Installazione di SQL Server Express 2014 per InTouch Edge HMI e abilitazione dell'utente sa con mixed mode authentication

Rev. 1

06/04/2020



Technical Services

Introduzione

Questa TN descrive la procedura per una corretta installazione di SQL Server Express 2014 (si può scaricare dal seguente link <u>https://www.microsoft.com/it-it/download/details.aspx?id=53167</u> oppure si può recuperare l'installer dal CD di installazione della System Platform 2017 al percorso D:\InstallFiles\Redist\SQL2014EXPRSP2 dove D è il disco di installazione della System Platform 2017).

Versioni

Quanto descritto in questa TN si applica a tutti i sistemi operativi compatibili con SQL Server 2014. Attualmente sono compatibili tutti i sistemi operativi da Windows 7 e Windows Server 2008 R2 fino a Windows 10 e Windows Server 2019.

La presente TN non vale per l'installazione di SQL Server nel caso si usi InTouch o System Platform. Per questi prodotti si chiede di seguire le technotes **AVEVA 2959 (per SQL Server 2014) e AVEVA 10224 (per SQL Server 2016)**.

Passaggi preliminari

Prima di partire con l'installazione, assicuriamoci di avere sbloccato il file (nel caso fosse stato bloccato dal Sistema operativo), di avere gli User Account Control (UAC) disabilitati e i firewall non attivi.

Per:

- 1. Sbloccare il file:
 - a. Tasto destro sul file
 - b. Proprietà
 - c. Annulla blocco
- 2. Disabilitare gli UAC:
 - a. Aprire il menu Start
 - b. Scrivere **uac**
 - c. Premere invio
 - d. Portare la levetta blu in basso

💔 User Account Control Set	tings	_	×
Choose wh User Account fell me more a Always no	nen to be notified about changes to your computer Control helps prevent potentially harmful programs from making changes to y about User Account Control settings	/our computer.	
- -	Never notify me when:		
	Apps try to install software or make changes to my computer I make changes to Windows settings		
	Not recommended.		
Never noti	ífy		
	Фок	Cancel	

- 3. Disabilitare i firewall
 - a. Aprire il menu Start
 - b. Scrivere firewall e scegliere Windows Defender Firewall with Advanced Security
 - c. Cliccare su Windows Defender Firewall Properties
 - d. Mettere in Off il campo Firewall State su Domain Profile, Private Profile e Public Profile
 - e. Cliccare Apply e OK

A						
💣 Windows Defender Firewall with Advanced Security				-	Ц	×
File Action View Help						
Windows Defender Firewall wite Windows Defender Firewall with Advanced Security on Local Computer		Act	ions			
S Inbound Rules	^	Wi	ndows Defender Firewall with Advance	ed Secu	irity on L	oc 🔺
Lonnection Security Rules Windows Defender Firewall with Advanced Security provides network security for W	ndo		Import Policy			
> 🕾 Monitoring	-	8	Export Policy			
Overview			Restore Default Policy			
Domain Profile			Diagnose / Repair			
Windows Defender Firewall is off.			View			•
Private Profile		Q	Refresh			
Windows Defender Firewall is off.			Properties			
Public Profile is Active		?	Help			
Windows Defender Firewall is off.						
Windows Defender Firewall Properties	-1					
Getting Started						
Authenticate communications between computers						
Create connection security rules to specify how and when connections between computer protected by using Internet Protocol security (IPsec).	are					
Connection Security Rules						
View and create firewall rules						
Create firewall rules to allow or block connections to specified programs or ports. You can a it is authenticated, or if it comes from an authorized user, group, or computer. By default, int blocked unless they match a rule that allows them, and outbound connections are allowed blocks them.	lso a ioun unle					
Inbound Rules						
Outbound Rules						
View current firewall and IPsec policy and activity						
Vew information about currently applied firewall and connection security rules and security network connections.	asso					
	~					
	/	J				

Riavviate la macchina per applicare tutti i settaggi correttamente.

Installazione di SQL Server

A questo punto, avendo recuperato il setup dal CD di installazione della System Platform 2017:

- 1. Avviare il setup come amministratore cliccando sul setup con il tasto destro e selezionando dal menu **Run as Administrator**.
- 2. Scegliere la cartella di destinazione dell'estrazione del setup e cliccare **Ok** (meglio usare il percorso di default)
- 3. Scegliere New SQL Server stand-alone installation or add features to an existing installation



4. Accettiamo i termini di licenza per proseguire l'installazione

🐮 SQL Server 2014 Setup		·—		×
License Terms To install SQL Server 2014, y	ou must accept the Microsoft Software License Terms.			
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Feature Configuration Rules	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2014 EXPRESS These license terms are an agreement between Microsoft Corporation (or live, one of its affiliates) and you. Please read them. They apply to the softw which includes the media on which you received it, if any. The terms also a updates, supplements,	based on wi ware nameo pply to any	here you 1 above, Microsofi	t >
Installation Progress Complete	✓ I accept the license terms. □ Turn on Customer Experience Improvement Program ("CEIP") and Error Report quality, reliability and performance of Microsoft SQL Server 2014. See the Microsoft SQL Server 2014 Privacy Statement for more information. * Microsoft SQL Server 2014 also includes a Visual Studio component that will ha off by default. If Visual Studio is installed, this component will use the CEIP setting	ing to help i ve CEIP setti gs for Visual	Copy I mprove tl ngs turne Studio.) Print he
	< Back N	ext >	Cance	

5. Proseguiamo fino alla sezione Feature Selection e clicchiamo Next lasciando tutto di default

🐮 SQL Server 2014 Setup			<u>100</u> 9		×
Feature Selection Select the Express features to i	install.				
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress	Features: Database Engine Services SQL Server Replication Shared Features Client Tools Connectivity Client Tools Backwards C Client Tools SDK Management Tools - Bass Management Tools - Bass SQL Client Connectivity S Redistributable Features	s in Compatibility sic Complete SDK	Feature description: The configuration and operation of u instance feature of a SQL Server insta isolated from other SQL Server insta Server instances can operate side-by Prerequisites for selected features: Already installed: 	each ance is nces. SQL -side on >	• • • • • • • • • • • • • • • • • • •
Complete	Select All Unselect All Instance root directory: Shared feature directory: Shared feature directory (x86):	C:\Program Files (x C:\Program Files\N C:\Program Files (x < Back	86)\Microsoft SQL Server\ /icrosoft SQL Server\ 86)\Microsoft SQL Server\ Next > Cancel		

6. Nella sezione Instance Configuration selezioniamo Default Instance e clicchiamo Next

髋 SQL Server 2014 Setup					-		×
Instance Configuration Specify the name and instance	n e ID for the instance of S	QL Server, Instance	ID becomes part of t	he installation path.			
License Terms Global Rules Microsoft Update	Default instance Named instance:	MSSQLSERVER					
Product Updates Install Setup Files Install Rules Feature Selection	Instance ID:	MSSQLSERVER					
Feature Rules Instance Configuration Server Configuration	SQL Server directory: Installed instances:	C:\Program Files	(x86)\Microsoft SQL S	erver\MSSQL12.MSSQ	LSERVER		
Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Instance Name	Instance ID	Features	Edition	Ver	rsion	
			< Back	Next > Cano	cel	Help	•

7. Proseguiamo con l'installazione fino a quando non ha completato l'installazione effettiva

🃸 SQL Server 2014 Setup			×
Installation Progress			
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Install_sql_engine_core_shared_Cpu32_Action : InstallFinalize.		
	Next > Cance	Help	

8. Ad installazione completata ci troviamo nella seguente situazione e clicchiamo Close

髋 SQL Server 2014 Setup		- 0	×
Complete Your SQL Server 2014 installation	on completed successfully with product updates.		
License Terms	Information about the Setup operation or poss	ible next steps:	
Global Rules	Feature	Status	^
Microsoft Update	Management Tools - Complete	Succeeded	
Product Updates	Client Tools Connectivity	Succeeded	
Install Setup Files	Client Tools SDK	Succeeded	
Install Rules	Client Tools Backwards Compatibility	Succeeded	
Feature Selection	Management Tools - Basic	Succeeded	
Feature Rules	Datahase Engine Services	Succeeded	•
Instance Configuration			
Server Configuration	Details:		
Database Engine Configuration	Viewing Product Documentation for SC) Server	^
Feature Configuration Rules	Freeding Freedoct Documentation for St		
Installation Progress	Only the components that you use to view	and manage the documentation for SQL Server have	
Complete	been installed. By default, the Help Viewer	r component uses the online library. After installing	
complete	your local computer. For more information	see Use Microsoft Books Online for SQL Server	
	(<http: ?linkid="2</td" fwlink="" go.microsoft.com=""><td><u>99578></u>).</td><td></td></http:>	<u>99578></u>).	
			×
	Summary log file has been saved to the followi	ng location:	
	C:\Program Files (x86)\Microsoft SQL Server\1	20\Setup Bootstrap\Log\20191209_200304	
	\Summary WIN101903 20191209 200304.tx	t	
		Close Help	
			:

9. Ad installazione completata riavviamo la macchina (operazione consigliata ad ogni installazione/disinstallazione di qualsiasi software).

Abilitazione della mixed mode authentication e dell'utente sa

Una volta riavviata la macchina avviamo **SQL Server Management Studio** (**SSMS** da qui in avanti), ovvero il programma di gestione dei database messo a disposizione da Microsoft, gratuito e installato durante l'installazione di SQL Server.

Quindi:

1. Apriamo SSMS ed entriamo con l'autenticazione Windows (ovvero utilizziamo l'utente Windows loggato alla macchina) cliccando su **Connect**

merosoree		
Server type:	Database Engine	~
Server name:	WIN101903	~
Authentication:	Windows Authentication	~
User name:	WIN101903\Wonderare	×
Password:		
	Remember password	

2. Clicchiamo con il tasto destro sul nome del server e apriamo le proprietà del server e clicchiamo su **Security**

🔁 Databases	Server Properties - WIN1019	03	— D
🧀 Security	Select a page	Script - 🖪 Help	
🚞 Server Objects	General	a	
Carl Replication	Memory		
🛅 Management	Processors		
	Secury Secury		11011404000
	Detabase Cottineer	Name	WIN101903
	Database Settings	Product	Microsoft SQL Server Express
	Advanced	Operating System	Microsoft Windows N1 6.3 (18362)
	Permissions	Platform	NT INTEL X86
		version	12.0.5000.0
		Language	English (United States)
		Memory	4095 MB
		Processors	Z
		Root Directory	C:\Program Files (x86)\Microsoft SQL Server\M
		Server Collation	SQL_Latin I_General_CP1_CI_AS
		is Clustered	False
	Connection Server:		
	WIN101903 Connection: WIN101903\Wonderare	Name	
	······································	Hand of the server and instance.	
	Progress	A Changes to server properties a	nd settings may affect the performance, security, and
	Ready	availability of this SQL Server in product documentation.	istance, perore making any such changes, consult the

3. In questa sezione scegliamo l'opzione SQL Server and Windows Authentication Mode e clicchiamo OK

Server Properties - WIN1019	03				×
Select a page	🖾 Script 💌 🖪 Help				
Memory Processors Security Connections Database Settings Advanced Permissions	Server authentication — Windows Authentication SQL Server and Windows Login auditing None Failed logins only Successful logins only Both failed and succes Server proxy account — Enable server proxy a	ion mode tows Authentication mode v essful logins			
Connection	Proxy account: Password				
Server: WIN101903 Connection: WIN101903\Wonderare Wiew connection properties	Options Enable C2 audit tracin Cross database owne	ng rship chaining			
Progress					
C Ready					
			ОК	Canc	el

4. A questo punto, espandiamo la cartella Security->Logins



5. Doppio click sull'utente **sa** per aprire le sue **proprietà**. Clicchiamo su **Status** e scegliamo **Enabled** sotto **Login**



6. In **General** scegliamo una password che rispetti le eventuali policy del dominio e clicchiamo **OK**

						^
Select a page	Script 🔻 🖪 Help					
General Server Roles User Mapping Status	Script Help Login name: Vindows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password policy Enforce password expirat User must change password Napped to certificate	sa •• •• stion word at next login			Search	h
	 Mapped to asymmetric key 			~		
Connection	 Mapped to asymmetric key Map to Credential 			*	(A88	
Connection Server: WIN101903 Connection: WIN101903\Wonderare	 Mapped to asymmetric key Map to Credential Mapped Credentials 	Credential	Provider	*	Add	
Connection Server: WIN101903 Connection: WIN101903\Wonderare WIN101903\Wonderare	 Mapped to asymmetric key Map to Credential Mapped Credentials 	Credential	Provider	~	Add	
Connection Server: WIN101903 Connection: WIN101903\Wonderare WIN101903\Wonderare View connection properties Progress	 Mapped to asymmetric key Map to Credential Mapped Credentials 	Credential	Provider	~	Add	Ive
Connection Server: WIN101903 Connection: WIN101903\Wonderare WIN101903\Wonderare View connection properties Ready	 Mapped to asymmetric key Map to Credential Mapped Credentials 	Credential	Provider	~	Add	We

7. Chiudiamo SSMS e riavviamo la macchina.

A macchina riavviata sarete in grado di entrare nei vostri database con l'autenticazione Windows e SQL Server utilizzando SSMS.

Referenze

- o AVEVA TN 2959: Installing Microsoft SQL Server 2014 for Wonderware Products
- o AVEVA TN 10224: Installing Microsoft SQL Server 2016 for Wonderware Products
- o SQL Server 2014 Setup Download web page

Autore: Francesco Pastore

Disclaimer

Il presente documento è fornito a scopo di esempio e non sostituisce la documentazione AVEVA e Microsoft. L'applicazione di quanto contenuto, in un preciso ambito applicativo, deve essere sempre validata da un tecnico Wonderware. La documentazione rilasciata da AVEVA resta il riferimento tecnico ufficiale da seguire: <u>softwaresupport@aveva.com</u>. Wonderware Italia non si assume la responsabilità di un'applicazione scorretta di questo documento.