

Installing MSSQL Framework NET Genium



netgenium.com



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1 SQL Server configuration options

- Depending on how NET Genium accesses the database, we distinguish three different types of database server configuration:
- 1. Local access The database server is installed on the same computer as the application server.
- 2. Access via technology account from Active Directory The database server is installed on a different computer than the application server, and NET Genium accesses the database under a technology account from Active Directory.
- 3. Access via local SQL Server account The database server is installed on a different computer than the application server, and NET Genium accesses the database under the local SQL Server account.

2 Installing SQL Server 2016

2.1 Installation preparation

Mount the installation media in "iso" format, or open the "O:\Install_WIN\SQLServer2016Media" directory on the shared "\\office" server if the installation is located within the NetGenium internal computer network.

2.2 SQL Server 2016 installation via "Setup.exe"

- C Run the "SETUP.exe" program.
- In the "Installation" section, select the "New SQL Server stand-alone installation or add features to an existing installation" option.





髋 SQL Server 2016 Setup	_		\times
License Terms To install SQL Server 2016, you	a must accept the Microsoft Software License Terms.		
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Configuration Rules Installation Progress Complete	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2016 EXPRESS These license terms are an agreement between Microsoft Corporation (or based on v live, one of its affiliates) and you. Please read them. They apply to the software named which includes the media on which you received it, if any. The terms also apply to any Microsoft updates, updates, supplements, Internet-based services, and support services SQL Server 2016 transmits information about your installation experience, as well as other usa performance data, to Microsoft to help improve the product. To learn more about SQL Server processing and privacy controls, please see the <u>Privacy Statement</u> .	vhere y d above d above Copy ige and 2016 da	ou 2, Print
	< Back Next >	Cance	el

Check "Use Microsoft Update to check for updates (recommended)" and click "Next".

髋 SQL Server 2016 Setup		_		\times
Microsoft Update				
Use Microsoft Update to check	for important updates			
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Feature Configuration Rules Installation Progress Complete	Microsoft Update offers security and other important updates for Windows and oth software, including SQL Server 2016. Updates are delivered using Automatic Updat the Microsoft Update website. Use Microsoft Update to check for updates (recommended) <u>Microsoft Update FAQ</u> <u>Microsoft Update Privacy Statement</u>	ier Micr	osoft su can vis	it
	< Back Next >		Cancel	



If you require full-text indexing of the columns in the database, check the "Full-Text and Semantic Extractions for Search" option in the "Feature Selection" section and in the "Instance Features" category, and click the "Next" button.

髋 SQL Server 2016 Setup			- 🗆 X
Feature Selection Select the Express features to in:	stall.		
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Reporting Services Configuration Consent to install Microsoft R Feature Configuration Rules Installation Progress Complete	Features: Database Engine Services Sol. Server Replication R Services (In-Databas Full-Text and Semanti PolyBase Query Servic Reporting Services - Nativ Shared Features Client Tools Connectivity Client Tools Backwards C Client Tools SDK Documentation Compon SQL Client Connectivity S Client Tools BACK Select All Instance root directory: Shared feature directory:	e) c Extractions for See e for External Data re ompatibility ents DK C:\Program Files\Mice C:\Program Files\Mice	Feature description: The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on Prerequisites for selected features: Already installed: Windows PowerShell 3.0 or higher Mirrosoft .NFT Framework 4.6 Space Requirements Drive C: 3923 MB required, 180141 MB available wrosoft SQL Server\
	Shared feature directory (x86):	C:\Program Files (x86	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>



In the "Server Configuration" section, on the "Service Accounts" tab, check the "Grant Perform Volume Maintenance Task Privilege to SQL Server Database Engine Service" option and click the "Next" button.

📸 SQL Server 2016 Setup				—	>
Server Configuration Specify the service accounts and	collation configuration.				
License Terms Global Rules Microsoft Update	Service Accounts Collation Microsoft recommends that you use	a separate account for each	SQL Server servi	ce.	
Product Updates	Service	Account Name	Password	Startup Type	2
Install Setup Files	SQL Server Database Engine	NT Service\MSSQL\$SQL		Automatic	\sim
Install Rules	SQL Server Reporting Services	NT Service\ReportServer		Automatic	\sim
Feature Selection	SQL Server Launchpad	NT Service\MSSQLLaun		Automatic	
Feature Rules	SQL Full-text Filter Daemon Launc	NT Service\MSSQLFDLa		Manual	
Instance Configuration	SQL Server Browser	NT AUTHORITY\LOCAL		Disabled	~
Server Configuration Database Engine Configuration Reporting Services Configuration Consent to install Microsoft R Feature Configuration Rules Installation Progress Complete	Grant Perform Volume Maintenan This privilege enables instant file i to information disclosure by allow <u>Click here for details</u>	ce Task privilege to SQL Sen nitialization by avoiding zero ing deleted content to be ac	ver Database Eng bing of data pag cessed.	gine Service es. This may leac	3
		< Back	< Next	:> Can	cel

۰.,



In the "Database Engine Configuration" section on the "Server Configuration" tab, click the "Add Current User" button and then click the "Next" button.

髋 SQL Server 2016 Setup				_		\times
Database Engine Confi Specify Database Engine authe	guration	administrators, data directori	es and TempDB settings.			
License Terms Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Consent to install Microsoft R Feature Configuration Rules Installation Progress Complete	Server Configuration Specify the authenti Authentication Mod Windows authen Mixed Mode (SQ Specify the password Enter password: Confirm password: Specify SQL Server a AD\tomas.holy (Tot	Data Directories TempDB ication mode and administrated de tication mode tlication mode QL Server authentication and W rd for the SQL Server system a administrators máš Holý) Add Remove	User Instances FILEST ors for the Database Eng Vindows authentication) dministrator (sa) accoun	REAM ine. t. SQL Server at have unrestri to the Databa	dministrato icted access ase Engine.	r5
			< Back	Next >	Cancel	



👉 In the "Reporting Services Configuration" section, select the "Install and configure" option and click the "Next" button.

髋 SQL Server 2016 Setup	— —	×
Reporting Services Cor Specify the Reporting Services of	onfiguration mode.	
License Terms Global Rules Microsoft Update Product Updates	Reporting Services Native Mode Install and configure. Installs and configures the report server in native mode. The report server is operational after setup completes.	
Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Reporting Services Configura Consent to install Microsoft R Feature Configuration Rules Installation Progress Complete	 Install only. Installs the report server files. After installation, use Reporting Services Configuration Manager to configure the report server for native mode. Reporting Services SharePoint Integrated Mode Install only. Installs the report server files. After installation use SharePoint Central Administration to complete the configuration. Verify the SQL Server Reporting Services service is started and create at least one SQL Server Reporting Services service application. For more information, click Help. 	
	< Back Next > Cancel	



In the "Consent to install Microsoft R Open" section, click the "Accept" button and click "Next" to complete the installation.

髋 SQL Server 2016 Setup	- 🗆 X
Consent to install Micr	osoft R Open
Download and install necessary	pre-requisite.
License Terms	Microsoft R Open is an enhanced distribution of R made available by Microsoft under the GNU General
Global Rules Microsoft Update	Public License v2.
Product Updates	
Install Setup Files Install Rules	R is © the R Foundation for Statistical Computing. For more information on R-related products and services, visit http://r-project.org.
Feature Selection	
Feature Rules	By clicking "Accept" you are choosing to download Microsoft R Open and install it on your machine, and
Server Configuration	agreeing to accept patches and updates to this software according to your SQL Server update preferences.
Database Engine Configuration	
Reporting Services Configuration	
Feature Configuration Rules	
Installation Progress	
Complete	
	Accept
	< Back Next > Cancel

1 You must restart your computer after the installation is complete.



3 Install SQL Server Management Studio

3.1 Installation preparation

Mount the installation media in "iso" format, or if the installation is located within the NetGenium internal computer network, open the "O:\Install_WIN" directory on the "\\office" shared server.

3.2 Installing SQL Server Management Studio via "Setup.exe"

- Start the program "SQLManagementStudio 17.1 SSMS-Setup-ENU.exe".
- Click the "Install" button.

RELEASE 17.1 RELEASE 17.1 Microsoft SQL Server Management Studio
Welcome. Click "Install" to begin.
By clicking the "Install" button, I acknowledge that I accept the <u>License Terms</u> and <u>Privacy Statement</u> .
SQL Server Management Studio transmits information about your installation experience, as well as other usage and performance data, to Microsoft to help improve the product. To learn more about SQL Server Management Studio data processing and privacy controls, see the privacy statement link above.
Install Close





4 Creating the "ConnectionString.txt" file

- **0** *"*ConnectionString.txt" is a file in the "Config" directory that contains the database connection string definition.
- The procedure for creating the "ConnectionString.txt" file differs depending on the configuration type of the database server.
- From the variants below, select the type of database server configuration you want to use and create and set up the "ConnectionString.txt" file accordingly.
- 1. Local access The database server is installed on the same computer as the application server.
- 2. Access via technology account from Active Directory The database server is installed on a different computer than the application server, and NET Genium accesses the database under a technology account from Active Directory.
- 3. Access via local SQL Server account The database server is installed on a different computer than the application server, and NET Genium accesses the database under the local SQL Server account.

4.1 Connection string for local access to the database

- When installing NET Genium via the "Setup.exe" program (see the "NET Genium installation" manual), after checking the "Create database" option, the "ConnectionString.txt" file is created in the NET Genium directory in the "Config" folder. This file contains the definition of the connection string to the database.
- For example, the contents of the "ConnectionString.txt" file contain the following connection string to the database: "server=(local)\SQLEXPRESS;Trusted_Connection=true;database=netgenium".

4.2 Connection string for accessing the database using a technology account from Active Directory

- Create a "ConnectionString.txt" file in the "Config" directory of your NET Genium and paste the following information into this file:
- IP address or name of the database server
- Database name
- Save the data according to the following pattern: "server=123.456.789.123;Trusted Connection=true;database=netgenium".

4.3 Connection string for accessing the database using a local SQL Server account

- Create a "ConnectionString.txt" file in the "Config" directory of your NET Genium and paste the following information into this file:
- IP address or name of the database server
- Database name
- The name of the local SQL Server account
- Password in this account
- Save the data according to the following pattern:
 "server=123.456.789.123;database=netgenium;User Id=svcngadmin;Password=1234".



5 Network penetration settings

- ▲ Use this setting only if the database server is installed on a different computer than the application server and NET Genium accesses the database under the technology account from Active Directory or under the local SQL Server account.
- From the "Start" menu, locate and run "SQL Server 2016 Configuration Manager".





👉 Open the "SQL Server Network Configuration" node, select "Protocols for SQLEXPRESS". Right-click on "TCP/IP" and select "Properties".



On the "Protocol" tab, set "Enabled" to "Yes".

		Yes		-
Keep Alive	e	30000		
Listen All		Yes		



	Active	Yes	1
	Enabled	Yes	L
	IP Address	fe80::3d46:542c:2092:a329%10	1
	TCP Dynamic Ports	0	
	TCP Port		
-	IP10		
	Active	Yes	
	Enabled	No	
	IP Address	169.254.207.73	
	TCP Dynamic Ports	0	
	TCP Port		
-	IP11		
	Active	Yes	
	Enabled	No	
	IP Address	::1	
	TCP Dynamic Ports	0	
	TCD Port		`

On the same tab, click on the "IPALL" node and set the "TCP Port" to "1433".

TCP Port IP8 Active Yes Enabled No IP Address 192.168.249.38 TCP Dynamic Ports 0 TCP Port IP9 Active Yes Enabled No IP Address fe80::c490:6311:ee06:cf45	
IP8 Active Yes Enabled No IP Address 192.168.249.38 TCP Dynamic Ports 0 TCP Port 7 IP9 4ctive Active Yes Enabled No IP Address fe80::c490:6311:ee06:cf49	
Active Yes Enabled No IP Address 192.168.249.38 TCP Dynamic Ports 0 TCP Port 1 IP9 Active Yes Enabled No IP Address fe80::c490:6311:ee06:cf49	
Enabled No IP Address 192.168.249.38 TCP Dynamic Ports 0 TCP Port 1 IP9 Active Yes Enabled No IP Address fe80::c490:6311:ee06:cf49	
IP Address 192.168.249.38 TCP Dynamic Ports 0 TCP Port 1 IP9 Active Yes Enabled No IP Address fe80::c490:6311:ee06:cf49	
TCP Dynamic Ports 0 TCP Port 2 IP9 Xes Enabled No IP Address fe80::c490:6311:ee06:cf49	
TCP Port IP9 Active Yes Enabled No IP Address fe80::c490:6311:ee06:cf49	
IP9 Active Yes Enabled No IP Address fe80::c490:6311:ee06:cf49	
Active Yes Enabled No IP Address fe80::c490:6311:ee06:cf49	
Enabled No IP Address fe80::c490:6311:ee06:cf49	
IP Address fe80::c490:6311:ee06:cf49	
TCD D	9%11
ICP Dynamic Ports 0	
TCP Port	
TCP Dynamic Ports 0	
TCP Port 1433	
	•
TCP Port	
TCP port	



1 In the last step, you need to restart SQL Server for the changes to take effect.

🚟 Sql Server Configuration Manager				— C) X
Soubor Akce Zobrazit Nápověda					
🗢 🔿 🚈 🔄 🗟 🚺 🕑 🔍 💌 😍					
SQL Server Configuration Manager (Local)	Name		State	Start Mode	Log On A
 SQL Server Network Configuration (32bit) SQL Server Network Configuration (32bit) SQL Native Client 11.0 Configuration SQL Server Network Configuration SQL Native Client 11.0 Configuration 	 SQL Server (SQLEXPRESS) SQL Full-text Filter Daemon Laun SQL Server Launchpad (SQLEXPR SQL Server Reporting Services (SC SQL Server Agent (SQLEXPRESS) SQL Server Browser 	Start Stop Pause Resume Restart Vlastnosti Nápověda	Evening ining ining oped oped	Automatic Manual Automatic Automatic Other (Boot, Syste Other (Boot, Syste	NT Servic NT Servic NT Servic NT Servic NT AUTH
Restart (stop and then start) selected service.	<				>





6 Firewall settings

- ▲ Use this setting only if the database server is installed on a different computer than the application server and NET Genium accesses the database under a technology account from Active Directory, or under local SQL Server account.
- From the "Start" menu, locate and launch "Windows Firewall with Advanced Security".

Programs (1)
Windows Firewall with Advanced Security
Settings (4)
🝻 Windows Firewall with Advanced Security
🝻 Allow an app through Windows Firewall
📸 Windows Firewall
🎓 Check security status
See more results
Search the Internet
Windows Firewall
🖬 🔎 🗔 🤌 🖉



Click on "Inbound Rules" and select "New Rule..." in the "Actions" section.

🔗 Windows Firewall with Advance	ed Security						-	×
File Action View Help								
🗢 🄿 🙍 📰 🗟 🖬								
Windows Firewall with Advance	Inbound Rules				A	tions		
23 Outbound Rules	Name	Group	Profile	Enable ^	In	bound Rules		-
Connection Security Rules	Firefox (C:\Program Files\Mozilla Firefox)		Private	No	i.	New Rule		
> 🔜 Monitoring	Firefox (C:\Program Files\Mozilla Firefox)		Private	No		Filter by Profile		
	AllJoyn Router (TCP-In)	AllJoyn Router	Domai	No		File L Gui		
	AllJoyn Router (UDP-In)	AllJoyn Router	Domai	No	יי	Filter by State		•
	BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr	All	No	7	Filter by Group		•
	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach	All	No		View		•
	BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All	No		Pofrach		
	Cast to Device functionality (qWave-TCP	Cast to Device functionality	Private	No		Kerresh		
	Cast to Device functionality (qWave-UDP	Cast to Device functionality	Private	No		Export List		
	Cast to Device SSDP Discovery (UDP-In)	Cast to Device functionality	Public	No	?	Help		
	Cast to Device streaming server (HTTP-St	. Cast to Device functionality	Public	No	11			
	Cast to Device streaming server (HTTP-St	. Cast to Device functionality	Domain	No				
	Cast to Device streaming server (HTTP-St	. Cast to Device functionality	Private	No				
	Cast to Device streaming server (RTCP-St	Cast to Device functionality	Public	No				
	Cast to Device streaming server (RTCP-St	Cast to Device functionality	Private	No				
	Cast to Device streaming server (RTCP-St	Cast to Device functionality	Domain	No				
	Cast to Device streaming server (RTSP-Str	. Cast to Device functionality	Domain	No				
	Cast to Device streaming server (RTSP-Str	. Cast to Device functionality	Public	No				
	Cast to Device streaming server (RTSP-Str	. Cast to Device functionality	Private	No				
	Cast to Device UPnP Events (TCP-In)	Cast to Device functionality	Public	No				
	COM+ Network Access (DCOM-In)	COM+ Network Access	All	No				
	COM+ Remote Administration (DCOM-In)	COM+ Remote Administrati	All	No				
	Core Networking - Destination Unreacha	Core Networking	All	No	1			
	Core Networking - Destination Unreacha	Core Networking	All	No 🗸				
< >>	<			>				

🔗 New Inbound Rule Wizard		\times
Rule Type		
Select the type of firewall rule to cr	eate.	
Steps:		
 Rule Type Protocol and Ports 	What type of rule would you like to create?	
ActionProfileName	Program Rule that controls connections for a program. Image: Port	
	Rule that controls connections for a TCP or UDP port.	
	Rule that controls connections for a Windows experience.	
	Custom rule.	
	< Back Next > Cancel	



🔗 New Inbound Rule Wiza	ard	>
Protocol and Ports		
Specify the protocols and ports	to which this rule applies.	
Steps:		
Rule Type	Does this rule apply to TCP or UDP?	
Protocol and Ports	● TCP	
Action	⊖ UDP	
Profile		
 Name 	Does this rule apply to all local ports or specific local ports?	
	○ All local ports	
	Specific local ports: 1433	
	Example: 80, 443, 5000-5010	
	< Back Next > Cancel	

k the "Next" button.

New Inbound Rule Wiz	ard
Action Specify the action to be taken	when a connection matches the conditions specified in the rule.
Steps: Rule Type	What action should be taken when a connection matches the specified conditions?
Protocol and Ports Action	Allow the connection This includes connections that are protected with IPsec as well as those are not.
Name	 Allow the connection if it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customize Block the connection
	< Back Next > Cancel



1	P New Inbound Rule Wizard		×
F	Profile		
S	pecify the profiles for which this rule	applies.	
S	teps:		
۲	Rule Type	When does this rule apply?	
۲	Protocol and Ports	_	
	Action		
۵	Profile	Applies when a computer is connected to its corporate domain.	
۲	Name	V Private	
		Applies when a computer is connected to a private network location, such as a home or work place.	
		🔽 Public	
		Applies when a computer is connected to a public network location.	
		Dut Note Could	
		< Back Next > Cancel	

	New Inbound Rule Wizar	d					×
Ν	ame						
Sp	ecify the name and description	of this rule.					
St	eps:						
۲	Rule Type						
۲	Protocol and Ports						
۲	Action						
۲	Profile		Name:				
۲	Name		SQL Serven				
			Description (optional)):			
					< Back	Finish	Cancel



7 Setting permissions for access to the database

- The procedure for setting permissions differs depending on the type of database server configuration.
- From the variants below, select the type of database server configuration you want to use and set the permissions using Management Studio accordingly.
- 1. Local access The database server is installed on the same computer as the application server.
- 2. Access via technology account from Active Directory The database server is installed on a different computer than the application server, and NET Genium accesses the database under a technology account from Active Directory.
- 3. Access via local SQL Server account The database server is installed on a different computer than the application server, and NET Genium accesses the database under the local SQL Server account.

7.1 Setting permissions for local access

- There are 2 ways to set permissions for local access:
- Automatic authorization settings via the "Setup.exe" NET Genium program.
- Manually set permissions via "Microsoft SQL Server Management Studio".

7.1.1 Automatic permission setting via the "Setup.exe" NET Genium program

When installing NET Genium via "Setup.exe" and checking the "Authorize Network Service account to access the MSSQL database" option, the program automatically sets the permissions to access the database (see the "NET Genium Installation" manual).

🍥 NET Genium Setup (6	50-36-DD-88-2B-7E)					\times
Vítá vás konfigurace aplik	ace NET Genium					
Webový server	Default Web Site					\sim
Virtuální adresář	netgenium					
Adresář NET Genium	C:\inetpub\wwwroot\ne	tgenium SQL				
Database Server	Firebird \lor C:	\Firebird\				\sim
Databáze			🗹 Automa	ticky		
Charset / Collation	Central Europe	\sim	Czech			\sim
Jazyk	Čeština 🗸 🗸					
Možnosti	Vytvořit virtuální adm	esář				
	Autorizovat účet Net	work Service pro z	ápis do adre:	sáře NE	ET Geniu	m
	Vytvořit databázi					
	🗹 Autorizovat účet Net	work Service pro p	řístup do dat	tabáze	MS SQL	
					Nastavit	



7.1.2 Manually set permissions through "Microsoft SQL Server Management Studio"

- The settings for accessing the database to the predefined "NetworkService" account, which is selected in the application pool identity, are described below.
- From the "Start" menu, locate and run "Microsoft SQL Server Management Studio".



Open the "Security" node, right-click on "Logins" and select "New Login...".





🖡 Login - New				_		\times
Select a page	🖵 Script 🔻 🕜 Help					
 Securables Status 	Login name: Windows authentication SQL Server authentication				Search	1
	Password:					
	Confirm password:					
	Old password:					
	Enforce password policy					
	Enforce password expira	tion				
	User must change passv Mapped to certificate	vord at next login		~		
Connection	Mapped to asymmetric key			~		
Server: TOMAS-PC\SQLEXPRESS	Map to Credential			~	Add	
Connection: AD\tomas.holy	Mapped Credentials	Credential	Provider			
View connection properties						
Progress						/e
Ready	Default database:	master		\sim		
.4 ⁴³ 4.	Default language:	<default></default>		~		
				OK	Can	-

On the "General" tab, check "Windows authentication" and click on the "Search..." button.

Vybrat objekt typu: Uživatel nebo Skupina		×
Vyberte typ objektu:		
Uživatel nebo Předdefinovaný objekt zabezpečení		Typy objektů
Umístění:		
TOMAS-PC		Umístění
Zadejte název objektu k výběru (<u>příklady</u>):		
		Kontrola názvů
Upřesnit	OK	Zrušit



Click on the "Find" button, search for the "NETWORK SERVICE" account and confirm your choice with the "OK" button.

Vybrat objekt typu: Uživatel nebo Skupina	×
Vyberte typ objektu: Uživatel nebo Předdefinovaný objekt zabezpečení Typy objektů	
Umístění:	
TOMAS-PC Umístění	
Běžné dotazy	
Název: Začíná Sloupce Popis: Začíná Najit Zakázané účty Zastavit Stále platné heslo Počet dnů od posledního přihlášení: ✓	
Výsledky hledání: OK Zrušit	
Název Ve složce UCAL SERVICE UCAL SERVICE Mistní účet Mistní účet a člen skupiny Administrators MISTWORK NETWORK NETWORK PRIHLÁŠENÍ KE KONZOLE REMOTE INTERACTIVE LOGON SERVICE	~

Login - New		-		×
Select a page	🖵 Script 🔻 😮 Help			
General Server Roles User Mapping Securables Status	Server role is used to grant server-wide security privileges to a user. Server roles: Dulkadmin docreator diskadmin processadmin public securityadmin setupadmin yetupadmin			
Connection				
Server: TOMAS-PC\SQLEXPRESS Connection: AD\tomas.holy Y View connection properties				
Progress				
Ready				
	0	К	Cano	el .





👉 On the "Security" tab, make sure that the default option "Windows Authentication mode" is checked.

Server Properties - TOMAS-	PC\SQLEXPRESS	-		\times
Select a page	🖵 Script 👻 😮 Help			
Memory Memory Processors Socurity Connections Database Settings Advanced Permissions	Server authentication Windows Authentication mode SQL Server and Windows Authentication mode Login auditing None Failed logins only Successful logins only Both failed and successful logins Server proxy account			
Connection	Enable server proxy account			
Server: TOMAS-PC\SQLEXPRESS	Proxy account: Password:			
Connection: AD\tomas.holy	Options			
₩ <u>View connection properties</u>	Enable C2 audit tracing Cross database ownership chaining			
Progress				
Ready				
		OK	Cano	el





7.2 Setting permissions for access through the technology account from Active Directory

- The following describes how to set permissions for accessing the database to a technology account that is selected in the application pool identity for example, "AD\svcngadmin".
- From the "Start" menu, locate and run "Microsoft SQL Server Management Studio".



Open the "Security" node, right-click on "Logins" and select "New Login...".





On the "General" tab, check "Windows authentication" and enter the name of the technology account from Active Directory, including the domain name, for example "AD\svcngadmin" in the "Login name:" field.

Login - New			_	
Select a page	🖵 Script 🔻 😯 Help			
Server Roles Server Roles Securables Status	Login name: Windows authentication SQL Server authentication Password: Confirm password: Specify old password Qld password: Enforce password policy Enforce password policy User must change password	AD\svcngadmin		Sgarch
Connection	Mapped to certificate Mapped to asymptotic key			
Server: TOMAS-PC\SQLEXPRESS Connection: AD\tomas holy View connection properties	Mapped Credential	Credential Pr	rovider	Add
Progress Ready	Default database:	master	~	Remo <u>v</u> e
R ^{d^Bb} A	Default language:	<default></default>	~	
			ОК	Cancel

Login - New		-		\times
Select a page	🔽 Script 👻 🙆 Help			
General Gerver Roles User Mapping Securables Status	Server role is used to grant server-wide security privileges to a user. Server roles: bulkadmin bcreator diskadmin public securityadmin serveradmin v public securityadmin serveradmin v public v possimin v pos			
Connection				
Server: TOMAS-PC\SQLEXPRESS Connection: AD\tomae bok				
volitios noiv view connection properties				
Progress				
Ready				
		ОК	Cano	cel



C Right-click on the main node of your SQL Server and select the "Properties" option.



👉 On the "Security" tab, make sure that the default option "Windows Authentication mode" is checked.

Server Properties - TOMAS-	PC\SQLEXPRESS	– 🗆 ×
Select a page General Memory Processors Security Connections Database Settings Advanced Permissions	Script Q Help Server authentication Windows Authentication mode SQL Server and Windows Authentication mode Login auditing None Failed logins only Successful logins only Both failed and successful logins Successful logins	
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Server: TOMAS-PC\SQLEXPRESS	Proxy account: Password:	
Connection: AD\tomas.holy	Options	
v ₩ <u>View connection properties</u>	Enable C2 audit tracing Cross database ownership chaining	
Progress		
Ready		
		OK Cancel



7.3 Setting permissions for access through the local SQL Server account

- The following describes how to set permissions to access the database on a local SQL Server account that is different from the technology account set in the application pool identity.
- From the "Start" menu, locate and run "Microsoft SQL Server Management Studio".



Open the "Security" node, right-click on "Logins" and select "New Login...".





- - Login name: for example "svcngadmin"
 - Check "SQL Server authentication"
 - Password: choose a very strong password (this password will be specified in the "ConnectionString.txt" file)
 - Check "Enforce password policy"
 - o Uncheck "Enforce password expiration"







C Right-click on the main node of your SQL Server and select the "Properties" option.



On the "Security" tab, check the "SQL Server and Windows Authentication mode" option and confirm with the "OK" button.

Server Properties - TOMAS-	PC\SQLEXPRESS		_		×
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