

Knowledge Base Article: Article 200 – Revision 1  
**How to connect to a Remote SQL Server Database?**

**Date:** October 8th, 2010

**Problem:**

For performances reasons or architecture constraints, it would be necessary to install the NSI server and the database server on 2 different machines.

**Solution:**

Follow the steps below

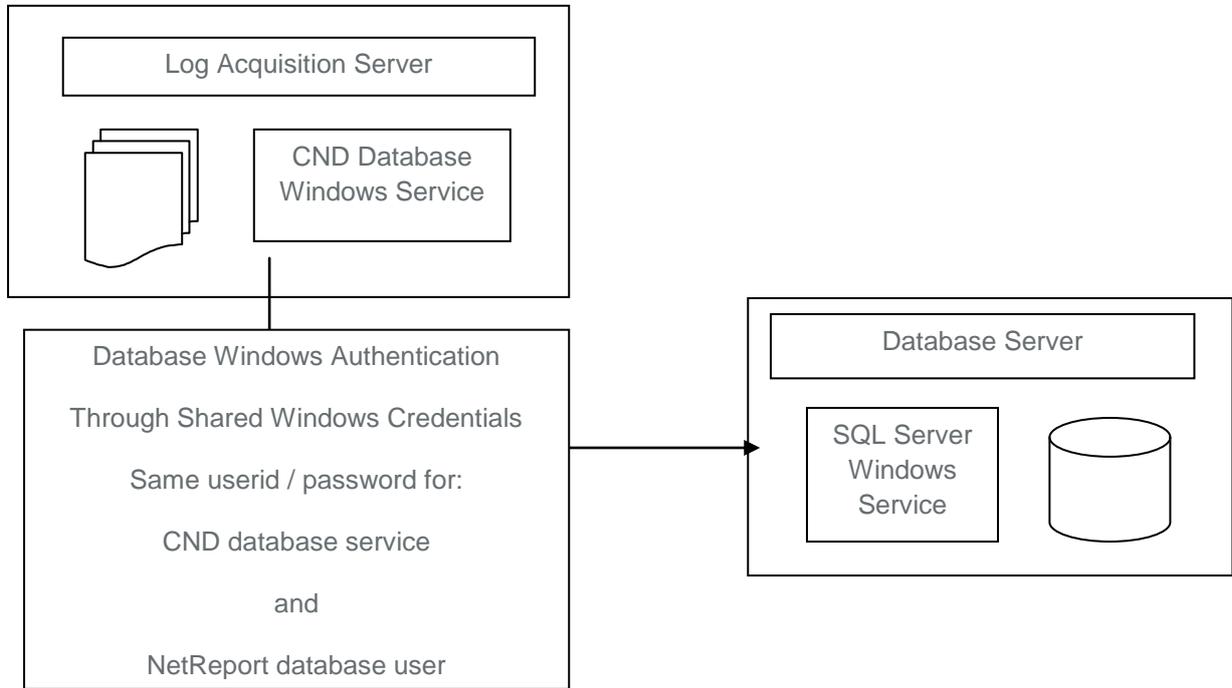
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## Architecture

Net Report uses Windows Authentication to connect to the database. As a consequence you need to provide a Windows User credential that is able to log into your SQL Server Database.





## Section 1: Configure the Remote SQL Server Machine

### A. Create a Custom User

1. Connect to the machine where the remote SQL Server is running
2. Create a User that will be used by Click & DECiDE - NSI to connect to your database.

#### WARNINGS:

- You must choose a password that complies with the password policy of both the remote SQL Server machine and the machine that runs Click & DECiDE - NSI.
- If the machine is located in a domain, this user must belong to the domain. In this case, its password must comply with the password policies of the domain.

### B. Run the SQL Server Configuration Tool

1. Connect to the machine where the SQL Server is running

**WARNING:** this operation requires SQL Server Administrator privileges. Be sure to connect as a user that has such privileges.

2. Locate the Installation Files of Click & DECiDE - NSI.

3. Run the SQL Server Configuration Tool from the local disk:  
**SQL Server Configurator\DVSqlServerConfig.exe**

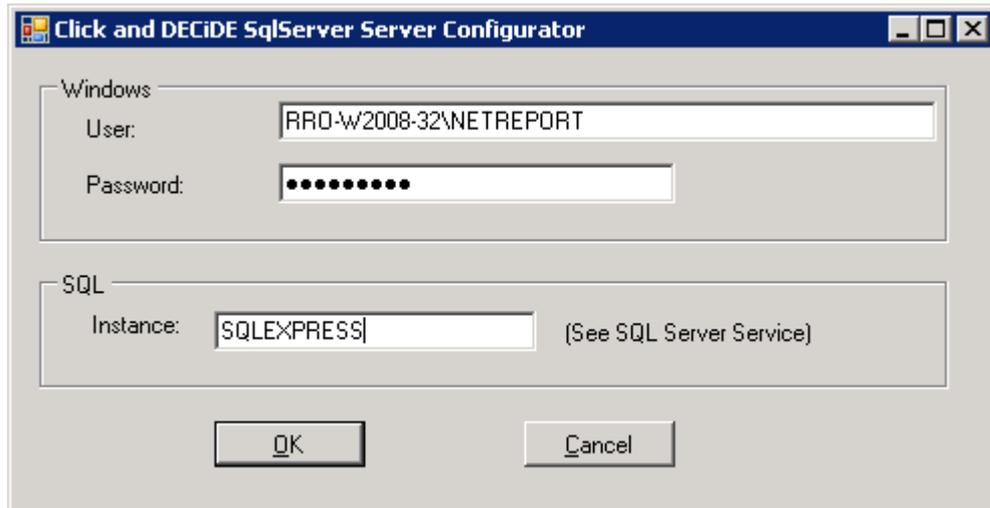
**Note:** If you are using NETASQ Event Analyzer 1 .0, please use the following SQL Server Configuration tool instead of the one provided with your installation program:

[http://www.clickndecide.com/downloads/patches/NEA\\_1.0\\_Remote\\_SQLServer\\_Configurator\\_Fix.zip](http://www.clickndecide.com/downloads/patches/NEA_1.0_Remote_SQLServer_Configurator_Fix.zip)

**WARNING:** the SQL Server Configuration Tool has to run from a local disk. Be sure to copy the SQL Server Configurator folder on your local disk before running the program.

4. Enter the full name and the password of the user used by Click & DECiDE - NSI to connect to the database
5. Enter the name of the SQL Server Instance.

**INFORMATION:** the SQL Server instance is the name that appears between brackets after the name of the SQL Server service (Start>Administrative Tools>Services).



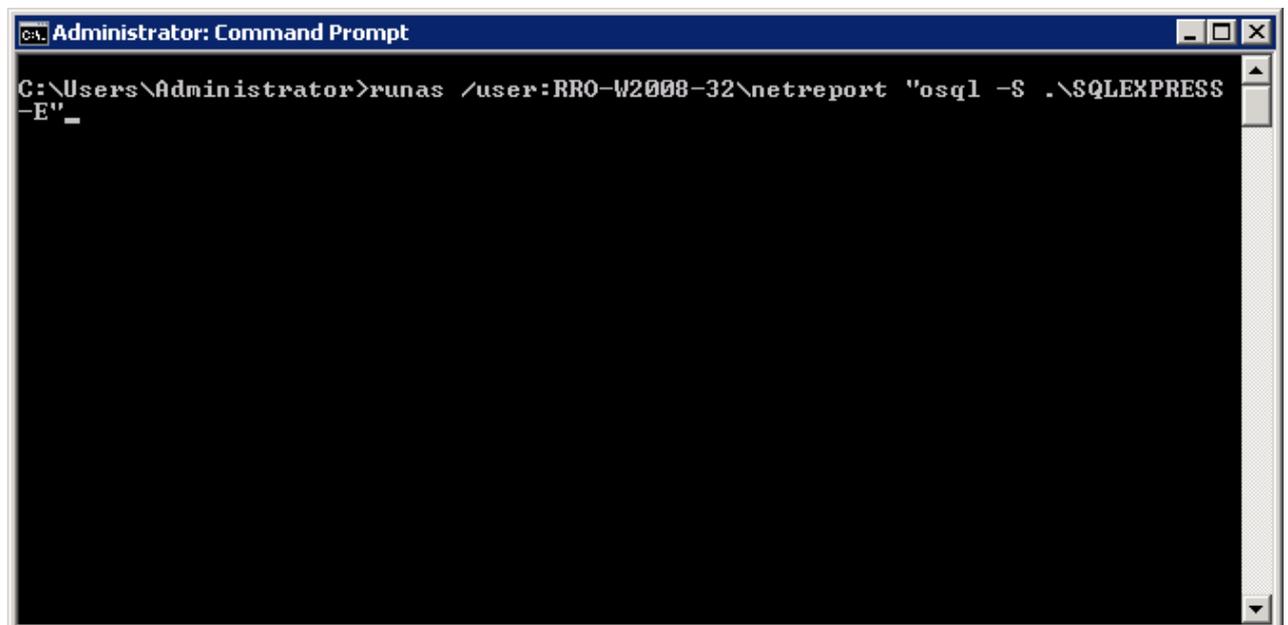
6. Click **OK**.

## C. Test the configuration

1. Open a Command Prompt: **Start>All Programs>Accessories>Command Prompt**.
2. Enter the following command:

```
>runas /user:<domain>\<user> "osql -S .\<instance> -E"
```

Replace **<domain>** by your domain name, **<user>** by the user name created in chapter A. and **<instance>** by the SQL Server instance.



3. Type **<ENTER>**.
4. Enter the password for the user created in chapter A.
5. Type **<ENTER>**.



6. The following windows should appear:



7. Then quit to exit from the command prompt.



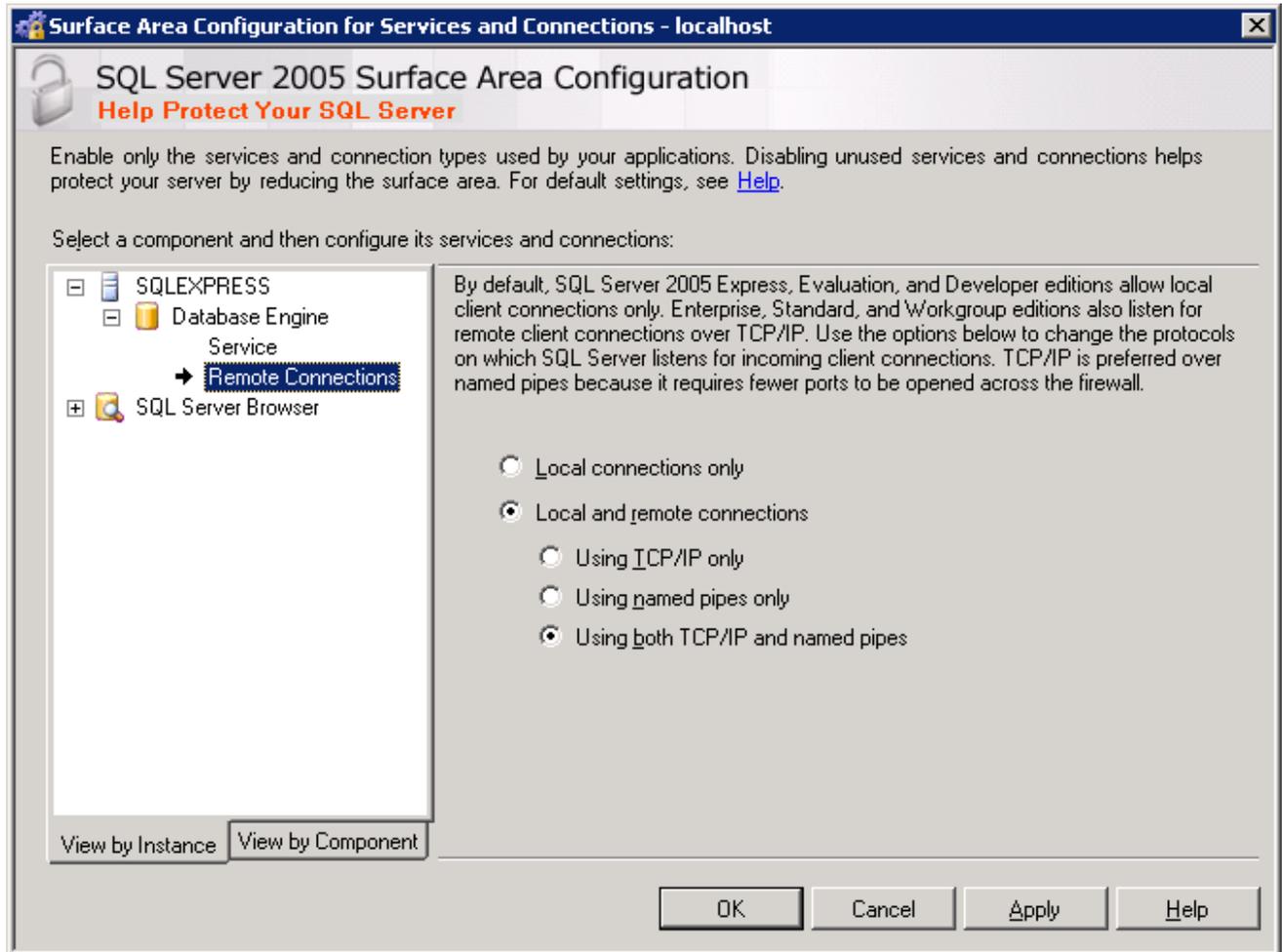
## D. Prepare the SQL Server for Remote Connections

### 1. Verify that the SQL Server is accepting remote connection.

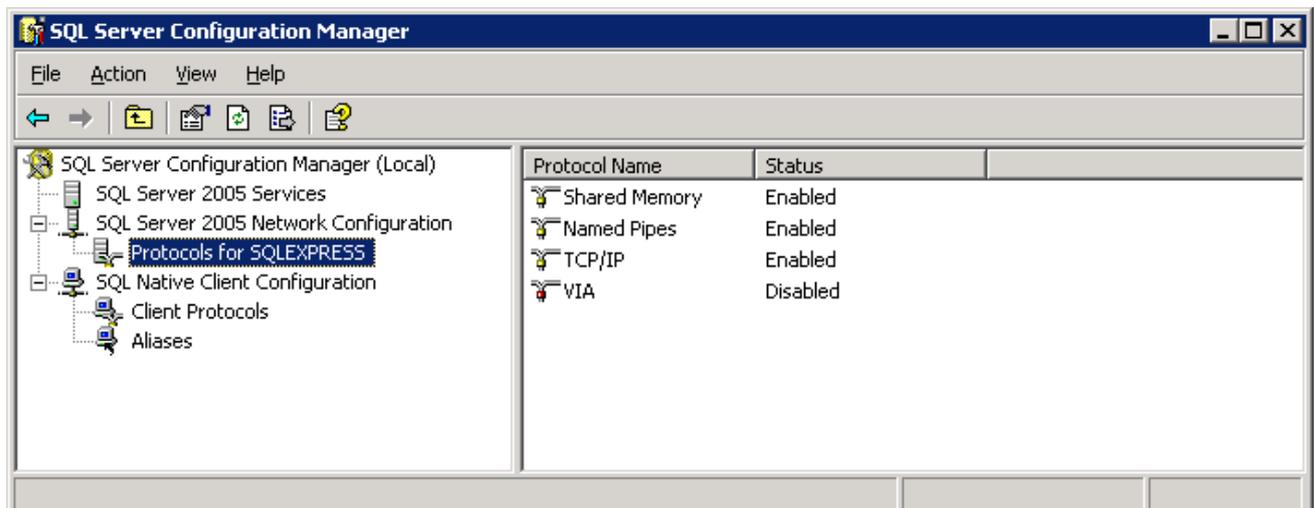
For SQL Server 2005, start the SQL Server Surface Area Configuration from All Programs / Microsoft SQL Server 2005 / Configuration Tools.



Then click on Surface Area Configuration for Services and Connections and check that remote connections are allowed as below:

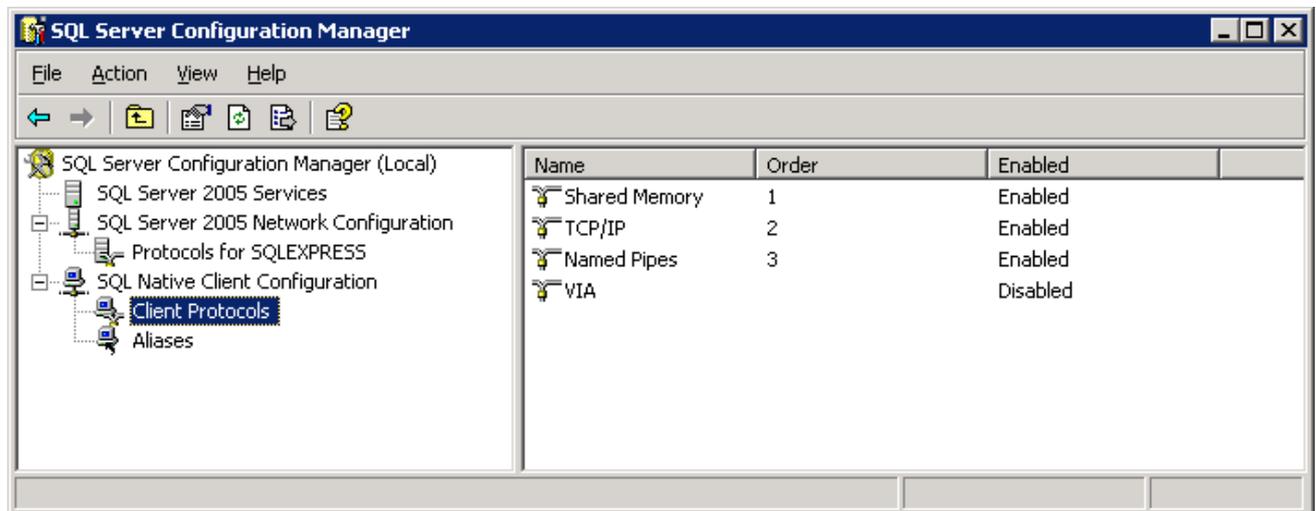
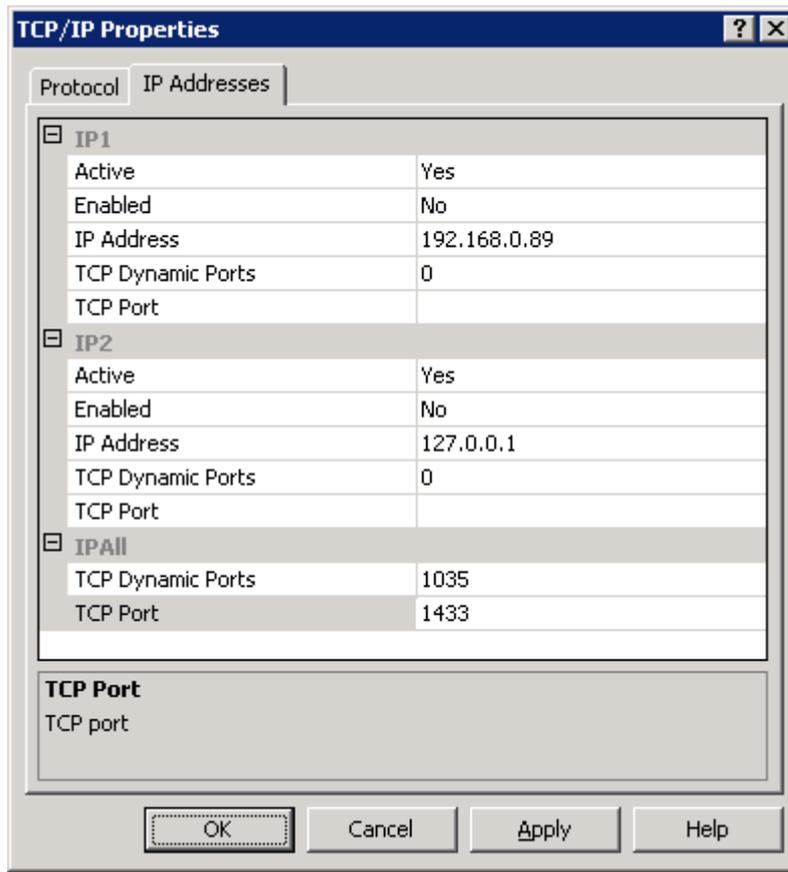


Then start the SQL Server Configuration Manager from All Programs / Microsoft SQL Server 2005 / Configuration Tools and check protocols are enabled as below:

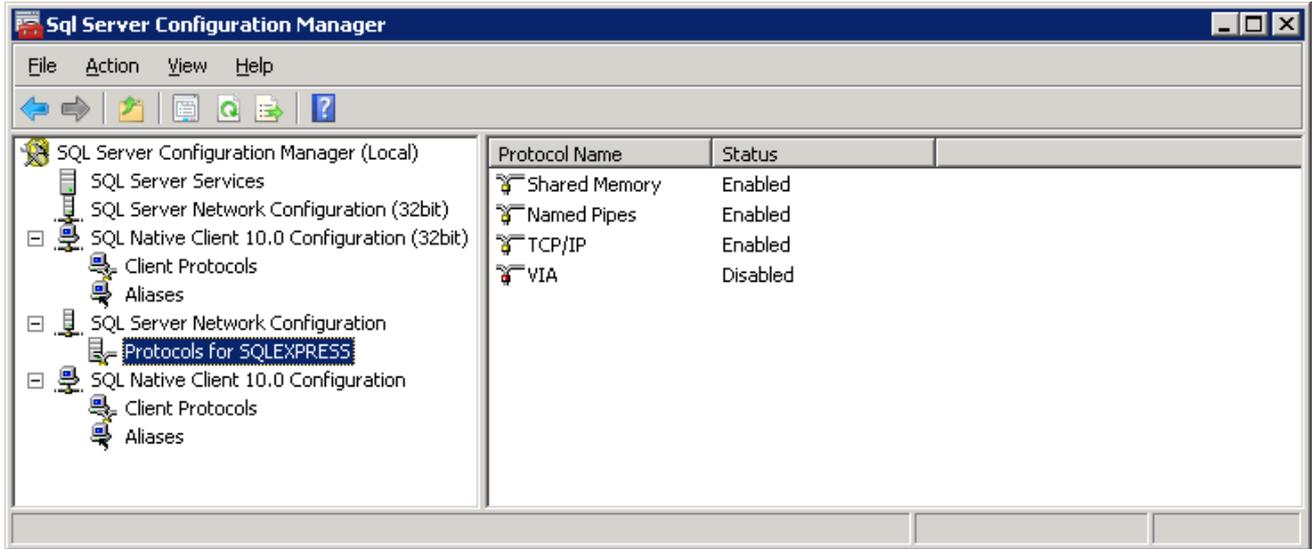




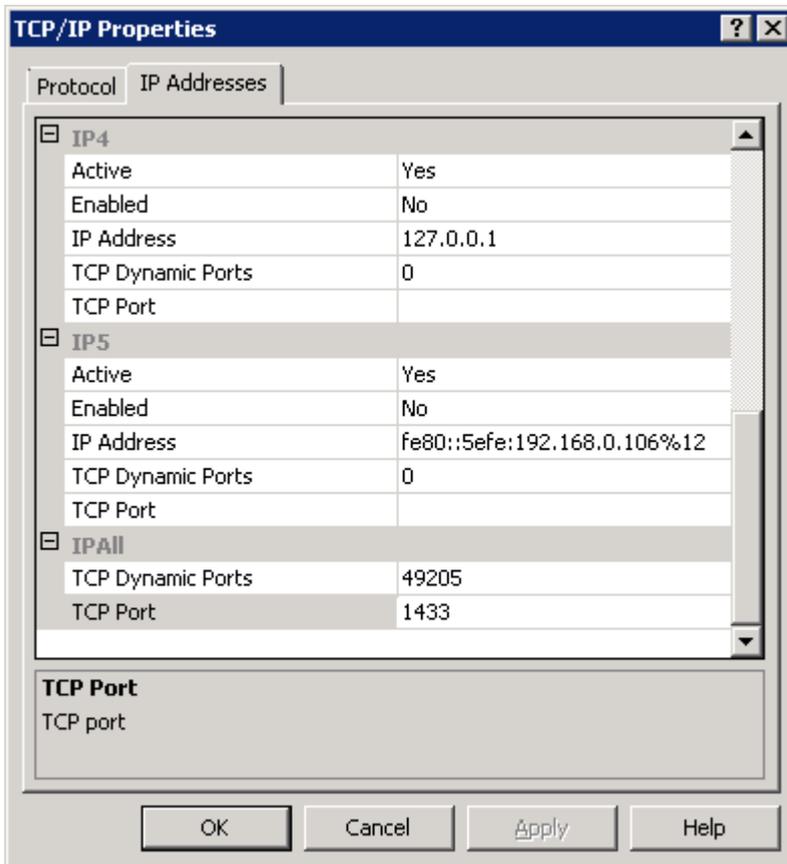
Then right click on TCP/IP properties and set a fixed TCP port for IPAll at 1433 as below:



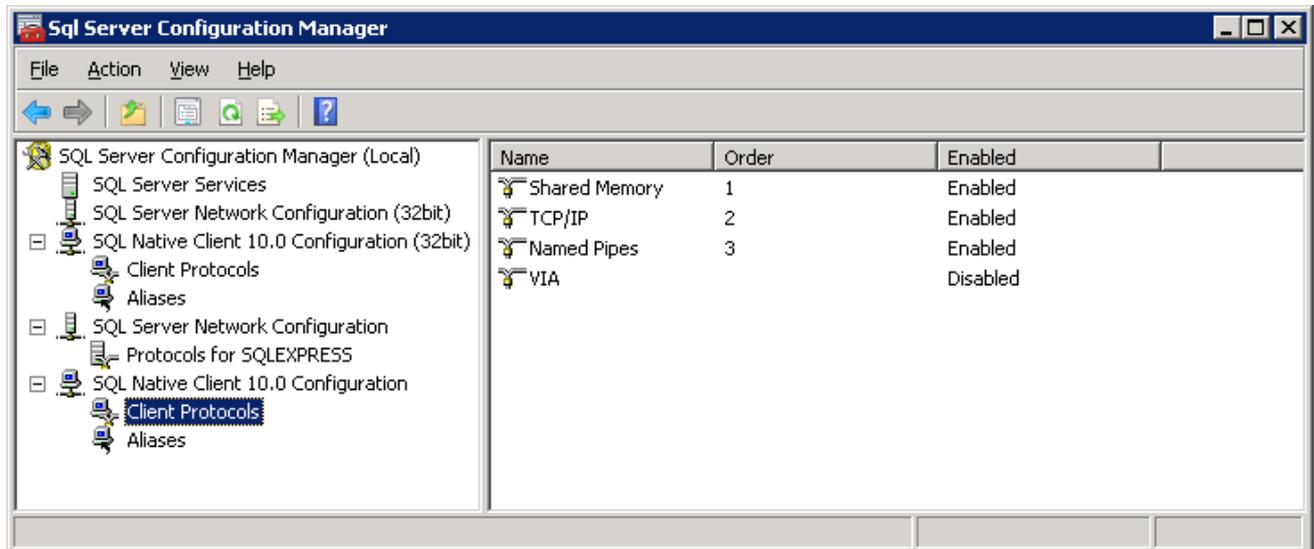
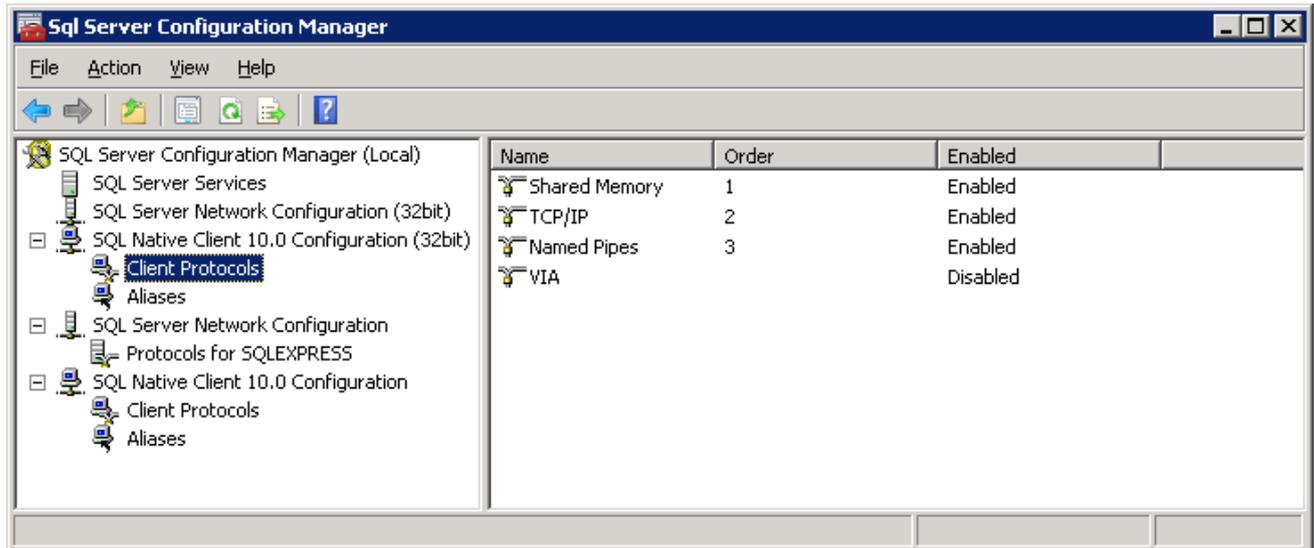
For SQL Server 2008, start the SQL Server Configuration Manager from All Programs / Microsoft SQL Server 2005 / Configuration Tools and check protocols are enabled as below:



Then right click on TCP/IP properties and set a fixed TCP port for IPAll at 1433 as below:



The following window will appear only in 64 bits version.



2. Verify that no FIREWALL setting is blocking the communication between the two machines.
  - SQL Server: TCP 1433
  - SQL Browser: UDP 1434

## Section 2: Prepare the Click & DECiDE - NSI Machine

### A. Create Custom User

3. Connect to the machine where Click & DECiDE - NSI is installed.
4. Create a User that will be used by Click & DECiDE - NSI to connect to your database.
  - a. This user must have the same login and password as the one created in section 1.A.
  - b. If the machine is located in a domain, use the user created in section 1.A



- Grant the **log on as a batch job** and **log on as a service** rights to this user.

From Administrative Tools, start the Local Security Policy.

Then, in Local Policies / User Rights Assignment, add this user to entries below:

- Log on as a batch job
- Log on as a service

- Give full access to this user on the following directories used by NSI:

- The installation directory located by default at:  
**C:\Program Files\Click and DECiDE\NSI.**
- The Storage directory if you are using the Log Storage options. By default it is located at:  
**C:\NetReportStorage**
- The Archive directory if you are using the NSI Log Archive Service. By default it is located at:  
**C:\NetReportArchives**
- The Error Queue directory if you have changed its default location.

- Open a Command Prompt.

- Enter the following command:

```
>C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\aspnet_regiis.exe -ga  
<domain>\<user>
```

Replace **<domain>** by your domain name, **<user>** by the user name created in step 2.

- Type <ENTER>

## B. Test the Database Connection

- Download and install Microsoft SQL Server Management Studio Express (SSMSE) from Microsoft web site:

### SQL Server 2005:

<http://www.microsoft.com/downloads/details.aspx?FamilyID=5D76230D-580D-4874-8C7D-93491A29DB15&displaylang=en>

### SQL Server 2008:

<http://www.microsoft.com/downloads/details.aspx?FamilyID=08e52ac2-1d62-45f6-9a4a-4b76a8564a2b&displaylang=en>

- Open a Command Prompt: **Start>All Programs>Accessories>Command Prompt.**

- Enter the following command:

For SQL Server 2005

```
> cd "C:\Program Files\Microsoft SQL  
Server\90\Tools\Binn\VSShell\Common7\IDE"
```

For SQL Server 2008 32 bits

```
> cd "C:\Program Files\Microsoft SQL  
Server\100\Tools\Binn\VSShell\Common7\IDE"
```

For SQL Server 2008 64 bits

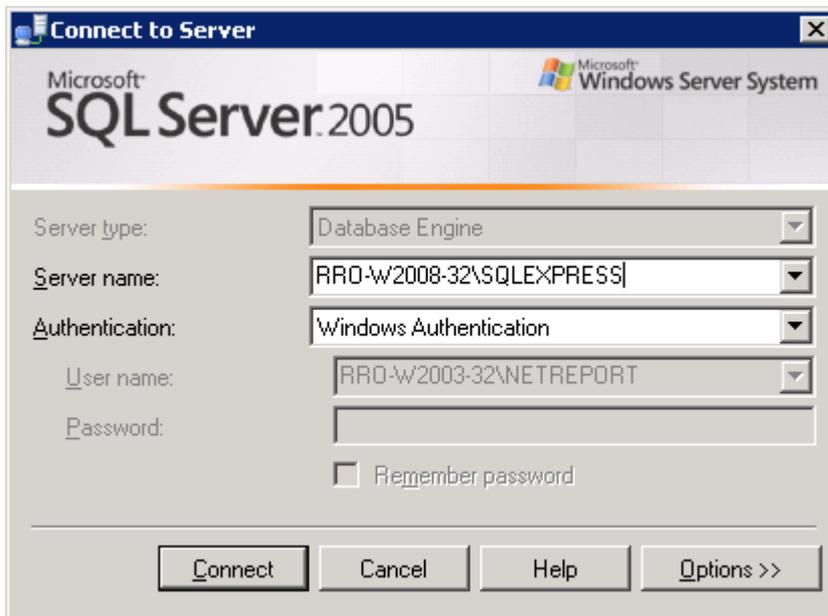


```
> cd "C:\Program Files (x86)\Microsoft SQL  
Server\100\Tools\Binn\VSShell\Common7\IDE"
```

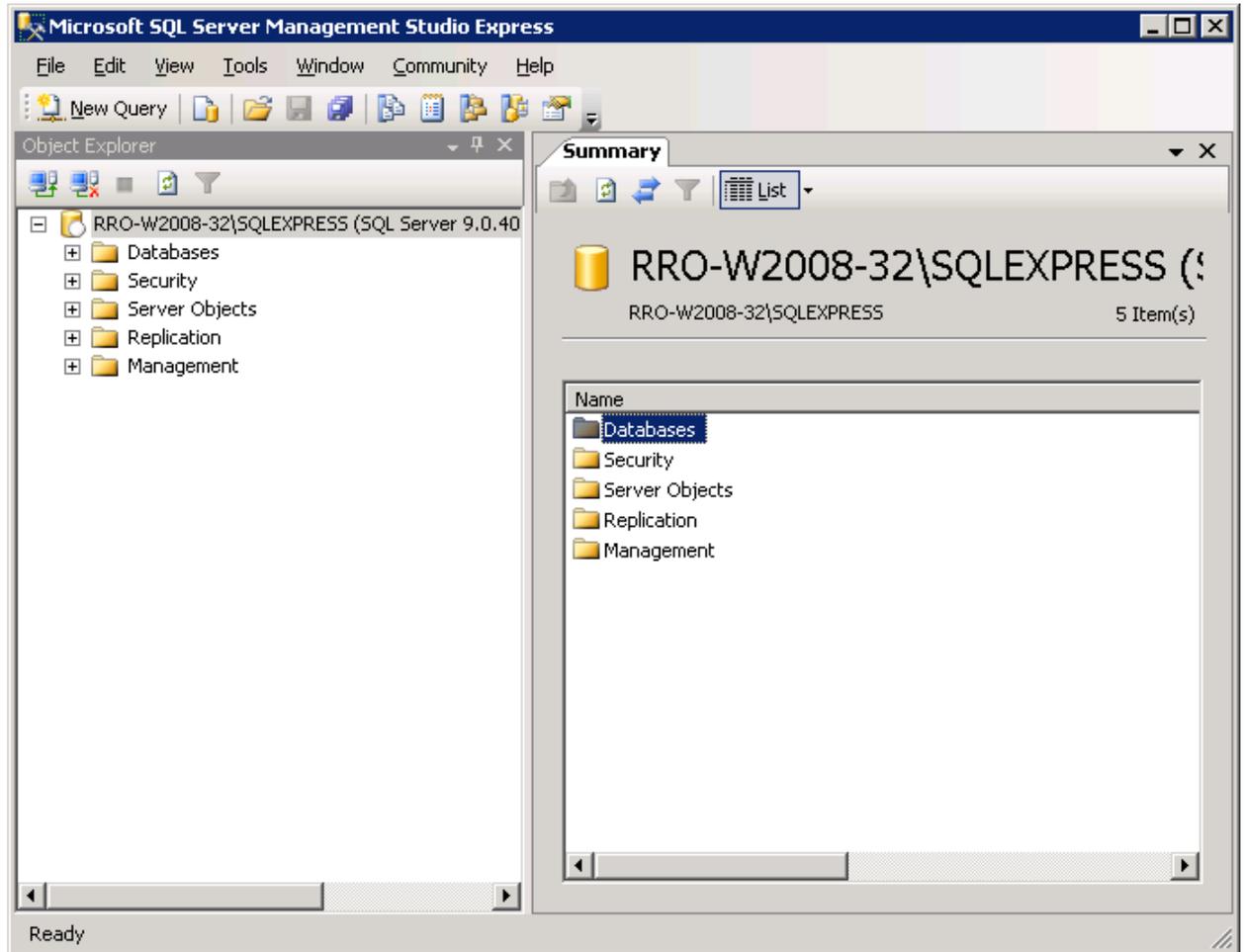
```
>runas /user:<domain>\<user> ssmsee.exe
```

Replace **<domain>** by your domain name, **<user>** by the user name created in step 2.

4. Type **<ENTER>**.
5. Enter the password of the user created in step 2.
6. Type **<ENTER>**.
7. Enter the **Server Name** (<machine>\<instance>) of the SQL Server you want to connect to.



8. Click **Connect**.
9. You should be connected to the remote SQL Server.



10. If you got an error when connecting to your database, check all settings and retry.

## Section 3: Configure Click & DECiDE - NSI

1. Install Click & DECiDE – NSI if not already done.
2. In **Log Source Configuration**, click the **Settings...** button of the **Database** section.
  - a. Log source configuration can be started at reboot after a fresh installation or
  - b. Can be started from All Programs / Click & DECiDE / NSI /
3. Fill the **Server Name**.
4. Fill the **Instance Name**.
5. Enter the login (<domain>\<user>) and password of the user you created in section 2.A.
6. Check the **Update Database** box.



**Click and DECiDE - for NSI Enterprise Configurator - Database Settings**

 **Database Connection Settings**  
Please use only Case Insensitive settings.

Database Server: Remote SQL Server  
Server Name: RRO-W2008-32  
Server Instance: SQLEXPRESS

**Login**  
Windows User: RRO-W2003-32\NETREPORT ? **Test**  
Password: \*\*\*\*\*

**Database Update Settings**  
Configure the update settings for the NSI Database.

Update Database  
 Delete existing data

**Database Time Zone Settings**  
 Use UTC offset (Coordinated Universal Time)  
Time Zone: (GMT+01:00) Brussels, Copenhagen, Madrid, Paris  
 Adjust for Daylight Saving Time (DST)

Powered by Click and DECiDE OK Cancel Help

7. Click **Test** to check the SQL Server connection.
8. Click **OK**.
9. Wait for the Log Source Configuration Tool to update the Click & DECiDE - NSI configuration.
10. Click **Close**.