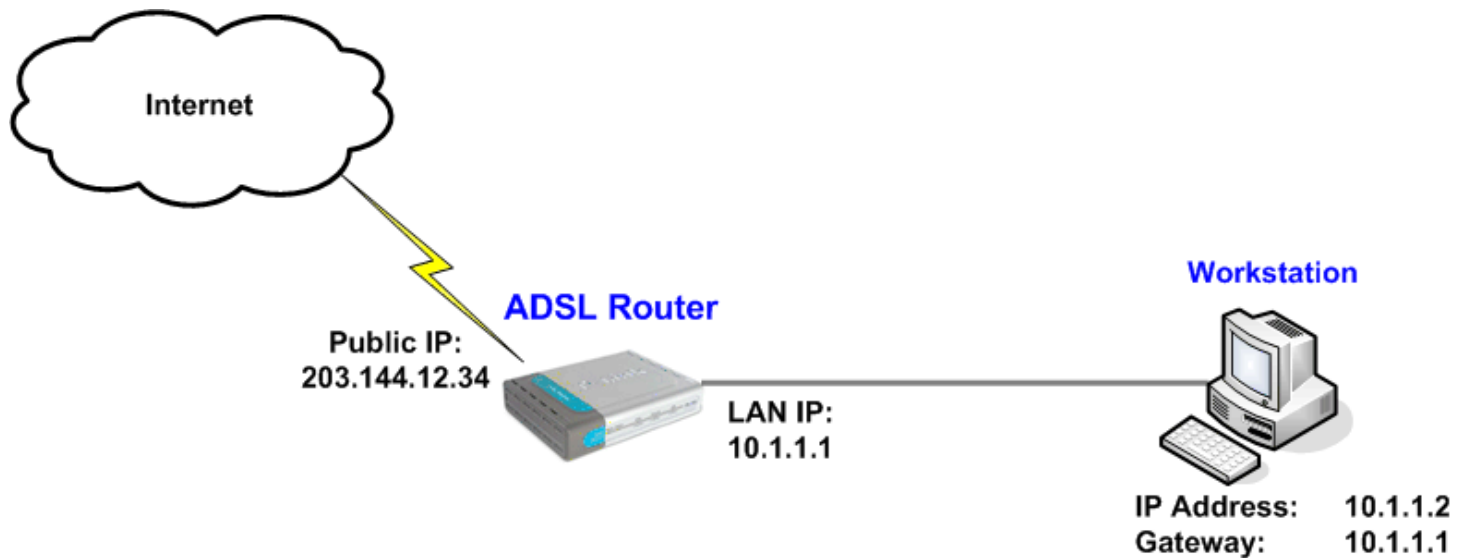


## How to open ports in the DSL router firmware version 2.xx and above



This example shows how to open port 3389 (which is used by Remote Desktop service) in the DSL router running firmware version 2.xx or above. You need to find out what ports your application is using. For example WEB server (HTTP) is using port 80 TCP, PCAnywhere uses ports 5631 TCP and 5632 UDP, etc.

### **Step 1. Set your computer with static IP address.**

Note that the computer you are trying to redirect the traffic to should have static IP address. In our example the computer is set with 10.1.1.2 address. The Default Gateway should also be specified (it should be the router's LAN address: 10.1.1.1).

### **Step 2. Log into your router.**

In order to login to the router start your Internet browser (e.g. Internet Explorer). Ensure that any proxy settings are disabled (in IE look under: Tools > Internet Options > Connection > LAN Settings). Then type the IP address of the router (the default IP address is 10.1.1.1) into the Location (for Netscape) or Address (for IE) field and press "Enter" For example: `http://10.1.1.1`. After the connection is established, you will be prompted to enter username (the factory setting is "admin") and system password (the factory setting is "admin").

### Step 3. Add LAN Client.

You first need to add a client (your Workstation) into the router before you can open any ports. Go to [Advanced > LAN Clients](#). Type in the IP address of your Workstation (in our example it is 10.1.1.2). You can specify the name of this workstation under [Host Name](#) (optional). Click [Add](#) and then [Apply](#).

The screenshot displays the router's configuration interface. The top navigation bar includes 'Home', 'Advanced' (selected), 'Tools', 'Status', and 'Help'. The left sidebar contains various configuration options, with 'Lan Clients' highlighted in yellow. The main content area is titled 'LAN Clients' and features two input fields: 'IP Address' and 'Host Name', followed by an 'Add' button. Below this, a 'Valid IP Range' is specified as '10.1.1.2 - 10.1.1.254'. There are two sections: 'Static Addresses' and 'Dynamic Addresses'. The 'Static Addresses' section contains a table with one entry: IP Address 10.1.1.2, Host Names, and Type Static. At the bottom, there are 'Apply' and 'Cancel' buttons with corresponding icons.

Delete	IP Address	Host Names	Type
<input type="checkbox"/>	10.1.1.2		Static

Reserve	IP Address	Host Names	Type
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#### Step 4. Adding ports.

Go to [Advanced > Port Forwarding](#). There is a list of pre-set ports in the router which you can choose from. If your specific application is not listed there, you can add the necessary ports yourself. Select the "User" Category and click on **Add** button below.

The screenshot displays the router's web interface. On the left is a vertical sidebar with navigation buttons: UPnP, Port Forwarding (highlighted in yellow), Lan Clients, SNMP, DMZ, Filters, Bridge Filters, Firewall, NAT, IGMP Proxy, ATM, ADSL, Static Routing, Dynamic Routing, and Remote Access. The main content area has a top navigation bar with 'Home', 'Advanced' (selected), 'Tools', 'Status', and 'Help'. Below this is the 'Virtual Server' configuration page. It includes a 'Connection' dropdown set to 'pvc0' and a 'LAN IP' dropdown set to '10.1.1.2' with a 'New IP' button. The main section is divided into three panels: 'Category' with radio buttons for Games, VPN, Audio/Video, Apps, Servers, and User (selected); 'Available Rules' (an empty box); and 'Applied Rules' (an empty box). Between the 'Available Rules' and 'Applied Rules' panels are 'Add >' and '< Remove' buttons. Below the 'Available Rules' panel are 'Add', 'Edit', and 'Delete' buttons. At the bottom right of the main area are three icons: a green checkmark for 'Apply', a red X for 'Cancel', and a red plus sign for 'Help'.

Enter the name for this entry under **Rule Name**. Then select the necessary protocol (on our case it is TCP). If there is a range of ports to open, specify the starting port under **Port Start** and the ending port under **Port End**. If you need to open just one port (like in our example), specify this port in all fields including the **Port Map**. Click **Apply**.

The screenshot shows a network configuration interface with a sidebar on the left and a main content area on the right. The sidebar contains various configuration options, with 'Port Forwarding' highlighted in yellow. The main content area is titled 'Rule Management' and has a navigation bar with 'Home', 'Advanced', 'Tools', 'Status', and 'Help'. The 'Advanced' tab is selected. Below the navigation bar, there is a form for creating a rule. The form fields are: 'Rule Name' (RDP), 'Protocol' (TCP), 'Port Start' (3389), 'Port End' (3389), and 'Port Map' (3389). Below the form are two buttons: 'Apply' (with a green checkmark icon) and 'Cancel' (with an orange 'X' icon). Below the buttons is a table header with columns: 'Protocol', 'Port Start', 'Port End', 'Port Map', and 'Delete'.

### Step 5. Opening ports.

Go to [Advanced > Port Forwarding](#) and under LAN IP select your LAN Client (which we added in Step 3). This is the computer where the required traffic will be redirected to.

Select "User" Category and you should see the rule which you have created in Step 4. Select it and then click on [Add >](#) to move it to [Applied Rules](#) section. Click [Apply](#) .

The screenshot shows a network configuration interface with a sidebar on the left containing various settings like UPnP, Port Forwarding, Lan Clients, etc. The main area is titled 'Virtual Server' and has tabs for Home, Advanced, Tools, Status, and Help. Under 'Virtual Server', there are dropdowns for 'Connection' (pvc0) and 'LAN IP' (10.1.1.2), along with a 'New IP' button. Below this is a 'Category' list with radio buttons for Games, VPN, Audio/Video, Apps, Servers, and User (which is selected). To the right of the categories is an 'Available Rules' list containing 'RDP'. Below the available rules are 'Add', 'Edit', and 'Delete' buttons. To the right of the available rules is an 'Applied Rules' list, also containing 'RDP'. Between the two lists are 'Add >' and '< Remove' buttons. At the bottom right of the main area are three icons: a green checkmark for 'Apply', an orange 'X' for 'Cancel', and a red plus sign for 'Help'.

**Step 6. Saving settings.**

To save the new settings into the router's memory go to [Tools > \[System\] > Save & Reboot](#). Click on [Save & Reboot](#) button. The router will save the settings and restart.

Now users on the Internet who will be accessing your public IP (in our example it is 203.144.12.34) using the certain application which utilises the specified ports (Remote Desktop with port 3389 in our example), will be redirected to the specific computer on your LAN.

Please note that from inside your LAN you will not be able to access your server using its public IP address (WAN IP on the router, e.g. 203.144.12.34). You need to use its local IP address instead (10.1.1.2).

Be aware that many Internet Providers are blocking commonly used ports like 80 and 21, hence you will not be able to host a WEB site or FTP site even if you will open the necessary ports in the router.

~ End of document ~