

# Re: Best Config for LAN

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2006-10/msg00538.html>

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- *From:* "Bill Grant" <[not.available@online](mailto:not.available@online)>
  - *Date:* Tue, 31 Oct 2006 09:24:35 +1100
- 

You just give the server the same gateway as the other machines. A bridge is essentially a passive link. It just forwards what comes in one side out the other. From a networking point of view it is all just one segment. The machines behave as if they were in the same segment. They communicate between themselves directly using hardware addresses (no routing) and send all other traffic to the default router.

If you cannot ping between machines, check that you are not blocking ICMP echo with the built-in firewall.

"Terry" <[it@xx](mailto:it@xx)> wrote in message [news:ujpj2\\$A\\$GHA.360@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:ujpj2$A$GHA.360@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Thanks for the advice Bill,

With the router at .0.1, the setup I trialed was:  
XP wireless NIC at .0.2, XP wired NIC at .0.4.  
Server wired NIC at .0.5  
Bridged the XP wireless and wired NIC's, gave the bridge .0.6  
This gave me connectivity from the server to the bridge.

I guess the config of gateway and DNS would be the place to look.

wireless .0.2 gateway and DNS .0.1  
wired .0.4 gateway and DNS .0.1  
bridge .0.6 gateway and DNS .0.1

Not too sure about how to set the gateway and DNS for the server side.

Regards

Terry

"Bill Grant" <[not.available@online](mailto:not.available@online)> wrote in message [news:O5zJly9%23GHA.1224@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:O5zJly9%23GHA.1224@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

ICS has nothing to do with bridging. ICS is a cut-down version of a

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NAT router. The two NICs of an ICS machine must be in different IP subnets, and the client machines must use the ICS machine's private IP (which is set by ICS to 192.168.0.1) as the default gateway.

You could not use ICS with your setup anyway. ICS sets the "private" NIC to 192.168.0.1, and that subnet is already in use for your existing subnet. You can't have both sides using the same IP subnet.

With a bridge, traffic is simply forwarded from one segment to the other. The two segments operate as if they were one single network.

"Terry" <yoo\_hoo\_2000@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message [news:%23YyTkq7%23GHA.3312@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23YyTkq7%23GHA.3312@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Hi Bill,

Nearly got there with that setup. The Router sits at .0.1, I have the XP machine with .0.2 for the wireless NIC and .0.4 for the wired NIC. The server has .0.5 for the wired NIC.

I bridged the two NIC's on the XP machine and gave the bridge .0.6 and pointed the gateway and pri DNS to the Router. I could ping each way between the server and XP NIC's and the bridge but couldn't get from the server to the router. Although the wireless connectivity was still there I also could not ping between XP and the router.

I'm guessing there is a little more to do here. I seem to recall from a previous setup using ICS that the bridge ended up with the IP .0.1 which had belonged to the NIC with the internet connection. That may be a clue, but I will need to attempt that to prove it one way or the other.

Any static routes need considering?

Regards

Terry

"Bill Grant" <not.available@online> wrote in message [news:em2K4c6%23GHA.4704@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:em2K4c6%23GHA.4704@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

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I would leave the server with just the gigabit wired NIC, give the XP pro both wired and wireless NICs and bridge them. Connect the wired NICs in the Pro and the server with your crossover cable. All NICs (wired and wireless) would be in the 192.168.0 subnet. All machines would use the wireless router as their gateway router. No need to use ICS – the wireless router will already be doing NAT.

"Terry"

<yoo\_hoo\_2000@xxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

[news:%23JFcEN4%23GHA.3352@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23JFcEN4%23GHA.3352@xxxxxxxxxxxxxxxxxxxxxxxx)

Hi,

That would certainly work, however the reason for the wireless connection is I would need about 20 metres of Cat5e just to get to the first machine, run outside the house and through an external wall. Perfectly possible as I already have a couple of conduits through the external walls, but it is far easier to have wireless.

However, my real question is how to configure the IP subnet/s to get what I want.

Regards

"Frankster"

<Frank@xxxxxxxxxxxxxxxx>

wrote in message

[news:3JydnaaGtaOPN9nYnZ2dnUVZ\\_tSdnZ2d@xxxxxxxxxxxxxxxx](mailto:news:3JydnaaGtaOPN9nYnZ2dnUVZ_tSdnZ2d@xxxxxxxxxxxxxxxx)

Buy a  
wired/wireless  
router and

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hook the  
desktops  
directly to  
the  
wired ports.

-Frank

"Terry"

<yoo\_hoo\_2000@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in  
message

[news:OZBigVt%23GHA.2408@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:OZBigVt%23GHA.2408@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

I  
will  
be  
installing  
a  
Win2K3  
server  
into  
my  
Wireless  
LAN.

The  
current  
config  
is  
a  
Wireless  
Router  
at  
192.168.0.1,  
XPpro  
at  
192.168.0.2  
and  
XPhone  
at  
192.168.0.3.

The  
server  
will  
be  
physically  
next  
to  
the

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XPpro  
machine  
and  
I  
have  
a  
chance  
to  
connect  
just  
these  
two  
with  
Fast  
Ethernet  
at  
1  
Gigabit  
via  
crossover  
cat  
5e.  
I  
can  
fit  
a  
wireless  
NIC  
to  
the  
server.

I  
want  
to  
keep  
the  
wireless  
connection  
on  
the  
XP  
machines  
for  
internet  
connectivity,  
but  
am  
not  
sure  
about

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the  
best  
way  
to  
get  
internet  
connectivity  
on  
the  
server.  
1)  
Should  
I  
try  
and  
route  
thru  
the  
XPpro  
with  
ICS  
enabled  
(change  
IP),  
or  
2)  
fit  
a  
wireless  
card  
to  
the  
server  
on  
the  
router  
subnet,  
and  
use  
another  
subnet  
range  
for  
the  
Gigabit  
connection  
only?  
Either  
way  
I'm  
guessing

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there  
will  
have  
to  
be  
some  
static  
routes  
setup  
on  
the  
router,  
server,  
or  
both.

Regards  
Terry