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How to configure SQL Express 2012 to accept remote connections

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How to configure SQL Express 2012 to accept remote connections

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I do my best to write an usefull articles with all the information verified in my own LAB.

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When you try to connect to an instance of Microsoft SQL Server 2012 Express from a remote computer, you might receive an error message.

INTRODUCTION

Named SQL instances listen on dynamic ports. This is the function of the Sql Server Browser Service to inform the clients of the actual port. The Sql Browser listens on UDP 1434 and answers all client request with the port number the current instance is using. Sql Server Browser service is required for both TCP and named pipes protocols. SQL Server Browser is used by clients transparently and there is no need for special configuration.

- Enable remote connections on the instance of SQL Server that you want to connect to from a remote computer.
- Configure SQL server to listen on static port
- Turn on the SQL Server Browser service.
- Configure the firewall to allow network traffic that is related to SQL Server and to the SQL Server Browser service.

Update 2015.05.11

If you want to use GPO to configure SQL server Standard or Enterprise to accept remote connections see my new post: [How to use GPO to allow SQL 2012 accept remote connections](#)

Enable remote connections on the instance of SQL Server that you want to connect to from a remote computer.

1. Open **SQL Management Studio** and right-click server name in the left pane and select **Properties**

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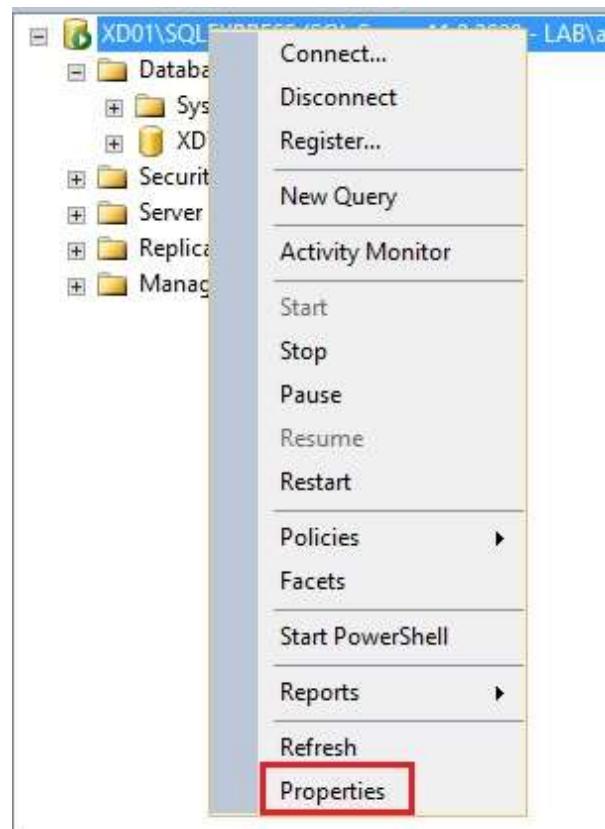


Figure 1

2. Select **Connections** in the left pane and make sure that checkbox **Allow remote connections to this server** is selected as it is shown in Figure 2.

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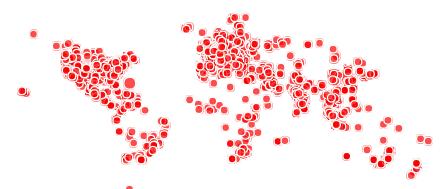
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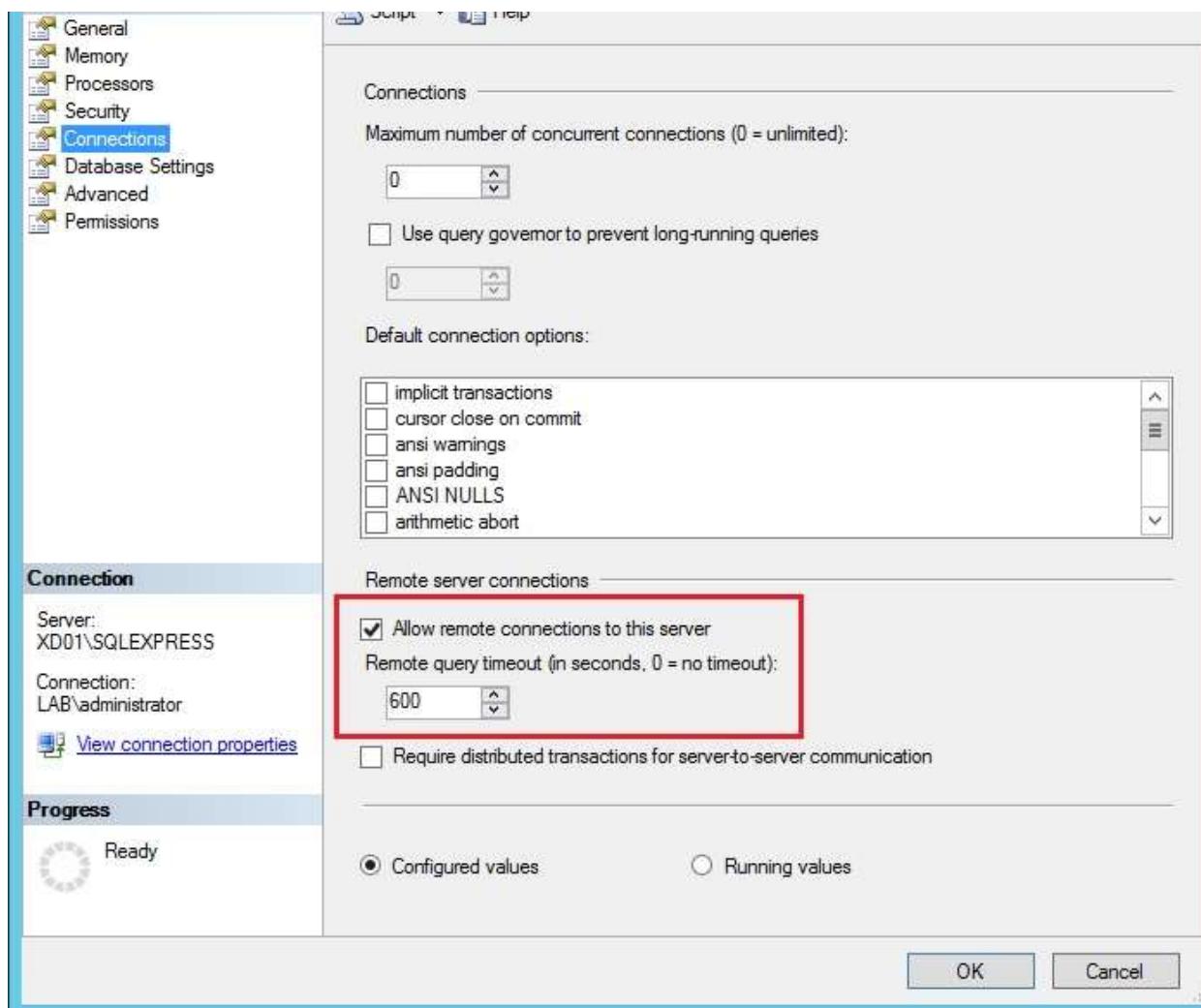


Figure 2

Configure SQL express server to listen on static port.

1. Open **SQL Server Configuration Manager** and click on "**SQL Server Services**" in the left pane.

[Configure SQL Express 2012 to accept remote connections](#)

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> Raed on How to configure SQL Express 2012 to accept remote connections

> Marc on How to upgrade Windows 2012 R2 evaluation to full version ?

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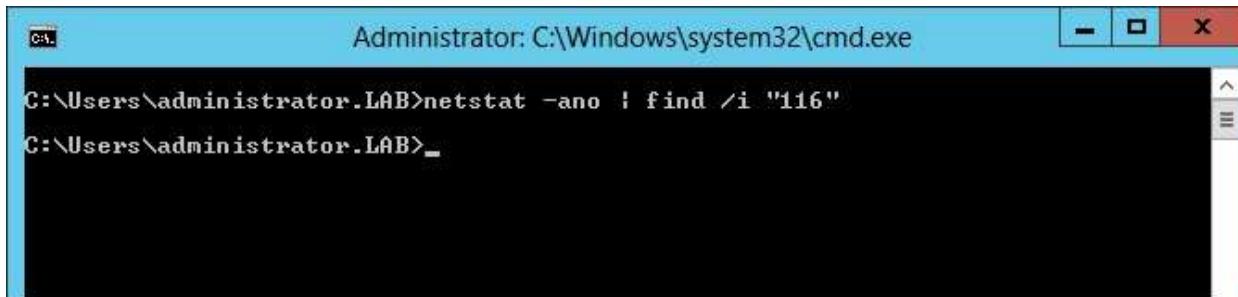
The screenshot shows the left pane of the SQL Server Configuration Manager with several service groups listed. The right pane displays a table of services with columns: Name, State, Start Mode, Log On As, Process ID, and Service Type.

	Name	State	Start Mode	Log On As	Process ID	Service Type
SQL Server Services	SQL Server Browser	Stopped	Other (Boot, Syste...)	NT AUTHORITY\LO...	0	
SQL Server Network Configuration (32bit)	SQL Server (SQLE...)	Running	Automatic	NT Service\MSSQL...	116	SQL Server
SQL Native Client 11.0 Configuration (32bit)	SQL Server Agent...	Stopped	Other (Boot, Syste...)	NT AUTHORITY\NE...	0	SQL Agent

Figure 3

2. In the center pane, is a column that lists the Process ID for each running service. Look for the PID in the row for **SQL Server**. Identify the port that that PID is listening on by typing this into a command prompt:

`netstat -ano | find /i "PID-Number-Of-SQL-Server"`. Based on the details shown in Figure 3 syntax is the following:
`netstat -ano | find /i "116"`. The results are shown in Figure 4.



The screenshot shows a Windows Command Prompt window titled "Administrator: C:\Windows\system32\cmd.exe". The command entered was `netstat -ano | find /i "116"`. The output shows one result: "C:\Users\administrator.LAB> netstat -ano | find /i "116".

```
C:\Users\administrator.LAB>netstat -ano | find /i "116"
C:\Users\administrator.LAB>_
```

Figure 4

3. There is no results from the command executed in step 3 because TCP/IP protocol is disabled and must be enabled. In **SQL Server Configuration Manager** and click on **SQL Server Network Configuration** in the left pane and right-click **TCP/IP** protocol and select option **Enable**.

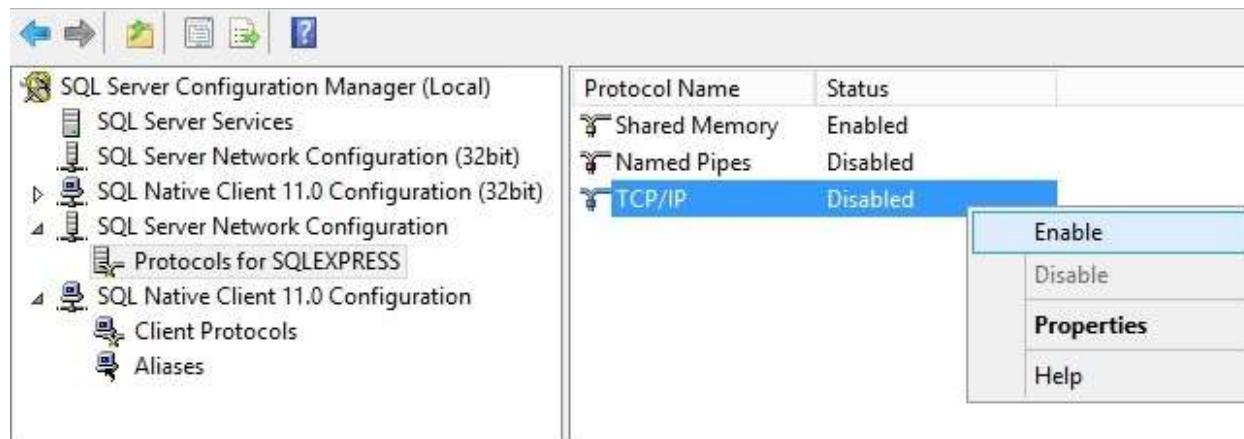


Figure 5

4. Restart SQL Server service and identify the process ID assigned to SQL service.

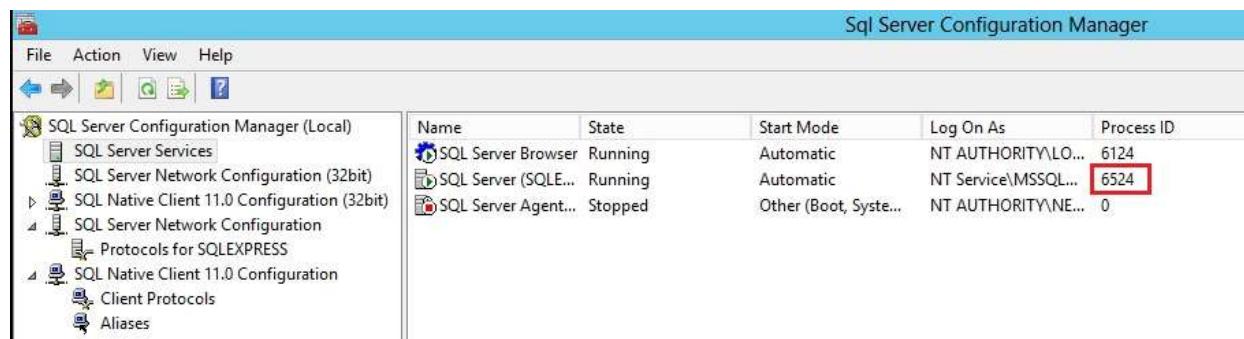


Figure 6

5. In the command prompt execute command: **netstat -ano | find /i "6524"**. The results are shown in Figure 7.

```
C:\Users\administrator.LAB>netstat -ano | find /i "116"
C:\Users\administrator.LAB>netstat -ano | find /i "6524"
TCP 0.0.0.0:50629 0.0.0.0:0 LISTENING 6524
TCP 192.168.20.103:50631 192.168.20.100:49157 ESTABLISHED 6524
TCP [::]:50629 [::]:0 LISTENING 6524

C:\Users\administrator.LAB>
```

Figure 7

6. In **SQL Server Configuration Manager** and click on **SQL Server Network Configuration** in the left pane and right-click **TCP/IP** protocol and select option **Properties**. Goto **IP Address** tab and scroll-down to **APAll** section. Remove value for **TCP Dynamic Ports** (do not enter Zero 0 !!!) and enter the port 1433 for **TCP Port**.

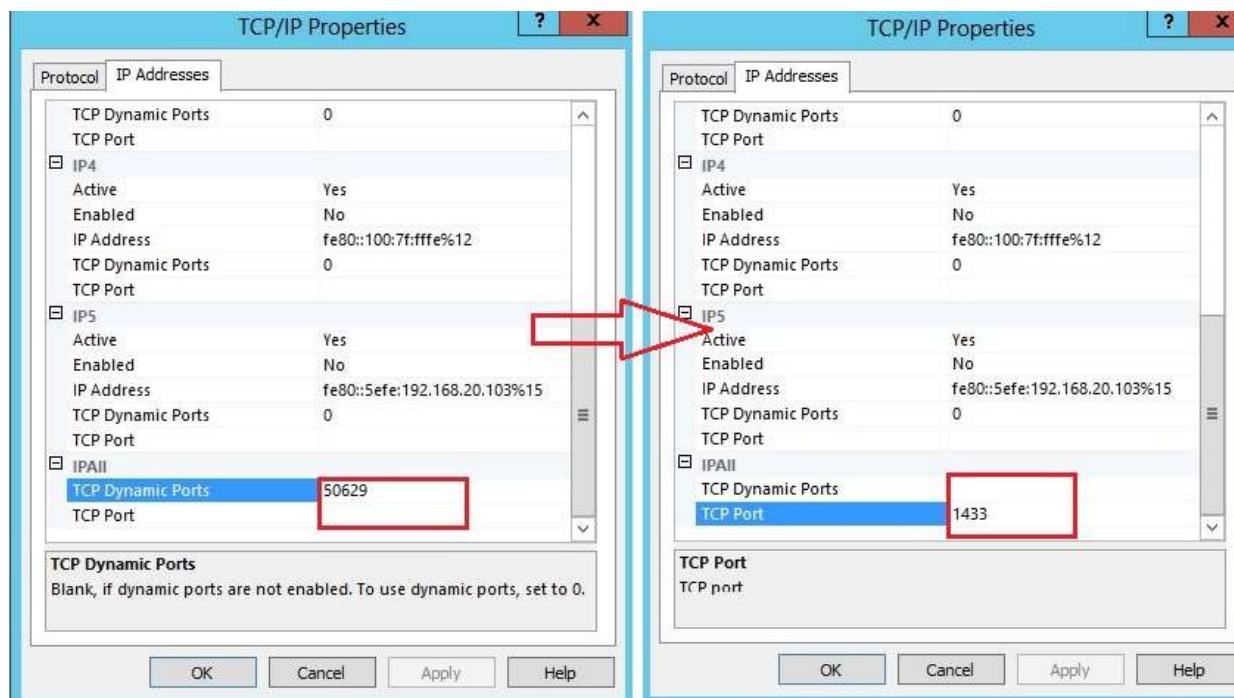


Figure 8



Administrator: C:\Windows\system32\cmd.exe

```
C:\>netstat -ano | find /i "3948"
TCP    0.0.0.0:1433      0.0.0.0:0          LISTENING      3948
TCP    192.168.20.103:1433 192.168.20.103:50732 ESTABLISHED 3948
TCP    192.168.20.103:1433 192.168.20.103:50744 ESTABLISHED 3948
TCP    192.168.20.103:1433 192.168.20.103:50745 ESTABLISHED 3948
TCP    192.168.20.103:1433 192.168.20.103:50746 ESTABLISHED 3948
TCP    192.168.20.103:1433 192.168.20.103:50747 ESTABLISHED 3948
TCP    192.168.20.103:1433 192.168.20.103:50749 ESTABLISHED 3948
TCP    192.168.20.103:1433 192.168.20.103:50750 ESTABLISHED 3948
TCP    192.168.20.103:1433 192.168.20.103:50751 ESTABLISHED 3948
TCP    192.168.20.103:1433 192.168.20.103:50757 ESTABLISHED 3948
TCP    192.168.20.103:50738 192.168.20.100:135 ESTABLISHED 3948
TCP    192.168.20.103:50739 192.168.20.100:49157 ESTABLISHED 3948
TCP    [::]:1433           [::]:0            LISTENING      3948
TCP    [::]:1433           [::]:50731        ESTABLISHED 3948
TCP    [::]:1433           [::]:50733        ESTABLISHED 3948
TCP    [::]:1433           [::]:50734        ESTABLISHED 3948
TCP    [::]:1433           [::]:50735        ESTABLISHED 3948
TCP    [::]:1433           [::]:50736        ESTABLISHED 3948
TCP    [::]:1433           [::]:50737        ESTABLISHED 3948

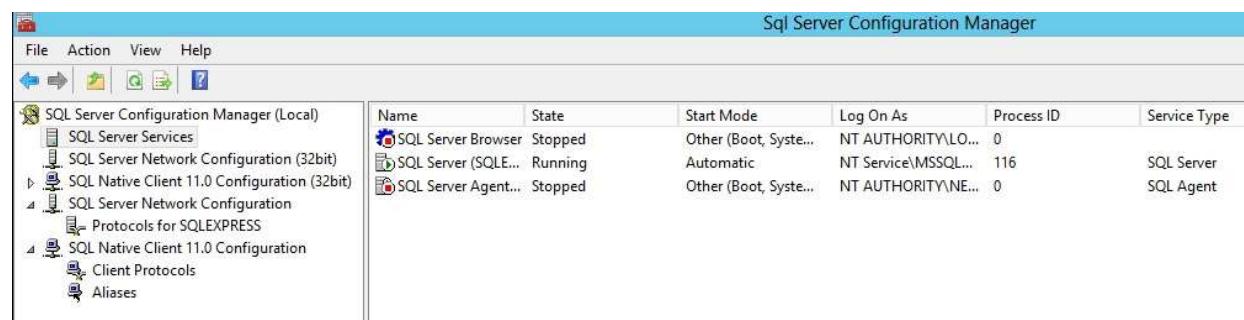
C:\>
```

Figure 9

At this stage SQL Express is configured to listen on standard port 1433.

Turn on the SQL Server Browser service.

1. Open **SQL Server Configuration Manager** and click on “**SQL Server Services**” in the left pane, right-click **SQL Server Browser service** and select **Properties**.



Sql Server Configuration Manager

File Action View Help

SQL Server Configuration Manager (Local)

- SQL Server Services
- SQL Server Network Configuration (32bit)
- SQL Native Client 11.0 Configuration (32bit)
- SQL Server Network Configuration
 - Protocols for SQLEXPRESS
 - SQL Native Client 11.0 Configuration
 - Client Protocols
 - Aliases

Name	State	Start Mode	Log On As	Process ID	Service Type
SQL Server Browser	Stopped	Other (Boot, Syste...)	NT AUTHORITY\LO...	0	
SQL Server (SQLEXPRESS)	Running	Automatic	NT Service\MSSQL...	116	SQL Server
SQL Server Agent...	Stopped	Other (Boot, Syste...)	NT AUTHORITY\NE...	0	SQL Agent

2. Go to **Service** tab and for **Start Mode** option change start type to **Automatic**.

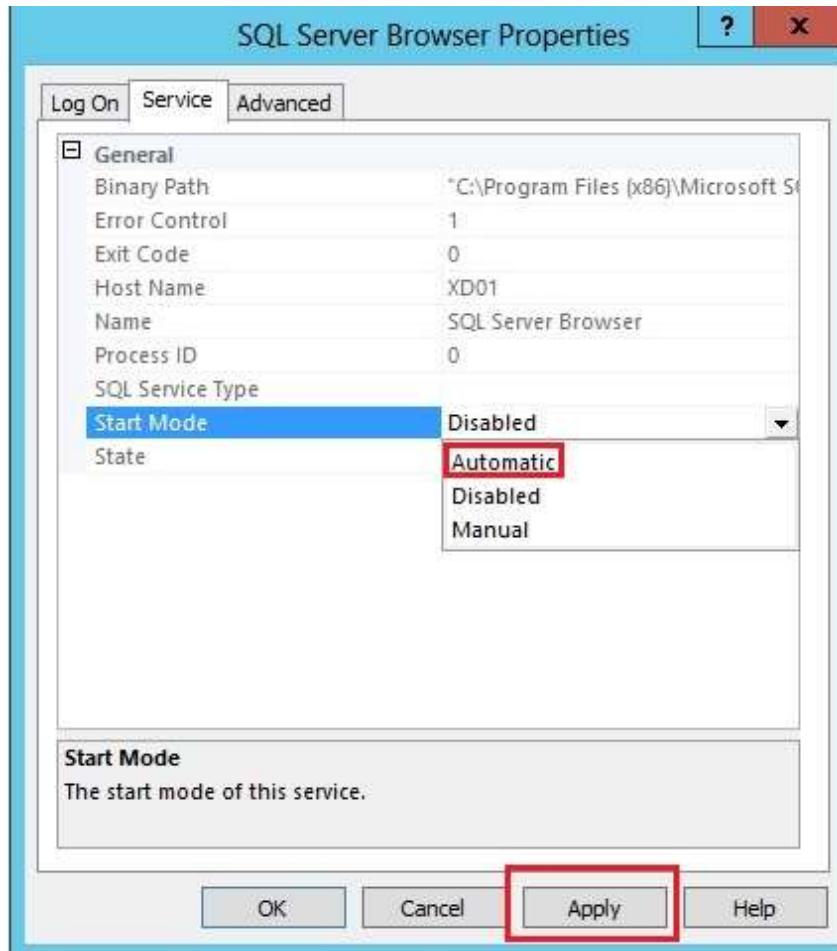


Figure 11

3. Click Start button to start SQL Browser service

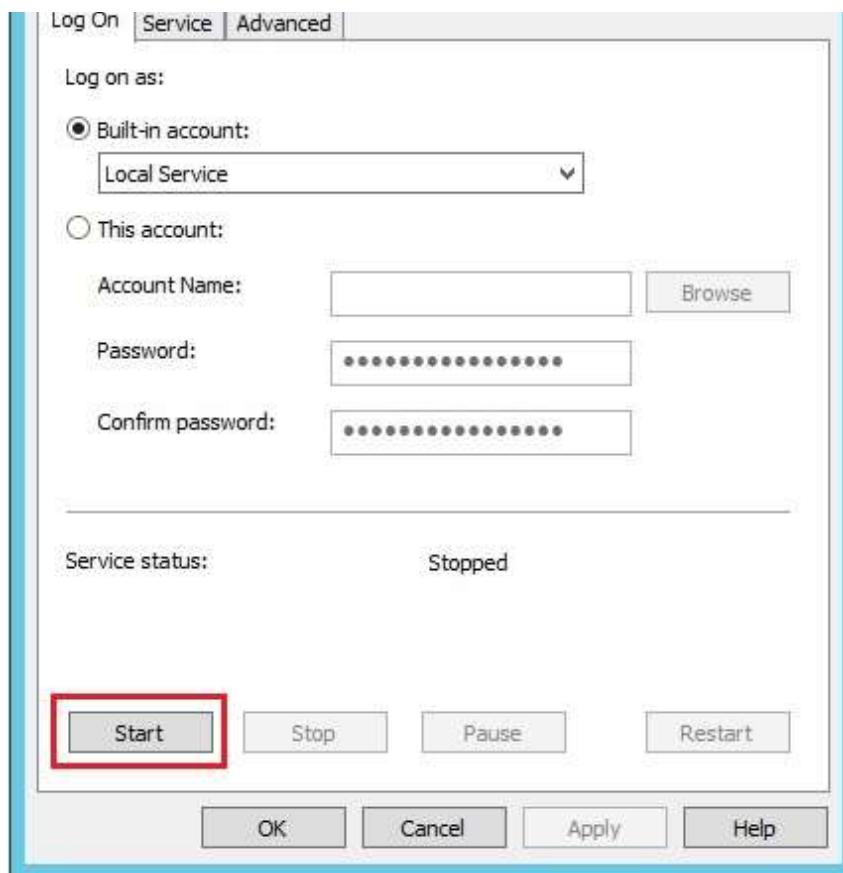
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Figure 12

4. Confirm that SQL Server Browser service is up and running as it is shown in Figure 13.

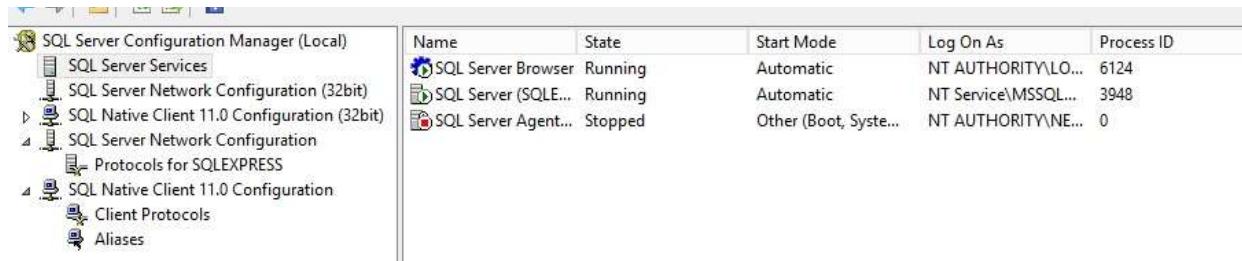


Figure 13

Important note: According to SQL server hardening best practices the SQL Server Browser service should be disabled. This service, which typically isn't required, responds to requests for SQL Server resources and redirects the caller to the correct port. Keeping the Browser service disabled will remove the redirector as an attack vector, helping to obscure the correct entry ways into your SQL Server components.

Configure the firewall to allow network traffic that is related to SQL Server and to the SQL Server Browser service.

Four exceptions must be configured in Windows Firewall to allow access to **SQL Server**:

1. A port exception for **TCP Port 1433**. In the New Inbound Rule Wizard dialog, use the following information to create a port exception:

- Select **Port**
- Select **TCP** and specify port **1433**
- Allow the connection
- Choose all three profiles (Domain, Private & Public)
- Name the rule "**SQL – TCP 1433**"

- Select **Port**
- Select **UDP** and specify port **1434**
- Allow the connection
- Choose all three profiles (Domain, Private & Public)
- Name the rule “SQL – UDP 1434”

3. A program exception for **sqlservr.exe**. Click New Rule again and use the following information to create a program exception:

- Select **Program**
- Click **Browse** to select ‘sqlservr.exe’ at this location:

[C:\Program Files\Microsoft SQL Server\MSSQL11.<INSTANCE_NAME>\MSSQL\Binn\sqlservr.exe] where
<INSTANCE_NAME> is the name of your SQL instance.

- Allow the connection
- Choose all three profiles (Domain, Private & Public)
- Name the rule SQL – sqlservr.exe
- A program exception for **sqlbrowser.exe** Click New Rule again and use the following information to create another program exception:

- Select **Program**
- Click **Browse** to select sqlbrowser.exe at this location: [C:\Program Files (x86)\Microsoft SQL Server\90\Shared\sqlbrowser.exe].
- Allow the connection
- Choose all three profiles (Domain, Private & Public)
- Name the rule SQL – sqlbrowser.exe

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About the Author: [Andrzej Gołębiowski](#)



I'm a Citrix Architect with 17 years experience in Microsoft and Citrix infrastructure. I have been working with Citrix since Metaframe 1.8 and my primary focus is on Server, Desktop and Application virtualisation with a preference for Citrix products. I'm an enthusiast of Citrix XenDesktop and Provisioning Server.

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I've tried to connect MS Access 2010 to my SQL Express 2012 Instance via network but it failed because of the Windows firewall.

Your tip with the SQL-Browser helped me a lot and solved my Problem.

Thank you 😊

 **Andrzej Gołębowski** April 10, 2014 at 10:33 am - [Reply](#)

Thank you for your comment. I'm glad you found this post usefull.

Andrzej

 **Hrvoje Kevic** April 10, 2016 at 10:31 am - [Reply](#)

I second this one. Even thought it was for an SQL 2012, but it was precise and concise as one blog should be.

Big thank you to Andrzej Gołębowski!

 **Jason** April 21, 2014 at 3:38 am - [Reply](#)

Very clear & complete instructions. Thank you.

 **Dave** May 16, 2014 at 12:35 pm - [Reply](#)

For my 64 bit SQL Express install on a 64 Bit version of Windows 7 I found that the location of sqlbrowser.exe was not at this location: [C:\Program Files\Microsoft SQL Server\90\Shared\sqlbrowser.exe]. It took me a few to locate it because it was actually located here: [C:\Program Files (x86)\Microsoft SQL Server\90\Shared\sqlbrowser.exe].



Andrzej Gołębowski October 9, 2014 at 12:31 pm - [Reply](#)

Thank you



Anne October 18, 2014 at 12:16 pm - [Reply](#)

Hello... I followed all the steps and when I get to netstat -ano | find /i "PID-Number-Of-SQL-Server",
I'm missing one line in the results. I do not get the Established line... can you help?



Andrzej Gołębowski October 20, 2014 at 7:19 am - [Reply](#)

Try to connect to sql server and than execute netstat -ano command.



Anne October 20, 2014 at 6:06 pm - [Reply](#)

Thanks... I am connected to SQL server...



Anne October 31, 2014 at 6:01 pm - [Reply](#)

Does not work even when connected to SQL....



david November 7, 2014 at 1:12 am - [Reply](#)

wow very clear.. and very helpful

thanks



Andrzej Gołębowski November 13, 2014 at 11:01 pm - [Reply](#)

You are welcome 😊



Terry Davidson December 14, 2014 at 3:33 pm - [Reply](#)

Andrew

Truly a useful explanation of what to do. I have been struggling with the other advice I found on the Internet but yours was direct and accurate.

Thanks very much

Java Hibernate with SQL Server 2012 not working? | Alita December 17, 2014 at 7:45 am - [Reply](#)

[...] I finished adult adding Firewall manners and following some of a stairs in this glorious configure SQL Express 2012 to accept remote connectors article. [...]



CJ January 3, 2015 at 7:25 am - [Reply](#)

excellent article, this is how documentation should be written. nothing has been assumed as a given and all spelled out step by step, a novice can follow it successfully.

perhaps you can add some additional points for the following topics:

- 1) how to specify connections using a specific IP address, as in the case when using a hosted virtual machine not part of your network
- 2) how to create SQL users and connect via sql server authentication in the case where the DB server is not part of the domain

Javier January 7, 2015 at 12:56 pm - [Reply](#)

**IT researcher** January 12, 2015 at 7:07 am - [Reply](#)

What if the windows firewall is disabled ?

**Andrzej Gołębowski** January 12, 2015 at 10:58 am - [Reply](#)

Check the event log for more information. If you have problem with connecting send me the error and I will try to help you to solve this problem.

**Matt C** January 13, 2015 at 3:40 pm - [Reply](#)

Absolutely amazing. Thank you for the very thorough instructions. I was beating my head against the wall for weeks! The real kicker for me was the part about adding a firewall inbound rules. That was what was holding me up.

Thank you!

Debugging Remote Connection Failure of SQL Server 2012 [closed] | Question and Answer February 2, 2015 at 4:50 am - [Reply](#)

[...] am running SQL server 2012 web edition on Windows Server 2008 R2. I have followed all these steps <https://blog.citrix24.com/configure-sql-express-to-accept-remote-connections/>. But still unable to connect remotely. How to debug and find why it is not working. Tried [...]

**Andrew Henson** March 10, 2015 at 12:03 am - [Reply](#)

Thanks for posting this, I tried it and it worked first time 😊

Petar March 26, 2015 at 1:32 pm - [Reply](#)

**CT** April 2, 2015 at 7:52 pm - [Reply](#)

thank you for this article. for those having issues with the netstat -ano command try this: netstat -ano | findstr %PID%

**FreeWebProxies.org** April 6, 2015 at 5:04 am - [Reply](#)

Thanks for posting this, I tried it and it worked first time!

**Vijay Dsouza** April 13, 2015 at 12:59 pm - [Reply](#)

Thanks

**JRB** April 16, 2015 at 6:47 am - [Reply](#)

You did a very good job Andrzej, an excellent article.

**Pete** May 8, 2015 at 5:58 am - [Reply](#)

Nice Article. very informative. Cheers!!

**sahin** May 8, 2015 at 8:40 am - [Reply](#)

hi. in my SQL server configuration manager, i cannot see any protocol section under sql server network configuration. there is nothing under sql server network configuration. what should i do? i cannot enable tcp/ip.

Marcos Paulo May 13, 2015 at 10:59 am - [Reply](#)

 **Andrzej Gołębowski** May 13, 2015 at 11:36 am - [Reply](#)

Thanks for update. I corrected my mistake with sqlbrowser location.

 **Online Odisha** May 19, 2015 at 4:24 pm - [Reply](#)

This post is very useful to me. Thanks for this post

 **Jane** June 1, 2015 at 5:31 pm - [Reply](#)

Thanks very much, it is very helpful.

 **Alfredo** June 10, 2015 at 12:02 am - [Reply](#)

hello, excellent tutorial. Perform all the steps above but I failed to connect remotely. If I am in a local network it works perfectly , but when I try from a pc that is not on the local network is down . And probe everything you say on the internet and still not managed to fix it . I have the firewall configured , the router with ports 1433 and 1434 open the TCP / IP configured and enabled . If you have any idea which may be my problem would be very grateful to you for help .

 **glany** June 12, 2015 at 10:20 am - [Reply](#)

Thanks a lot. It helped me

 **L.N.Vu** June 13, 2015 at 5:49 am - [Reply](#)

Very excellent instruction, Thank you Andrzej .

remote co... [...]



Julio del Aguila July 9, 2015 at 3:35 am - [Reply](#)

Excellent, Thanks



Mark July 9, 2015 at 9:20 am - [Reply](#)

Thank you



Ian Dalrymple July 11, 2015 at 6:36 pm - [Reply](#)

Good work, very clean and well done instructions. I wish I had found this a while back and would have saved a lot of time. Thanks for putting this together.



Daniel July 21, 2015 at 6:23 am - [Reply](#)

Thank you very much. This was a huge help.



A July 23, 2015 at 2:05 pm - [Reply](#)

For :

"A program exception for sqlbrowser.exe Click New Rule again and use the following information to create another program exception:

Select Program

Click Browse to select sqlbrowser.exe at this location: [C:\Program Files (x86)\Microsoft SQL Server\90\Shared\sqlbrowser.exe].

Allow the connection

Choose all three profiles (Domain, Private & Public)

Name the rule SQL – sqlbrowser.exe"

Excelent.....

Thank For U



Andreas August 6, 2015 at 10:23 am - [Reply](#)

Thank you very much for the beautiful all-encompassing instructions. Being very new to SQL server I've been blundering about for days trying to accomplish this task. It works the same on SQL Server 2014.



Joachim Berger August 8, 2015 at 3:32 pm - [Reply](#)

Again it worked for me. Thank you!



Jaison Lucas August 22, 2015 at 8:46 pm - [Reply](#)

Thanks for the post. Been looking to do this for the last 3 days then landed onto this post. worked perfectly as illustrated.



Brian August 27, 2015 at 4:04 pm - [Reply](#)

You're a gentleman and a scholar. Thanks!



Maxx September 1, 2015 at 3:01 pm - [Reply](#)

You are the star! Thanks a lot for this post. It saved me some days or maybe even weeks!

Nastavenie SQL Express 2012 pre akceptovanie vzdialeného pripojenia | IT Blog September 1, 2015 at 8:03 pm - [Reply](#)

[...] Viac informácií nájdete tu: <https://blog.citrix24.com/configure-sql-express-to-accept-remote-connections/#14> [...]

**Ajit** September 15, 2015 at 2:36 pm - [Reply](#)

Worked Perfectly. Thank you for the detailed explanation.

**Vin** September 18, 2015 at 4:29 am - [Reply](#)

Excellent article Andrzej, you just made my day. I was troubleshooting the SQL connection issue since morning and I'm glad that I found your article. Good job, keep it up. All sorted now 😊

**badr** October 2, 2015 at 10:55 am - [Reply](#)

just awesome !!!!

**john** October 4, 2015 at 10:13 pm - [Reply](#)

Hi Andrzej,

Thank you so much for this detailed documentation. You made my day!
I had a problem connecting to a named sql server (Widows Server 2008R2/SQL Server 2012) instance hosted in a Virtual machine, which is a complicated environment that is hard to know which part of setting is missing. I've searched and tried many other documentation online but no luck. Your detailed documentation solved my problem right away. Your detailed instruction for configuring firewall port and program was most helpful.

Thank you for your great article which solved my problem.

**James** October 9, 2015 at 10:50 am - [Reply](#)

Excellent guide. Within 15 minutes got it working and now have remote access. Keep up the good work.

Cato October 9, 2015 at 4:11 pm - [Reply](#)

static port in this context. You say you are skilled so show it 😊

This is simple, if you use static ports you do not use SQL browser and do not need to open it in the firewall. SQL browser is used when dynamic ports are configured for SQL server. So to me it looks like you are saying that they must open for both and have SQL server browser service running even with static ports, that is not the case. If you open for SQL browser as a program in the firewall you don't need to add udp port. And what's up with the netstat? It is a completely unnecessary step to perform as you the configuration and the dynamic port in sql configuration manager and if it is setup with static or dynamic from the beginning.

One thing to mention, if you install SQL server with the default instance it is setup with the static port 1433 with tcp/ip disabled. If you install it with a named instance it is setup to dynamic ports. So this would apply to every new named instances that it will be setup to use dynamic ports.



Yoann October 10, 2015 at 6:26 pm - [Reply](#)

Very well written. Thank you very much.



Lester November 5, 2015 at 10:21 pm - [Reply](#)

is that instructions will allow me to remote access to my sql server over the internet?? thanks..



Manuel Macias November 19, 2015 at 8:09 am - [Reply](#)

Very clear and useful. These instructions were helpful for sure. Thank you, congratulations!
Mexican .net POS developer



lavish November 24, 2015 at 9:16 am - [Reply](#)

I selected mixed mode for authentication, but test connection is successful via SQL security method but not by windows authentication method

else was very clear and spot on. I had it configured in about 10 minutes. Great article!



Winston Malana December 13, 2015 at 5:26 am - [Reply](#)

Hi Mark,

You just wow us. This post is simply the BEST and I can't stop my self from giving this compliment. I am running a software development company and your article has been very useful to us. A step by step, clearly demonstrated with each instruction perfectly understandable. Thank you for sharing your knowledge to the world. Please don't get tired sharing your talent. Kudos to your work Mark. Thanks again- Wins, Manila Philippines.



Venugopala December 17, 2015 at 6:35 am - [Reply](#)

Thank you very much. I was trying to set this and I was missing the Section 6 and 7 IPAll configuration.

Beautiful explaination



Javier December 29, 2015 at 12:03 pm - [Reply](#)

Thanks,

Excellent explanation!



Sandip Kumar January 30, 2016 at 3:51 pm - [Reply](#)

Very nice article and really helpful for people who needs connection across local network



Niraj Sevalkar February 4, 2016 at 5:40 am - [Reply](#)

Superb illustration 😊



David Sukola February 11, 2016 at 9:28 pm - [Reply](#)

Great walk through on getting a remote connection for MSSQL 2012 up and running. Works wonderful for us.



Daniel February 18, 2016 at 6:36 pm - [Reply](#)

Great post. It helped me a lot. I had to link the remote server first on destination; next, I had to execute this:

```
sp_addlinkedsrvlogin  
@rmtsrvname = N'TELLWARE',  
@locallogin = N'your local user',  
@useself = N'False',  
@rmtuser = N'your remote user',  
@rmtpassword = N'xxxxxxxx'
```

Create a trial Windows Enterprise 8.1 on a headless Ubuntu server – Software Technology March 25, 2016 at 10:41 am - [Reply](#)

[...] How to configure SQL Express 2012 to accept remote connections [...]



Reza Ghandchi March 28, 2016 at 5:49 pm - [Reply](#)

Thank you so much ...
It helped me a great deal

Installing SQLServer 2008 R2 on Windows 8.1 Pro – Software Technology April 15, 2016 at 12:45 pm - [Reply](#)

[...] How to configure SQL Express 2012 to accept remote connections [...]



Leo Chen June 15, 2016 at 12:28 am - [Reply](#)

Thank you very much.
Help me a lots.

How to configure SQL Express 2012 to accept remote connections – dangphongvanthanh July 13, 2016 at 6:24 am - [Reply](#)

[...] Enable remote connections on the instance of SQL Server that you want to connect to from a
remote co... [...]



Andrea Brice July 27, 2016 at 11:49 pm - [Reply](#)

Still working even after all these years. THANK YOU!!!! Clearly written.



Jarel Walker August 17, 2016 at 2:45 pm - [Reply](#)

Thank you so much. I was banging my head against my desk for over a week trying to get a two
controller setup working with SQL Express. These instructions worked like a charm!



Ozzy September 2, 2016 at 10:59 am - [Reply](#)

Must say thanks for this. It worked IMMEDIATELY on Windows 10 + SQL Server Management Studio +
SQL Server 2012 Local instance. I really expected something to go wrong (as they usually do) but it
worked. Something I will have to put more effort into (writing really comprehensive tutorials). Thanks
a lot.

Carl September 14, 2016 at 9:43 am - [Reply](#)



Harishankar November 4, 2016 at 11:34 am - [Reply](#)

Excellent article, Precise and concise. Appreciate it. Thanks much.



Hemant November 14, 2016 at 7:22 am - [Reply](#)

this helped me solve my problem. Thanks!



Sabir November 15, 2016 at 9:46 pm - [Reply](#)

Thanks a lot you are a life saver.



sachin December 1, 2016 at 9:01 am - [Reply](#)

worked like a charm 😊



Anton Stein December 7, 2016 at 3:13 pm - [Reply](#)

You are my hero! Thank you so much for this.. I can't believe it worked.



Khumz December 8, 2016 at 3:34 pm - [Reply](#)

This post worked perfectly for me. Thank you



David Brown December 15, 2016 at 3:56 am - [Reply](#)

Very well written post. I followed all of your steps, but now I am getting the following error:



Shujauddin Ahmed January 2, 2017 at 11:31 am - [Reply](#)

Thanks a alot.



Miguel January 20, 2017 at 7:55 am - [Reply](#)

Thans so much for the post, It's a very clear step by step to configure sql express 2012 to accept remote connection.



sgwong January 22, 2017 at 4:44 pm - [Reply](#)

It worked, it worked, it worked!!!
Thx for the detailed post....it save my day!



Thompson March 30, 2017 at 12:48 pm - [Reply](#)

Unfortunately this has not worked on windows 7 and I don't know why? please can someone help !!!



Andrzej Gołębowski March 30, 2017 at 12:51 pm - [Reply](#)

Hi,
Can you please provide more details ?

Andrzej



Shay Frenkel April 10, 2017 at 3:50 pm - [Reply](#)

Thank you very much for this wonderful post!

**Mujtaha** April 11, 2017 at 10:05 am - [Reply](#)

Done all but i am not getting ESTABLISHED line shown in fig 7 and fig 9. Any ideas ?

**Amar Kumbhar** April 20, 2017 at 11:48 am - [Reply](#)

Thanks . Very useful

**Raed** May 19, 2017 at 6:32 am - [Reply](#)

Thank you very much

**Sunit Ranjan Poddar** May 22, 2017 at 2:36 pm - [Reply](#)

Hi,

Your article was really very helpful. Although i'm stuck where we've to change the SQL server's TCP port to 1433 and dynamic port is left blank. I'm getting "windows could not start the sql server on local computer" error while restarting the service.

Please find the link and see the error that i'm getting –

<http://prntscr.com/farp7e>

When i followed the error in Event Log i found this –

<http://prntscr.com/farq70>

**Carl Nightingale** May 28, 2017 at 1:27 am - [Reply](#)

3 hours spent trying to sort a remote connection tonight until I found this post. Fantastic job, well written & worked first time.

I can't help wondering...."Is this really the way MS intended people to spend their Saturday nights?
Surely there's a simpler way?"

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+ four = five



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