**Step 1.** Before you open ports in your router set the computer (or the device) which requires ports to be opened for, with a static IP address. You can choose any IP address from the range of addresses you are using on your local network, as soon as it is not used by any other device. The default range is from 192.168.0.2 to 192.168.0.254. In our example we are using 192.168.0.99.

**Windows XP:** Control Panel > Network Connections > Local Area Connection > Properties > Internet protocol TCP/IP > Properties

**Windows Vista:** Control Panel > Network and Internet > [Network and Sharing Centre] > View Network Status and Tasks > View Status > Properties > Internet Protocol v4 > Properties

Select the "Use the following IP address" option:

IP address: 192.168.0.99 Subnet mask: 255.255.255.0 Default Gateway: 192.168.0.1 (your router's address) DNS: 192.168.0.1 and 61.88.88.88 (or whichever your provider is using)

Internet Protocol (TCP/IP) Prope	rties 🔹 🛛 🔋 🔀			
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
Obtain an IP address automatically	,			
─⊙ Use the following IP address: ──				
IP address:	192.168.0.99			
S <u>u</u> bnet mask:	255.255.255.0			
<u>D</u> efault gateway:	192.168.0.1			
Obtain DNS server address autom	atically			
Output the following DNS server add ■ Output the following DNS server add	resses:			
Preferred DNS server:	192.168.0.1			
<u>A</u> lternate DNS server:	61 . 88 . 88 . 88			
	Ad <u>v</u> anced			
	OK Cancel			

Now open the necessary ports in your router and redirect the traffic to the 192.168.0.99 address. Here are the steps:

**Step 2.** Open your web browser and enter the IP address of the router (http://192.168.0.1). Enter user name and password (default username "admin" and password is blank (nothing)).

Attp://192.168.0.1 - Microsoft Internet Explorer provided by D-Link Australia
<u>File Edit View Favorites I</u> ools <u>H</u> elp
Addres 🙆 http://192.168.0.1
Connect to 192.168.0.1
DI-524
Password:
Remember my password
OK Cancel

Step 3. Click on Advanced at the top and then click Virtual Server.

anding retworks for People			802.11	g/2.4GHz	Wireless	Route	er
01-524	Home	Advan	ced	Fools	Status	) •	lelp
DI 324	Virtual Server Virtual Server is	used to allow I	nternet users	access to LAN se	ervices.		
		O Enable	d 🔿 Disable	ed			
Virtual Server	Name	<u></u>					
	Private IP	192.168. 0					
Application	Protocol Type	ТСР 💌					
	Private Port						
Filter	Public Port						
	Schedule	O Aburrur	a				
Firewall	otheddle		Tine - 00		. 00		
		U From					
DDNS			day	Y 10 Sun Y	-	-	-
Donto					<b>S</b>	- 23	G
DMZ					Apply	Cancel	He
	Virtual Server	List					
Performance	Name		Private IP	Protocol	Schedule		Secto
	Virtual Serve	r FTP	0.0.0.0	TCP 21 / 21	always		
							101-1



Step 4. Click the "Enabled" box.

- Name: Enter a name for this entry (e.g. Game)

- **Private IP**: Enter the IP address of the computer you want to open the ports for (the one you have set in Step 1).

- Protocol Type: Select the necessary protocol.

- **Private Port**: Enter the port or ports you want to open (a range of ports can be specified as 8081-8088)

- Public Port: Enter the port or ports you want to open (same as above).
- Schedule: click Always or set a schedule.

Click Apply.

Virtual Server Virtual Server is	used to allow Internet users access to LAN services.
	Enabled O Disabled
Name	Game
Private IP	192.168. 0 .99
Protocol Type	тср 💌
Private Port	8081
Public Port	8081
Schedule	( Always
	🔿 From 🛛 Time 00 💌 00 💌 To 00 💌 00 💌
	day Sun 💙 To Sun 👻
	Apply Cancel Help

## Note 1:

## If you have an ADSL modem/router, please make sure it is running in Bridge Mode.

Most ADSL modems nowadays have NAT enabled. Which means that in order to open ports, you not only need to open them in your router but also in your modem. When opening ports in the modem redirect the traffic to your router's WAN IP address.

The easiest way of setting your modem up is to switch it to "**Bridge Mode**" so you do not have to open ports in the modem. With this setup you just need to open ports in your router using the steps above.

**Note 2:** Because routers use NAT (Network Address Translation), you can only open a specific port to one computer at a time. For example: If you have 2 Web servers on your network, you cannot open port 80 to both computers. You will need to configure 1 of the web servers to use port 81. Now you can open port 80 to the first computer and then open port 81 to the other computer.

**Note 3:** It is quite common for Internet Service Providers to block common ports like 80, 21, 25. If you are having troubles running services on these ports please contact your provider.

