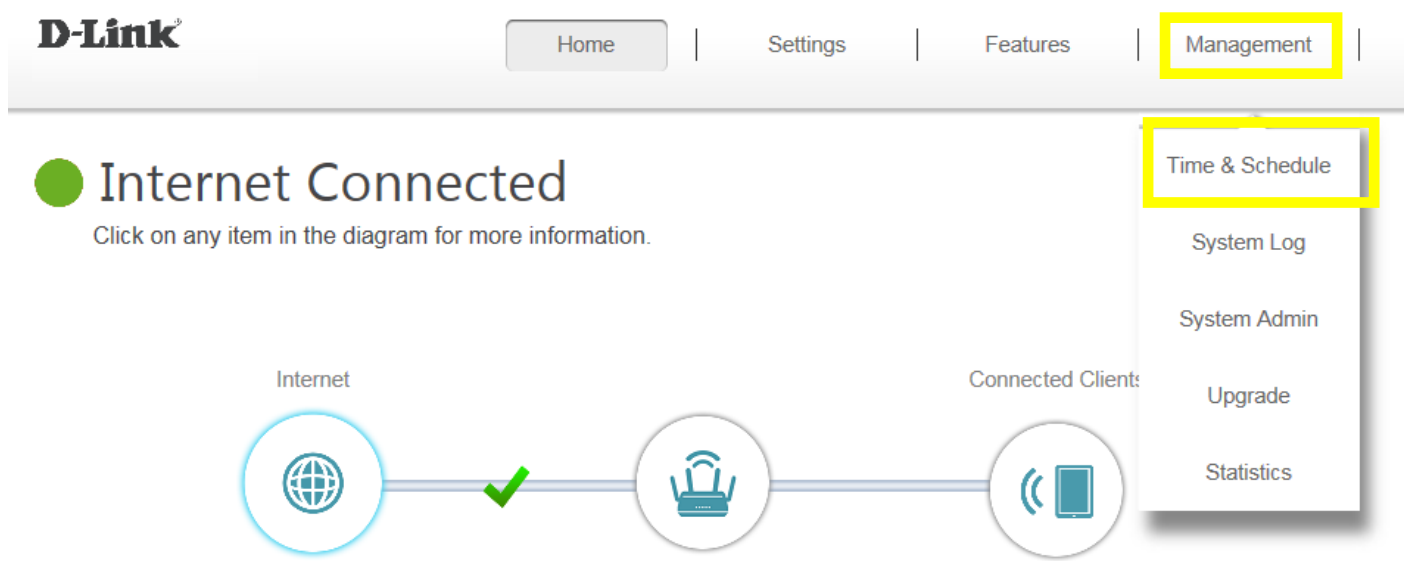
**Highest** **High** **Medium**

# Time/Schedule

Q30: How do I configure the time on my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1:** Click on the **Maintenance -> Time & Schedule**



The screenshot shows the D-Link router management interface. At the top, there is a navigation bar with the D-Link logo and menu items: Home, Settings, Features, and Management. The Management menu is highlighted with a yellow box. Below the navigation bar, there is a status section titled "Internet Connected" with a green circle icon and a sub-message: "Click on any item in the diagram for more information." Below this, there is a network diagram showing three components: Internet (globe icon), a router (router icon), and Connected Clients (phone icon). A green checkmark is placed between the Internet and the router. To the right of the diagram, a dropdown menu is open, showing options: Time & Schedule (highlighted with a yellow box), System Log, System Admin, Upgrade, and Statistics.

## Internet

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

**Step 2:** By default, the D-Link NTP server is enabled. Specify the Time Zone if you need to synchronize the time with the specific region, and enable daylight saving if required, and click **Save**.

**D-Link** Home | Settings | Features | **Management**

## Time

Your router's internal clock is used for data logging and schedules for features. The date and time can be synchronized with a public time server on the Internet, or set manually.

Management >> System Time [Schedule](#) **Save**

### Time Configuration

Time Zone: (GMT+08:00) Taipei

Time: 2017/07/04 01:37:21 AM

Enable Daylight Saving: Disabled


### Automatic Time Configuration

Update Time Using an NTP Server: Enabled

NTP Server: D-Link NTP Server

**Note:** To manually specify the time, change the automatic time configuration to **Disabled**, then adjust time as needed and click **Save**.

# Time



Your router's internal clock is used for data logging and schedules for features. The date and time can be synchronized with a public time server on the Internet, or set manually.

Management >> System Time [Schedule](#) **Save**

## Time Configuration

Time Zone: (GMT+08:00) Taipei

Time: 2017/07/04 01:38:29 AM

Enable Daylight Saving: Disabled

---

## Automatic Time Configuration

Update Time Using an NTP Server: Disabled

---

## Manual Time Configuration

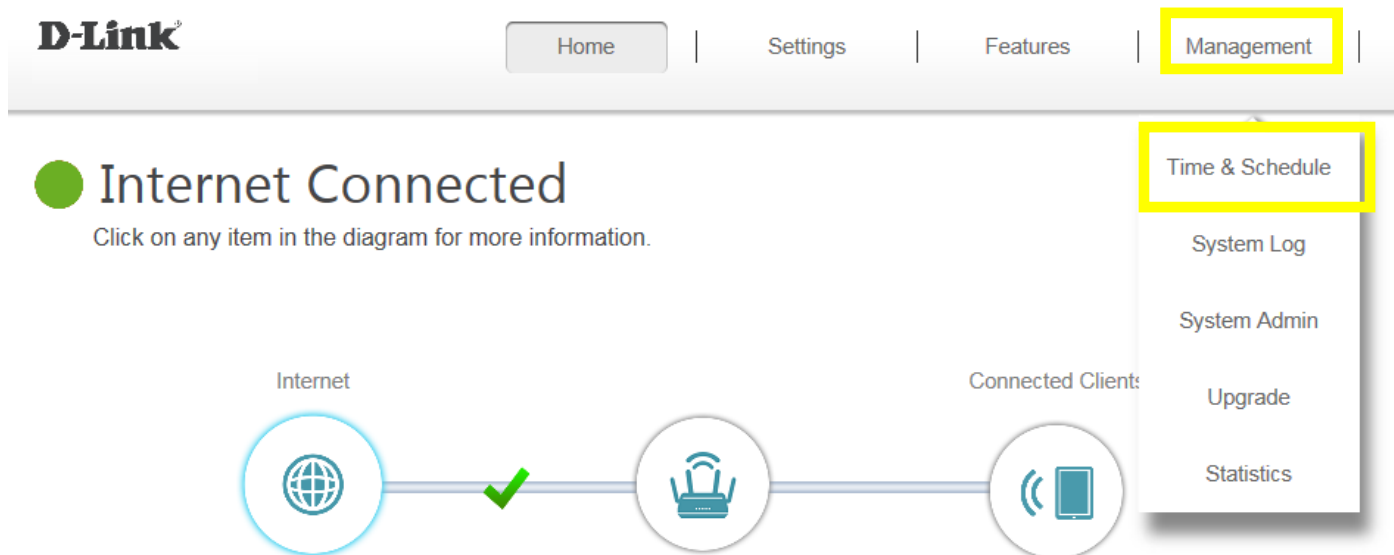
Date: 2017 07 04 (Year/ Month/ Day)

Time: 09 35 (Hour/ Minute)

## Q31: How do I create schedule on my router?

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:


**Step 1:** Click on the **Maintenance -> Time & Schedule**



The screenshot shows the D-Link router's web interface. At the top, the navigation menu includes 'Home', 'Settings', 'Features', and 'Management'. The 'Management' menu is expanded, showing options like 'Time & Schedule', 'System Log', 'System Admin', 'Upgrade', and 'Statistics'. Below the navigation, a status bar indicates 'Internet Connected' with a green checkmark. A diagram shows the connection path: Internet (globe icon) -> Router (router icon) -> Connected Clients (phone icon). Below this, the 'Internet' status is detailed with the following information:

Internet	
<b>Cable Status:</b>	Connected
<b>Connection Type:</b>	Dynamic IP (DHCP)
<b>Network Status:</b>	Connected
<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>IP Address:</b>	172.17.2.88
<b>Subnet Mask:</b>	255.255.255.0


**Step 2: Click Schedule:**



Home | Settings | Features | Management

# Time

Your router's internal clock is used for data logging and schedules for features. The date and time can be synchronized with a public time server on the Internet, or set manually.



Management >> System Time [Schedule](#) Save



**Step 3: Click Add Rule:**

**D-Link** Home | Settings | Features | Management

# Schedule

Some features, such as the firewall and website filters, can be turned on or off based on a schedule. One common use of schedules is to control access to the Internet by a specified device during specified time periods.

Management >> Schedule Time Save

Name	Schedule	Edit	Delete
------	----------	------	--------

**Add Rule**

Remaining: 10

**Step 4:** Create your Schedule and click **Apply**. The example below shows the scheduled time from 8:00-19:00.

Name:  ✕

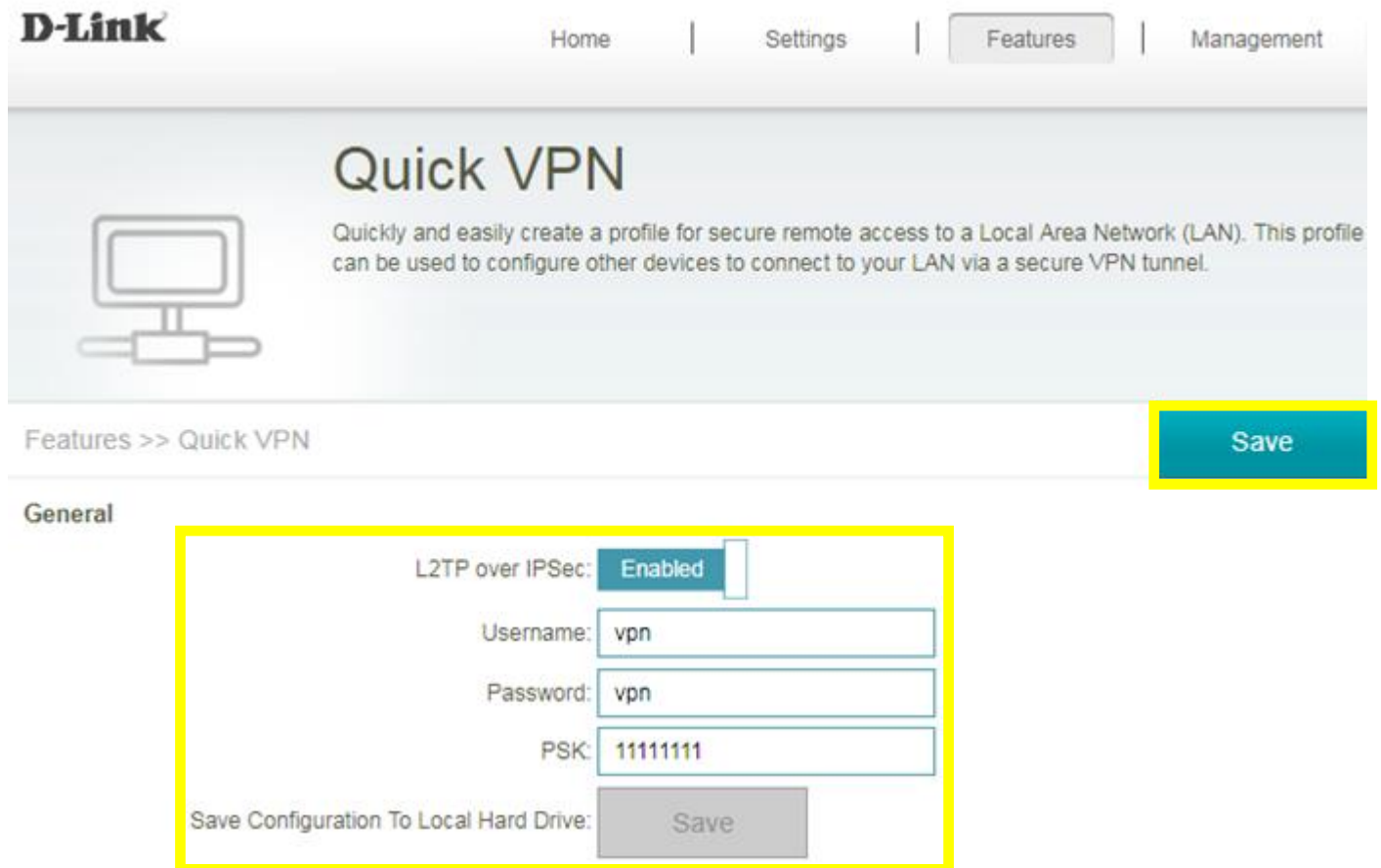
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon									8:00 - 19:00										✕					
Tue									8:00 - 19:00										✕					
Wed									8:00 - 19:00										✕					
Thu									8:00 - 19:00										✕					
Fri									8:00 - 19:00										✕					
Sat									8:00 - 19:00										✕					
Sun									8:00 - 19:00										✕					

**Apply**

# VPN Setting

Q32: How to setup VPN connection?

First and foremost, please enable L2TP over IPSec, and setup Username/password/PSK to vpn/vpn/11111111, respectively:

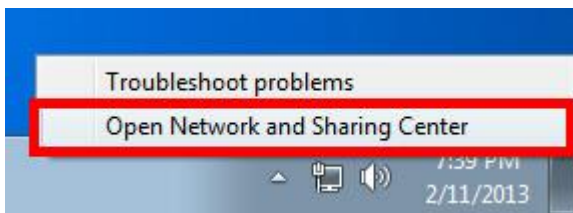


The screenshot shows the D-Link web interface for VPN configuration. At the top, there is a navigation bar with 'Home', 'Settings', 'Features', and 'Management'. The 'Features' tab is selected. Below the navigation bar, there is a 'Quick VPN' section with a monitor icon and a description: 'Quickly and easily create a profile for secure remote access to a Local Area Network (LAN). This profile can be used to configure other devices to connect to your LAN via a secure VPN tunnel.' Below this section, there is a 'Features >> Quick VPN' breadcrumb and a 'Save' button. The 'General' section is highlighted with a yellow box and contains the following configuration options:

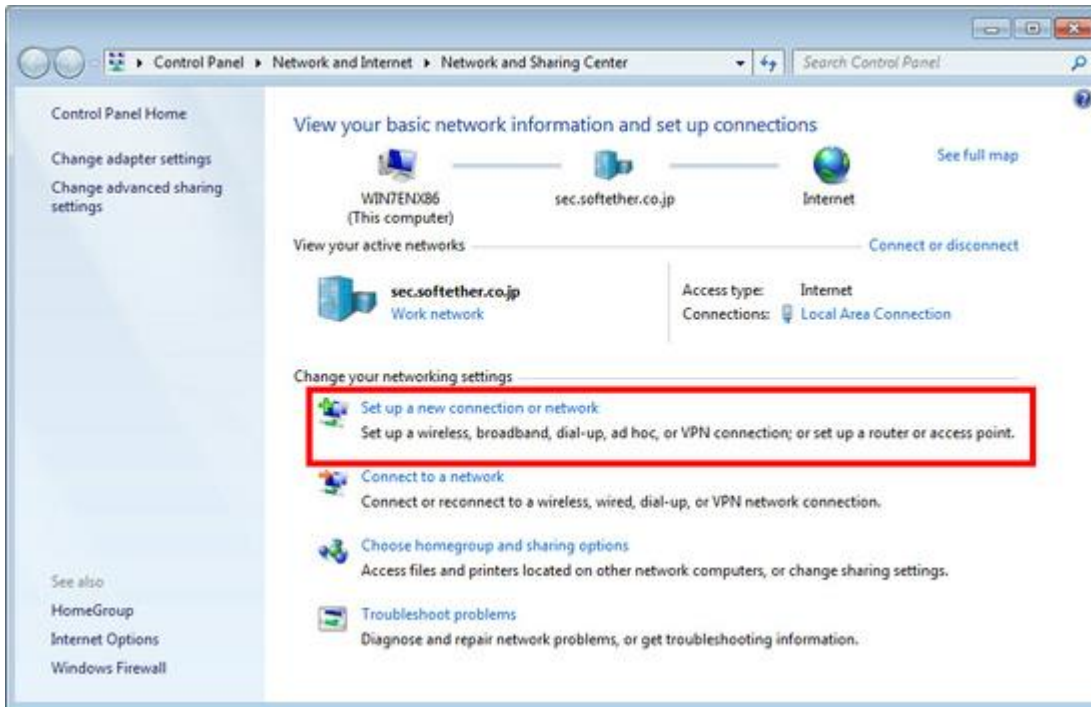
- L2TP over IPSec:  Enabled
- Username:
- Password:
- PSK:
- Save Configuration To Local Hard Drive:

1. Windows client:

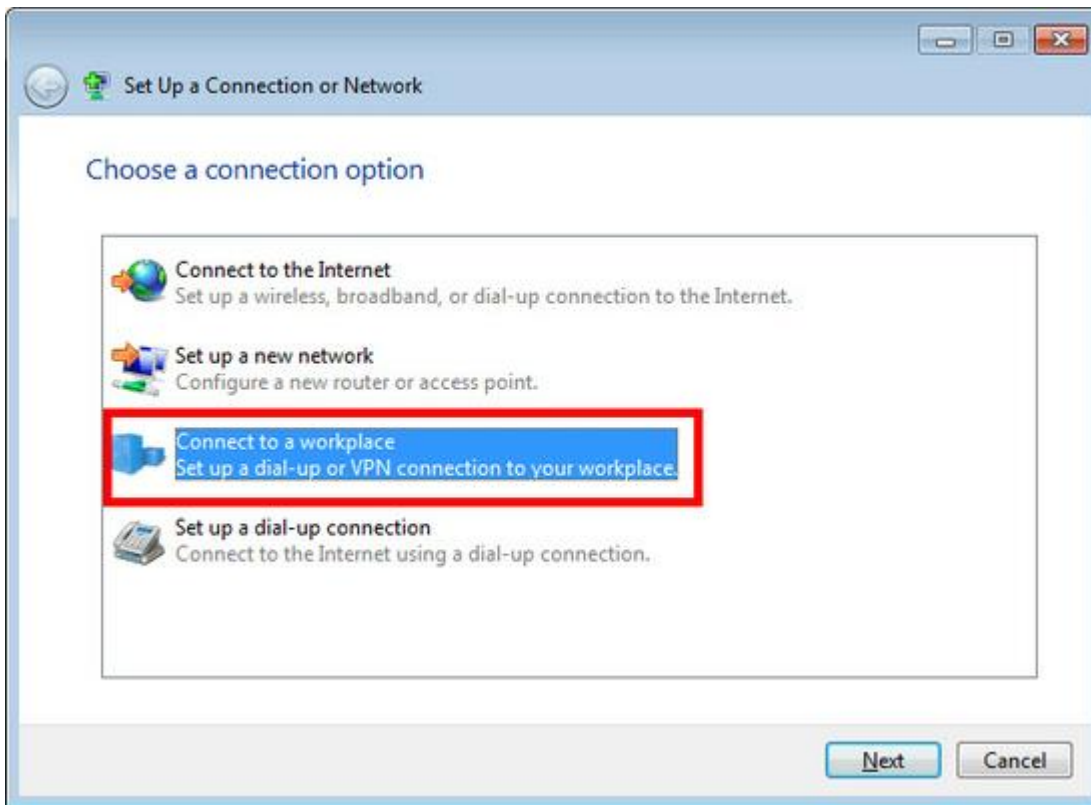
**Step 1:** Initial configurations (only once at the first time): Right-click the network icon on the bottom-right side of Windows screen, and click "Open Network and Sharing Center".



**Step 2:** Click "Set up a new connection or network" on the "Network Sharing Center":



**Step 3:** Select "Connect to a workplace":



**Step 4:** Select "Use my Internet connection (VPN)":



**Step 5:** You have to input the destination SoftEther VPN Server's IP address or hostname here:

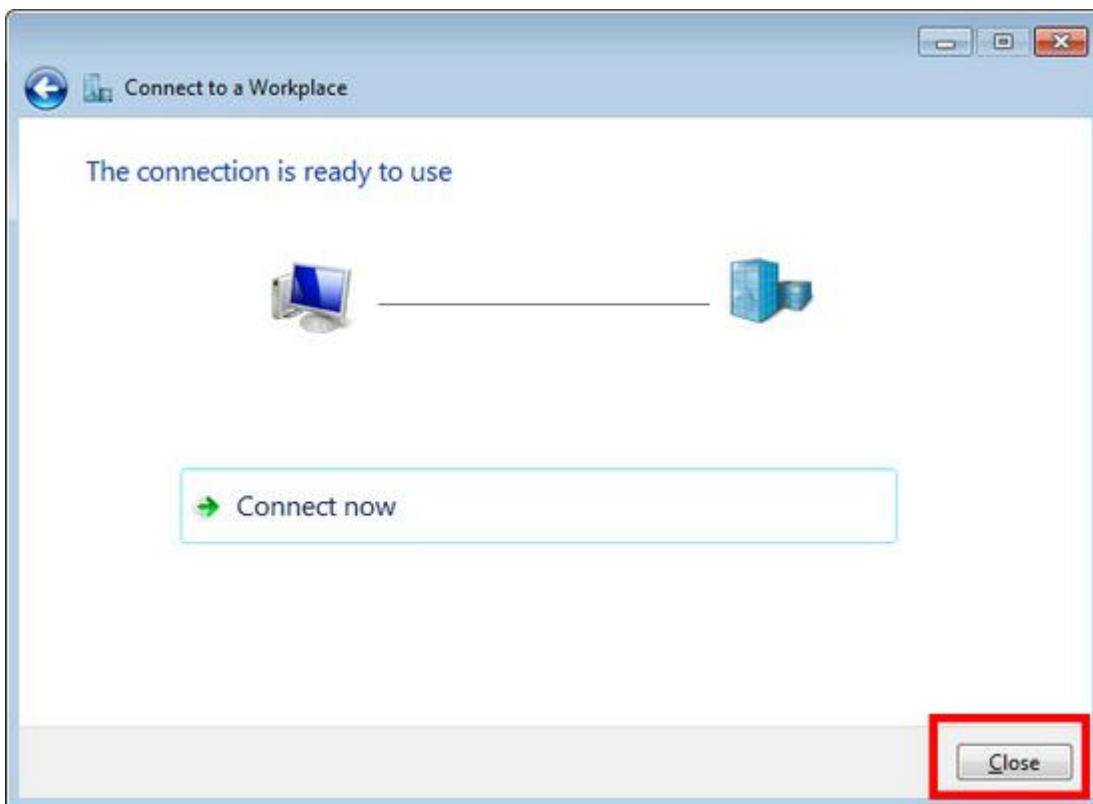


Enter either hostname or IP address on the "Internet address" field on the configuration wizard.

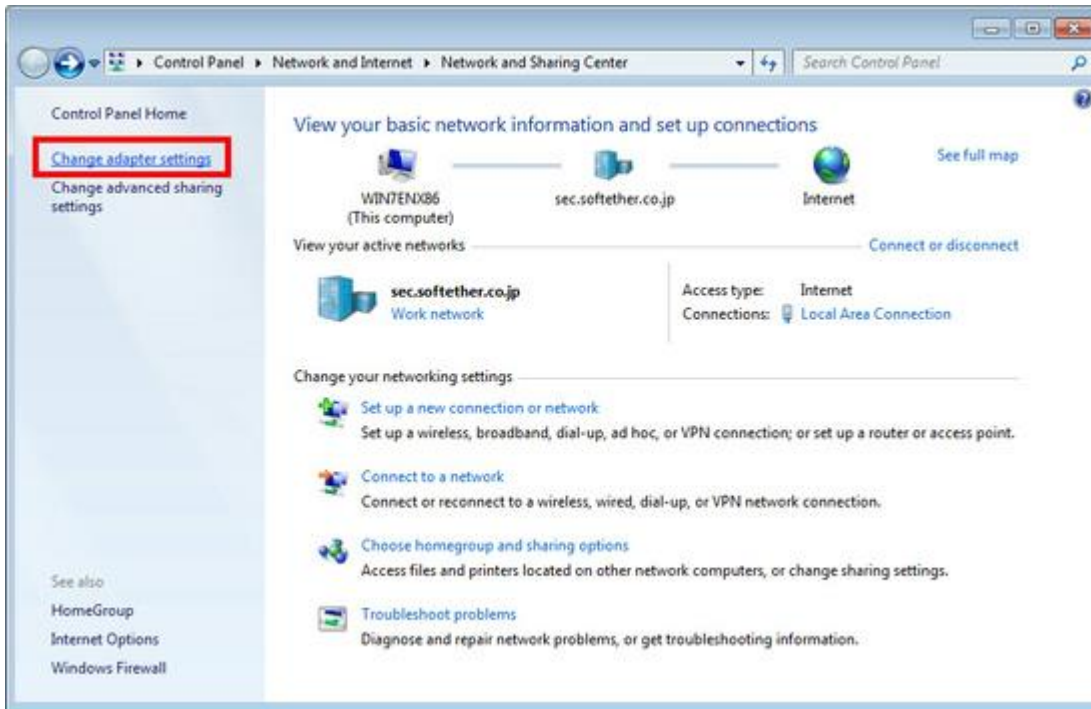
**Step 6:** Type your username and password you set on the router:



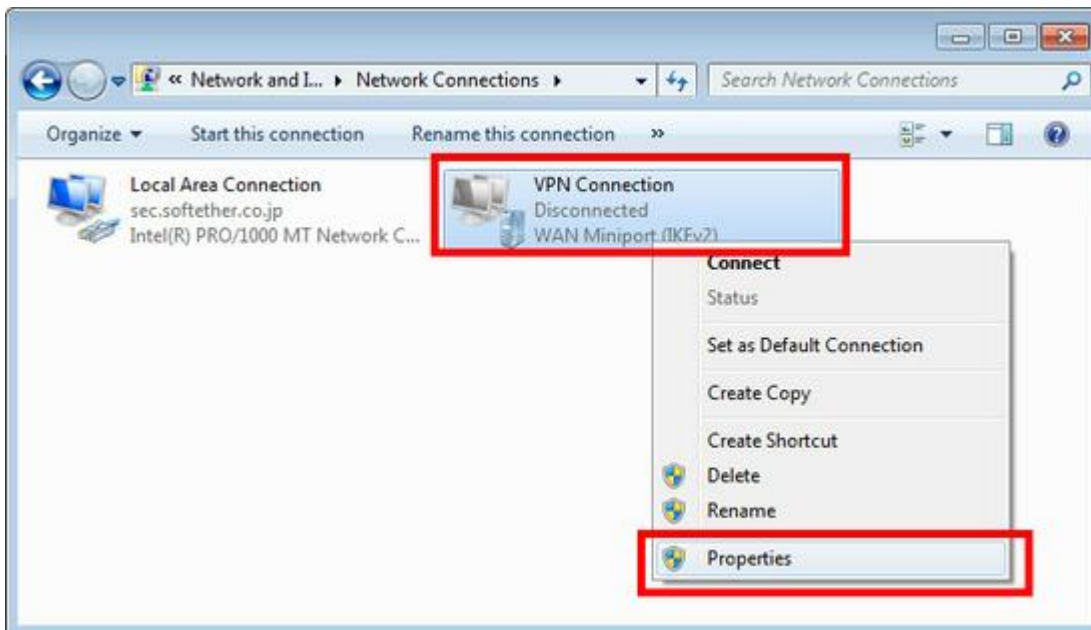
**Step 7:** When "The connection is ready to use" message appears, click the "**Close**" button. Do not click the "Connect now" button.



**Step 8:** Go to "Network and Sharing Center" and click "Change adapter settings":



**Step 9:** The currently defined VPN connection settings are listed. Right click the icon you created in the previous step, and click "Properties":



**Step 10:** On the Properties screen, switch to the "Security" tab. (In Windows XP, switch to the "Network" tab.) Choose "Layer 2 Tunneling Protocol with IPsec (L2TP/IPSec)" on the "Type of VPN" drop-down list.



The following screen will appear. Click "Use preshared key for authentication" and input the pre-shared key on the "Key" field.

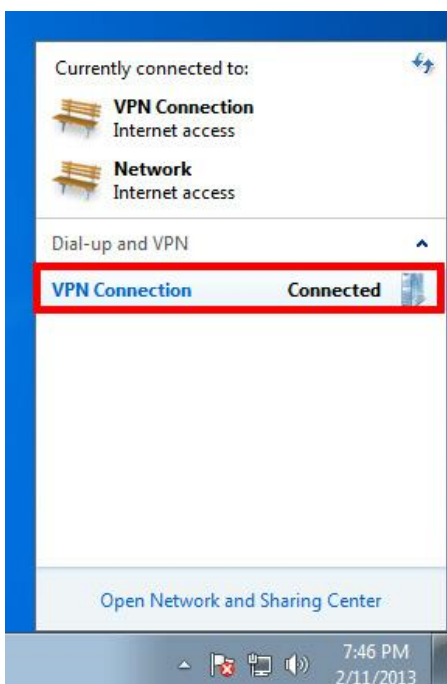




**Step 11:** Connect to the VPN Server: Double-click the created VPN connection setting, the below screen will appear. "User name" and "Password" fields should be filled automatically if you enable password-saving options in previous steps. If not, input both "User name" and "Password" fields. Click the "Connect" button to start the VPN connecting attempts.

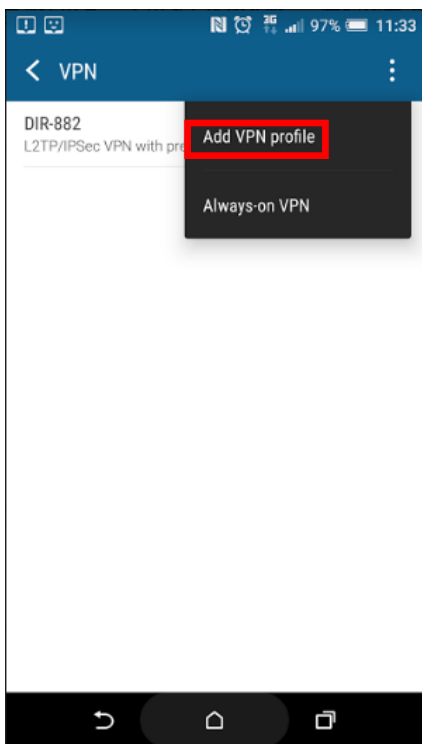


**Step 12:** If the VPN connection is successfully established, a VPN connection icon will be listed on the screen which appears when you click the network icon on the bottom-right of Windows screen. The status of the VPN connection icon should be "Connected".

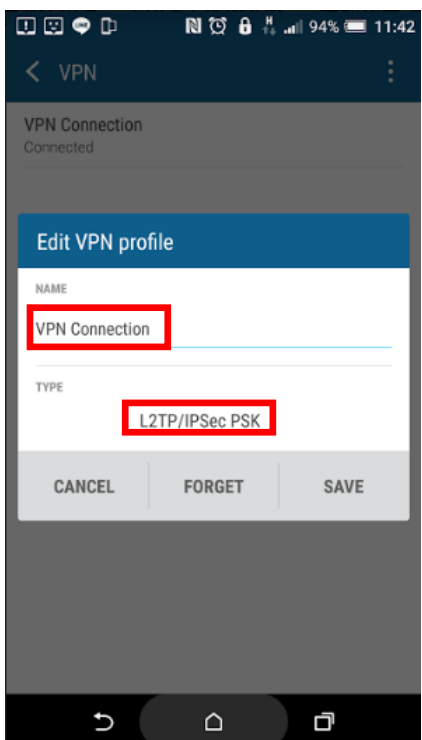


2. Mobile client (Android):

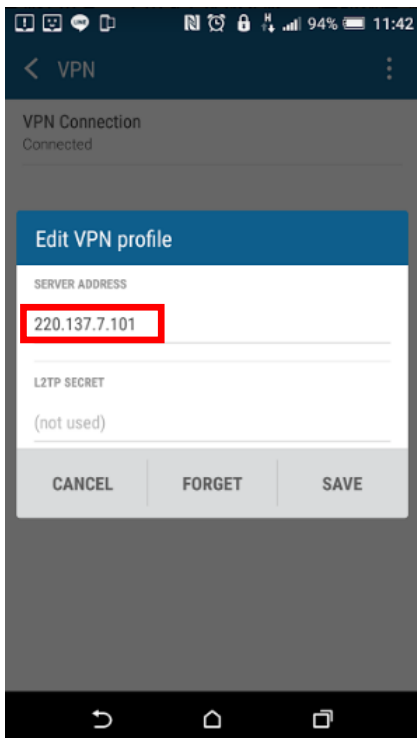
**Step 1:** Add new VPN profile:



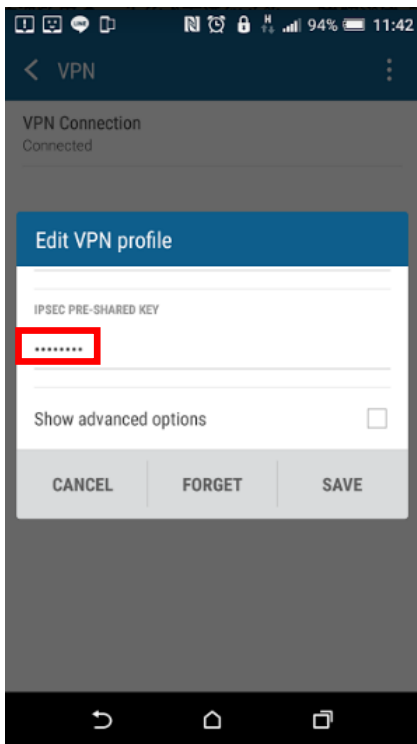
**Step 2:** Edit the name of VPN connection and select VPN type as **L2TP/IPSec PSK**:



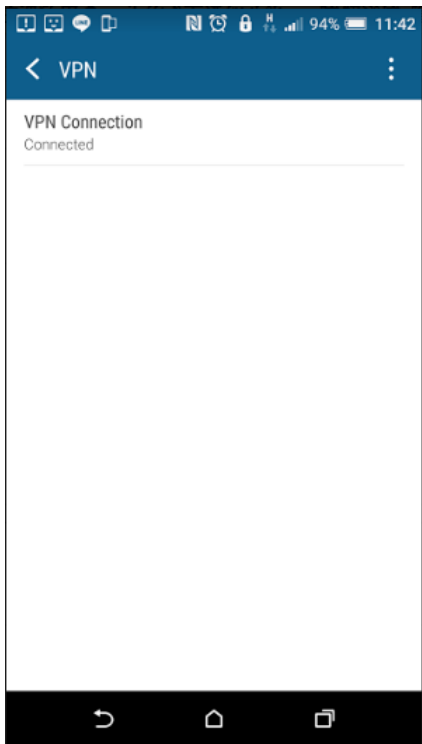
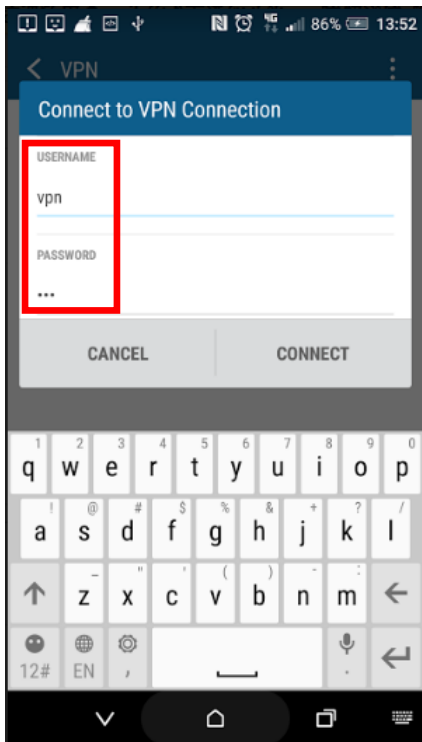
**Step 3:** Fill in the WAN IP address:



**Step 4:** Fill in the Pre-shared key:



**Step 5:** Connect to your VPN server:



**Step 6:** Make sure if you can ping your client under DUT:

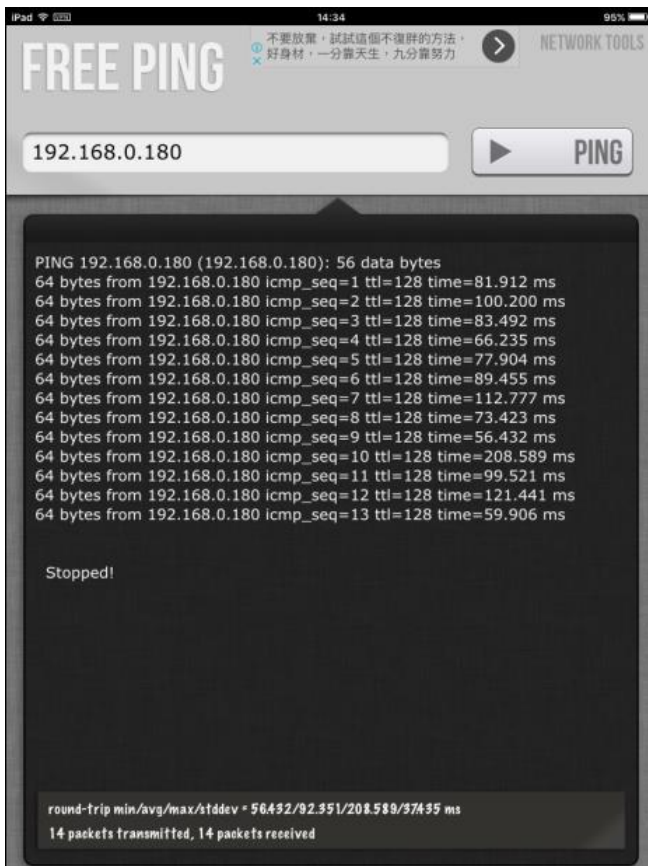


### 3. Mobile client (iOS):

**Step 1:** Setup the required information for VPN connection:



**Step 2:** Setup the required information for VPN connection:

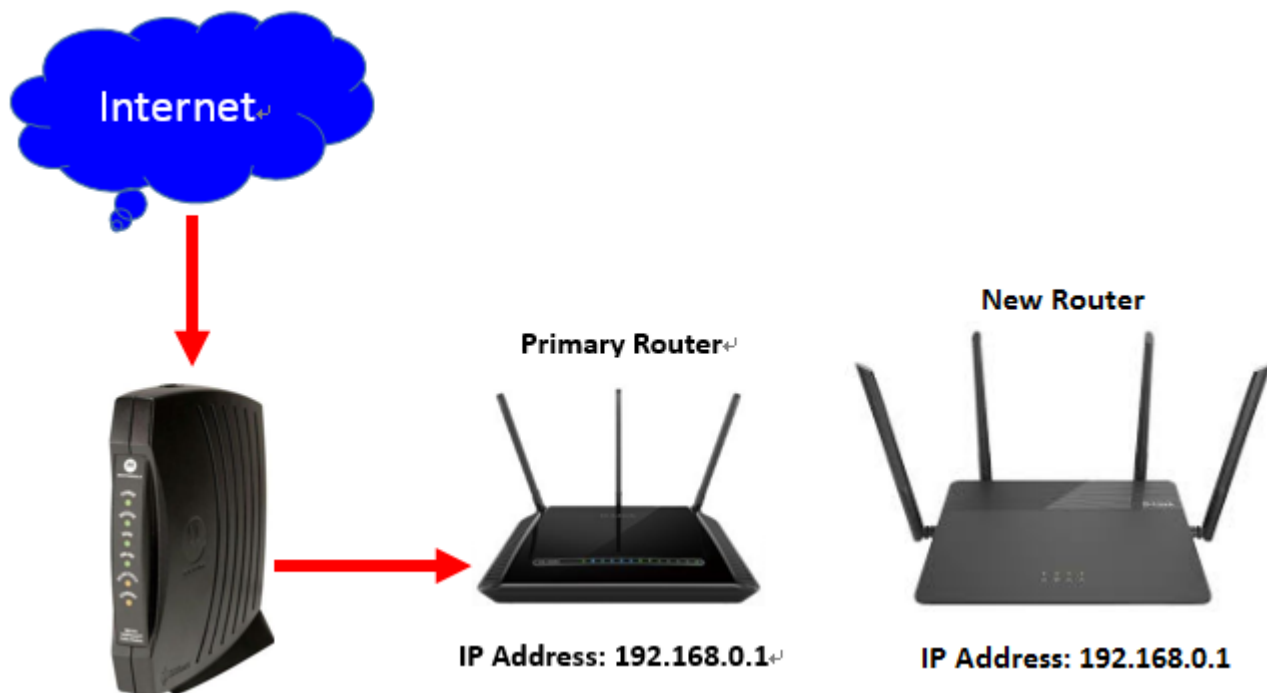


# Advanced Application

Q33: How do I connect two routers together?

Connecting multiple routers together may be necessary if you have one of the following issues:

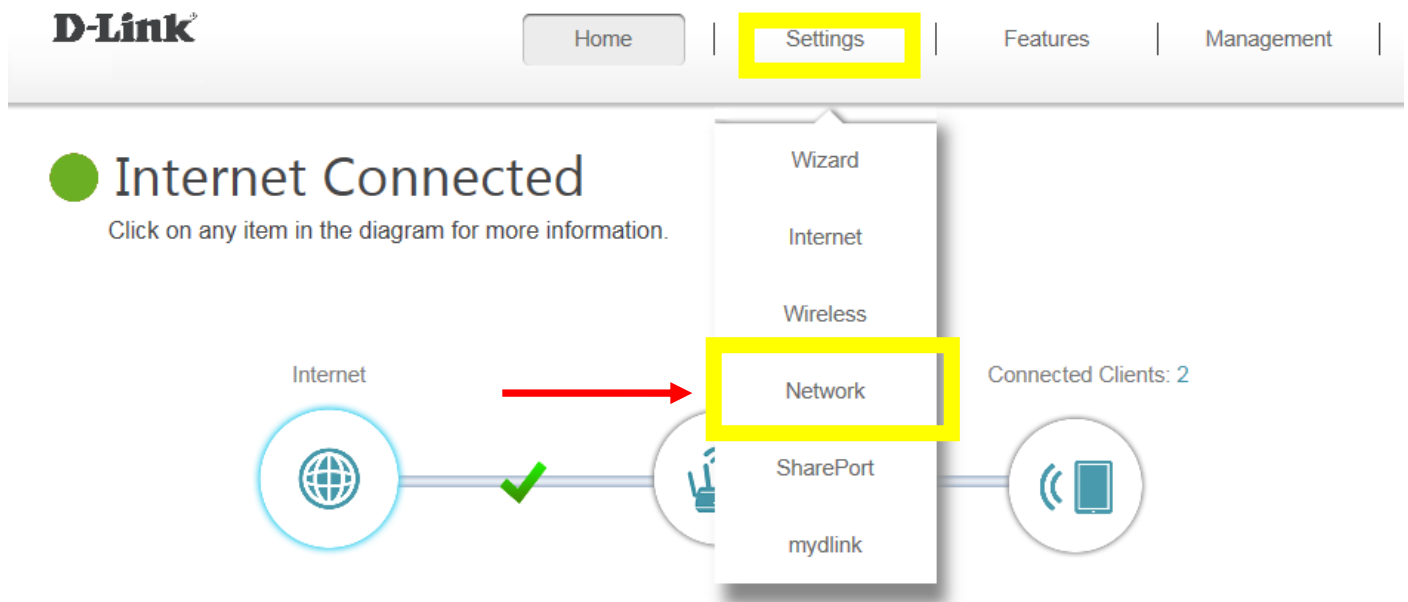
- Your Internet provider has provided you a Modem/Router (two in one) and you want to connect a new router to it.
- You want to expand the amount of Ethernet ports in your network (without a switch)
- You want to extend the range of the wireless signal in your home (by using the 2nd router as an access point)



**Note: DO NOT** Connect the routers together until these settings have been changed.

Please launch your browser and enter <http://dlinkrouter.local> or <http://192.168.0.1> into the address bar. Then login and follow the steps below:

**Step 1: Change the IP address to 192.168.0.2.** Then, click advanced settings on the bottom right, and **Disable the DHCP Server.**



## Internet

<b>Cable Status:</b>	Connected	<b>MAC Address:</b>	80:26:89:5F:FE:F6
<b>Connection Type:</b>	Dynamic IP (DHCP)	<b>IP Address:</b>	172.17.2.88
<b>Network Status:</b>	Connected	<b>Subnet Mask:</b>	255.255.255.0

[IPv4](#) / [IPv6](#)





**Network Settings**

LAN IP Address:

Subnet Mask:

Management Link: http://  .local/

Local Domain Name:

Enable DNS Relay:  Enabled

[Advanced Settings...](#)

**DHCP Server**

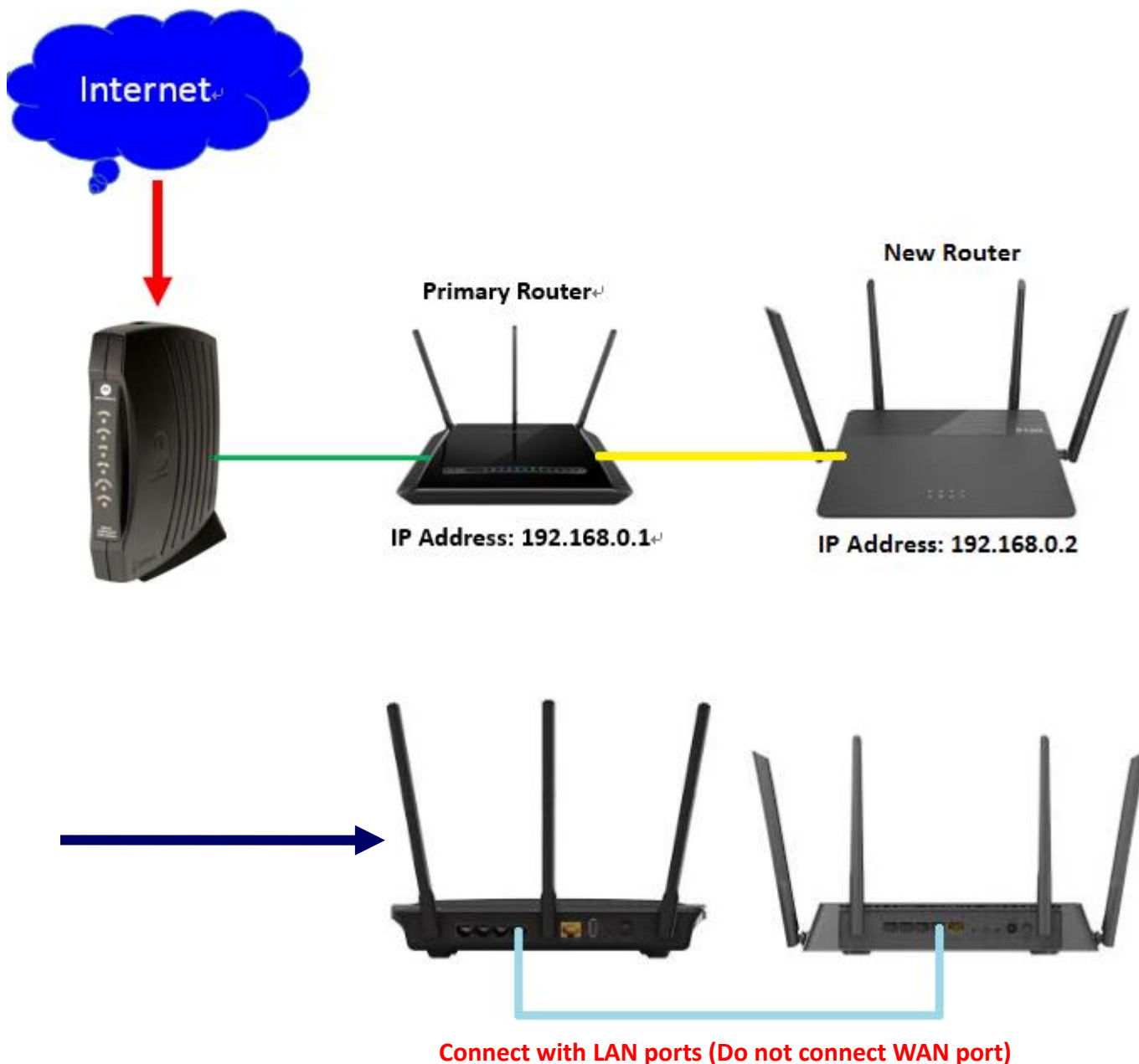
Status:  Disabled

DHCP IP Address Range: 192.168.0.  to 192.168.0.

DHCP Lease Time:  minutes

Always Broadcast:  Disabled  
(compatibility for some DHCP Clients)

**Step 2:** Connect a cable from a LAN port (1,2,3,4) on your Primary Router to a LAN port (1,2,3,4) on your new router.



The Setup is now complete. If you now want to configure the wireless settings on your "new" router, go to this address: <http://192.168.0.2>.

**Note: NAT**, defined in RFC 3022, allows a host that does not have a valid, registered, globally unique IP address to communicate with other hosts through the Internet. The hosts might be using private addresses or addresses assigned to another organization. In either case, NAT allows these addresses that are not Internet-ready to continue to be used and still allows communication with hosts across the Internet.