

## Re: 2 ip numbers on 1 computer

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*Source:*

[http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network\\_web/2007-02/msg00375.html](http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network_web/2007-02/msg00375.html)

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- *From:* "Steve Winograd [MVP]" <[bcmaven@xxxxxxxx](mailto:bcmaven@xxxxxxxx)>
  - *Date:* Wed, 14 Feb 2007 02:00:34 -0700
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In article <eXpZVHGTHHA.1636@xxxxxxxxxxxxxxxxxxxxxxxx>, Lem <[lemp40@xxxxxxxxxxxx](mailto:lemp40@xxxxxxxxxxxx)> wrote:

Steve,

I understand *\_how\_* to add multiple static IPs to a single NIC, but *\_why\_* would one do this, and how does it work?

Hi, Lem. I can't think of a setup in a typical home network where you'd want multiple static IPs on a single NIC. A computer acting as a web server might do that in order to host multiple sites.

If a NIC has multiple IP addresses assigned, what gets placed in the "source IP address" portion of the IP header of packets sent by that NIC? The top-most IP address in the list? I wouldn't think that it would duplicate each outgoing packet for each separate IP address.

If a packet goes to one of the NIC's subnets, I assume that the source IP address is the one in the same subnet as the destination IP address. I don't know what would happen otherwise.

I assume that if I configure my NIC with:

192.168.0.101 and  
192.168.1.101

I can *\_receive\_* packets from other computers on either the 192.168.0.x subnet or the 192.168.1.x subnet (without the need for a router).

What happens if my 2-IP address NIC transmits packets? Who can receive them (without going through a router)?

That's should work the same as for a 1-IP NIC. A device in the same

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subnet as one of the NICs addresses can receive packets directly.  
Anything else requires a gateway address and a router.

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Best Wishes,  
Steve Winograd, MS-MVP (Windows Networking)

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for everyone to see. I'm sorry, but I don't answer questions  
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