Microsoft SQL Server ports

Ports and protocols used by Microsoft SQL Server database engine (SQLServer).

About this task

Microsoft SQL Server is a relational database management system (RDBMS) produced by Microsoft. Its primary query language is Transact-SQL, an implementation of the ANSI/ISO standard Structured Query Language (SQL) which is used by Microsoft. You need to allow distant users to connect to the SQL server so they can address it their queries.

SQL Server is used by:

- Content Manager End User components;
- Content Manager Author components;
- Content Manager Database.

Note: The first step of this procedure is sufficient in most cases. Go through the other steps if you encounter any issue.

Procedure

1. Enable remote connections to your SQL Server.
   a. Open **SQL Server Management Studio**.
   b. Right-click your server's name and select **Properties**.
   c. Tick the checkbox **Allow remote connections to this server**.
   d. Select **OK**.

   Microsoft SQL Server by default uses TCP 1433 but this can be changed using **SQL Server Enterprise Manager** or the database **Management Studio**.

2. Enable TCP/IP.
   a. Open the **SQL Server Configuration Manager**.
   b. In **SQL Server Network Configuration** select **Protocols for [yourServerInstance]**.
   c. In the right-hand pane, make sure that **TCP/IP** is **Enabled**.

3. Open the 1433 port in your firewall.
   a. In the **SQL Server Configuration Manager**, right-click *TCP/IP* and select **Properties**.
   b. Select the **IP Addresses** tab and make sure the *TCP Port* for *IP1* is `1433`.

4. If you are using a named instance, create an extra rule in your firewall with the port 1434.

   Note: For a named SQL Server instance (e.g. `[yourServerInstance]\SQL2012SP2`), the firewall needs an extra rule on the UDP protocol with the specific port 1434. Without this rule the system will return the exception `error: 26 - Error Locating Server/Instance Specified`.

   a. Display the firewall advanced settings by navigating to **Control Panel** > **System and Security** > **Windows Firewall** > **Advanced settings**.
   b. Select **Inbound Rules** in the left-hand pane, then click **New Rule** in the right-hand pane.
   c. In the **New Inbound Rule Wizard**, **Rule Type step**, select **Port**.
   d. **Protocols and Ports** step, select **UDP** and set **Specific local ports** to `1434`.
   e. **Action** step, select **Allow the connection**.
   f. **Profile** step, tick the **Domain** checkbox.
   g. **Name** step, enter a name for this rule, e.g. `Named instance port 1434`.
   h. Select **Finish**.

What to do next

For more information, refer to:

- http://support.microsoft.com/kb/287932 *(HTTP://SUPPORT.MICROSOFT.COM/KB/287932)*

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Parent topic: Firewalls and blocked ports *(/801922/64164/sdl-tridion-docs-13-sp2/firewalls-and-blocked-ports)*

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