

## Re: How to get the public IP of my GW

**Source:** <http://unix.derkeiler.com/Newsgroups/comp.unix.bsd.freebsd.misc/2004-07/1115.html>

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**Date:** 07/20/04

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Keve Nagy <no\_spam@poliod.hu> wrote:

- > *This might be a tricky IP networking question, perhaps it is not even*
- > *the best newsgroup to ask, but I trust some of you has done something*
- > *similar before and will be able to give me some ideas.*
  
- > *It might be a bit long, but quickly readable and understandable, so*
- > *please read on and skip the paragraphs which are obvious, they are only*
- > *there to make things clearly understandable.*
  
- > *Imagine the following network layout:*
  
- > *1., an ADSL connection to/from ISP*
- > *2., connected to a DSL modem/router device (a little grey box)*
- > *3., which then connects to a Broadband router/switch*
- > *4., where the LAN computers are connected to.*
  
- > *I have this connection with a friend next door. He is the subscriber,*
- > *and we share the monthly subscription fee, as well as the connection*
- > *because one of those UTP cables from the switch (#3) comes over to my flat.*
  
- > *1->2; The DSL modem (#2), which is also a router/firewall receives its*
- > *public IP via DHCP, and although it is configured to always-on*
- > *connection, we all know that sometimes its IP address gets changed.*
  
- > *2->3; Behind this unit (#2), the internal network (as I call, level-1*
- > *internal) uses the private IP range of 10.0.0.x, as this is what the*
- > *router supports. The second device on route, the broadband-router/switch*
- > *(#3) has a fixed IP of 10.0.0.1 and for the switch RJ45 ports it*
- > *provides DHCP services for the LAN computers in the private range of*
- > *192.168.1.x.*
  
- > *3->4; My mashine has a fixed IP in this latter range, and it runs*
- > *FreeBSD 4.9R. My friend next door also has his computer connected to the*
- > *switch.*
  
- > *The connection works, I can use the internet with my BSD mashine, my*
- > *friend can use the internet with his Windows laptop, so we are all OK*
- > *with the basics. I know that this may not be the ideal connection*

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- > *solution, don't even ask me why we have it this way, it is how my friend*
- > *built it.*
  
- > *My problem comes with incoming connections!*
- > *As the public IP the ISP provides via DHCP is used by our first grey box*
- > *in the way (the DSL modem, #2) I cannot directly connect to my BSD*
- > *maschine from outside. My friend was/is happy to set up any port*
- > *forwardings on those two routers/firewalls (#2 and #3) so if I try to*
- > *connect to a certain port addressing the public IP of the DSL modem (#2)*
- > *I will be routed to the second router/firewall (#3) and from there I*
- > *will bounce to my BSD mashine.*
- > *This all works (or I must say should work, as I have not tried this yet,*
- > *maybe today if we both have time to do the settings) as long as that*
- > *public IP does not change. But when it changes, I need to get home, find*
- > *my friend home as well and ask him to tell me the new/current IP the DSL*
- > *modem uses.*
  
- > *I would like to set up a dyndns name and I know that there are different*
- > *FreeBSD solutions to dynamically update the IP for that name entry when*
- > *it changes, but of course that assumes that the IP in question is the*
- > *FreeBSD mashine's own IP. In my case, my mashines IP stays the same all*
- > *the time, and what I need to update is the external IP of the DSL modem.*
  
- > *Question 1: How can I get the public IP of the DSL modem from my FreeBSD*
- > *maschine? I mean, even traceroute shows the Modem with its 10.0.0.x*
- > *address and not its external IP.*
  
- > *Question 2: Do you think it is possible to get my FreeBSD to update that*
- > *dyndns entry every time when the modem's public IP changes?*
  
- > *Every suggestion or idea is welcome! I also appreciate any URL to pages*
- > *that explains similar solutions!*

I made a small application-pair for this purpose :

<ftp://n.manet.nu/pub/dynupdate.tar>

It sends one udp-packet to a receiver, the packet contents identifies the sender, the ip-address is used to grab the "outer address". As i used it it runs a script that uodates a local dns server.

- > *Thanks,*
  
- > *Keve*
  
- > *--*
- > *If you need to reply directly:*
- > *keve(at)mail(dot)poliod(dot)hu*

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Peter Håkanson

IPSec Sverige ( At Gothenburg Riverside )

Sorry about my e-mail address, but i'm trying to keep spam out,

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remove "icke-reklam" if you feel for mailing me. Thanx.