

How to use NAT and No NAT at the same time with a Bipac 7800N

For the this guide we have been provided with a range of static IP's.

80.229.71.33 – Modems reserved IP

Subnet – 255.255.255.240

80.229.71.34-46 – usable IP's

This guide will be done from factory default setting.

Login the routers interface page by opening internet explorer and typing in the address bar <http://192.168.1.254>

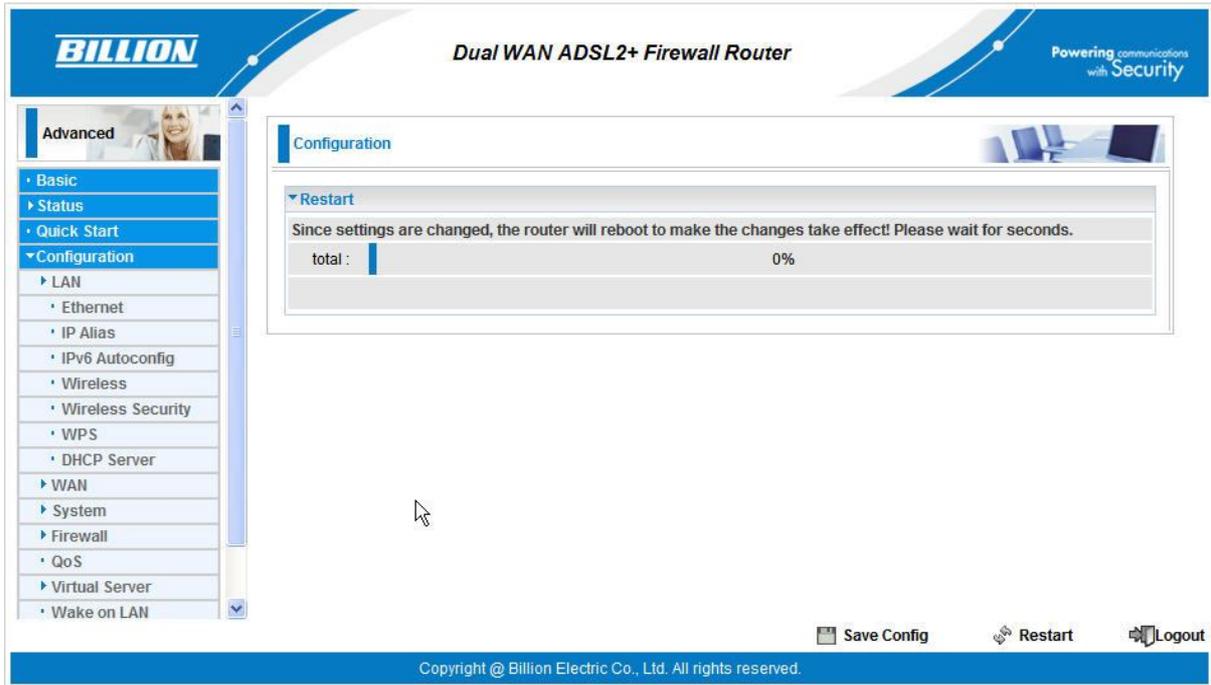
Use the username 'admin' and password 'admin' to login to the routers configuration page.

Click on 'WAN' on the left hand column, and enter your ISP credentials to establish a internet connection. Once you click on 'Apply' the modem will reboot to apply the WAN change.

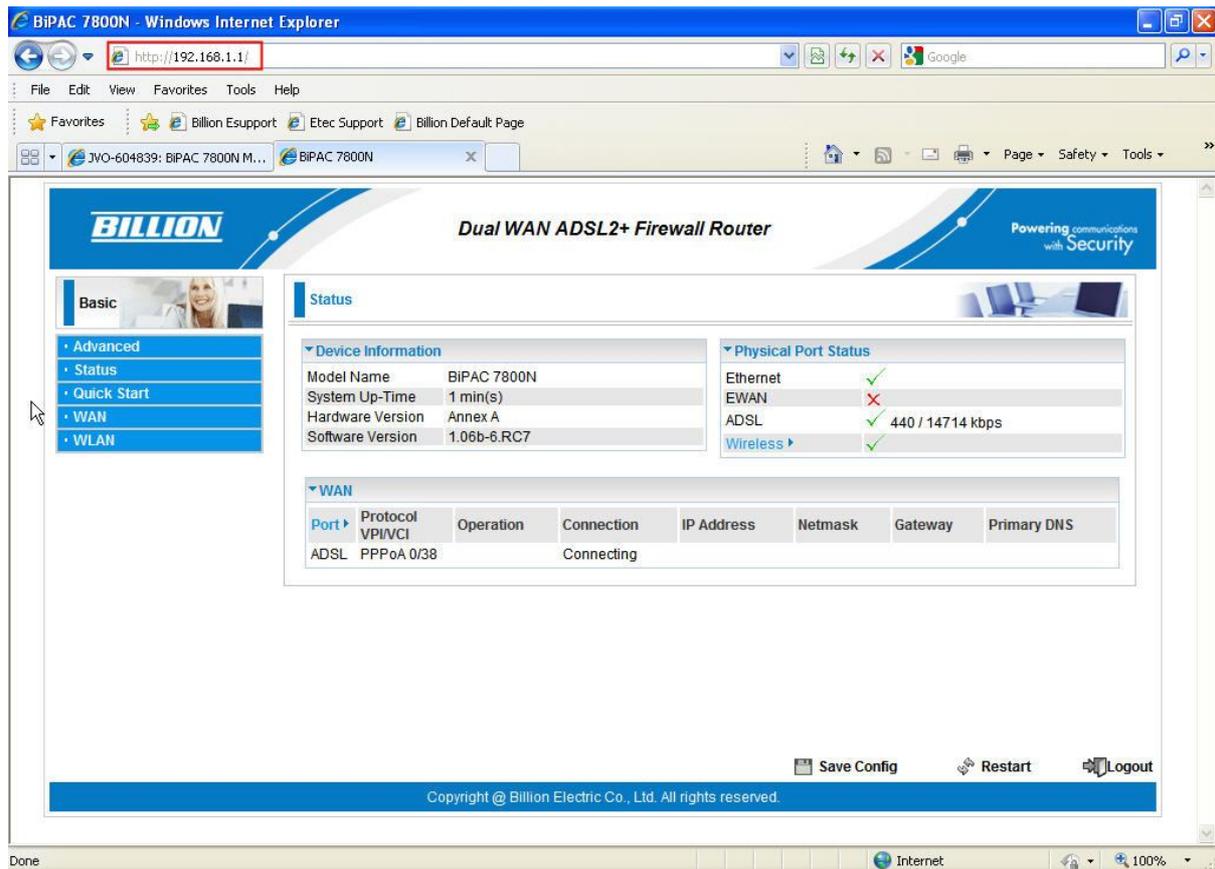
Now click on 'Advanced' >> 'Configuration'>> 'LAN'>> 'Ethernet' and change the LAN IP to 192.168.1.1, with subnet mask 255.255.255.0, and click on 'Apply' at the bottom of the page. The modem will reboot to apply the change, you will then have to use the IP 192.168.1.1 to log back in to the router, as shown below.



The router rebooting with the current configuration.



Routers new IP as shown at the top of the following picture

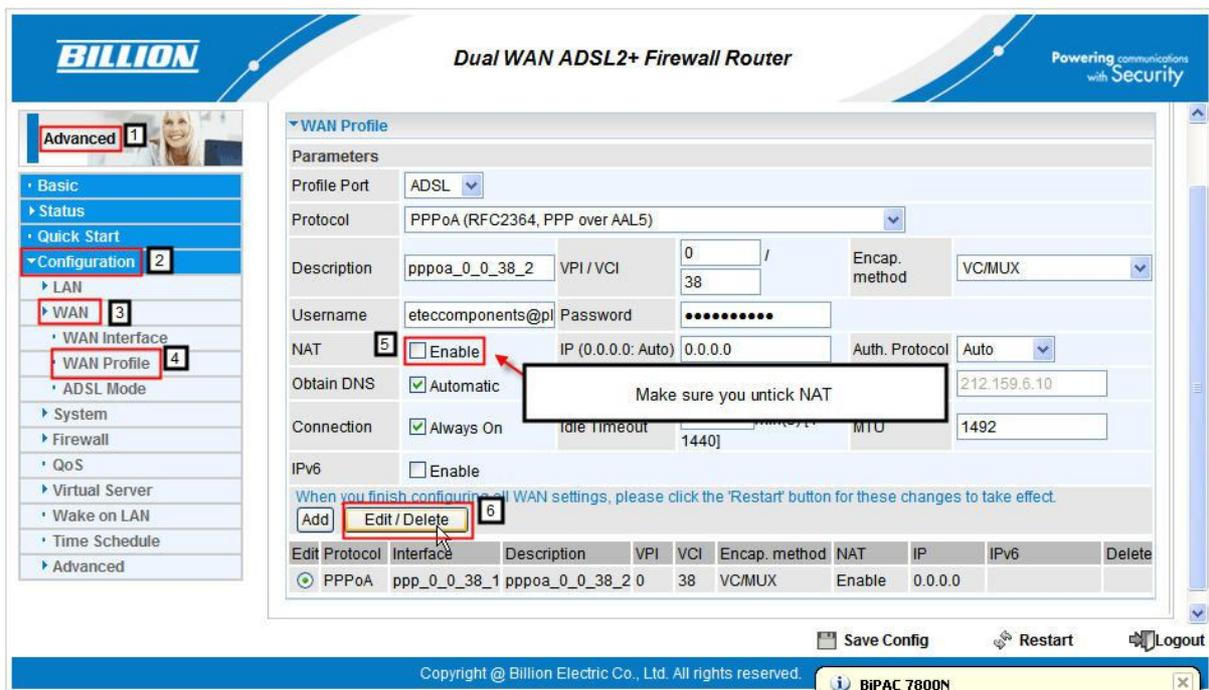


Now click on 'Advanced' >> 'Configuration' >> 'LAN' >> 'IP Alias' and enter the IP that your ISP specified for your router, as shown in the screen shot below.

For this example we used IP address 80.229.71.33, and enter the subnet 255.255.255.240, this is the information provided by our ISP. Once done click on 'Apply' the modem will reboot with the current settings.



Now click on 'Advanced' >> 'Configuration' >> 'WAN' >> 'WAN Profile', untick the 'NAT' option and click on 'Edit/Delete' to apply the change as shown below.



Wait for the page to refresh and click on 'Save Config' at the bottom of the page, and click on 'Apply' in the middle of the page to confirm you wish to save the config. As shown below

BILLION Dual WAN ADSL2+ Firewall Router Powering communications with Security

Advanced

- Basic
- Status
- Quick Start
- Configuration**
 - LAN
 - WAN
 - WAN Interface
 - WAN Profile
 - ADSL Mode
 - System
 - Firewall
 - QoS
 - Virtual Server
 - Wake on LAN
 - Time Schedule
 - Advanced

WAN Profile

Parameters

Profile Port: ADSL

Protocol: PPPoA (RFC2364, PPP over AAL5)

Description: pppoa_0_0_38_2 VPI / VCI: 0 / 38 Encap. method: VC/MUX

Username: eteccomponents@pl Password: [REDACTED]

NAT: Enable IP (0.0.0.0: Auto): 0.0.0.0 Auth. Protocol: Auto

Obtain DNS: Automatic Primary: 212.159.6.9 Secondary: 212.159.6.10

Connection: Always On Idle Timeout: 0 min(s) [1 - 1440] MTU: 1492

IPv6: Enable

When you finish configuring all WAN settings, please click the 'Restart' button for these changes to take effect.

[Add](#) [Edit / Delete](#)

Edit	Protocol	Interface	Description	VPI	VCI	Encap. method	NAT	IP	IPv6	Delete
	PPPoA	ppp_0_0_38_1	pppoa_0_0_38_2_0	0	38	VC/MUX	Enable	0.0.0.0		

[Save Config](#) [Restart](#) [Logout](#)

Copyright @ Billion Electric Co., Ltd. All rights reserved.

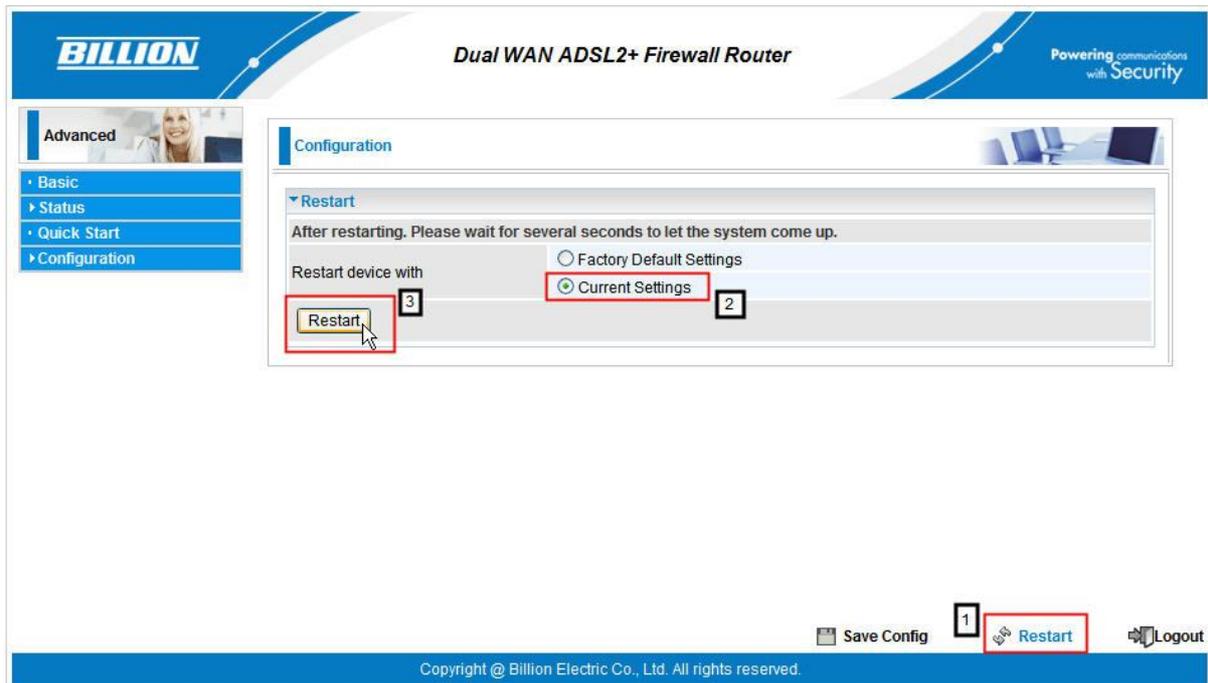
Configuration

Save Config to FLASH

Write settings to FLASH

[Apply](#)

Now please click on 'Restart' at the bottom of the page and select 'Current Settings' and click 'Restart' to apply the new WAN change. As shown below.



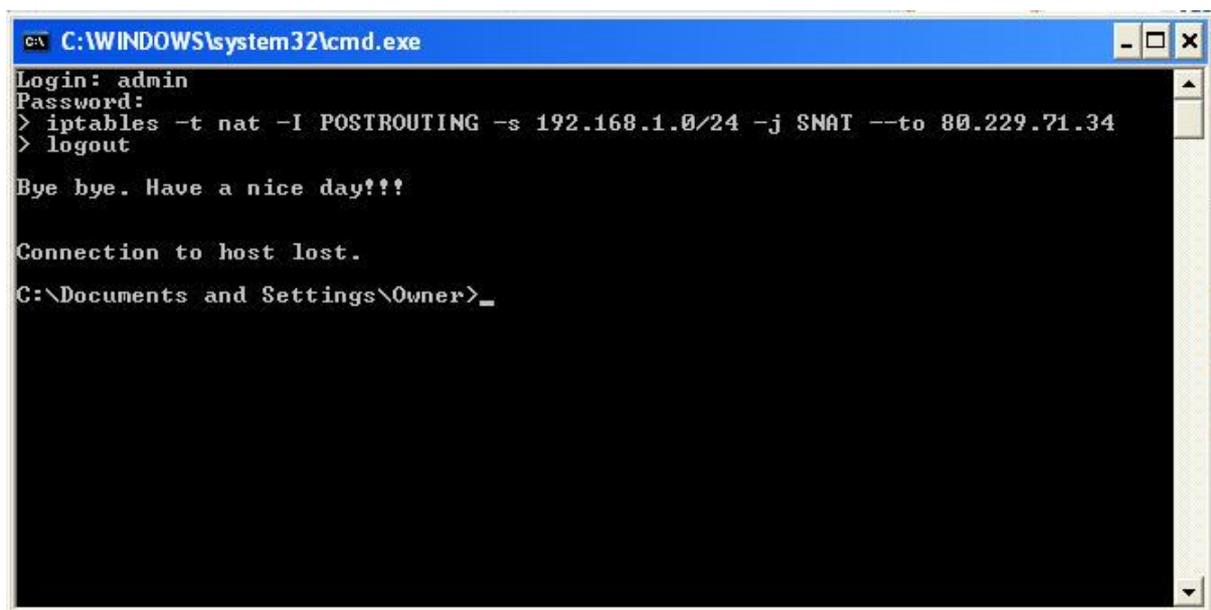
Now open 'Command Prompt' and enter the following commands.

telnet 192.168.1.1 press enter

use the username 'admin' and the password 'admin' press enter

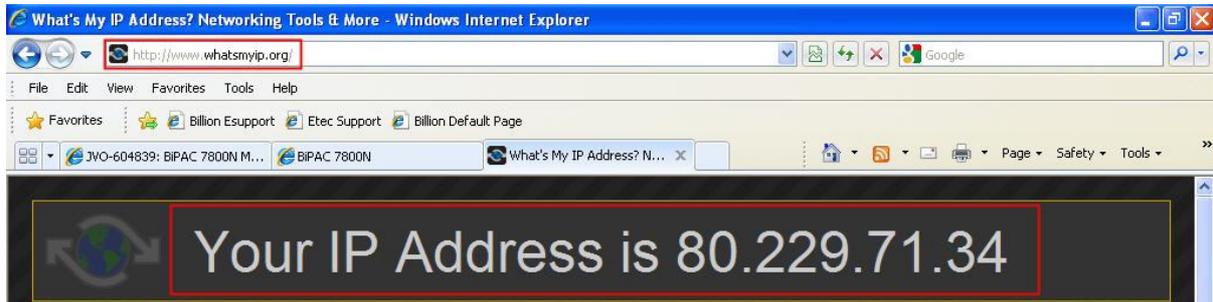
enter `iptables -t nat -I POSTROUTING -s 192.168.1.0/24 -j SNAT --to 80.229.71.34` press enter.

I have used one of static IP's from the range. This IP will be used for computers using NO NAT. As shown below.



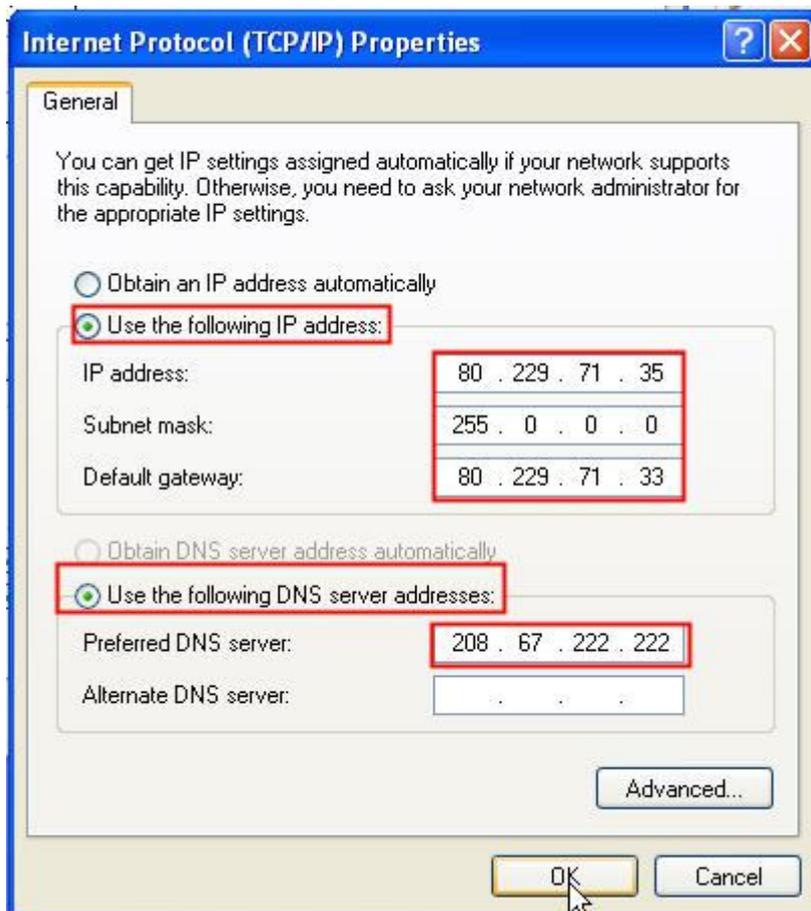
You can type 'Logout' to logout of the CLI command.

Now check your IP address on your computer. It will show the IP address of 80.229.71.34.



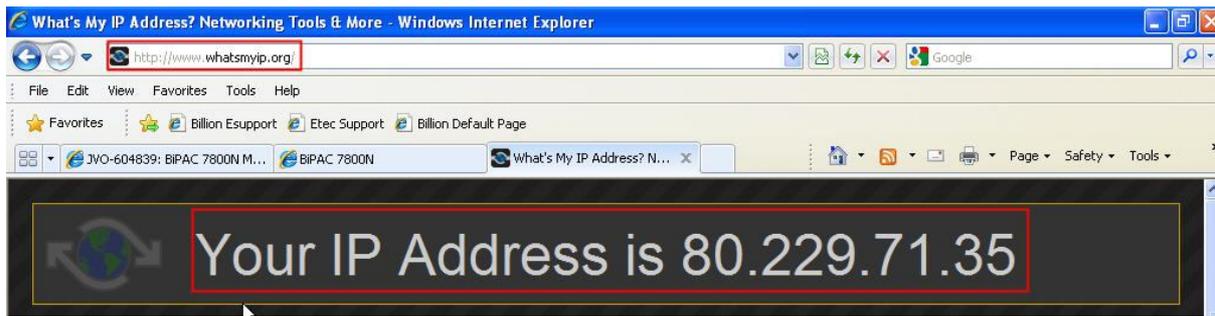
Now if you wish to set a device on your network to use a external IP please use the following example.

You will have to set static IP's to LAN card.



You can enter one of your usable IP's in the IP address section, for the default gateway you have to enter the IP address reserved for the router, the same IP address we entered in the 'IP Alias'.

Now you check your IP address on this device. As shown below.



Please note if you power cycle the router you will need to enter the CLI commands again via command prompt.

That should be it, you should have computers running on a internal IP address (192.168.1.100) they should be behind one of your usable IP's. You should also have computers set with a static IP that have external IP addresses assigned to them.