

Re: Connection from remote computer to network SQL Server

Source:

<http://www.tech-archive.net/Archive/Access/microsoft.public.access.adp.sqlserver/2006-12/msg00000.html>

- *From:* Bruce Maston <homebrew@xx>
 - *Date:* Tue, 28 Nov 2006 08:45:02 -0800
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I have made my connection work, and I discussed my problem in great detail with a description of how I corrected it in a post in the "Importing and Exporting" Newsgroup dated 11/27/06 under my name.

Again, thank you for the help.

"Brendan Reynolds" wrote:

I'm not quite sure whether you have resolved the port-forwarding issue or not. If you haven't, or aren't sure, this Web site might help ...

<http://www.portforward.com/>

—
Brendan Reynolds
Access MVP

"Bruce Maston" <homebrew@xx> wrote in message news:AF6B297E-D0B4-4206-AFC6-610B9C8D71B8@xxxxxxxxxxxxxxxxxxxxx

Hi Sylvain and thank you for the detailed reply,

As you suspected, my router did not have Port Forwarding configured to route ODBC connections to the local machine 192.168.0.xx.

Unfortunately, I am still unable to connect.

1. There is no firewall on the W2K machine acting as the SQL server.
2. I tried making the SQL machine a "trusted" on the router. As I read the manual, that means that there should be no blocking of anything whatsoever that comes to that machine.
3. In SQL 2005 Express, TCP/IP and the browsing service are both enabled and

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running (and I've rebooted).

The problem is establishing the ODBC connection on my remote machine that runs XP home edition. As I understand it, in order for the Access app. to work on this remote machine, you have to establish a "data source" by going into Start/Control Panel/Administrative Tools/Data Sources (ODBC). Once there, you have to select one of the tabs in the box that pops up. I've tried to establish the connection both as "User DSN" and a "System DSN."

With either tab, when you click "add" you get to a screen where you go to the bottom of the list and highlight "SQL Server." When you then click "finish," you get to a second box that asks for the name you are giving the data source [this can be any name] and the server you want to connect to. In this server box, I've put the IP address for the router. (BTW, I can ping this address.)

When you click "next," you get to a screen that asks for the UserID and password (after you click that you want to use SQL authentication).

After you've entered the UserID and password, you click "next." At this point, I know from successful connections that you go to a further screen where you specify options, and there is then a test button to see that the connection works.

Again, as I understand it, you need this ODBC connection set up in Windows because that is the only way you can use the link table manager in Access to link the SQL server tables to your app.

Anyway, when I click "next" after entering the userID and password, there is a long pause before a screen comes up telling me the connection has failed and/or access denied.

Thank you in advance for any further insight. I absolutely know there is simply some simple click I haven't made.

Bruce Maston

"Sylvain Lafontaine" wrote:

You must tell the Firewall/router to open the port 1433 and to redirect it to the Win2K machine. On many routers, this is called Port Forwarding

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and
is often located under the Advanced options. Take a look
around and you
should find it.

Normally, forwarding a port will open it through the firewall
but not
necessarily. Take a look at your documentation.

To find the IP address of your computer inside the network,
look at the
list
of attached devices in your router or open a CMD (or DOS)
session on your
local machine and run the command IPCONFIG /all. It's also
a good idea
to
give a fixed local address to your machine on your router;
something that
you should find under the LAN IP setup of your router.

When you're done, all you have to do will be to give the
fixed IP address
of
the network as the name of the machine; the router will do
the rest when
it
will receive a connection on the port 1433 and redirect it to
your Win2K
server. It's best to add ,1433 at the end to make sure that the
ODBC or
OLEDB provider will know that this is a TCP/IP address but it
should work
without it. It's also a good idea to add Network
Library=DBMSSOCN; (with
a
space between network and library) for OLEDB provider to
make sure that
the
provider will understand that it's a tcp/ip connection; for
example:

```
oConn.Open "Provider=sqloledb;" & _  
"Network Library=DBMSSOCN;" & _  
"Data Source=xxx.xxx.xxx.xxx,1433;" & _  
"Initial Catalog=myDatabaseName;" & _  
"User ID=myUsername;" & _  
"Password=myPassword"
```

<http://support.microsoft.com/kb/q238949/>

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If the SQL-Server is not the default instance but a named instance, then you must add the name of the instance after the address of the server (but before the port number). Finally, you can take a look at the following articles to help you troubleshooting connection problem:

http://www.datamasker.com/SSE2005_NetworkCfg.htm

<http://blogs.msdn.com/sqlexpress/archive/2005/05/05/415084.aspx>

<http://blogs.msdn.com/sqlexpress/archive/2004/07/23/192044.aspx>

<http://msdn2.microsoft.com/en-us/library/ms345318.aspx>

Using a remote desktop/terminal service is another way of accessing your work. With TS, you will have the same configuration problem with your router (excerpt that the port number is different) but with the advantage of a better result in many situations (see below); however, it's not supported on W2K Pro (you must have a server to use TS, not a workstation). (You can have one remote session on WinXP Pro but the user must be there to accept the incoming connection; so it's probably of no use in your situation; however, I might be wrong on this.)

Probably that the speed of accessing your remote database over the internet will not blast you away. If the system is too slow, then you will have to use TS or to optimize your frontend/backend or to use another technologie like .NET or ASP.NET. (TS is by far the easiest way but it will cost you some \$ because you must buy Win2003 Server.) However, many of my clients are using ADP directly over the internet without to much problem of speed.

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Sylvain Lafontaine, ing.
MVP – Technologies Virtual-PC
E-mail: sylvain aei ca (fill the blanks, no spam please)

"Bruce Maston"
<homebrew@xx>
wrote in
message
news:14AF3098-4A55-4E3C-BDA5-D48F3813DFAB@xxxxxxxxxxxxxxxxxxxxxxxx

I want to create my own SQL Server 2005
Express backend server with
Access
as
the front end.

I have a three computer network behind a
firewall router. Two machines
are
XP pro with the Access front end, and I
added a third machine that is
W2K
pro
with the SQL Server back end. I've upsized
my tables, and I've got
this
network working.

My next problem is to be able to connect to
the SQL server inside my
network
from another computer at home with the
same Access on it as the front
end,
and this is where I am stumped.

I perceive that I need to do "something" to
the SSMS and/or to the
router
to
allow the connection, and I suspect that I
need some sort of other
downloaded
MS piece of software or tool to enable this.
Finally, I do not exactly
know
what the IP address is for a computer
"inside" my network. (I have a

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fixed
IP address for the network.) I've tried the IP
address followed my the
computer's name in the network, the
computers local address, etc. I've
used
colon separators, back slashes, commas, etc.
All no go.

I see things like "remote desk top" and
"terminal services," but I'm
not
sure which one I might need (if that one or
some other).

I'm sure that there must be other threads
addressing this problem, but
I
haven't been able to locate one.

Thank you.