

# CPS – external SQL DB

Conteg Pro Server manual

**DATABASE MANUAL**

**➤ EN**

**CONTEG**

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## Preliminary steps

1. Configure SQL Server (including Express Editions) for remote access: enable TCP/IP protocol and the SQL Server Browser service.
2. Add exceptions in the Windows Firewall for sqlservr.exe and its ports.

We'll cover these steps below, using this blog as the source for information:

<http://akawn.com/blog/2012/01/configuring-sql-server-2008-r2-express-edition-for-remote-access/>

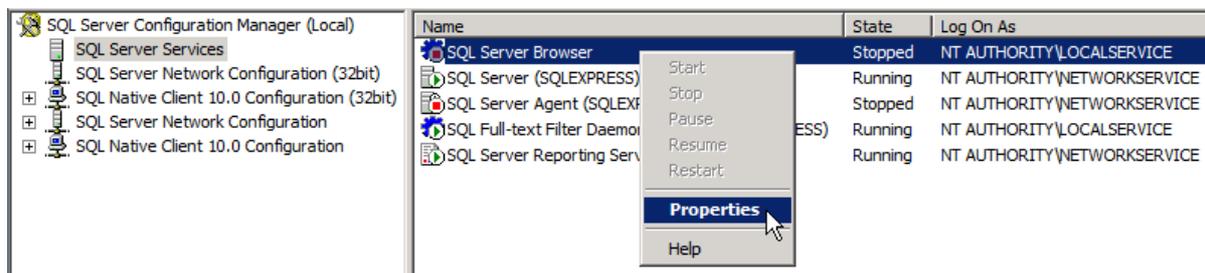
## Configuring SQL Server 2008 R2 Express Edition for remote access

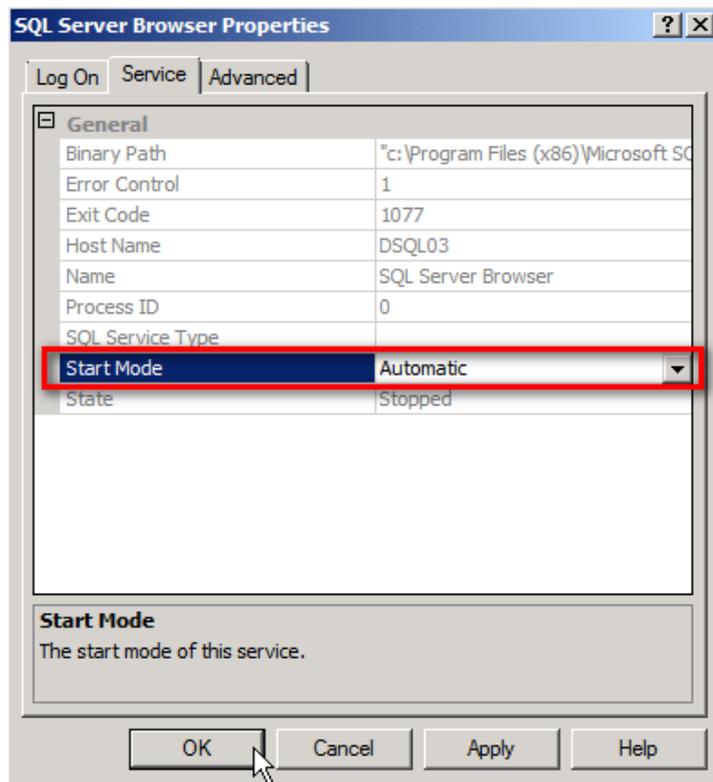
Below are the steps to allow remote access to a SQL Server 2008 R2 x64 Express Edition instance after the default install steps where performed.

Also included are the additional configuration steps for SQL Server 2008 R2 x64 Express Edition with Advanced Services.

The steps were performed on Windows Server 2008 R2 64bit.

Start the **SQL Server Configuration Manager** from the Start menu, and choose Services.





Find the **SQL Server Browser** service and set its Start Mode to Automatic, then start it.

Name	State	Log On As
SQL Server Browser	Stopped	NT AUTHORITY\LOCALSERVICE
SQL Server (SQLEXPRESS)	Running	NT AUTHORITY\NETWORKSERVICE
SQL Server Agent (SQLAGENT)	Stopped	NT AUTHORITY\NETWORKSERVICE
SQL Full-text Filter Daemon	Running	NT AUTHORITY\LOCALSERVICE
SQL Server Reporting Services	Running	NT AUTHORITY\NETWORKSERVICE

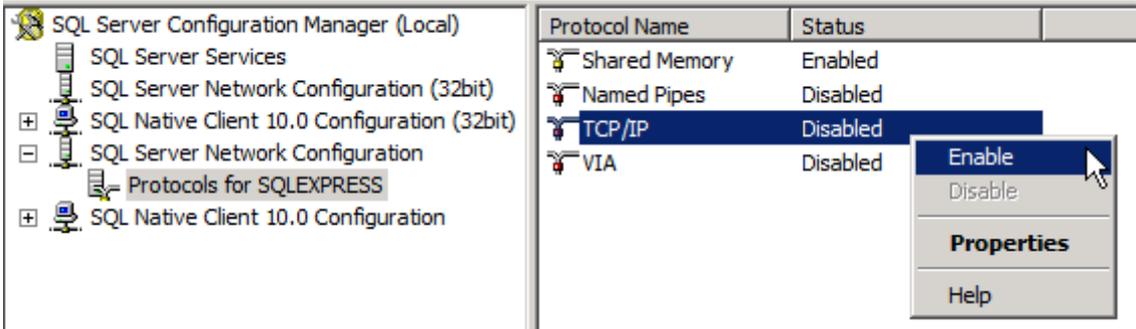
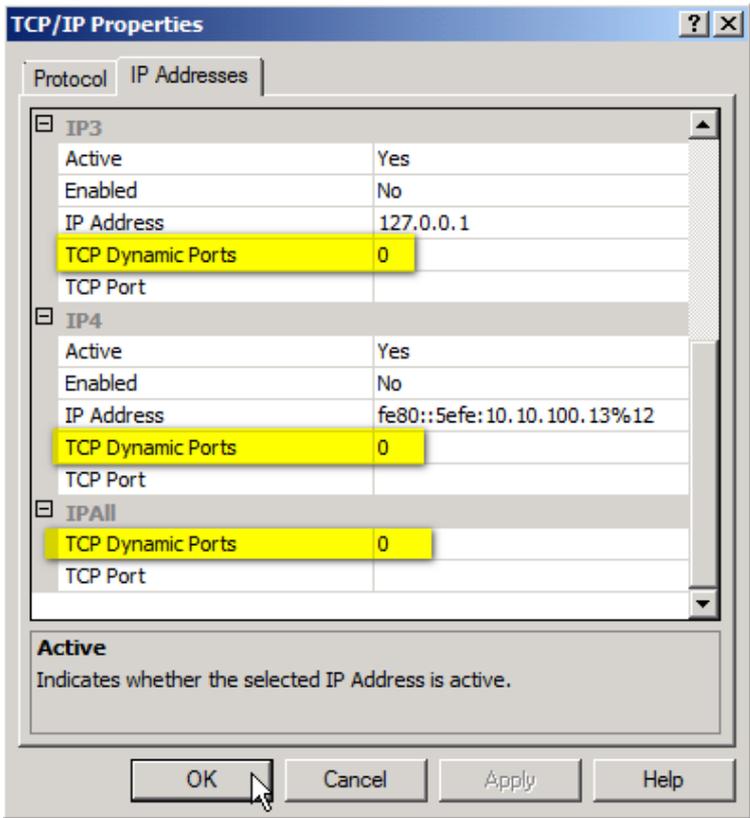
Protocol Name	Status
Shared Memory	Enabled
Named Pipes	Disabled
TCP/IP	Disabled
VIA	Disabled

Next go to **Protocols** in the Network Configuration, and find TCP/IP.

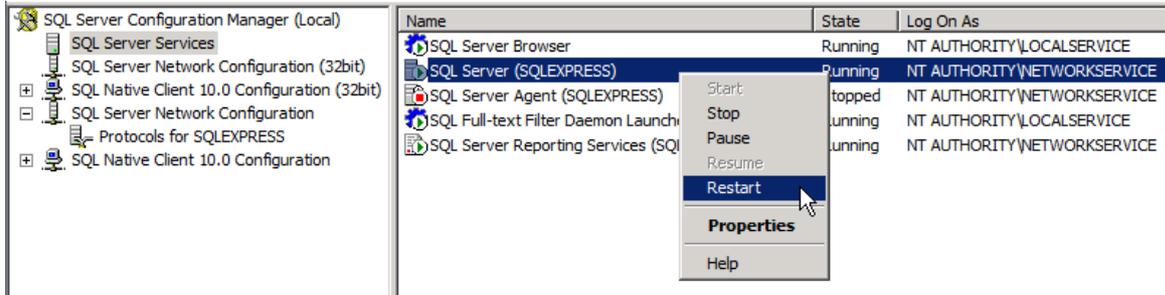
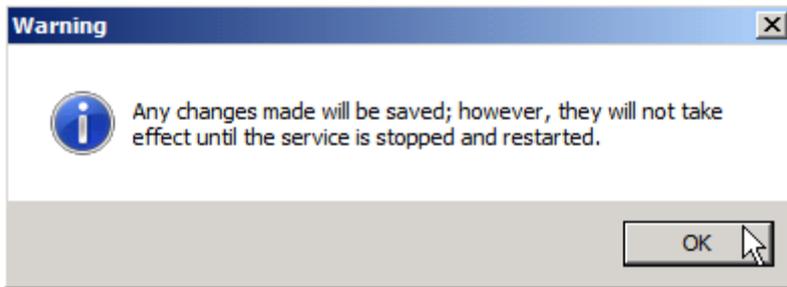
Below you can see that by default, SQL Server Express allocates a Dynamic port when SQL Server starts.

You can either keep this setting or change SQL Server to listen on a fixed TCP port e.g. TCP 1433. This can be achieved by removing 0 from all the 'TCP Dynamic Ports' rows and placing the fixed TCP port you want to use on all the 'TCP Port' rows below it.

***For this demo we will keep SQL Server allocating a Dynamic port on start-up and therefore we have not changed anything on this tab.***



Enable the protocol.

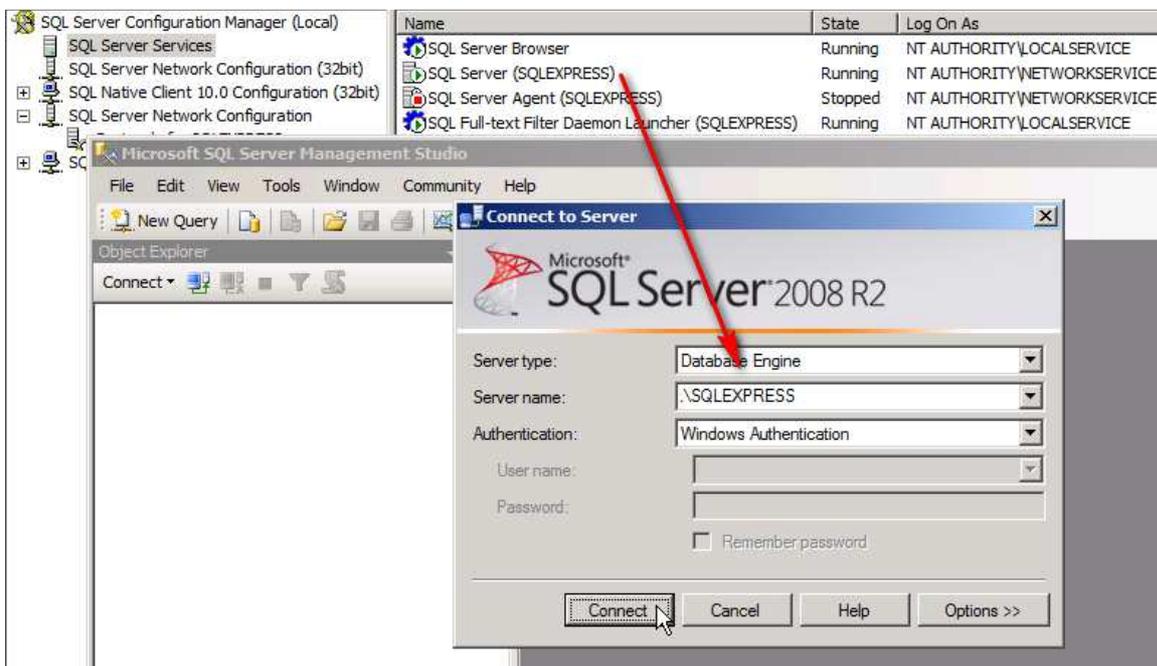


Finally, restart the SQL Server service to apply the changes.

Next, open the **SQL Server Management Studio**.

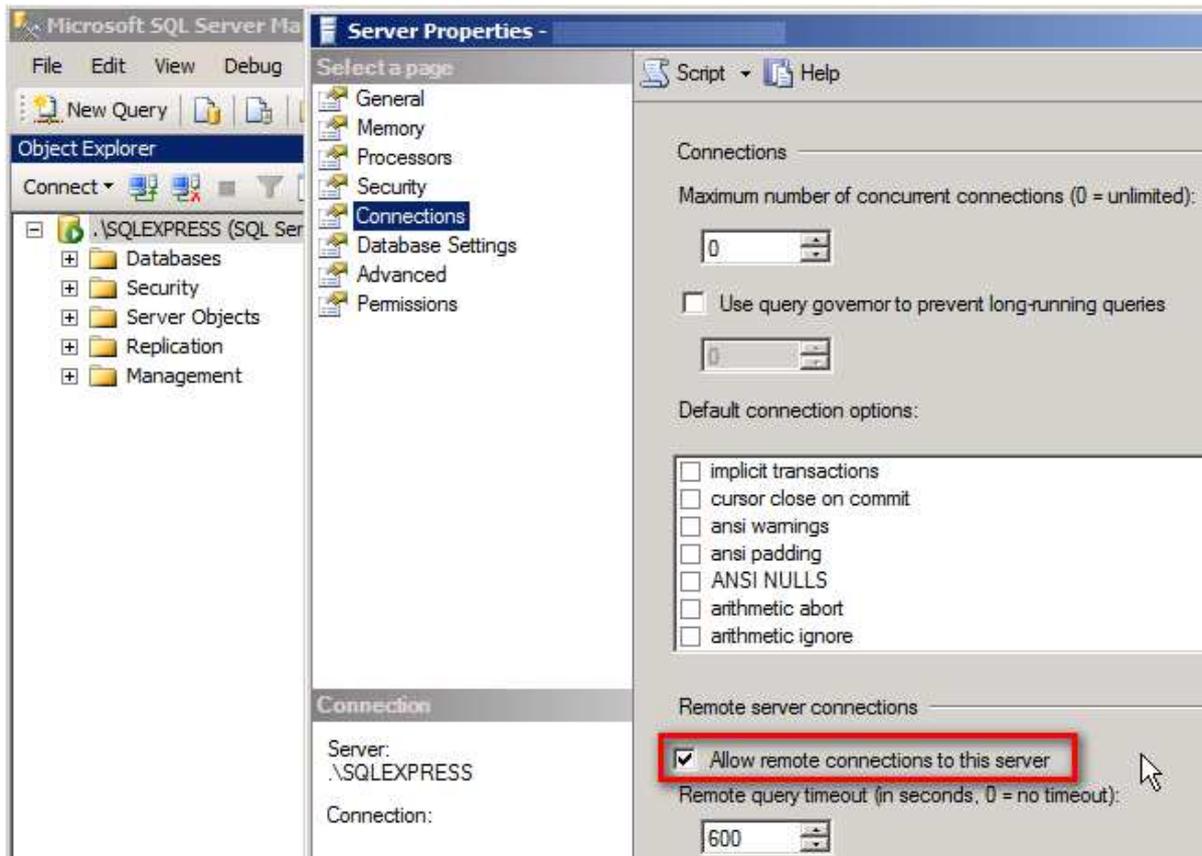
Connect to SQL Server Express on the server you installed it.

As below you can see the instance when SQL Server Express is installed is called SQLEXPRESS if you did not change it.



Right click on the server, and select **Properties**.

The below should already be enabled, but if it isn't, then enable it and restart the SQL Server service.

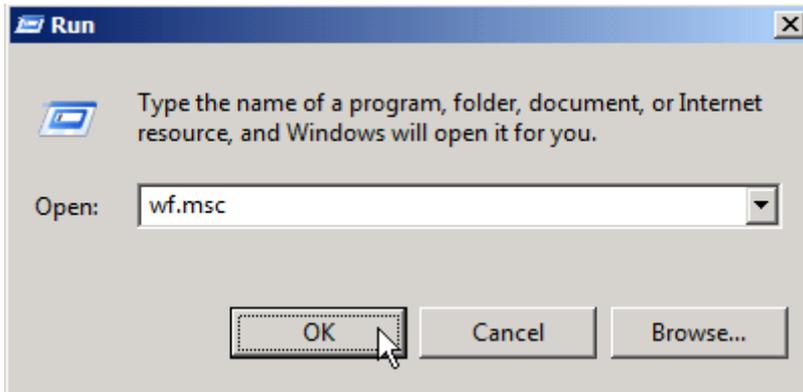


Check that **Allow remote connections to this server** is enabled

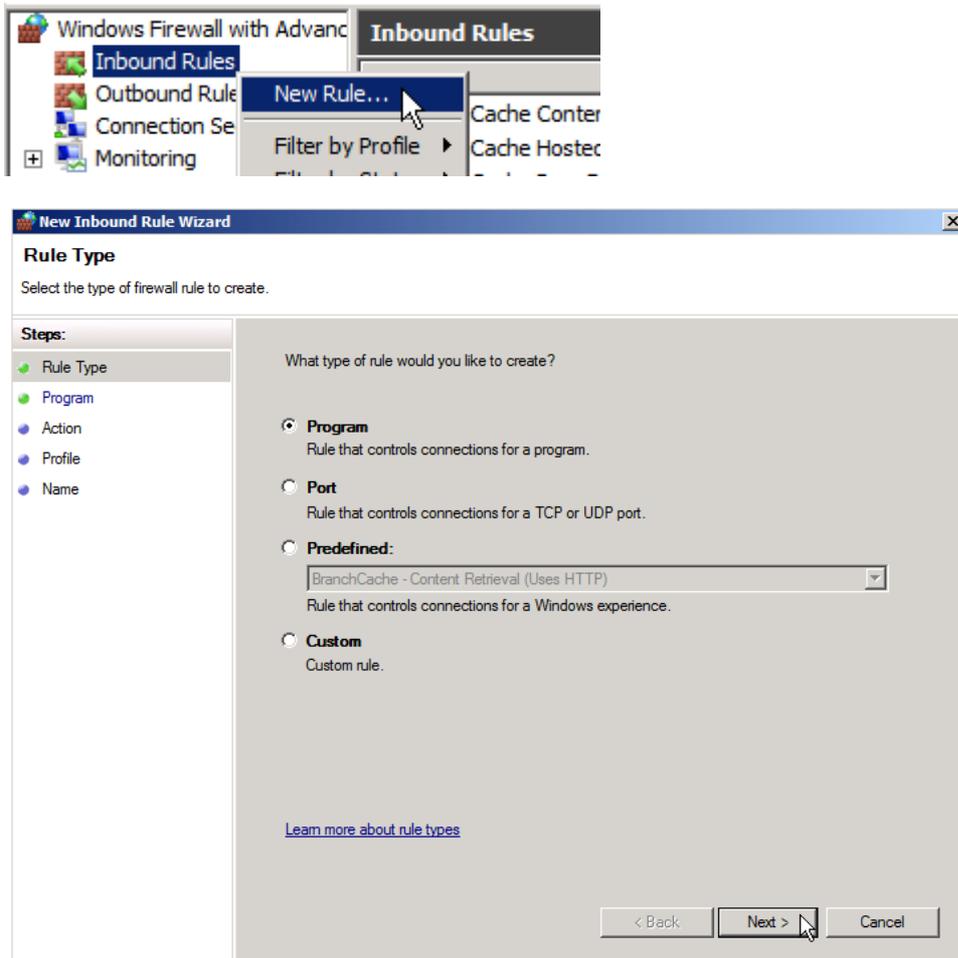
## Firewall configuration

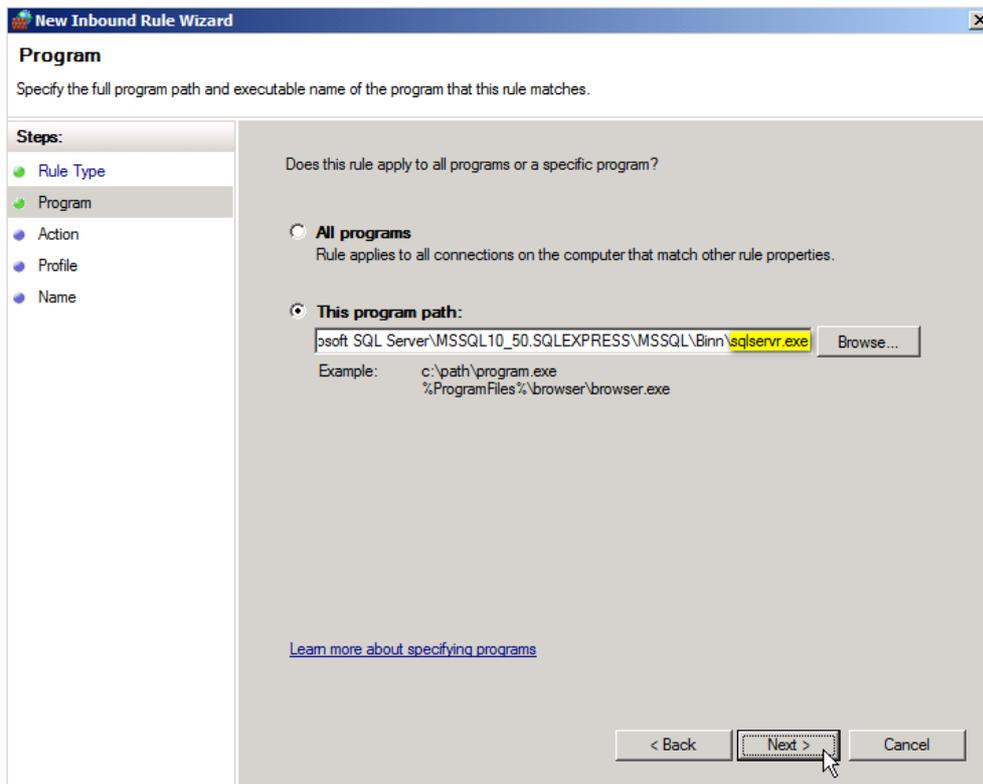
If you have the Windows Firewall turned on, you'll need to do the following steps.

Start the **Windows Firewall with Advanced Services** configuration:

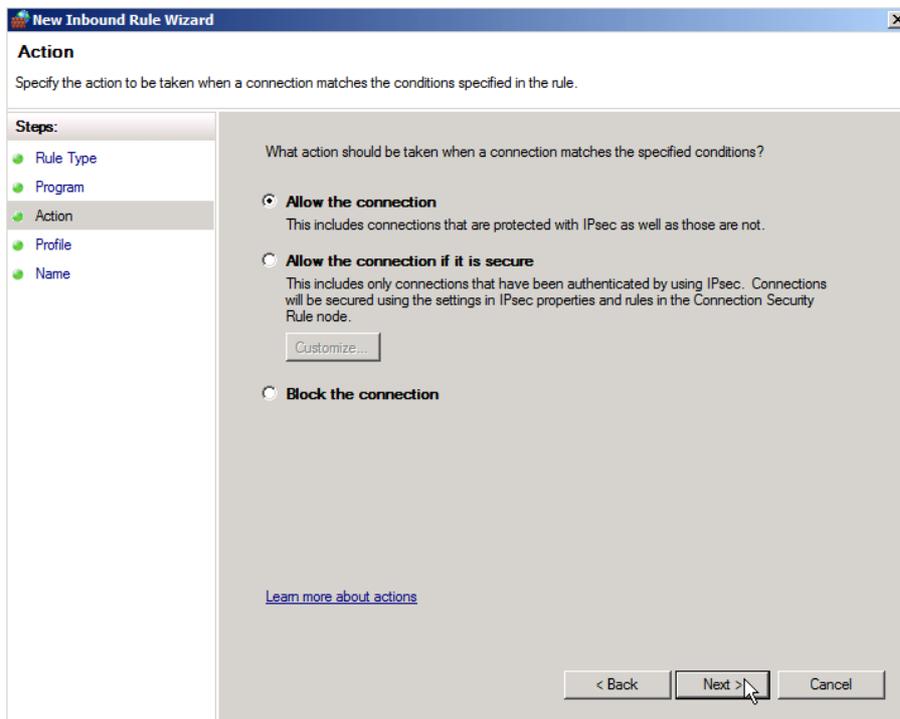


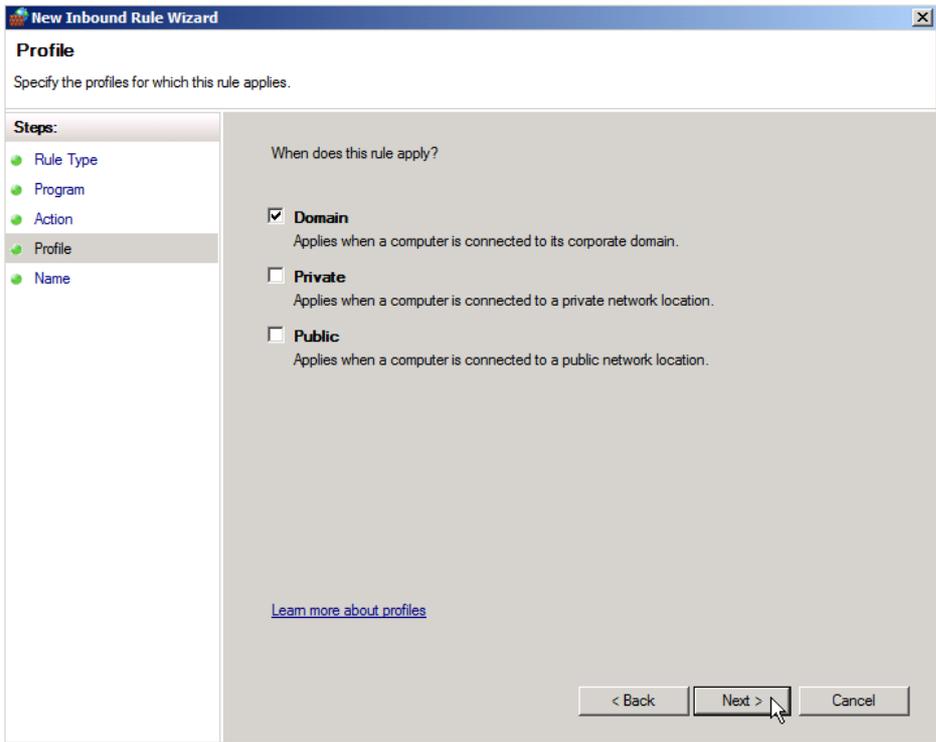
Add a new rule:



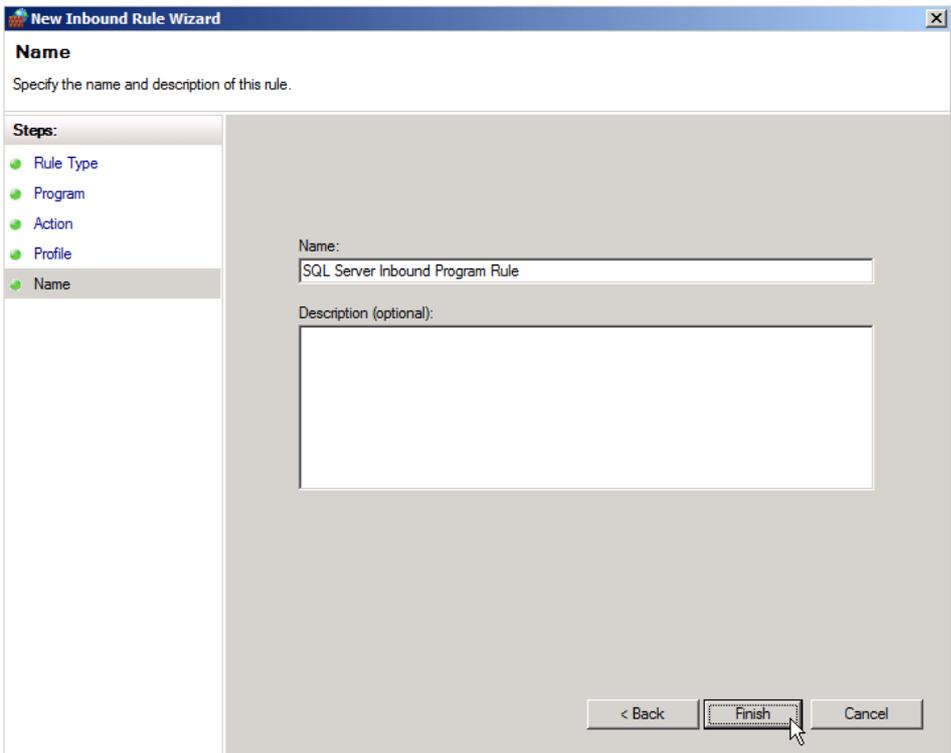


Choose the sqlservr.exe



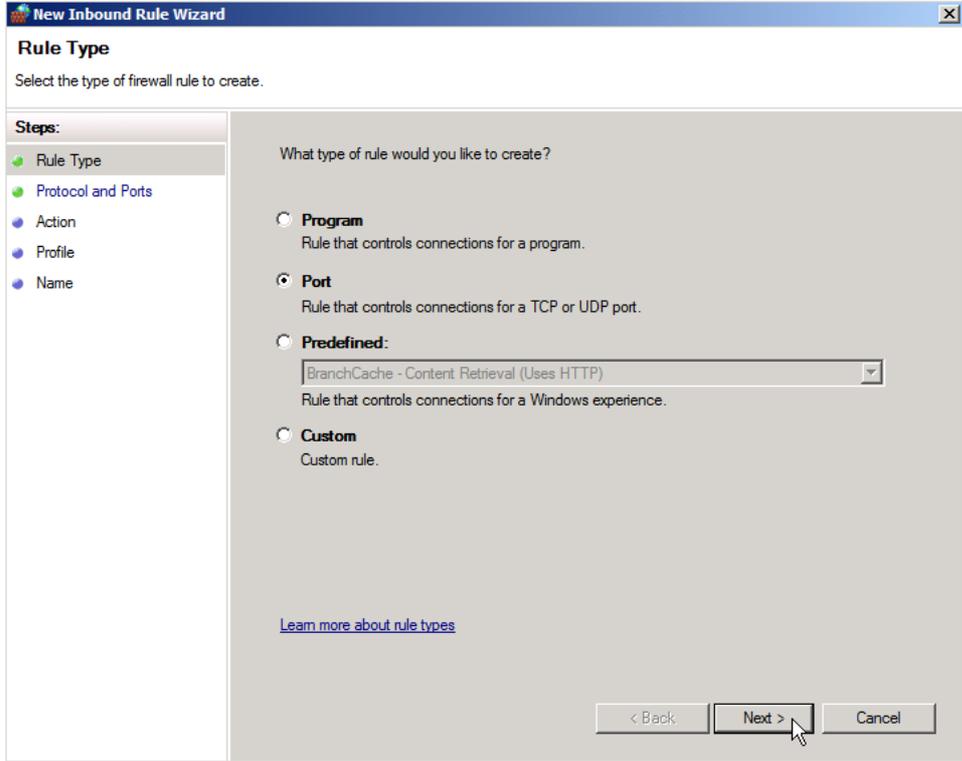
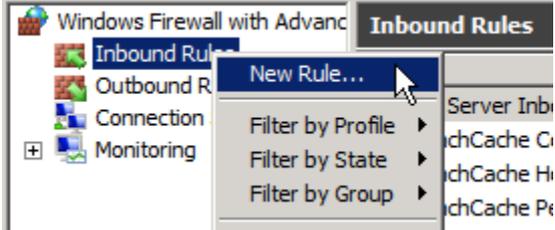


Select the network profiles where this rule applies.

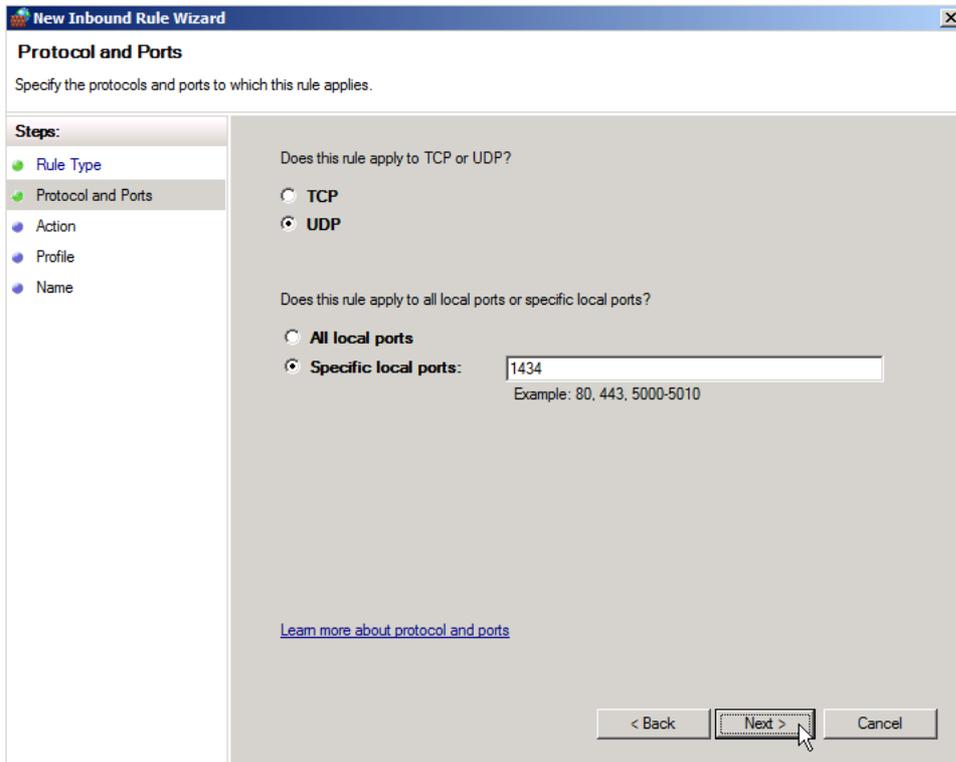


Finally, give it a name.

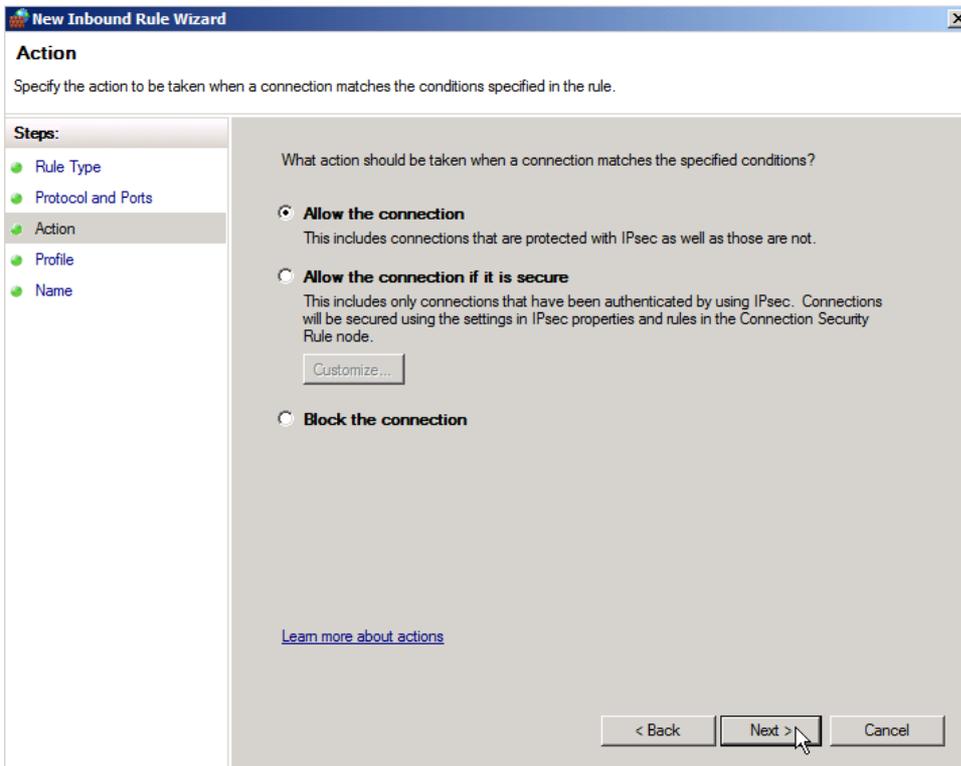
# Configure the required firewall ports

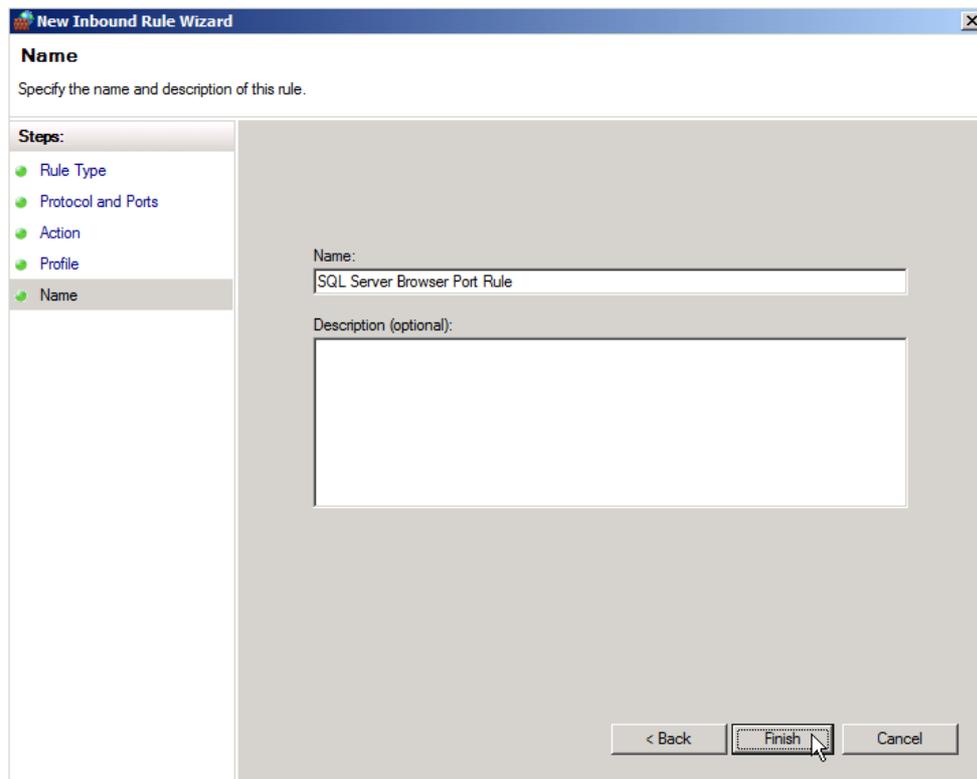
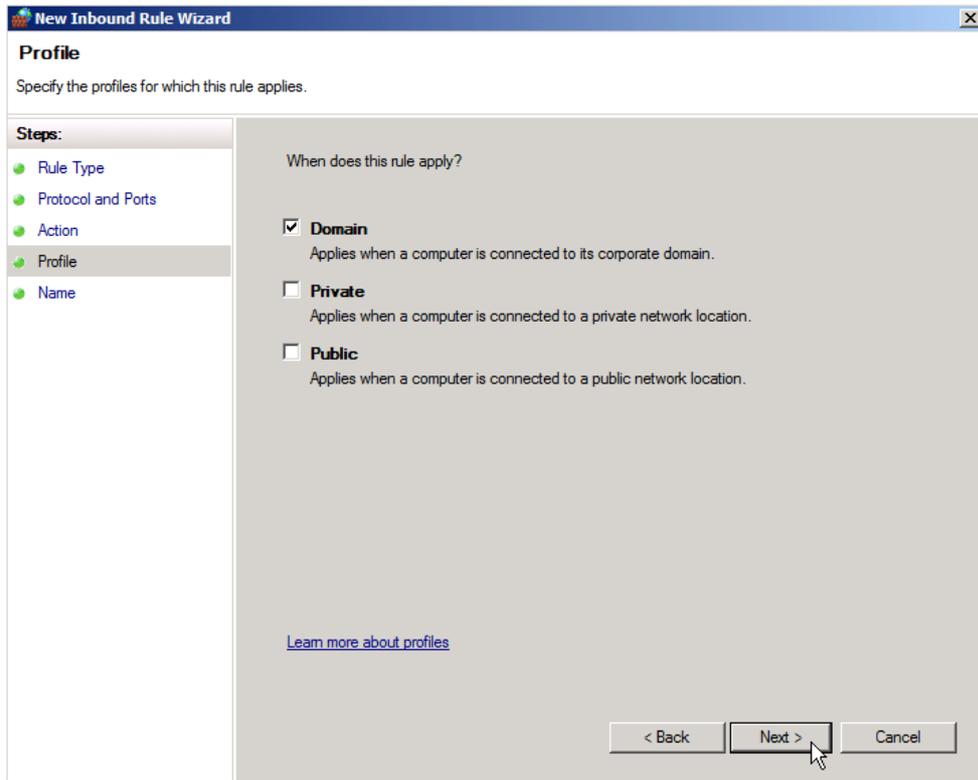


Choose Port



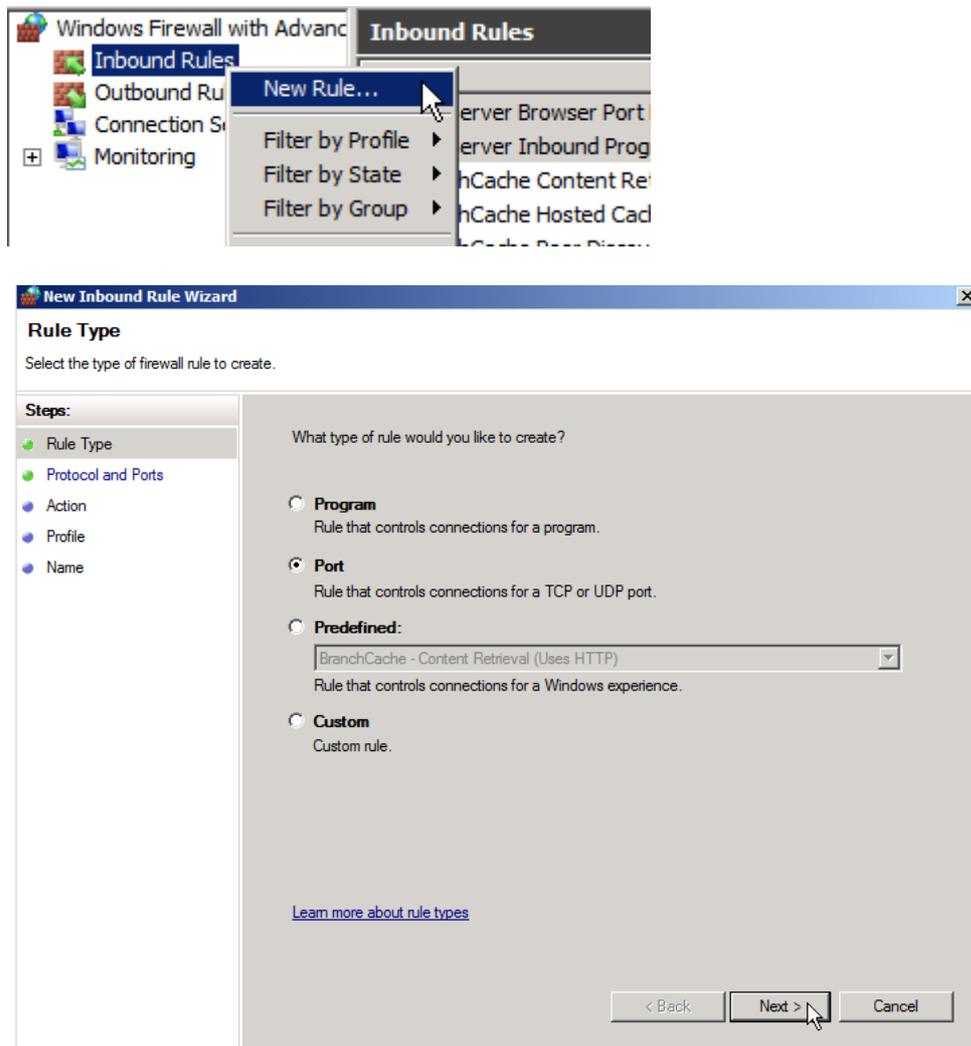
The default port is UDP 1434



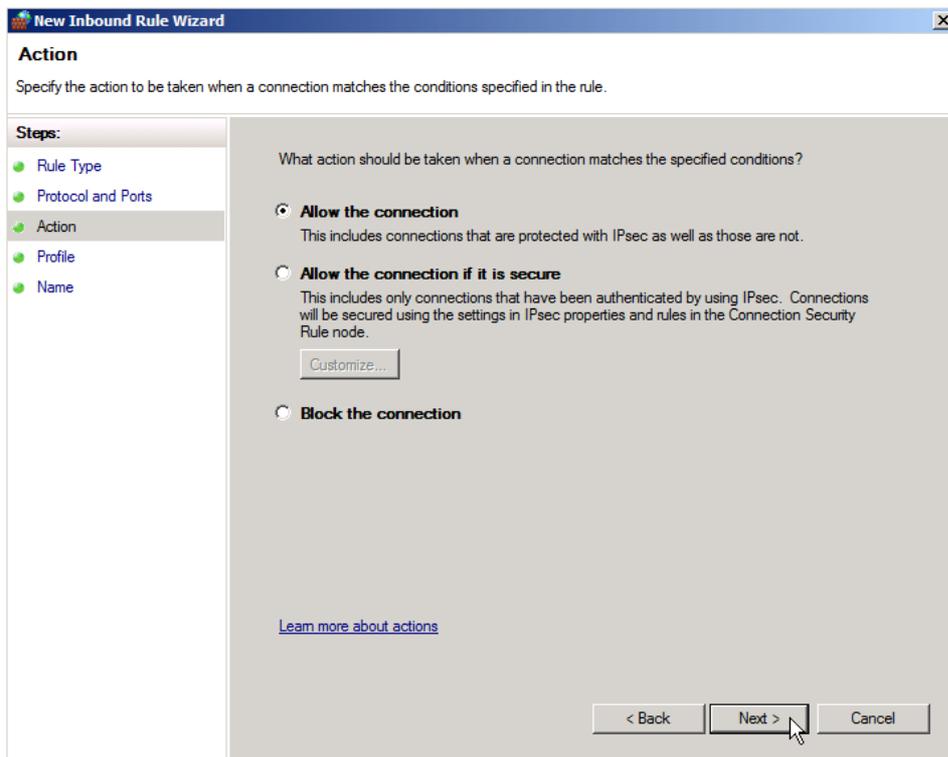
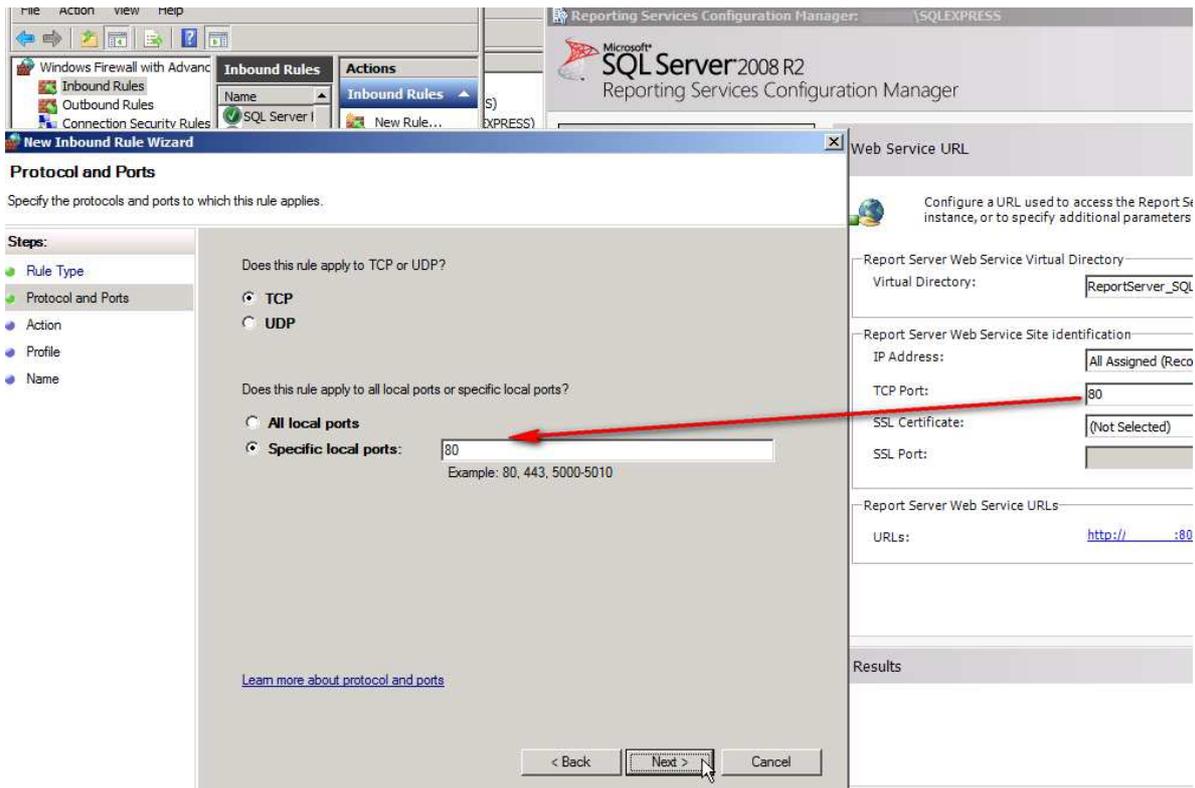


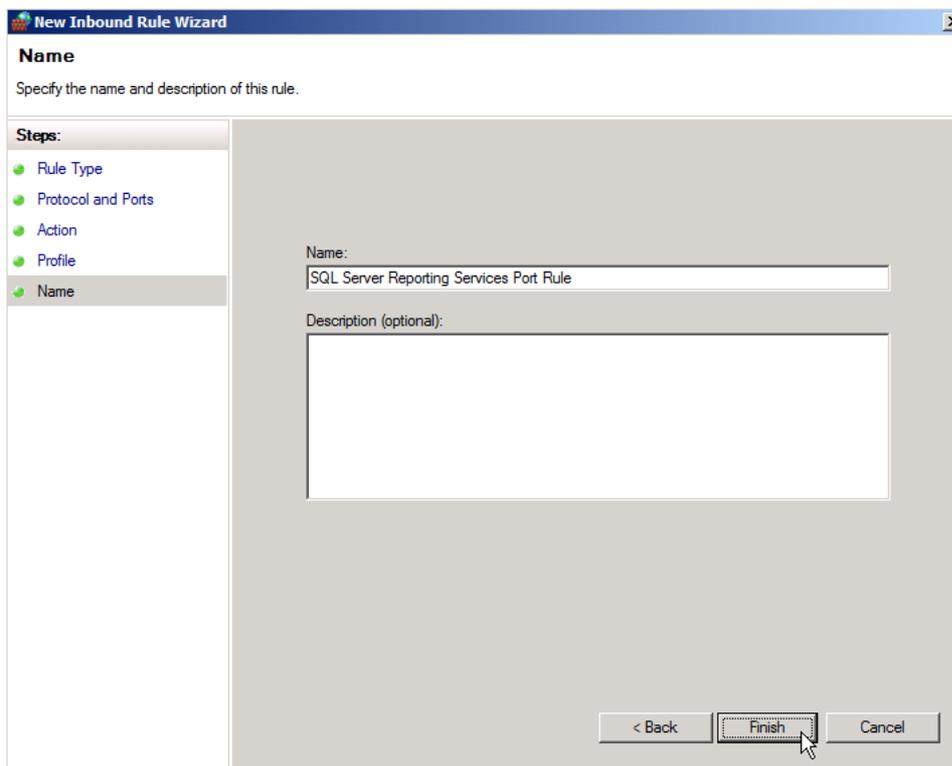
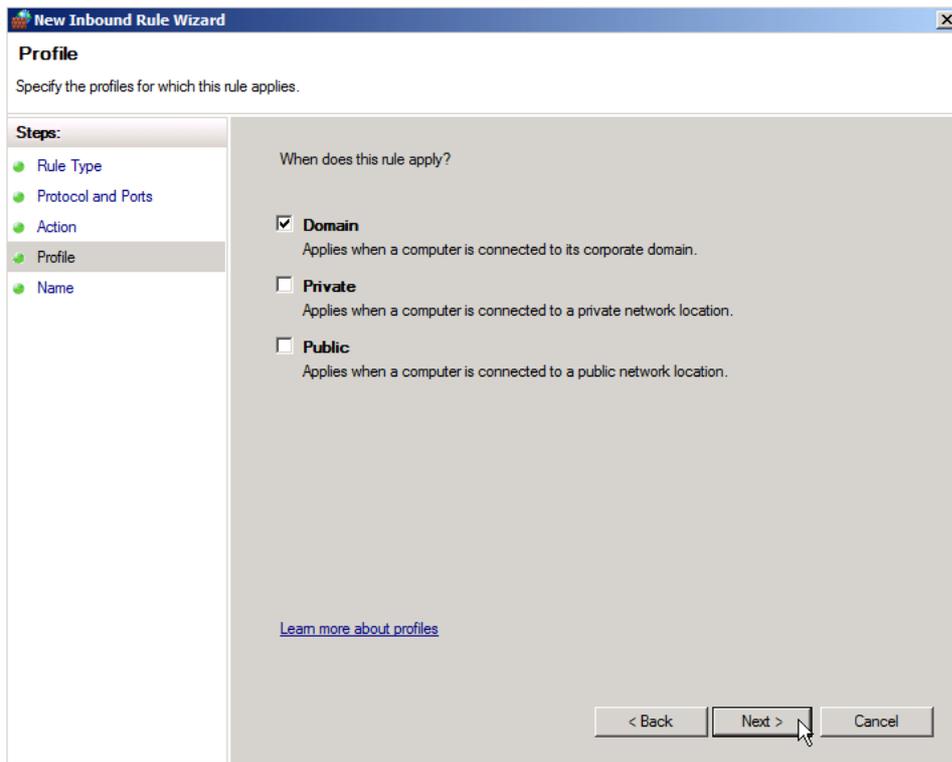
## Configuration options for SQL Server Reporting Services

The Firewall Port rule below is required only if you installed SQL Server Express with Advanced Services and selected the SQL Server Reporting Services feature.

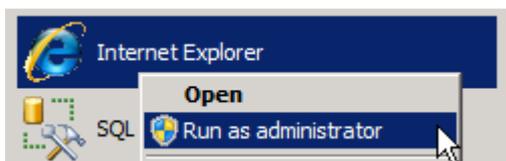


If you changed the HTTP TCP port from the default on 80, then you should enter the port you are using here.

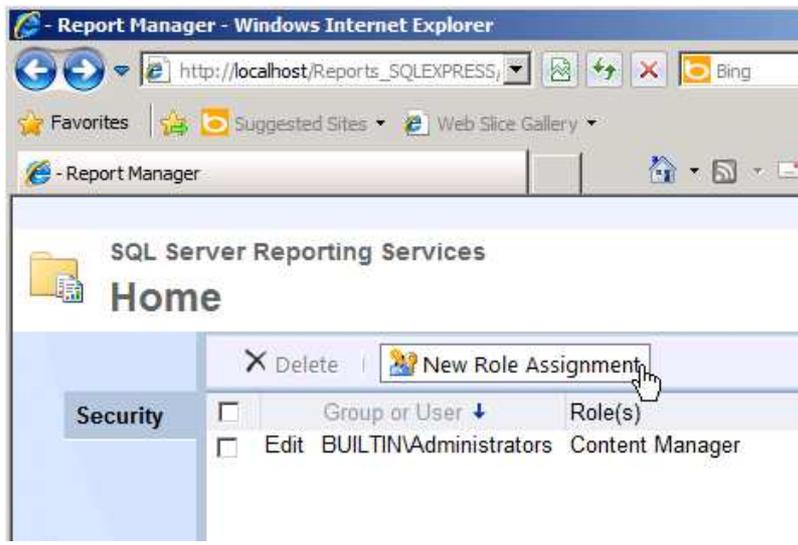
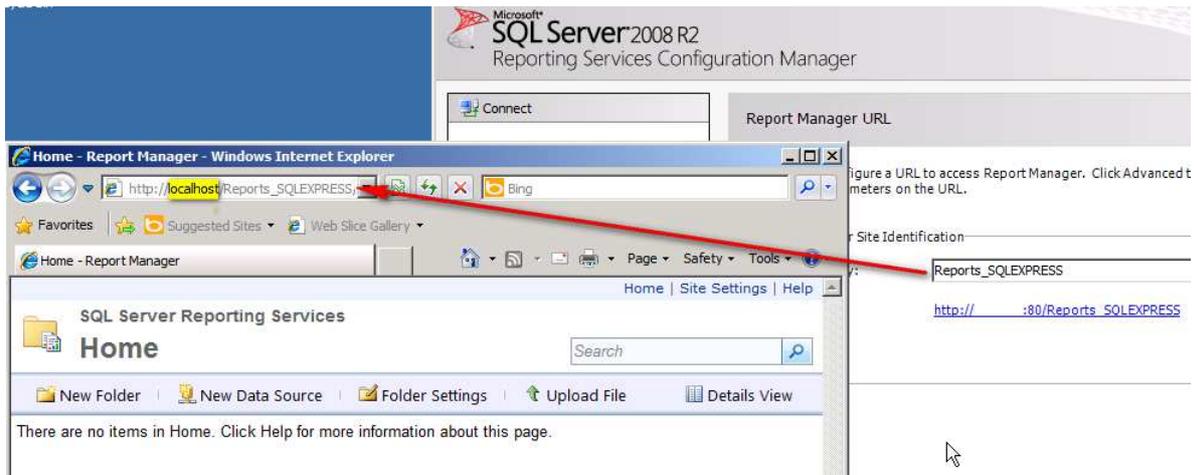




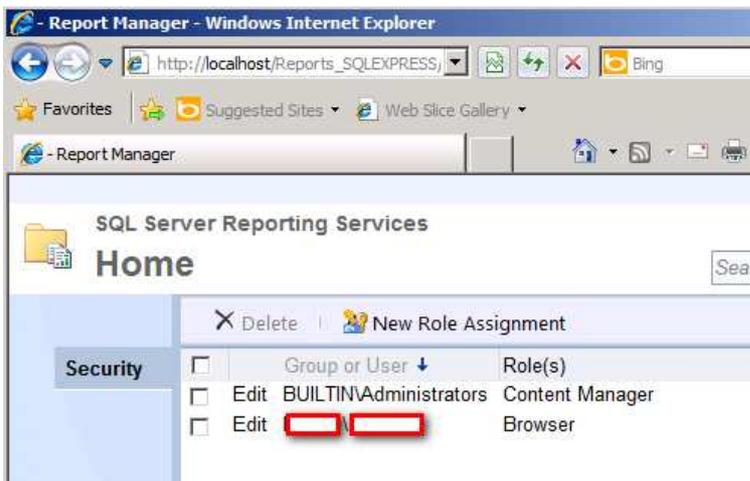
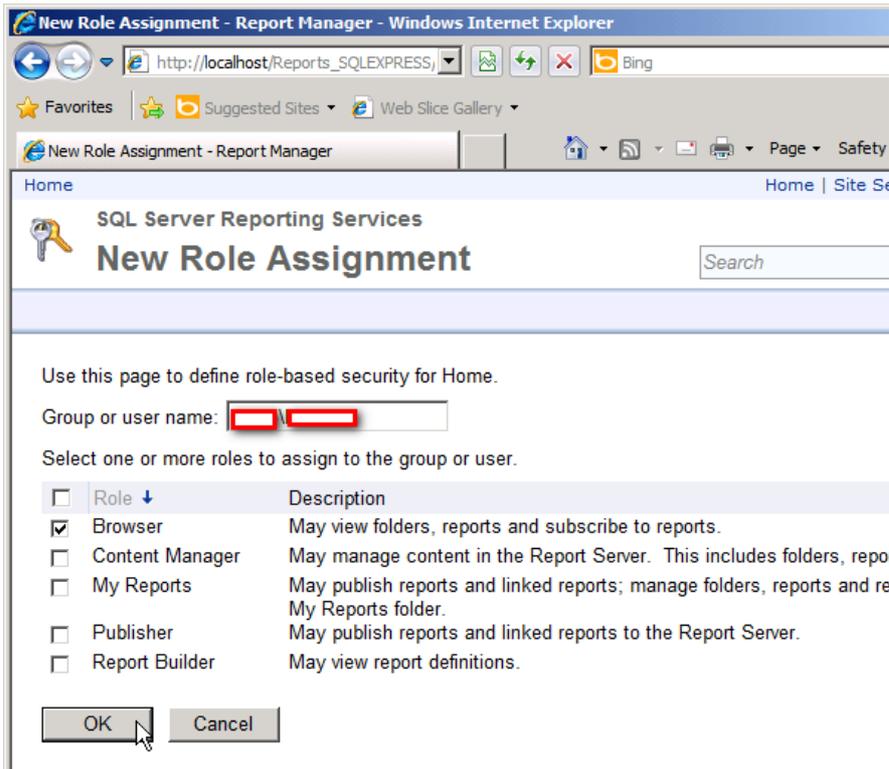
These steps show you how to give a user access to Reporting Services.



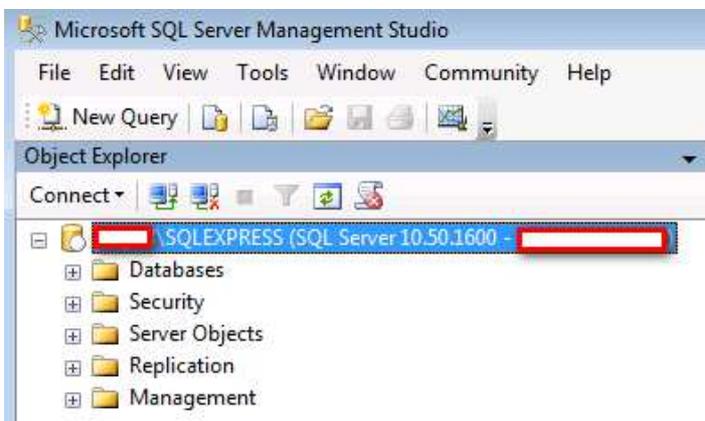
As below, make sure you use **localhost** and not the name of the SQL Server.



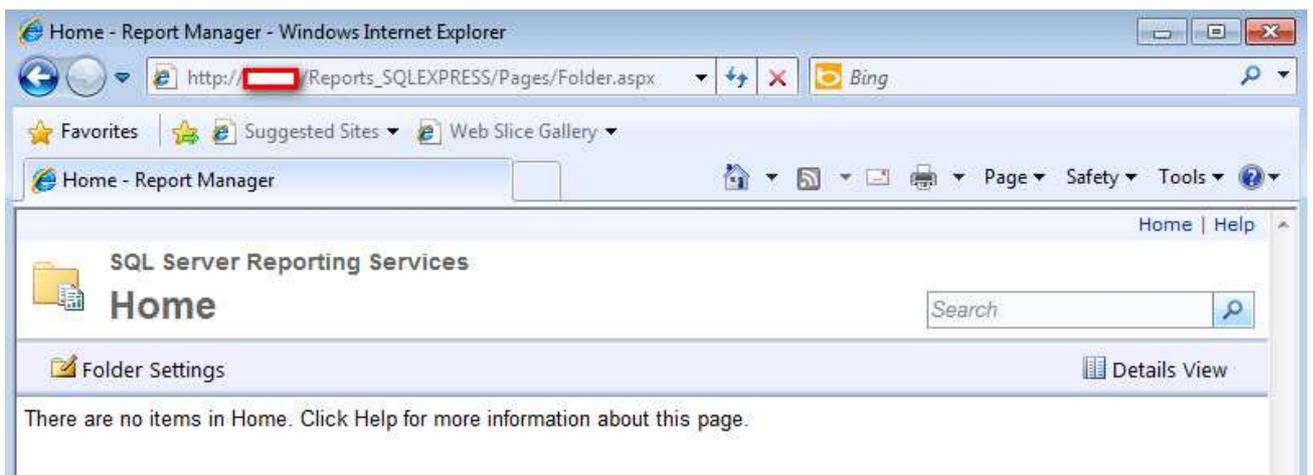
Add the relevant windows user with the permissions they require.



Now test that you are able to connect from a remote computer.



Below shows a remote connection to Reporting Services. Above we used localhost when on the SQL Server, but remotely you should use the SQL Server name.



## Enabling SQL authentication and sa user for database login

For security reasons, the SQL authentication method, and the database administrator **sa** user is disabled by default on newer SQL installations.

You have to manually enable them if you wish to use them.

We'll follow the instructions from this blog entry:

<https://sudeeptaganguly.wordpress.com/2010/04/20/how-to-enable-sa-account-in-sql-server/>

When you install the SQL Server using Windows Authentication mode, by default, the “**sa**” account is disabled. Sometimes, due to users/customers request, you may need to enable the **sa** account. You need to change the authentication mode for SQL server from *Windows Authentication Mode* to *SQL Server and Windows Authentication Mode* to use the **sa** account.

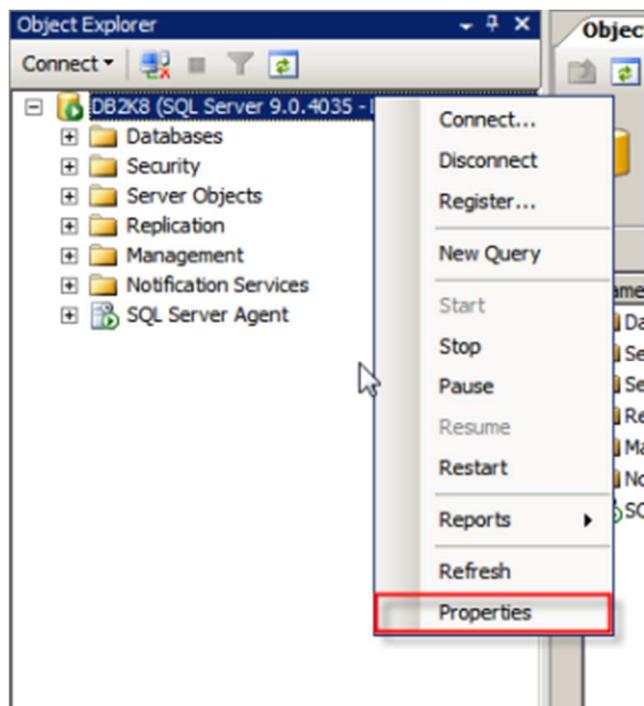
### To Change the Authentication Mode:

Follow the steps mentioned below to change the authentication mode from *Windows Authentication* to *SQL Server and Windows Authentication*.

You need to remember that, the **SQL Server service needs to restart to make this change effective**.

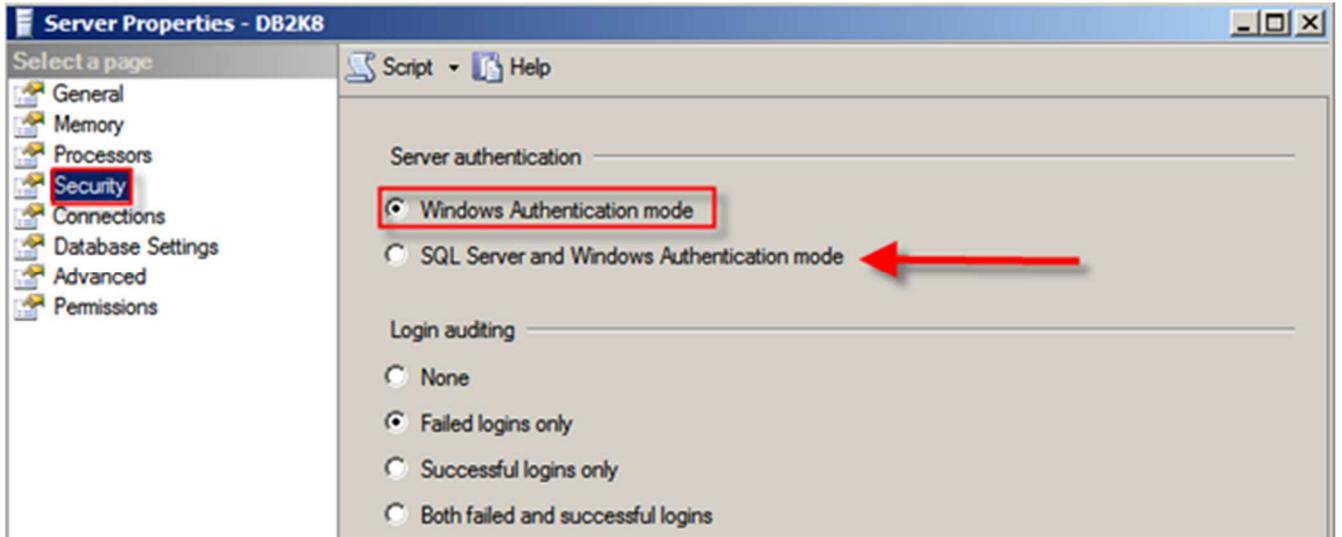
1. Login to the SQL server instance using SQL Server Management Studio.

Right-click on the database instance, and go to **Properties**.

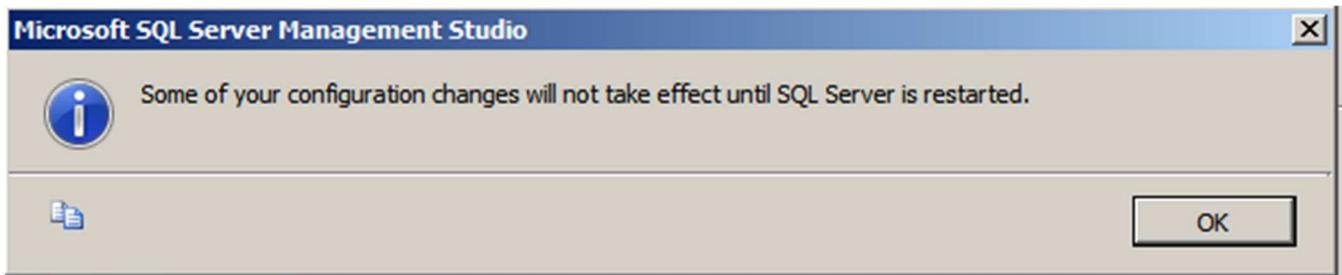


2. On the Server Properties page, Click on **Security**.

Click on the radio button next to *SQL Server and Windows Authentication mode*, and click on OK to close the Server Properties page.



3. Once you clicked on the Ok button, we will get the following screen:

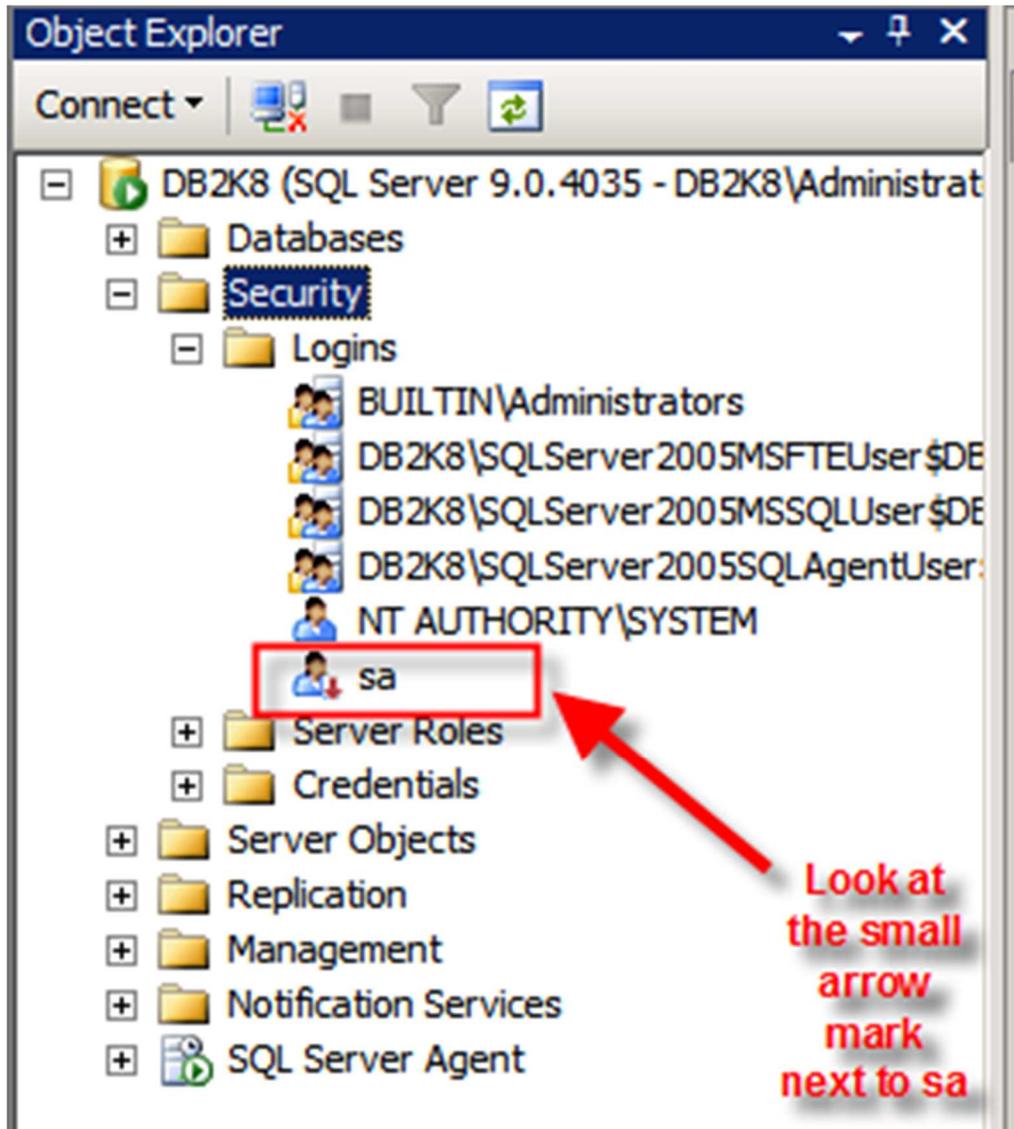


As discussed earlier, we need to restart the SQL Server service to make this change effective.

After restarting the SQL Server, the authentication mode will be changed to *SQL Server and Windows Authentication mode*.

### Enable the sa Login:

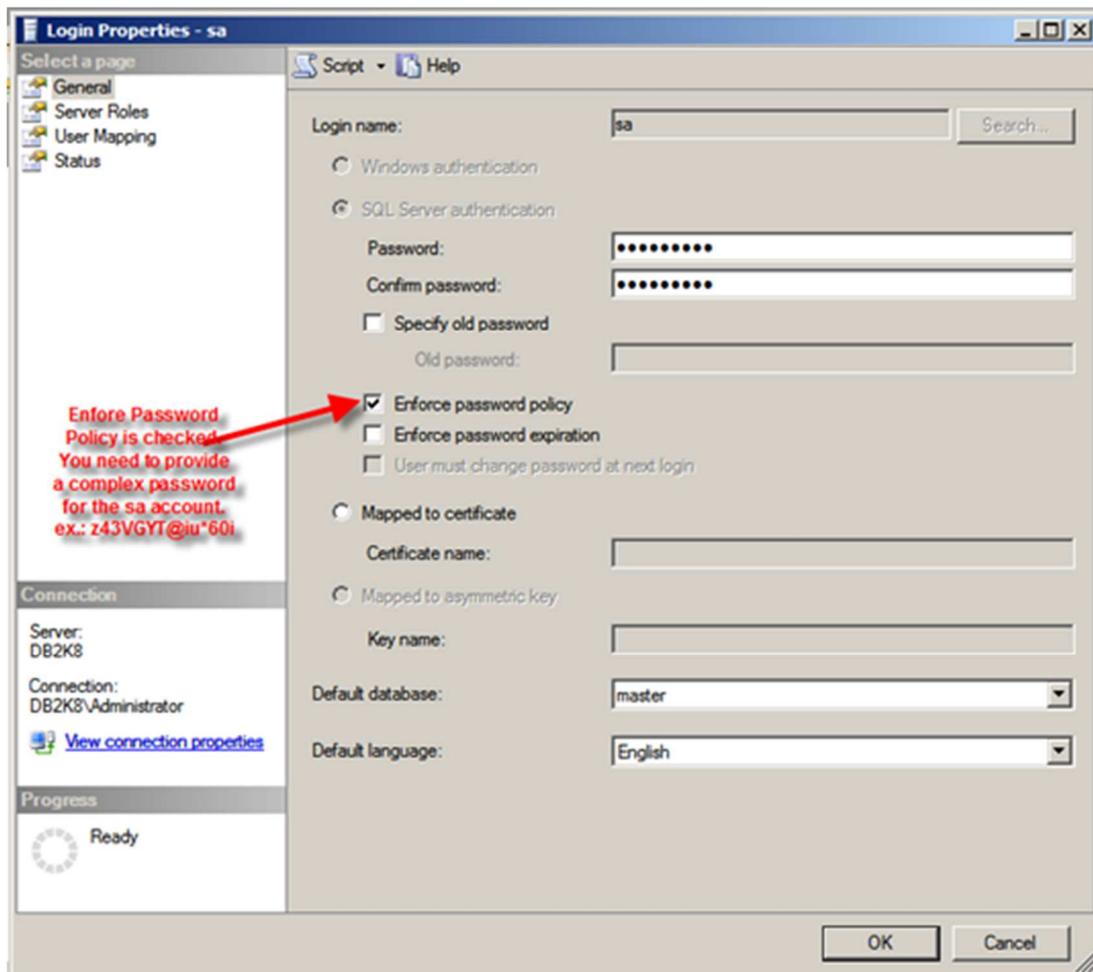
1. Connect to the SQL Server instance using SSMS and go to **Security**. Expand Security, go to **Logins**.
2. You can see the **sa** account is disabled when you install SQL Server using Windows Authentication mode.



3. Right-click on the **sa** account and go to **Login Properties**.

Specify a complex password for the sa account.

By default, the *Enforce password policy* is checked. (if you don't want to provide a complex password for the sa account, you can uncheck this option. However, this is **not recommended**.)

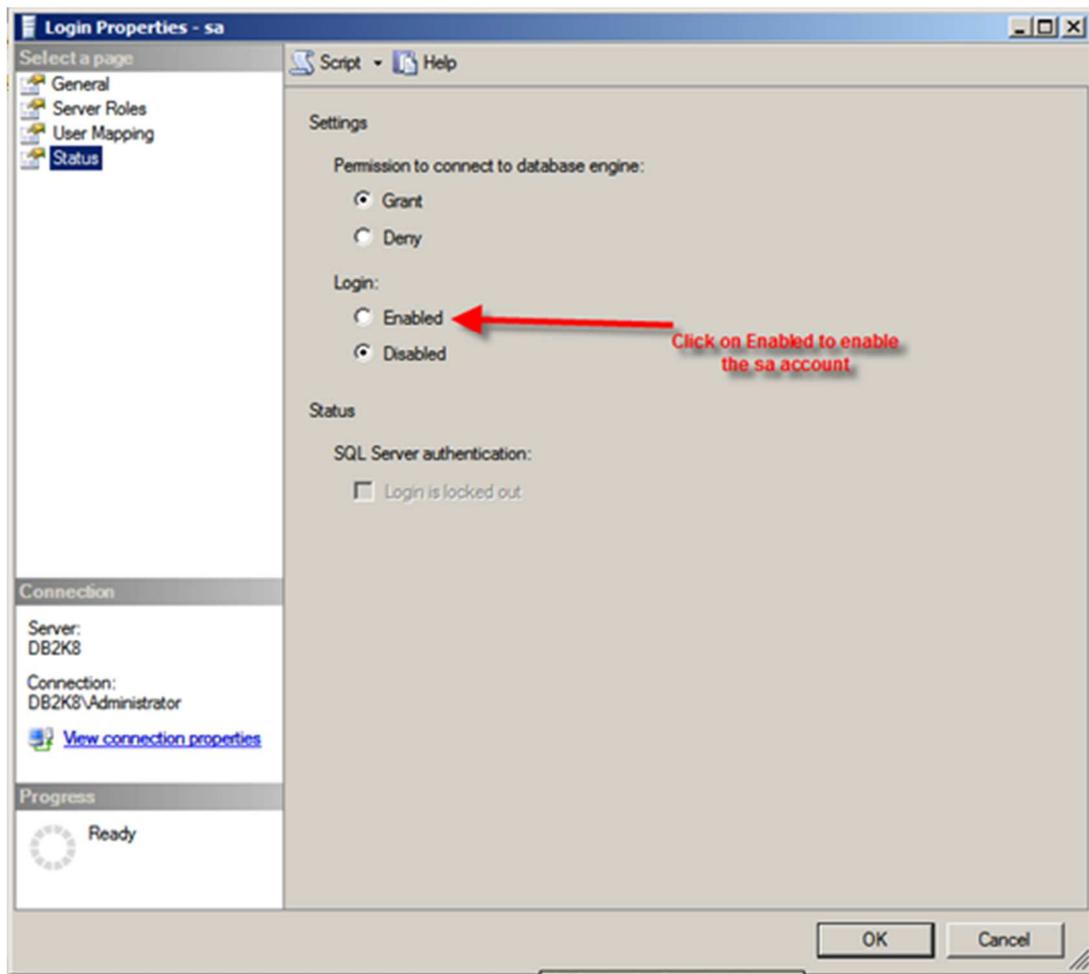


4. Click on the **Status** page.

By default, the sa account will be disabled.

Click on the **Enabled** button to enable the sa account.

Click on **Ok** to close the sa **Login Properties**.



Thus, sa account is enabled and you will be able to login to the SQL instance using the sa account.

If you want to use a script to enable the **sa** account, you can use the script mentioned below:

- 1: USE [master]
- 2: GO
- 3: ALTER LOGIN [sa] WITH PASSWORD=N'z43VGYT@Iu\*60i'
- 4: GO
- 5: ALTER LOGIN [sa] ENABLE
- 6: GO

## Notes for SQL Server 2012 and later versions

### SQL Server 2012 only

The configuration process for SQL Server 2012 is the same as with the 2008R2 version, except that the **SQL Server Configuration Manager** is not added to the Start menu (in the 2014 version, it's added again).

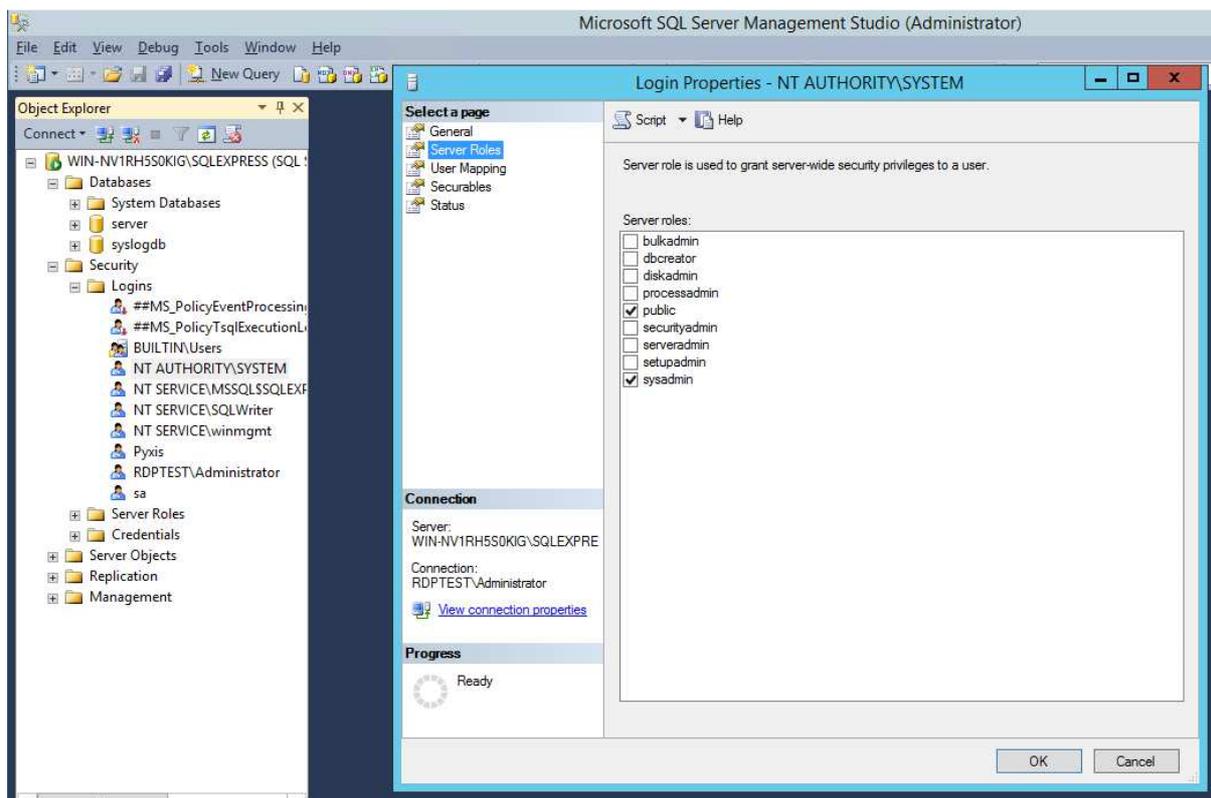
To run it, type **SQLServerManager11.msc** and proceed with the configuration.

### SQL Server 2012 and later

Microsoft has further hardened the permissions of SQL Server, hence the SYSTEM user has less rights in a default configuration. This can result in the CPS service unable to start automatically.

More information on this link: <https://social.msdn.microsoft.com/Forums/sqlserver/en-US/94ff47eb-a0e0-4441-9799-b56b5ce3712b/sql-server-2012-ntauthoritysystem-sysadmin-is-not-checked-by-default>

As a fix, modify the user's rights that run the CPS service (by default the SYSTEM user) to include the **sysadmin** right:



1. Open the **SQL Server Management Studio** and login as an SQL administrator.
2. Open the **Security/Logins** branch.
3. Find the user that runs the CPS service. By default this is the NT AUTHORITY\SYSTEM user.
4. Open the properties, go to the **Server Roles** page, and click the **sysadmin** privilege, then press OK.

## CPS Installation with MS SQL database

Upon installing CPS, at the Database Settings part, choose the **External RDBMS** option and specify the following:

**RDBMS Name:** SQL\_SERVER

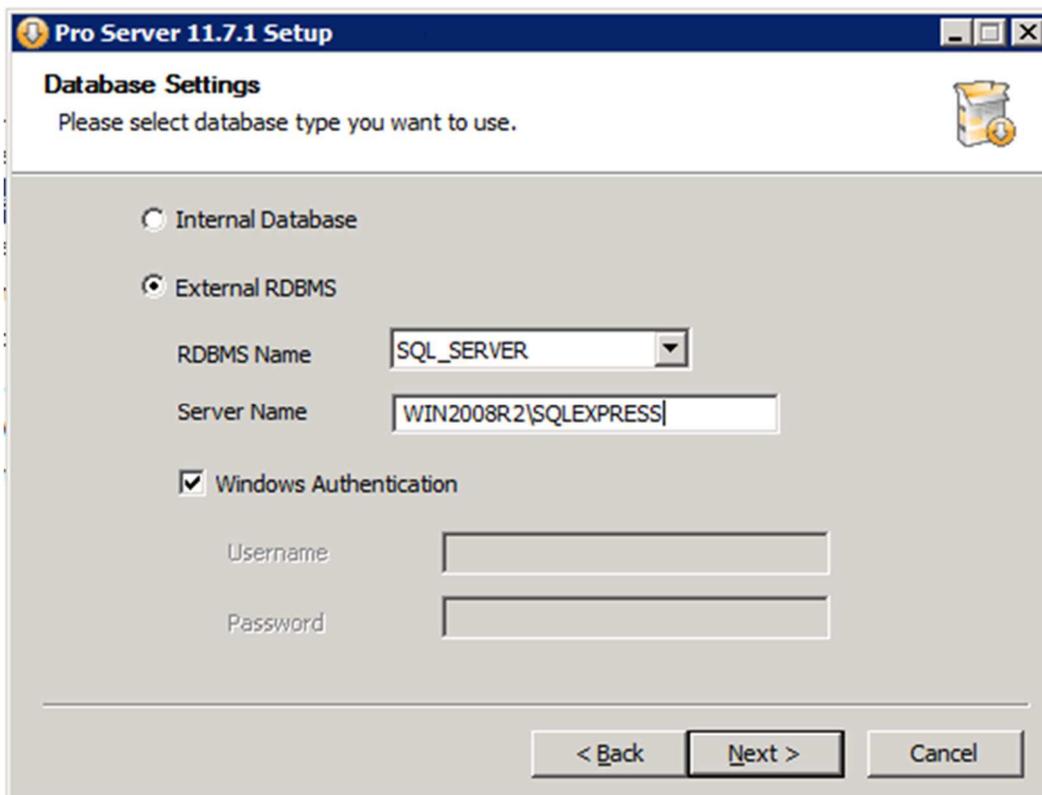
**Server Name:** [SERVER\_NAME]\[INSTANCE\_NAME]

*Important:* if you're not using the default DB instance but a named instance, you must specify it, otherwise the connection will fail!

In our test machine, the SERVER\_NAME is Win2008R2 and the INSTANCE\_NAME is SQLEXPRESS as we've used the Express version.

**Authentication:** Windows or SQL. This setting depends on your installed SQL server; by default newer versions are using the Windows authentication method as default.

*Note:* if you use SQL authentication, the ODBC connection's user and password will be saved (encrypted) in the CPS configuration file server.xml.

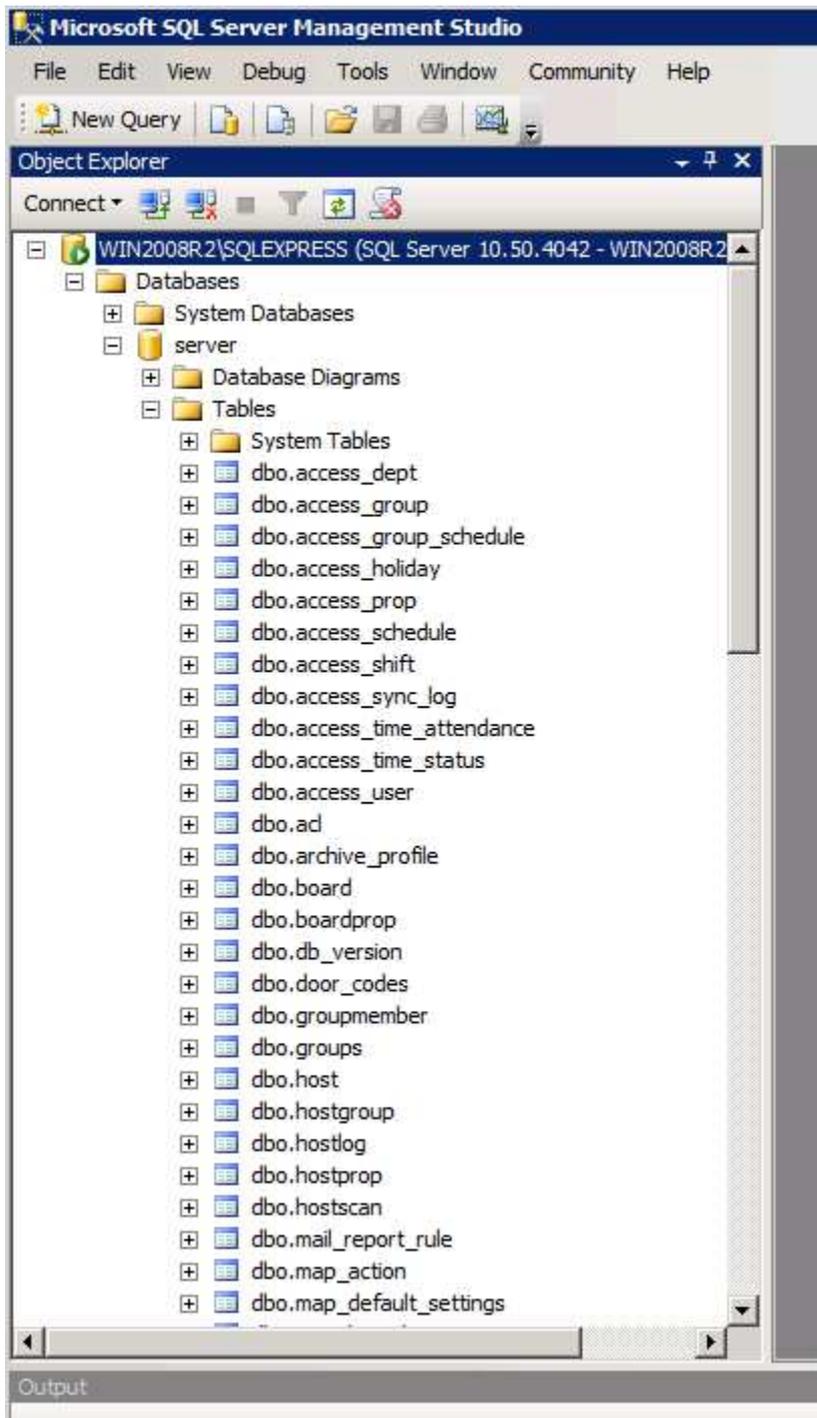


The screenshot shows the 'Pro Server 11.7.1 Setup' window with the 'Database Settings' tab selected. The window title is 'Pro Server 11.7.1 Setup' and the subtitle is 'Database Settings'. Below the subtitle, it says 'Please select database type you want to use.' There are two radio buttons: 'Internal Database' (unselected) and 'External RDBMS' (selected). Below these, there are two text boxes: 'RDBMS Name' with the value 'SQL\_SERVER' and 'Server Name' with the value 'WIN2008R2\SQLEXPRESS'. There is a checked checkbox for 'Windows Authentication'. Below this, there are two text boxes for 'Username' and 'Password'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

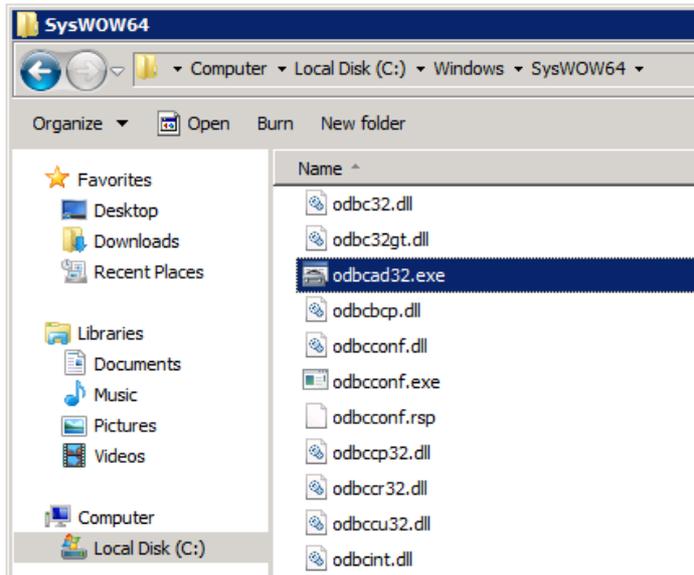
Click Next and allow CPS installation to proceed as normal.

Consult the CPS Installation Manual if you need further help.

You can verify that the CPS database has been created in SQL Management Studio, the CPS database is named "server":

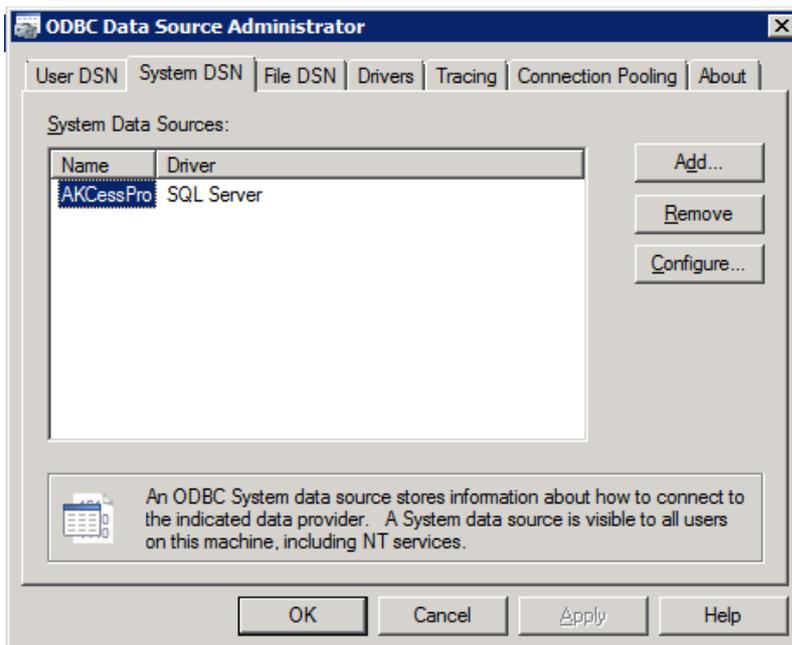


The CPS installer creates a 32-bit ODBC system connector. You can verify that this has been created using the 32-bit ODBC manager: start the **ODBC Data Sources (32-bit)** from **Administrative Tools**, or find the program manually:



On a 64-bit OS, start odbcad32.exe from **C:\Windows\SysWOW64**; the file in the System32 directory is the 64-bit version, which can't show the 32-bit connectors on Windows Server 2008 and R2.

*Note:* On Windows Server 2012 and up, you will be able to see the data source but can't modify it using the 64-bit ODBC manager.



The data source will be added as a System DSN

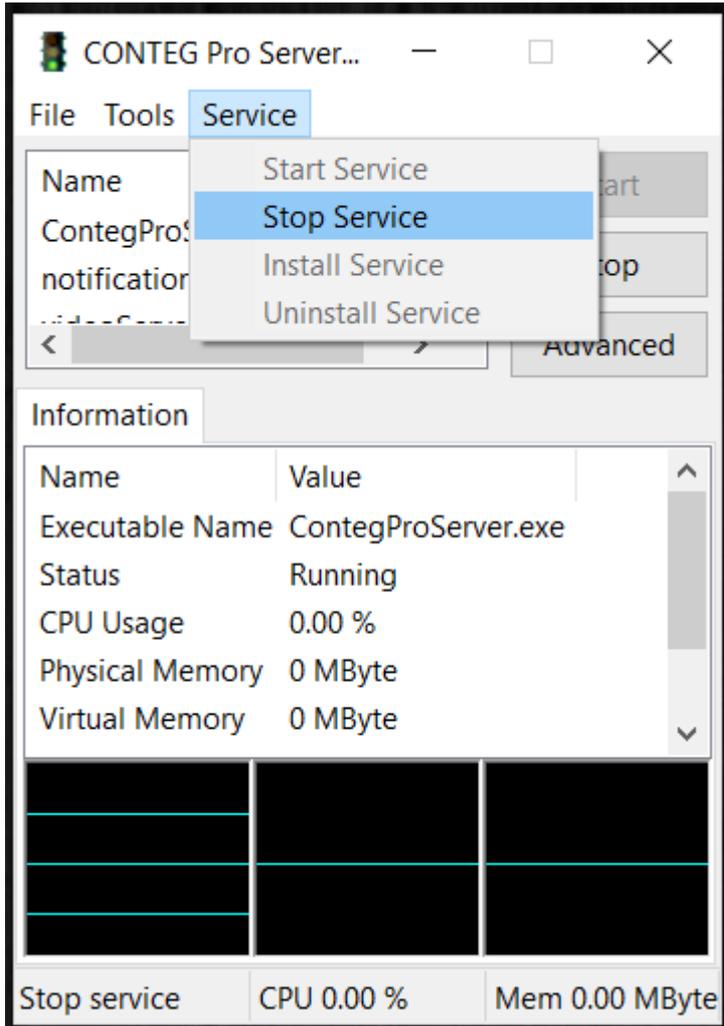
## Backup and restore of the CPS database with MS SQL Server

CPS provides the built-in backup/restore function only with the Internal Database option.

If you choose external DB then you'll have to use that software's backup/restore functions.

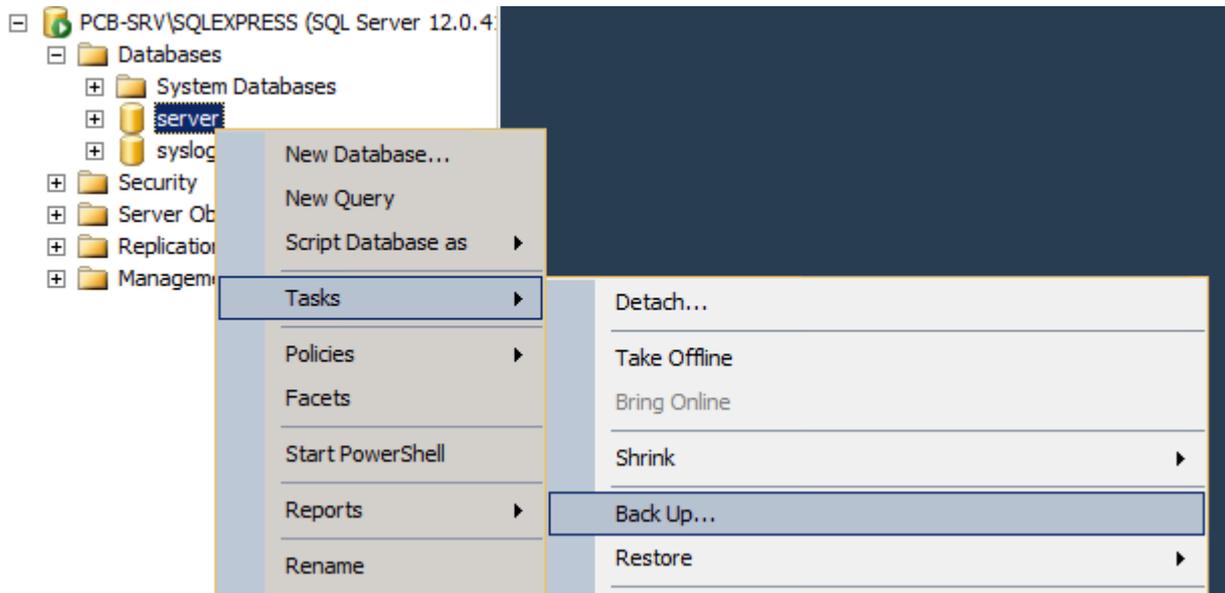
Below we'll cover the instructions for MS SQL (manual method only).

### Backing up

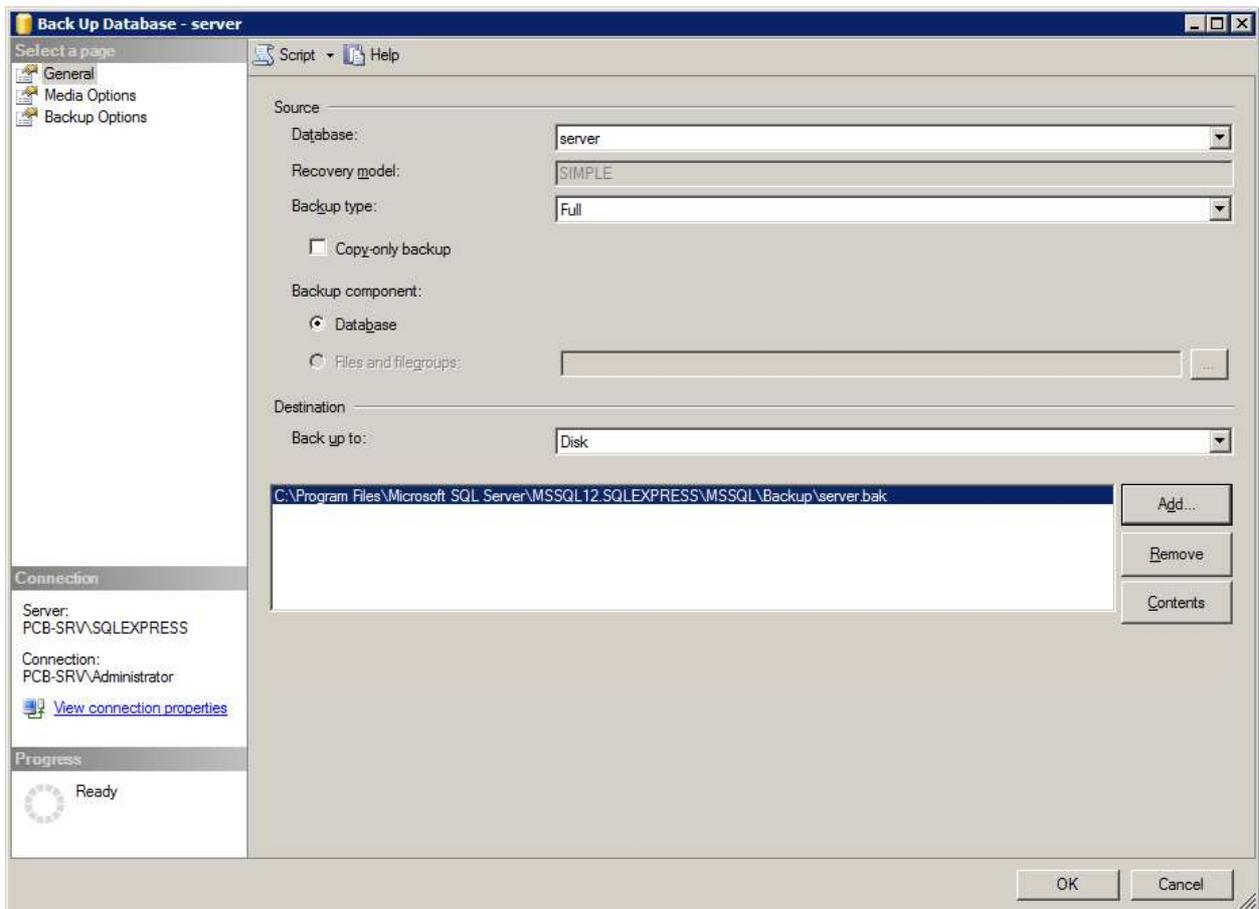


To get a consistent state of the backup, it's recommended to first stop the CPS services using the **CONTEG Pro Server Manager**.

Next, start the **SQL Management Studio** and connect to the DB instance which stores the CPS databases (server and syslog).



Choose the server DB from the list, and select **Tasks / Back Up...**

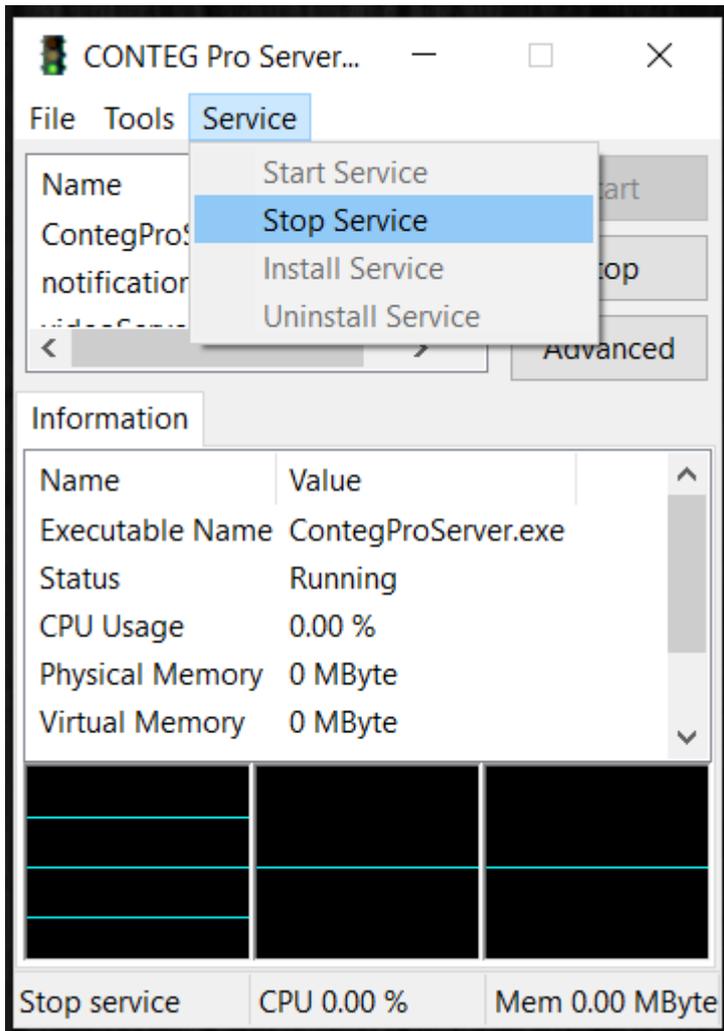


You could modify the backup file's target, by default it goes to the SQL Server's Backup directory.

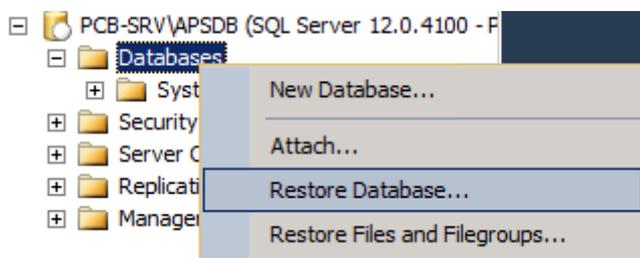
Repeat the same process for the **syslog** DB.

## Restoring

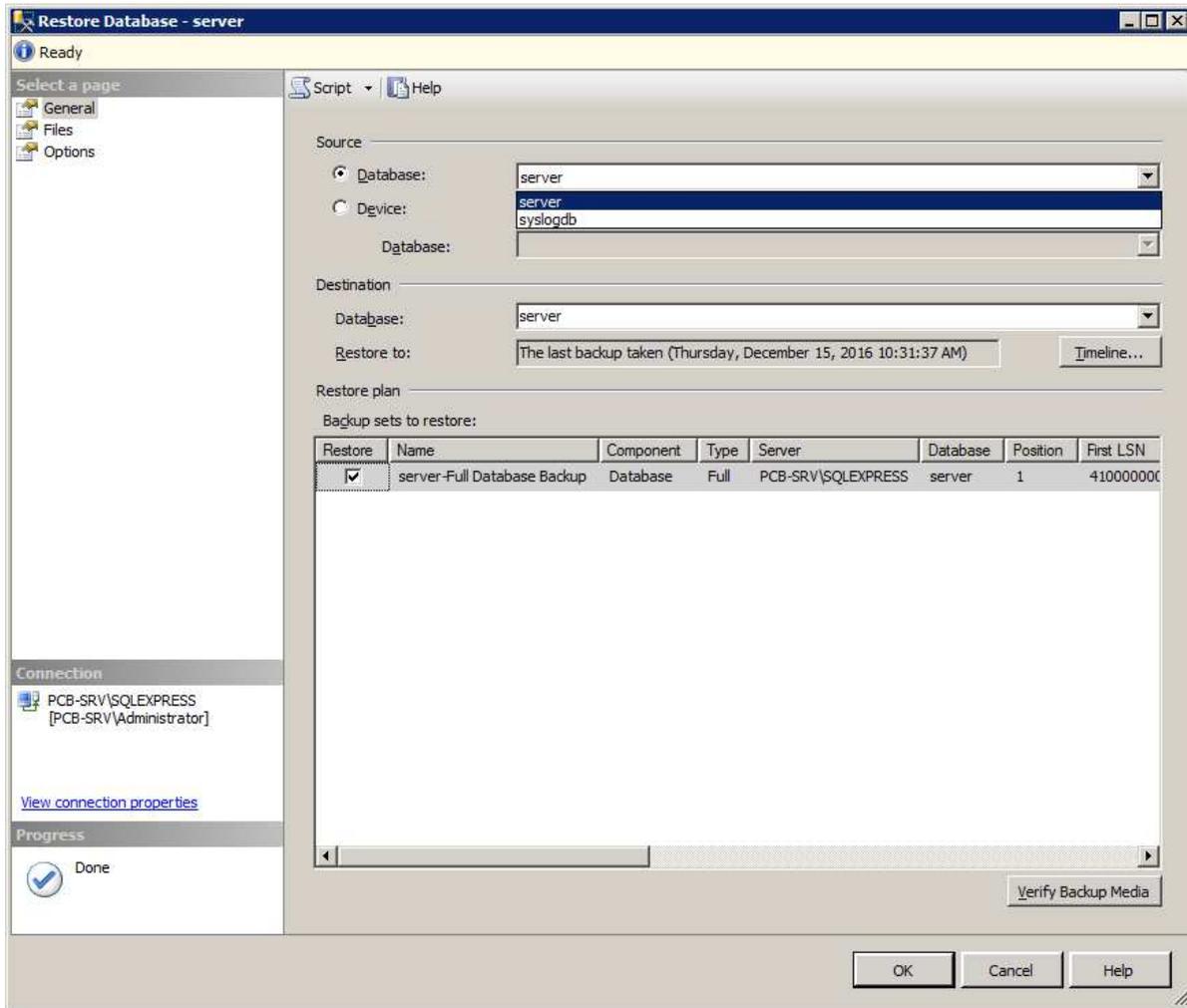
Prior to restoring you need to first stop the CPS services using the CPS Server Manager:



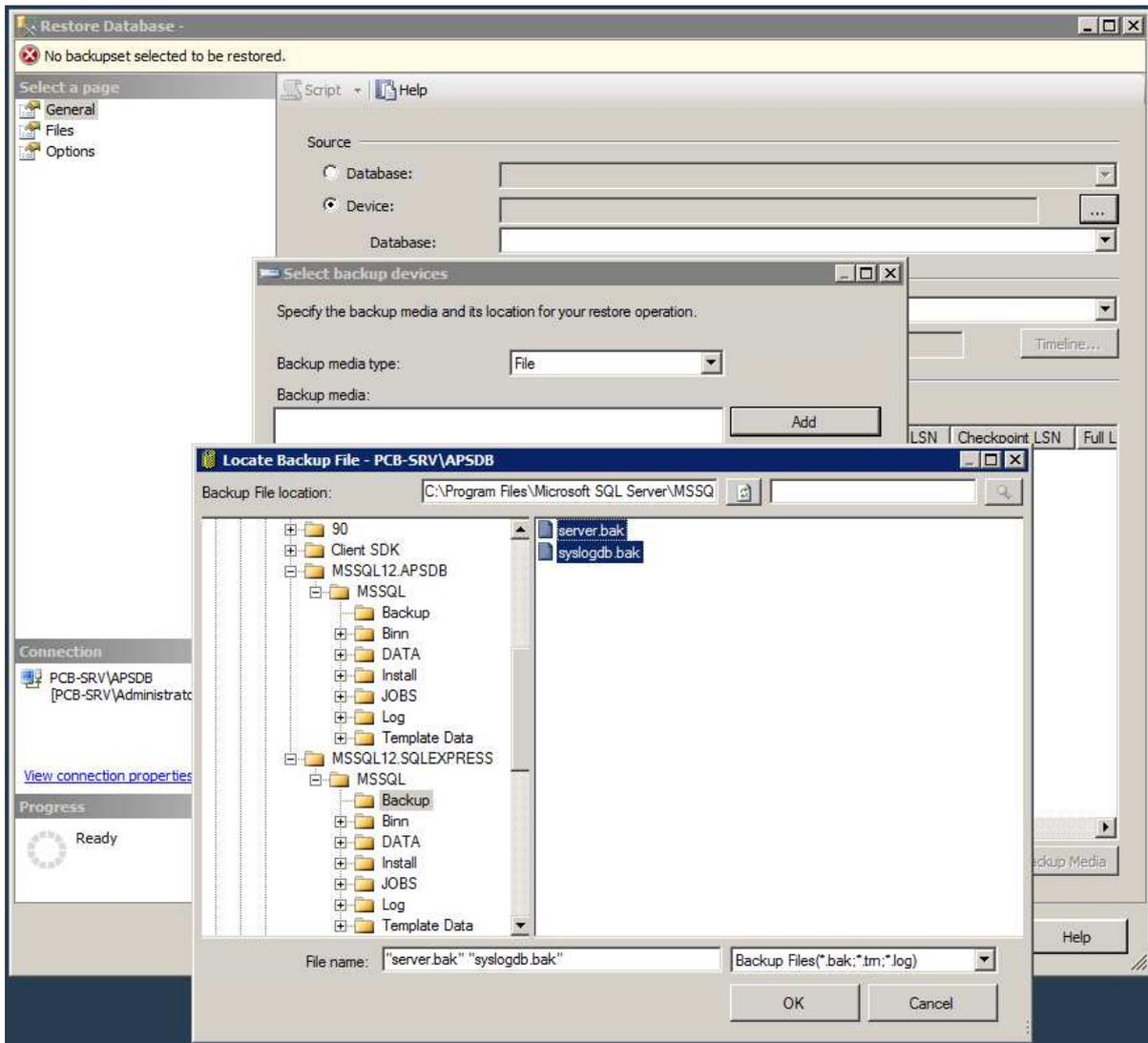
Start the **SQL Management Studio** and connect to the DB instance which stores the CPS databases (server and syslog).



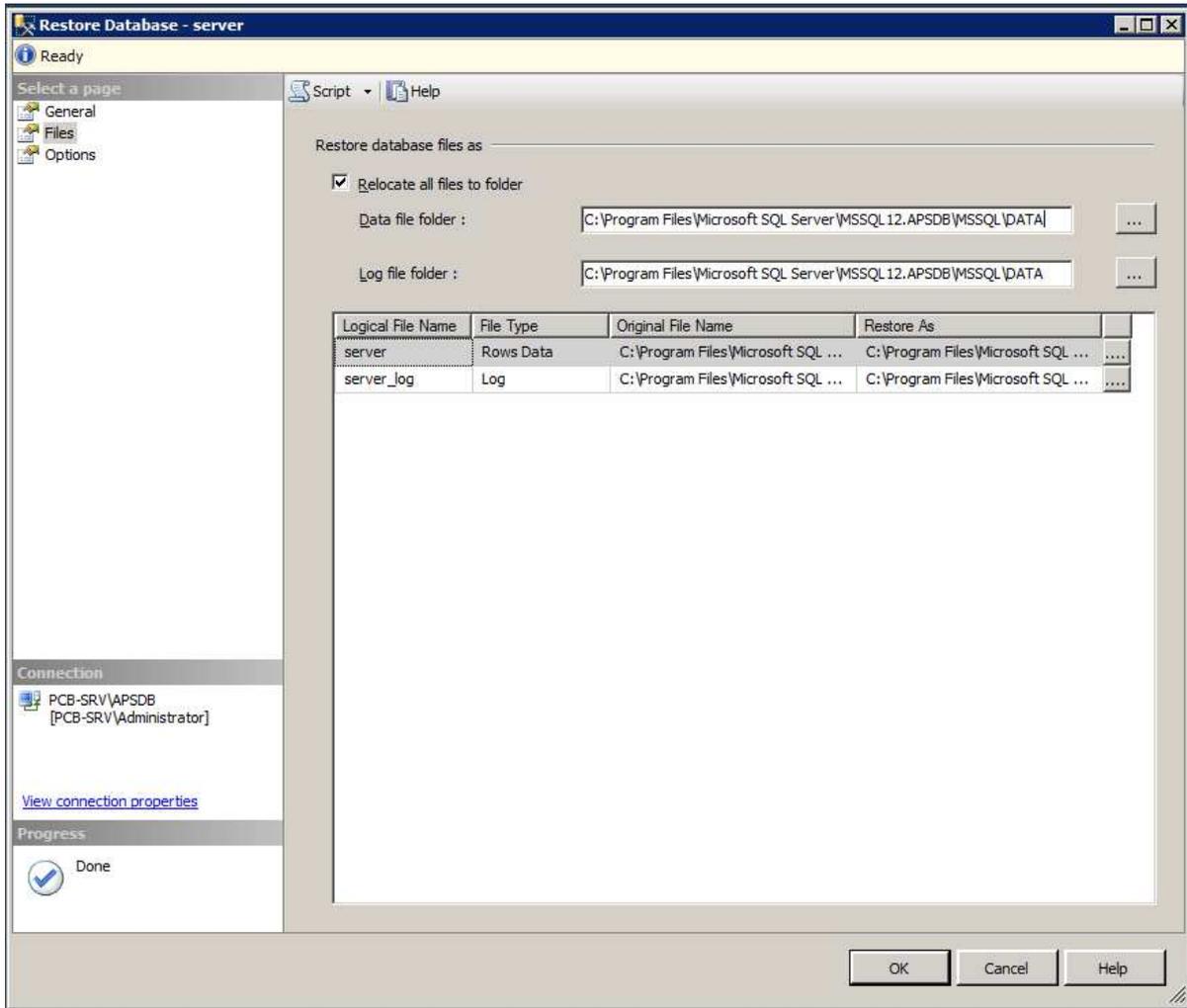
Right click on the **Databases** folder tree and select **Restore Database...**



If you've made a backup before, you can directly select it from the list.



If the server has been reinstalled and there's no backup history, you'll need to locate the backup files manually.

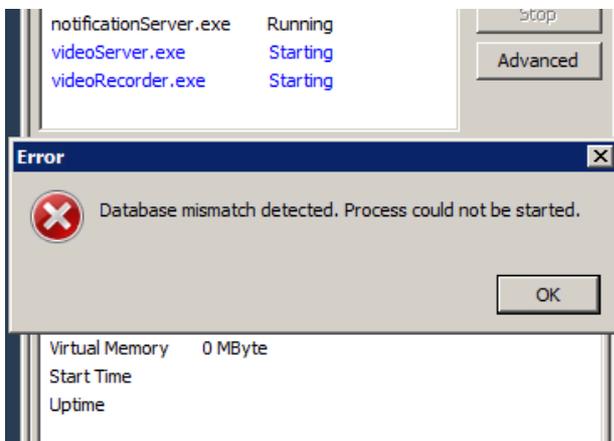


Optionally you can relocate the DB files to another directory during the restore, under the **Files** page.

If you're just doing a normal restore then this is not needed.

After the DBs have been restored, you can start the CPS service again.

**Important note:** Renaming the DB instance and the server is not supported! If you attempt to do so, you'll get the following error and CPS cannot start:

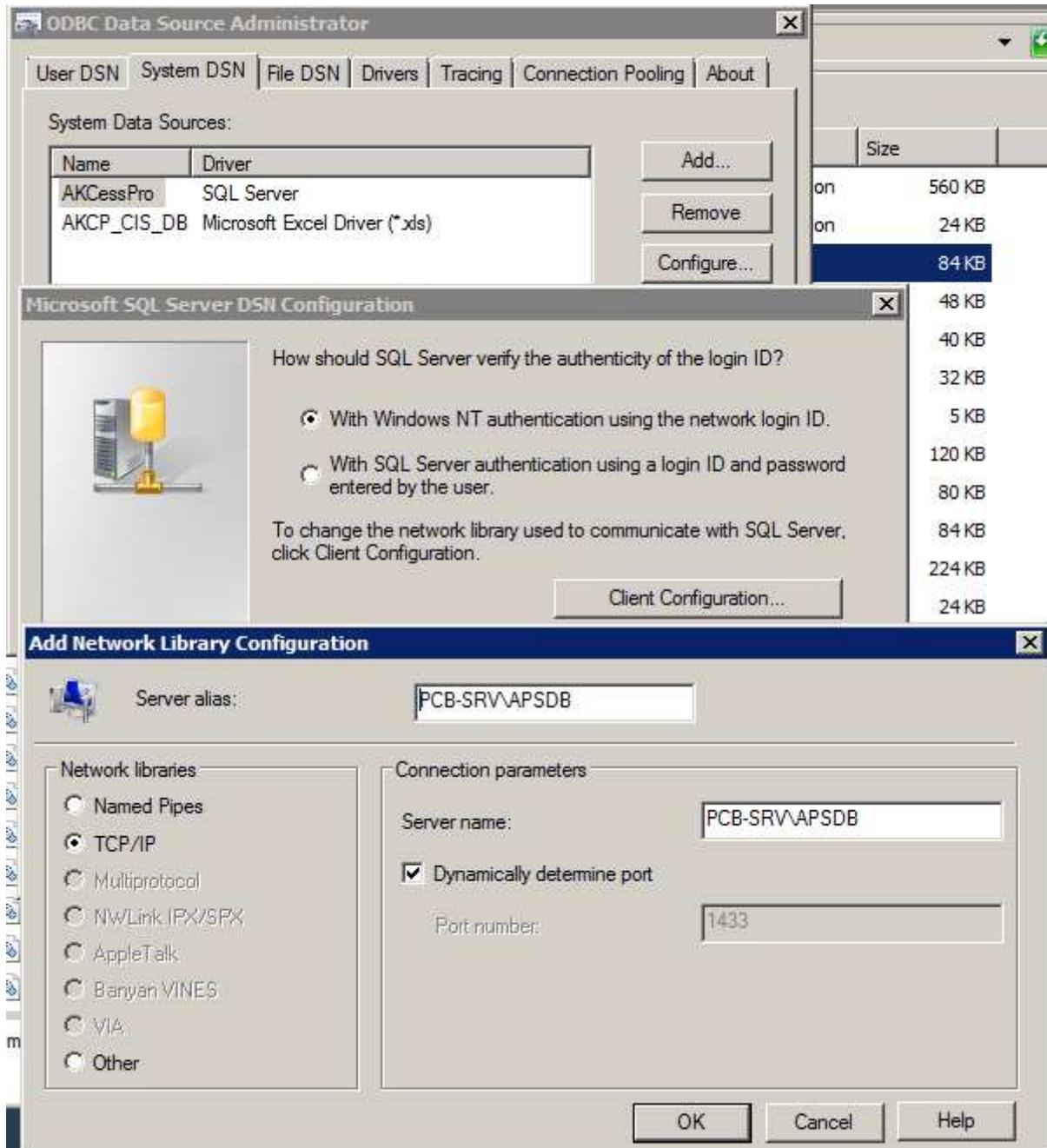


If you need to change the server's name or the instance name, you'll need to:

- remove the ODBC connector and uninstall CPS
- remove the existing CPS databases from the SQL server
- reinstall CPS cleanly and reconfigure it

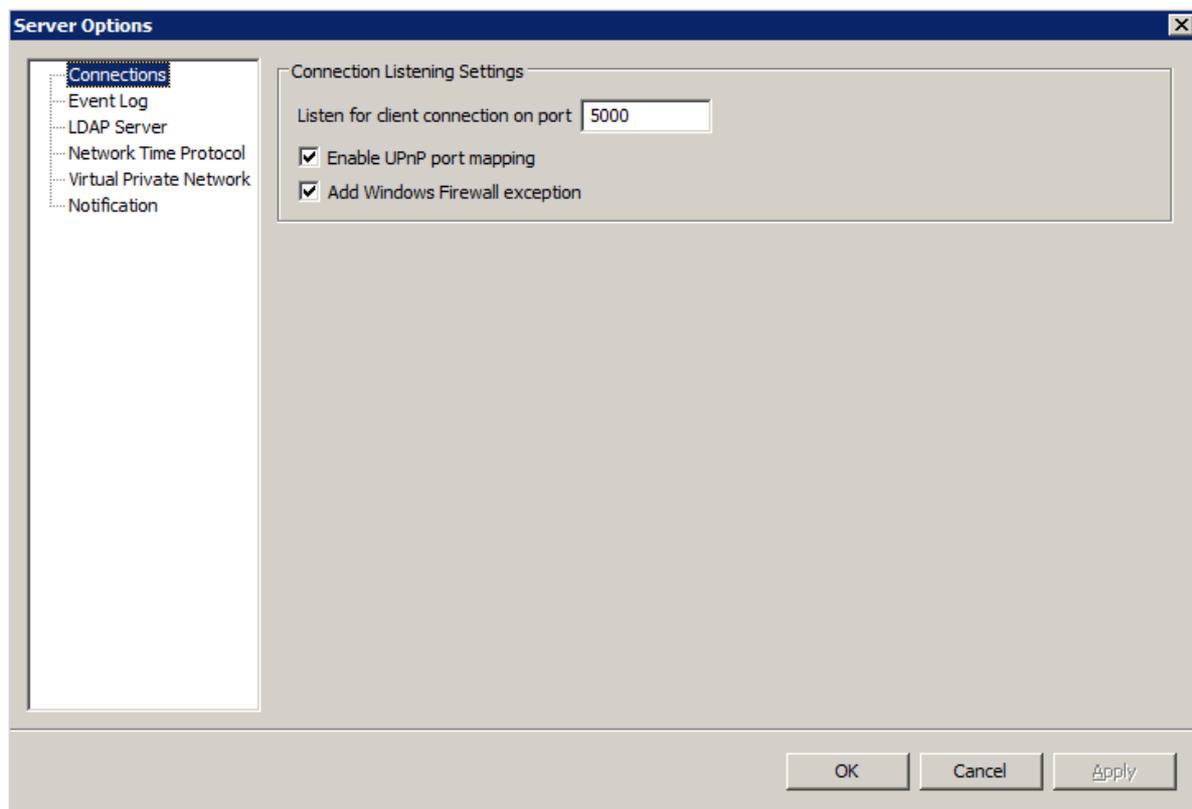
## Used ports information

The port used for communication between the SQL server and CPS could be checked in the ODBC connector's configuration under Control Panel (the 32-bit ODBC app), and choose the CONTEGPro connector:



The connector is under the System DSN tab. Click on **Configure...** then **Next** and choose **Client Configuration...**

By default the port is dynamic.



The generic CPS port that is used to communicate with Intelligent RAMOS devices is by default 5000 (TCP and UDP).

You can check and change this in the CPS Server Manager program, or under the CPS client **Settings menu / Server Options / Connections**.

## CPS database tables' explanation for sensors

Below, we'll explain the database tables in the CPS database which are dealing with sensors.

*Note:* In MS SQL database, these table names have a prefix **dbo.** for example: `dbo.host`

*Note 2:* We've only included the listed *reserved/unused* values in case you encounter a very old DB that still has these values; it's not an error if you see them.

*Note 3:* If the DB has some columns where the data type mismatches with the types written in this manual (INTEGER or VARCHAR, and length), that could mean you have a DB Sync issue or some other DB error.

1. **host** - contains all the network devices (including non- Intelligent RAMOS) under Monitoring/Sensors in CPS.

**hostid** (INTEGER, primary key) - CPS DB sequence number, unique for each device

**hostuid** (INTEGER) - reserved/unused

**mac** (VARCHAR, 20)- the device's MAC ID

**type** (INTEGER) - the device's type, see below for possible values

**name** (VARCHAR, 4000)- the device's IP address or DNS name

**port** (INTEGER) - SNMP monitoring port - note: the default port is also added for non-SNMP devices

**username** (VARCHAR, 4000)- SNMP username for the device

**community** (VARCHAR, 4000) - SNMP community (encoded) for the device

**enable** (INTEGER) - enabled (1) or disabled (0) device

**deleted** (INTEGER) - deleted device (1) or live device (0)

*Host type possible values:*

0 = Unknown Device

1 = Network Device

3 = Ramos Optima

6 = Axis Camera

7 = reserved/unused

8 = reserved/unused

9 = IP Camera

10 = Ramos Ultra

13 = Ramos Ultra ACS

14 = Onvif Compatible Camera

15 = Quaddrix IP Camera

16 = reserved for future product

17 = reserved/unused

18 = Template Device

2. **hostprop** - contains the network devices' property string values, such as device name and firmware version

**hostid** (INTEGER, primary key) - matches the hostid in the host table, per unique device

**name** (VARCHAR, primary key) - each device (hostid) can have multiple properties, these are listed here - for example: httpport, dhcp\_enable, syscontact, firmware\_version

**value** (VARCHAR, 4000) - the string value for each "name" field - following the previous example in order: 80, 0, System Contact, SEC-MX25V405a

*Example:*

<b>name</b>	<b>value</b>
httpport	80
dhcp_enable	0
syscontact	System Contact
firmware_version	SEC-MX25V405a

3. **board** - contains all board devices for each network device (every Intelligent RAMOS device that has at least a base board) and expansion boards

**hostid** (INTEGER) - matches the hostid in the host table, per unique device

**boardid** (INTEGER, primary key) - CPS DB sequence number, unique for each board

**board prop id** (INTEGER) - remote board id; the boardid in a device's own database, its value will match the board\_ref\_id property string in the boardprop table

**deleted** (INTEGER) - deleted board (1) or live board (0)

**property update id** (INTEGER) - used for checking that a board's property is modified or not; it will be 1 for the first time when you add an Intelligent RAMOS device to CPS, and increment when you edit a board- or sensor's setting

4. **boardprop** - contains the boards' property string values, such as expansion board name and type

**boardid** (INTEGER, primary key) - matches the boardid in the board table, per unique board

**name** (VARCHAR, 30, primary key) - each board (boardid) can have multiple properties, these are listed here - for example: desc, board\_enable, type, revision

**value** (VARCHAR, 4000) - the string value for each "name" field - following the previous example in order: Main Module, 1, 8, 2

*Example:*

<b>name</b>	<b>value</b>
desc	Main Module
board_enable	1
type	8
revision	2

*Board type possible values:*

1 = EX-I8 board

3 = EX-O16 board

4 = 8 sensors base board for Ramos Ultra

8 = Ramos Ultra ACS board

9 = RDU board

10 = EX-D64 board

11 = EX-D128 board

12 = EX-D192 board

5. **service** - contains information about sensors

**hostid** (INTEGER) - matches the hostid in the host table, per unique device

**serviceid** (INTEGER, primary key) - CPS DB sequence number, unique for each sensor

**enable** (INTEGER) - enabled (1) or disabled (0) sensor

**interval** (INTEGER) - sensor polling interval (in seconds)

**type** (INTEGER) - the sensor's type, see below for possible values

**port** (INTEGER) - the sensor's port on a device; it can be physical or virtual, also for daisy chained sensors

**deleted** (INTEGER) - deleted sensor (1) or live sensor (0)

**boardid** (INTEGER) - matches the boardid in the board table, per unique board

**rboardid** (INTEGER) - remote board id; references the boardid on a remote device and matches the board\_prop\_id in the board table, it is used when CPS communicates with an Intelligent RAMOS device - CPS Server and CPS Client uses the boardid for communication

**rsensorid** (INTEGER) - remote sensor id; references the serviceid on a remote device's database, it is used when CPS communicates with an Intelligent RAMOS device - CPS Server and CPS Client uses the serviceid for communication

**mode of reader** (INTEGER) - reserved/unused

CPS Server <--> CPS Client uses boardid / sensorid for communication

Device (SEC) <--> CPS Server uses rboardid / rsensorid for communication

*Sensor type possible values:*

2 = 4-20 mA

3 = Humidity

4 = Water Detector

5 = Digital Voltmeter

6 = Security

8 = Airflow

9 = Siren & Strobe Light

10 = Dry Contact

12 = AC Voltage

13 = Relay

14 = Motion Detector

15 = unused/reserved

16 = External Dry Contact

20 = unused/reserved

21 = unused/reserved

23 = Thermostat

24 = Smoke Detector

25 = Power

26 = RMS Current

27 = RMS Voltage

28 = Watt Meter

29 = External Relay

30 = Virtual Sensors

32 = Watt-Hour Meter

33 = Temperature Array

34 = Liquid Rope

35 = Fuel Level - deprecated

36 = Ultrasonic Fuel Level

37 = Door

39 = Reader

40 = Probe Switch

41 = Time Tracking

42 = Tamper

43 = Thermocouple

44 = Dry Contact expander

45 = Vibration

46 = Power Voltage

47 = 5 Input Dry Contact

128 = Sound Detector

129 = Software Motion Detector

132 = No Video Signal

134 = Power Meter

144 = Camera

61696 = Host Status

61697 = SNMP Get

61698 = Custom Script

61699 = Multiple Sensors

61701 = Software Motion Detector - deprecated

61702 = Map

61703 = Recording

61704 = Modbus TCP

61706 = Host on Map

6. **serviceprop** - contains the sensors' property string values, such as status description and sensor unit

**serviceid** (INTEGER, primary key) - matches the serviceid in the service table, per unique sensor

**name** (VARCHAR, 30, primary key) - each sensor (serviceid) can have multiple properties, these are listed here - for example: desc, on\_desc, normalstate, ping\_method

**value** (VARCHAR, 4000) - the string value for each "name" field - following the previous example in order: Host Status, Unreachable, 0, 0

*Example:*

name	value
desc	Host Status
on_desc	Unreachable
normalstate	0
ping_method	0

## Finding sensor data in the CPS database

In this example below, we'll find a test RAMOS OPTIMA unit's temperature/humidity sensors in the database.

We'll use the default SQLite DB format and the SQLite Database Browser program for demonstration purposes (downloadable from <http://sqlitebrowser.org/>).

This requires checking 3 database tables: **hostid** (devices), **service** (sensor IDs), and **serviceprop** (sensor properties).

*Note:* the default CPS SQLite database is stored at **C:\ProgramData\CONTEG\CONTEG Pro Server\server.db**

1. Open **server.db** file with the browser, and look through the **host** table to find the RAMOS OPTIMA device (we looked for its IP address in the name field):

SQLite Database Browser - C:/ProgramData/AKCP/AKAccess Pro Server/server.db

File Edit View Help

Database Structure Browse Data Execute SQL

Table: host

	hostid	hostuid	mac	type	name	port	username	community	enable	deleted
1	1	41	00:0B:DC:00:03:8C	10	10.1.1.146		161 administrator	B90CECB34583D83A	1	1
2	2	41	00:0B:DC:00:03:F8	11	10.1.1.137		161 administrator	B90CECB34583D83A	1	1
3	3	41	00:0B:DC:00:03:F8	11	10.1.1.137		161 administrator	B90CECB34583D83A	0	1
4	4	41	00:0B:DC:00:03:F8	11	10.1.1.137		161 root	B90CECB34583D83A	1	1
5	5	41	00:0B:DC:00:04:12	11	10.1.1.237		161 administrator	B90CECB34583D83A	0	1
6	6	41	00:0B:DC:00:EE:4C	5	10.1.1.164		161 administrator	B90CECB34583D83A	0	1
7	7	41	00:0B:DC:00:00:08	16	192.168.0.105		161 administrator	B90CECB34583D83A	1	1
8	8	41	00:0B:DC:00:00:08	16	192.168.0.106		161 administrator	B90CECB34583D83A	1	1
9	9	41	00:0B:DC:00:00:08	16	192.168.100.34		161 administrator	B90CECB34583D83A	1	1
10	10	41	00:0B:DC:00:0D:23	11	10.1.1.170		161 administrator	B90CECB34583D83A	1	1
11	11	41	00:0B:DC:AB:23:11	11	10.1.1.69		161 administrator	B90CECB34583D83A	1	1
12	12	41	00:0B:DC:00:EB:F9	5	10.1.1.225		161 administrator	B90CECB34583D83A	0	0
13	13	41	00:0B:DC:88:88:00	5	10.1.1.189		161 administrator	B90CECB34583D83A	1	1
14	14	41	00:0B:DC:00:3A:10	13	10.1.1.242		161 administrator	B90CECB34583D83A	0	0
15	15	41		18	10.1.1.137		161	B90CECB34583D83A	1	1
16	16	41		18	10.1.1.137		161	B90CECB34583D83A	1	1
17	17	41		18	10.1.1.137		161	B90CECB34583D83A	1	1
18	18	41		18	10.1.1.137		161	B90CECB34583D83A	1	1
19	19	18467		18	10.1.1.137		161	B90CECB34583D83A	1	1
20	20	41	00:0B:DC:CA:FE:A5	11	10.1.1.174		161 administrator	B90CECB34583D83A	0	0
21	21	41	00:0B:DC:00:03:F8	11	10.1.1.137		161 administrator	B90CECB34583D83A	0	0
22	22	41	00:0B:DC:00:00:92	16	10.1.1.219		161 administrator	B90CECB34583D83A	1	1
23	23	41	00:0B:DC:00:00:92	16	10.1.1.219		161 administrator	B90CECB34583D83A	1	0
24	24	41	00-0B-DC-00-SE-AE	2	10.1.1.209		161 administrator	7E707F30368D475C	1	0
25	25	41		1	10.1.1.23		161	B90CECB34583D83A	1	0

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Go to: 0

Its **hostid** is **24**. Next we'll look through the **service** table and find the entries with **hostid 24**.

2. Browse the **service** table and look for **hostid 24**:

	hostid	serviceid	enable	interval	type	port	deleted	boardid	rboardid	rsensorid	mo
335	20	335	0	30	132	1	0	78	2147479553	22	
336	20	336	0	30	132	2	0	78	2147479553	23	
337	20	337	0	30	30	0	0	80	2147479555	31	
338	20	338	0	30	30	1	0	80	2147479555	32	
339	20	339	0	30	30	2	0	80	2147479555	33	
340	22	340	1	15	61696	5001	1	0	0	0	
341	22	341	1	30	37	200	1	88	2147479552	47	
342	22	342	1	30	39	100	1	88	2147479552	48	
343	22	343	1	30	3	1	1	88	2147479552	11	
344	22	344	1	30	1	1	1	88	2147479552	12	
345	22	345	1	30	37	200	1	88	2147479552	101	
346	22	346	1	30	39	100	1	88	2147479552	1	
347	23	347	1	15	61696	5001	0	0	0	0	
348	23	348	1	30	37	200	1	89	2147479552	101	
349	23	349	1	30	39	100	0	89	2147479552	1	
350	23	350	1	30	37	200	0	89	2147479552	2	
351	23	351	1	30	3	3	0	89	2147479552	301	
352	23	352	1	30	1	11	0	89	2147479552	302	
353	23	353	1	30	37	201	1	89	2147479552	102	
354	23	354	1	30	39	102	1	89	2147479552	101	
355	24	355	1	15	61696	5001	0	0	0	0	
356	24	356	1	30	1	0	0	0	0	0	
357	24	357	1	30	3	0	0	0	0	0	
358	25	358	1	15	61696	5001	0	0	0	0	
359	25	359	1	120	61698	5002	0	0	0	0	

This **hostid** has 3 **serviceid** values: **355, 356, 357**. We'll look for these in the **serviceprop** table.

3. Browse the **serviceprop** table and look for the **serviceid** values:



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