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Microsoft SQL Server[®] 2017 Express Configuration

This article will guide you through the process of configuring SQL Server 2017 Express, after it has been installed with the preview steps ("Installation of Microsoft SQL Server[®]", Topic 2).

Enable TCP/IP

We need to configure the Microsoft SQL Server[®] "Network options", that are disabled by default.

- 1. In the Start Menu, open Programs > Microsoft SQL Server 2017 > Configuration Tools > SQL Server Configuration Manager
- 2. Expand "SQL Server Network Configuration" node and select "Protocols ..."



3. If you need Named Pipes, then you can enable them here as well





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4. (Enable TCP/IP) Right click on the "TCP/IP" and select "Properties"; then click the "IP Addresses" tab, insert the relative TCP Port number (e.g. 1433).

		Pro	prietà - TCP/IP	?	×
				·	
		Pr	otocol IP Addresses		
Protocol Name Shared Memory Named Pipes TCP/IP	Status Enabled Enabled	E	Enabled IP Address TCP Dynamic Ports TCP Port IP11 Active Enabled IP Address TCP Dynamic Ports TCP Port IP12 Active Enabled IP Address TCP Dynamic Ports TCP Port IP Address TCP Port IP Address TCP Port CP Port CP Port CP Port CP Port CP Dynamic Ports TCP Port CP Port CP Dynamic Ports TCP Port CP Port CP Port CP Port	No 127.0.0.1 1433 1433 1433 1433 Ves No 2001:0:5ef5:79fb:47b:3152:43 0 Ves No fe80::47b:3152:43f6:47cc%5 0 Vec Annulia Applica	23f6:4 ⁻
	Protocol Name Shared Memory Named Pipes TCP/IP	Protocol Name Status Samed Memory Enabled Named Pipes Enabled TCP/IP Enabled	Protocol Name Status Shared Memory Enabled Named Pipes Enabled TCP/IP Enabled Enabled	Proprietà - TCP/IP Protocol Name Status Shared Memory Enabled Named Pipes Enabled TCP/IP Enabled IP Addresss TCP Port IP Address TCP Port IP Port IP Port IP Port IP Port IP Port IP Port ICP Port IP Port IP Port IP Port IP Port IP Port IP Port IP Port IP Port IP Port	Proprietà - TCP/IP ? Protocol Name Status Shared Memory Enabled Named Pipes Enabled TCP/IP Enabled IP Addresses 127.0.0.1 TCP Dynamic Ports 1433 TCP Port 1433 TCP Port 1433 IP Address 2001:0:5ef5:79fb:47b:3152:4 IP Address 2001:0:5ef5:79fb:47b:3152:4 IP Address 2001:0:5ef5:79fb:47b:3152:4 IP Address 2001:0:5ef5:79fb:47b:3152:4 IP Port IP12 Active Yes Enabled No IP Address 2001:0:5ef5:79fb:47b:3152:43f6:47cc%5 TCP Port IP12 Active Yes Enabled No IP Address fe80:47b:3152:43f6:47cc%5 TCP Port IP13 Activa Vac TCP port IP port IP port IP port

5. Close the SQL Server Configuration Manager.

Configuration the "Server Authentication" and "SA Account"

In the Start Menu, open Programs > Microsoft SQL Server 2017 > SQL Server Management Studio

🚽 Connect to Server		×	
	SQL Server		
Server type:	Database Engine	~	
Server name:	SERVER\ARPRO	~	
<u>A</u> uthentication:	Windows Authentication	~	
<u>U</u> ser name:	SERVER\UT1	~	Server name
Password:			exact computer name and instance
	Remember password		(E.g.: JOHN\ARPRO).
	Connect Cancel Help	Options >>	



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Server Authentication

If "Windows Mode" (Windows authentication) has been selected during the process of installing SQL Server 2017 Express, "Server Authentication" needs to be configured on the Database Engine Configuration page.

1. Right click on the instance name and select "Properties" from the list, in the new window.







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2. Select "Security" and activate "SQL Server and Windows Authentication mode", on the Server authentication section.

Server Properties - \AF	IPRO	—		×
Select a page General Memory Processors Security Connections Database Settings Advanced Permissions	 Script ▼ ? Help Server authentication <u>W</u>indows Authentication mode <u>SQL</u> Server and Windows Authentication mode Login auditing <u>N</u>one <u>F</u>ailed logins only Successful logins only <u>B</u>oth failed and successful logins Server proxy account 			
Connection Server: NB20\ARPRO Connection: NB20\DOLORES Image: Mew connection properties Progress Ready	Enable server proxy account Proxy account: Password: Options Enable C2 audit tracing Cross database ownership chaining			
		OK	Can	cel

SA Account

The configuration involves 2 distinct phases: account activation and insertion of the login password.

- 1. Select "Security" on the Object Explorer window, then "Access Account"
- 2. Right click on "sa" account and select "Properties" in the new window
- 3. With "General" selected, insert the Password. We suggest the default, used in @/Arpro configuration: belmondo123\$



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📕 Login Properties - sa					×
Select a page General Server Roles User Mapping Status	🖵 Script 🔻 🕜 Help				
	Login <u>n</u> ame:	<mark>8a</mark>		S <u>e</u> arc	h
	 <u>SQL</u> Server authentication <u>Password</u>: Confirm password: 	•••••			
	Old password				
	Enforce password policy	tion			
	 User must change passw Mapped to certificate 	vord at next login	\sim		
Connection	O Mapped <u>t</u> o asymmetric key		\sim		
Server: NB20\ARPRO	Map to Credential		~	Add	ł

4. With "Status" selected, we can activate the "sa" account (Enabled)

📕 Login Properties - sa		—	×
Select a page & General	🖵 Script 🔻 😮 Help		
 Server Roles User Mapping Status 	Settings Permission to connect to database engine:		

Add Firewall Exceptions

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If you have a software firewall installed on your server, you will need to add exceptions for the SQL Server and SQL Browser services. If you are using Windows Firewall, do the following:

- 1. In your Windows Control Panel, open the "Windows Firewall" applet.
- 2. Go to the Exceptions tab.
- 3. Click Add Program
- 4. Browse to and select "C:\Program Files\Microsoft SQL Server\MSSQL.10\MSSQL\Binn\sqlservr.exe"
- 5. Click OK.
- 6. Click Add Program
- 7. Browse to and select "C:\Program Files\Microsoft SQL Server\90\Shared\sqlbrowser.exe"
- 8. Click OK and then click OK again.

If you are using a third-party software firewall, you will need to follow their instructions to add exceptions to sqlservr.exe and sqlbrowser.exe.

Restart the Services or Reboot the Server

When you have completed all of these steps, you will need to restart the SQL Server and SQL Browser services to complete the process. If you still have problems, you may need to restart your server.

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