

Using the Configuration Menu (continued)

Advanced > Virtual Server

The screenshot shows the D-Link DI-704P Ethernet Broadband Router configuration interface. The top navigation bar includes tabs for Home, Advanced (selected), Tools, Status, and Help. On the left, a sidebar contains buttons for Virtual Server (highlighted), Application, Filter, Firewall, SNMP, DDNS, Routing, and DMZ. The main content area is titled 'Virtual Server' and includes a description: 'Virtual Server is used to allow Internet users access to LAN services.' Below this, there are configuration options: a radio button to enable or disable the feature, a text field for Name, a text field for Private IP (set to 192.168.0.), a dropdown for Protocol Type (set to TCP), text fields for Private Port and Public Port, and a schedule section with radio buttons for 'Always' and 'From' (with time and day selectors). At the bottom right of the configuration area are 'Apply', 'Cancel', and 'Help' buttons. Below the configuration area is a 'Virtual Server List' table.

Name	Private IP	Protocol	Schedule
<input type="checkbox"/> Virtual Server FTP	0.0.0.0	TCP 21 / 21	always
<input type="checkbox"/> Virtual Server HTTP	0.0.0.0	TCP 80 / 80	always
<input type="checkbox"/> Virtual Server HTTPS	0.0.0.0	TCP 443 / 443	always
<input type="checkbox"/> Virtual Server DNS	0.0.0.0	UDP 53 / 53	always
<input type="checkbox"/> Virtual Server HTTP	0.0.0.0	TCP 25 / 25	always
<input type="checkbox"/> Virtual Server POP3	0.0.0.0	TCP 110 / 110	always
<input type="checkbox"/> Virtual Server Telnet	0.0.0.0	TCP 23 / 23	always
<input type="checkbox"/> IPSec	0.0.0.0	UDP 500 / 500	always
<input type="checkbox"/> PPTP	0.0.0.0	TCP 1723 / 1723	always
<input type="checkbox"/> test	192.168.0.89	TCP 87 / 87	always

The DI-704P can be configured as a virtual server so that remote users accessing Web or FTP services via the public IP address can be automatically redirected to local servers in the LAN (Local Area Network). The DI-704P firewall feature filters out unrecognized packets to protect your LAN network so all computers networked with the DI-704P are invisible to the outside world. If you wish, you can make some of the LAN computers accessible from the Internet by enabling *Virtual Server*. Depending on the requested service, the DI-704P redirects the external service request to the appropriate server within the LAN network.

Using the Configuration Menu (continued)

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The DI-704P is also capable of port-redirection meaning incoming traffic to a particular port may be redirected to a different port on the server computer. Each virtual services that are created will be listed at the bottom of the screen in the Virtual Servers List. There are already pre-defined virtual services already in the table. You may use them by enabling them and assigning the server IP to use that particular virtual service.

Name:

The name referencing the virtual service.

Private IP:

The server computer in the LAN (Local Area Network) that will be providing the virtual services.

Private Port:

The port number of the service used by the Private IP computer.

Protocol Type:

The protocol used for the virtual service.

Public Port:

The port number on the WAN side that will be used to access the virtual service.

Schedule:

The schedule of time when the virtual service will be enabled. The schedule may be set to Always, which will allow the particular service to always be enabled. If it is set to Time, select the time frame for the service to be enabled. If the system time is outside of the scheduled time, the service will be disabled.

Example #1:

If you have a Web server that you wanted Internet users to access at all times, you would need to enable it. Web (HTTP) server is on LAN (Local Area Network) computer 192.168.0.25. HTTP uses port 80, TCP.

Name: Web Server
Private IP: 192.168.0.25
Protocol Type: TCP
Private Port: 80
Public Port: 80
Schedule: always

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Virtual Servers List				
Name	Private IP	Protocol	Schedule	
<input checked="" type="checkbox"/> Virtual Server HTTP	192.168.0.25	TCP 80/80	always	 



Click on this icon to edit the virtual service.



Click on this icon to delete the virtual service.

Example #2:

If you have an FTP server that you wanted Internet users to access by WAN port 2100 and only during the weekends, you would need to enable it as such. FTP server is on LAN computer 192.168.0.30. FTP uses port 21, TCP.

Name: FTP Server

Private IP: 192.168.0.30

Protocol Type: TCP

Private Port: 21

Public Port: 2100

Schedule: From: 01:00AM to 01:00AM, Sat to Sun

- All Internet users who want to access this FTP Server must connect to it from port 2100. This is an example of port redirection and can be useful in cases where there are many of the same servers on the LAN network.