

Installing NET Genium on the web server Framework NET Genium



netgenium.com



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1 NET Genium installation procedure

- Server settings
- IIS installation and setup
- Download and unzip NET Genium to the destination directory
- Installation of Firebird database server (or MS SQL Server)
- Installing NET Genium
- File indexing settings for Windows Search
- SMTP Server installation
- Firewall settings



2 Server settings

- NET Genium text configuration files or print templates in the "txt" or "html" format require the appropriate region settings according to the customs of the Czech Republic in order to load accents correctly.
- From the "Start" menu click "Settings".

8	Administrator	~			
ß	Documents				
	Pictures				
٢	Settings				
Ф	Power				
			Π	0	

Select "Time & Language".

Settings							_	\times
			Windows	Settin	gs			
			Find a setting		م			
旦	System Display, sound, notifications, power		Devices Bluetooth, printers, mouse		Network & Internet Wi-Fi, airplane mode, VPN	¥	Personalization Background, lock screen, colors	
Ē	Apps Uninstall, defaults, optional features	8	Accounts Your accounts, email, sync, work, other people	。 A字	Time & Language Speech, region, date	Ģ	Ease of Access Narrator, magnifier, high contrast	
Q	Search Find my files, permissions	₿	Privacy Location, camera, microphone	\mathbb{C}	Update & Security Windows Update, recovery, backup			



Select "Region" and click on "Additional date, time, & regional settings".

← Settings		
û Home	Region	
Find a setting	Country or region United States	× Additional date, time settings
葴 Date & time	Windows and apps might use your country or region to give you lo content.	ocal
🧐 Region	Regional format Current format: English (United States)	
<i>k</i> ≢ Language	Recommended [English (United States)]	\checkmark
Speech	Windows formats dates and times based on your language and repreferences.	gional
	Regional format data	
	Select Change data formats to switch among calendars, date, and formats supported by the region.	lime
	Calendar: Gregorian Calendar	
	First day of week: Sunday	
	Short date: 2/21/2025	
	Long date: Friday, February 21, 2025	
	Short time: 11:05 AM	
	Long time: 11:05:20 AM	
	Change data formats	

Select "Change date, time, or number formats".







- Region × Formats Administrative Format Czech (Czechia) \sim Language preferences Date and time formats dd.MM.yyyy Short date: \sim dddd d. MMMM yyyy \sim Long date: Short time: H:mm \sim Long time: H:mm:ss \sim pondělí ~ First day of week: Examples 21.02.2025 Short date: Long date: pátek 21. února 2025 11:08 Short time: 11:08:31 Long time: Additional settings... Cancel <u>A</u>pply ОК
- On the "Formats" tab, select "Czech (Czechia)".

On the "Administrative" tab, select "Change system locale..." and select "Czech (Czechia)".





3 Installing IIS

- **1** All actions must be performed under administrator rights.
- Install the necessary services and tools that NET Genium uses (IIS Internet Information Services) and Windows Search if you will be doing full-text searches in NET Genium.

3.1 Installing IIS on Windows Server 2022

From the "Start" menu, search for "Server manager".

e () ¢
Best match
Server Manager App
Apps
🖖 Windows Server Backup
Settings
🗟 Synchronize the date and time from a time server
Change manual proxy server settings
🔎 server Manager 📕 💽



Over the select "Add roles and features".

🖆 Server Manager	-	ЦΧ
Server M	lanager 🕻 Dashboard 🛛 🗸 🕄 🖡 Manage Tools	View Help
Dashboard	WELCOME TO SERVER MANAGER	
Local Server All Servers File and Storage Services	1 Configure this local server	
	QUICK START 2 Add roles and features	
	3 Add other servers to manage WHAT'S NEW 4 Create a server group	
	5 Connect this server to cloud services	Hide

In the "Installation Type" window, select the "Role-based or feature-based installation" option and click the "Next" button.





In "Server Selection", select the server on which you want to install IIS – "Select a server from the server pool" and click the "Next" button.

	Select a conver or	wittual bard dick on which	to install roles and features			
Before You Begin	Select a server or a	a virtual hard disk on which	to install roles and leatures.			
Installation Type	Select a server	from the server pool				
Server Selection	 Select a virtual 	hard disk				
Server Roles	Server Pool					
Features	Filter					-1
Confirmation	Filter:					
Results	Name	IP Address	Operating System			
	vm8193	85.118.133.60	Microsoft Windows Server 20	22 Standard		
	1.0					
	T Computer(s) fou	na	dawa 6aayaa 2012 ah a aawaa ad			
	This page shows s	ervers that are running Wind n added by using the Add S	dows Server 2012 or a newer rel ervers command in Server Mana	ease of Windo ager. Offline se	ws Server ervers and	





- Select the following server roles from the "Server Roles" menu. If the system asks you to install additional services or features to a specific part of IIS, install them.
- Web Server (IIS))

📥 Add Roles and Features Wizard		- 🗆 X
Add Roles and Features Wizard Select server roles Before You Begin Installation Type Server Selection Server Roles Features Web Server Role (IIS) Role Services Confirmation	Select one or more roles to install on the selected server. Roles Active Directory Certificate Services Active Directory Federation Services Active Directory Lightweight Directory Services Certificate Services Device Health Attestation DHCP Server DNS Server	
Confirmation Results	□ DNS Server Fax Server ▶ File and Storage Services (1 of 12 installed) □ Host Guardian Service □ Hyper-V □ Network Policy and Access Services □ Print and Document Services □ Remote Access □ Remote Desktop Services □ Volume Activation Services □ Web Server (IIS) □ Windows Server Update Services □ Windows Server Update Services	> Install Cancel

Click the "Next" button.



- Select features from the "Features" menu:
- .NET Framework 3.5 Features
 - .NET Framework 3.5
- .NET Framework 4.8 Features
 - o .NET Framework
 - o ASP.NET 4.8
- Windows Search Service



Click the "Next" button.



 \Box \times

vm8193

DESTINATION SERVER

- From the Web Server Roles (IIS) Role Services menu, select:
- Web Server
 - o Common HTTP Features
 - Default Document
 - HTTP Errors
 - Static Content
 - HTTP Redirection
 - Security
 - Windows Authentication
 - o Management Tools
 - IIS 6 Management Console
 - IIS 6 Management Compatibility

```
📥 Add Roles and Features Wizard
```

Select role services

Select the role services to install for Web Server (IIS) Before You Begin Installation Type Role services Description Server Selection IIS 6 Management Compatibility provides forward compatibility for ▲ ✓ Web Server ✓ Web Server
 ✓ Common HTTP Features
 ✓ Default Document
 ✓ Directory Browsing
 ✓ HTTP Errors
 ✓ Static Content
 ✓ HTTP Redirection Server Roles your applications and scripts that use the two IIS APIs, Admin Base Features Object (ABO) and Active Directory Service Interface (ADSI). You can use Web Server Role (IIS) Role Service existing IIS 6 scripts to manage the IIS 10 Web server. WebDAV Publishing ▲ ✓ Health and Diagnostics Confirmation HTTP Logging Custom Logging Logging Tools ODBC Logging Request Monitor A V Performance
 Static Content Compression
 Dynamic Content Compression
 Security
 Security Request Filtering
 Basic Authentication
 Centralized SSL Certii Centralized SSL Certificate Support Client Certificate Mapping Authentication Digest Authentication IIS Client Certificate Mapping Authentication IP and Domain Restrictions URL Authorization Windows Authentication
 Application Development
 FTP Server FTP Service
FTP Extensibility Management Tools IIS Management Console IIS Management Compatibility IIS Management Scri Management Service IIS Management Scripts and Tools < Previous Next > Install Cancel

Click the "Next" button.



In the "Confirmation" menu, click "Install".

onfirm installat	ion selections	DESTINA	TION SER vm8	VE 19
Do you need to specify a	in alternate source path? One or more installation selections are missing source files on t	he destir	nati	,
Before You Begin	To install the following roles, role services, or features on selected server, click Insta	dl.		
nstallation Type	Restart the destination server automatically if required			
Server Selection	Optional features (such as administration tools) might be displayed on this page be	ecause th	ney have	
Server Roles	been selected automatically. If you do not want to install these optional features, cl their check boxes.	ick Previ	ous to c	le
eatures				
Veb Server Role (IIS)	.NET Framework 3.5 Features			
Role Services	.NET Framework 3.5 (includes .NET 2.0 and 3.0)			
Confirmation	.NET Framework 4.8 Features			
Results	ASP.NET 4.8			
	Web Server (IIS)			
	IIS 6 Management Compatibility			
	IIS 6 Metabase Compatibility			
	IIS Management Console			
	Web Server			
	Common HTTP Features			
	Defende De annuel			
	Export configuration settings Specify an alternate source path			





4 IIS settings

4.1 Pin IIS to the taskbar

Find "Internet Information Services (IIS) Manager" in the "Start" menu.

Ē	ß	@	
Best m	natch		
۹	Interne App	et Information Services (IIS) Manager	
P II	s 🗡		۲i

In the bottom bar, right-click on IIS and select "Pin to taskbar".





4.2 Turn off logging

- **0** To prevent unexpected server disk fill-up, it is advisable to disable IIS traffic logging within your server node.
- Go to IIS settings and select the top node of your server (for example, "VM8193") so that the settings are propagated to other child nodes, and in the "IIS" section, select "Logging".



Then, in the "Actions" panel on the right side of the window, click "Disable". This will turn off logging of your server traffic.

ile View Help			
onnections	Logging Use this feature to configure how IIS logs requests on the Web server. One log file per: Site Log File Format: W3C Select Fields Directory: %SystemDrive%\inetpub\logs\LogFiles Encoding: UTF-8 Log Event Destination Select the destination where IIS will write log events. Log file only ETW event only Both log file and ETW event Content View Content View 	∧ 	Actions Apply Cancel Disable View Log Files Help



4.3 Turn off recycling

• To prevent unexpected restarts of NET Genium, it is necessary to disable the so-called "recycling" of application pools (terminating the w3wp.exe process) on the web server. This will prevent the regular restart of application pools that IIS has set up by default.

4.3.1 Disabling recycling via application pool preferences

- Go to "Application Pools" and in the "Actions" section click "Set Application Pool Defaults...", or right-click on the IIS desktop and select "Set Application Pool Defaults...".
- This way, you change the default settings for all application pools so that you don't have to configure each application pool separately.







In the "Application Pool Defaults" section, go to the "Recycling" section and set the "Regular Time Interval" to "0." Click the "OK" button.

Appl	ication Pool Defaults		?	×
	P			+
Ť	Frocess Orphaning	Falsa		
	Enabled	raise		
	Executable			
	Executable Parameters			
~	Rapid-Fail Protection			
	"Service Unavailable" Response	HttpLevel		
	Enabled	True		
	Failure Interval (minutes)	5		
	Maximum Failures	5		
	Shutdown Executable			
	Shutdown Executable Parameter			
~	Recycling			
'	Disable Overlapped Recycle	False		
	Disable Recycling for Configurat	False		
>	Generate Recycle Event Log Entr			
	Private Memory Limit (KB)	0		
	Regular Time Interval (minutes)	0		
	Request Limit	0		
>	Specific Times	TimeSpan[] Array		
	Virtual Memory Limit (KB)	0		~
Re	cvclina			_
	-,			
		ОК	Cancel	



4.3.2 Disabling recycling for individual application pools

- ▲ If recycling was disabled through the application pool preferences listed in the previous chapter, you only need to check that it is disabled.
- ✤ Go to "Application Pools" and right-click on "DefaultAppPool" and select "Recycling...".

Image: Image Image: Image Image: Image Image: I	Applicat	ion Po	ols					
Siter	associated with worke different applications.	Application Pools This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.					Add Application Pool Set Application Pool Task Start	Add Application Pool Set Application Pool Default: Application Pool Tasks Start
Jules	Filter	- 7	🌾 <u>G</u> o 🕞 🙀 Sho	w <u>A</u> ll Group by:	No Grouping	•		Stop
	Name	Status	.NET CLR V	Managed Pipel	Identity	Applications	Z	Recycle
	DefaultAppPool Statt Statt Statt Statt S	Adding Set	Application Po Application Poo rt p cycle iic Settings ycling vanced Settings name move w Applications Ip	I Defaults			•	Basic Settings Recycling Advanced Settings Rename Remove View Applications Help

In the newly opened window, make sure to deselect the "Regular time intervals" item, click the "Next" button, and then the "Finish" button.

? ×

Edit Application	Pool	Recycling	Settings
------------------	------	-----------	----------

Recycling Conditions	
Fixed Intervals Regular time intervals (in minutes): Specific time(s): Example: 20:00;0:00	Fixed number of requests:
Memory Based Maximums	Private memory usage (in KB):
	Previous Next Finish Cancel



4.4 Idle timeout setting

Idle time is the interval at which the application pool automatically shuts down when web applications are idle (no requests from site visitors).

4.4.1 Set an idle timeout through application pool preferences

- Go to "Application Pools" and click on "Set Application Pool Defaults" in the "Actions" section, or right-click on the IIS desktop and select "Set Application Pool Defaults".
- This way you change the default settings for all application pools so that you do not have to set each application pool separately.





✤ In the "Process Model" section, set the "Idle Time-out" to 1440 minutes (one day) and click the "OK" button.





4.4.2 Setting the idle timeout for individual application pools

- ▲ If the idle timeout has been set through the application pool preferences, which are listed in the previous chapter, you only need to check its settings.
- 👉 Go to "Application Pools" and right-click "DefaultAppPool" and select "Advanced Settings".



In the "Process Model" section, set the "Idle Time-out" to 1440 minutes (one day).

	anced Settings	?	
	Start Mode	OnDemand	
~	CPU	onbenand	
	Limit (percent)	0	
	Limit Action	NoAction	
	Limit Interval (minutes)	5	
	Processor Affinity Enabled	False	
	Processor Affinity Mask	4294967295	
	Processor Affinity Mask (64-bit c	4294967295	
v	Process Model		1
>	Generate Process Model Event L		
	Identity	ApplicationPoolIdentity	
	Idle Time-out (minutes)	1440	1
	Idle Time-out Action	Terminate	
	Load User Profile	False	
	Loud ober Home		
	Maximum Worker Processes	1	
	Maximum Worker Processes Ping Enabled	1 True	
	Maximum Worker Processes Ping Enabled Ping Maximum Response Time (1 True 90	
	Maximum Worker Processes Ping Enabled Ping Maximum Response Time I Ping Period (seconds)	1 True 90 30	



4.5 Identity settings

4.5.1 Identity settings via application pool preferences

4.5.1.1 Predefined "NetworkService" account

- The standard settings of "DefaultAppPool" are described below, when the database server is installed on the same computer as the application itself, resp. IIS.
- Go to "Application Pools" and set "Application Pool Defaults" in the "Actions" section, or right-click on the IIS desktop and select "Set Application Pool Defaults".
- This way you change the default settings for all application pools so that you do not have to set each application pool separately.





✤ Select "Identity" and click on the three dots on the right in the dialog.

P	Ication Poor Delauits			
	Processor Affinity Mask	4294967295		-
	Processor Affinity Mask (64-bit o	4294967295		
ł	Process Model			Т
	Generate Process Model Event L			
	Identity	ApplicationPoolIdentity		
1	Idle Time-out (minutes)	1440		
	Idle Time-out Action	Terminate		
	Load User Profile	False		
	Maximum Worker Processes	1		
	Ping Enabled	True		
	Ping Maximum Response Time	90		
	Ping Period (seconds)	30		
	Shutdown Time Limit (seconds)	90		
	Startup Time Limit (seconds)	90		
,	Process Orphaning			
	Enabled	False		
	Executable			
	Executable Parameters			
,	Rapid-Fail Protection			
	"Service Unavailable" Response	HttpLevel		
d d	entity entityType, username, password] built-in account, i.e. Application l	Configures the application p Pool Identity (recommended	ool to), Netv	run vor
IS	built-in account, i.e. Application i), Netw	vor. El

Select and set "NetworkService" from the list.

Identita fondu aplikací		? >	×
<u>P</u> ředdefinovaný účet:			
NetworkService		~	
LocalService			
NetworkService ApplicationPoolIdentity		Nastav <u>i</u> t	
	ОК	Storno	



4.5.1.2 Own technology account

- ▲ We typically set up our own technology account when the database server is installed on a different computer than the application itself, or IIS. Otherwise, we leave the identity set to "NetworkService".
- Go to "Application Pools" and "Set Application Pool Defaults" in the "Actions" section, or right-click on the IIS desktop and select "Set Application Pool Defaults".
- This way you change the default settings for all application pools so that you do not have to set each application pool separately.







✤ Select "Identity" and click on the three dots on the right in the dialog.



Check "Custom account" and click on the "Set..." button.

Application Pool Identity			?	×
O Built-in account:				
ApplicationPoolIdentity		\sim		
Oustom account:				
			Set	
	OK		Cancel	

Set the "User name" to, for example, "AD\svcngadmin", select the "Password" and click the "OK" button.

Set Credentials		?	×
User name:			_
Password:			_
••••			
Confirm password:			
•••••			
0	K	Cance	el



4.5.2 Identity settings for individual application pools

▲ If the identity has been set through the application pool preferences, which are listed in the previous chapters, you only need to check its settings.

4.5.2.1 Predefined "NetworkService" account

- The standard settings of "DefaultAppPool" are described below, when the database server is installed on the same computer as the application itself, resp. IIS.
- To set the identity, right-click on "DefaultAppPool" and select "Advanced Settings...".





✤ Select "Identity" and click on the three dots on the right in the dialog.

\dva	inced Settings		?	Х
	Processor Affinity Enabled	False		
	Processor Affinity Mask	4294967295		
	Processor Affinity Mask (64-bit o	4294967295		
~	Process Model			
>	Generate Process Model Event L			
	Identity	ApplicationPoolIdentity		
	Idle Time-out (minutes)	1440		
	Idle Time-out Action	Terminate		
	Load User Profile	False		
	Maximum Worker Processes	1		
	Ping Enabled	True		
	Ping Maximum Response Time	90		
	Ping Period (seconds)	30		
	Shutdown Time Limit (seconds)	90		
	Startup Time Limit (seconds)	90		
~	Process Orphaning			
	Enabled	False		
	Executable			
	Executable Parameters			\checkmark
lde [id as Ser	e ntity entityType, username, password] built-in account, i.e. Application I vice, Local System, Local Service,	Configures the application p Pool Identity (recommender or as a specific user identity	oool to ru d), Netwo ⁄.	ın ork
		ОК	Cancel	

♂ Select and set "NetworkService" from the list.

Application Pool Identity	?	\times
Built-in account:		
ApplicationPoolIdentity \checkmark		
LocalService O LocalSystem		
NetworkService ApplicationPoolIdentity	Set	
- 		
ОК	Cancel	



4.5.2.2 Own technology account

- We typically set our own technological account in the case when the database server is installed on a different computer than the application itself, resp. IIS. Otherwise, we leave the identity setting to "NetworkService".
- To set the identity, right-click on "DefaultAppPool" and select "Advanced Settings...".

Internet Information Services (IIS)	Manager						
File View Help	pication roots						
He View Help Connections Image: Connections	Application Pools This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications. Filter: • • •				Ac	tions Add Application Pool Set Application Pool Defaults Application Pool Tasks Start Stop Recycle Edit Application Pool	
		Add Application Pool Set Application Pool Defaults Start Stop Recycle Basic Settings Recycling		iol I Defaults			Basic Settings Recycling Advanced Settings Rename Remove View Applications Help
	<	Adv Ren Viev Ø Hel	ranced Settings, ame nove v Applications p		>		
< >> Ready	Features View C	Content Vie	w				¶.:

Select "Identity" and click on the three dots on the right in the dialog.





Application Pool Identity		?	\times
O Built-in account:			
ApplicationPoolIdentity	\sim		
Oustom account:			
		Set	

Set the "User name" to, for example, "AD\svcngadmin", select the "Password" and click the "OK" button.

Set Credentials	? X
User name: AD\svcngadmin	
Password:	
••••	
Confirm password:	
•••••	
ОК	Cancel



4.6 Default site directory

- The default site directory, or root, is the directory on the disk where the tree structure of subdirectories and files within a site is stored. By default, a clean installation of IIS creates a single site named "Default Web Site" that has "C:\inetpub\wwwroot" set as the default site directory. The default site directory settings can be changed, so it is up to the administrator to decide which directory to choose as the default site directory. Any number of sites can be created in IIS, with each site having its own default site directory.
- **1** If you want to change the default site directory, follow the instructions below.
- Open the "Internet Information Services" application and right-click on the "Default Web Site" and select "Manage Website" -> "Advanced Settings...".





↔ Change the set physical path to the path you selected and click the "OK" button.

Adva	anced Settings	? ×
v	(General)	
ľ	Application Pool	DefaultAppPool
	Bindings	http:*:80:
	ID	1
	Name	Default Web Site
	Physical Path	%SystemDrive%\inetpub\wwwroo
L '	Physical Path Credentials	
	Physical Path Credentials Logon	ClearText
	Preload Enabled	False
~	Behavior	
	Enabled Protocols	http
>	HSTS	
>	Limits	
Ph	ysical Path	
[pł	nysicalPath] Physical path to the c	ontent for the virtual directory.
		OK Cancel



4.7 Set default directory permissions

- This step is important so that your NET Genium can write files to disk (for example, file attachments, cascading styles, log files, etc.).
- Before setting the authorization itself, it is important to realize under which account the application pool is configured, see the chapter "<u>Identity settings</u>", and therefore for which account we will set the authorization. Whether it is a predefined "NetworkService" account or your own technology account. The procedure below describes how to set permissions for the "NetworkService" account. This procedure also changes the default permissions for all other subdirectories.
- Go to the location of your default web directory, for example "C:\inetpub", right-click on the "wwwroot" folder and select "Properties".

· -> · 🛧 📴 ›	This	PC > OS (C:	:) > inetpub >			~	Ö	Search inetpub	
1.0.11		Name	^	Date modified	Туре	Size			
Quick access		custerr		21.02.2025 14:14	File folder				
Desktop	*	history		25.02.2025 8:51	File folder				
Downloads	*	logs		21.02.2025 14:28	File folder				
🔮 Documents	*	temp		21.02.2025 14:15	File folder				
Pictures	*	www.roc	ot	21.02.2025 14:14	File folder				
This PC			Open						
3D Objects			Open in new window						
			Pin to Quick access						
Desktop			Give access to	>					
Documents			Restore previous versions						
- Downloads			Include in library	>					
Music			Pin to Start						
Pictures		-	C 11						
🚰 Videos		_	Send to	~					
🟪 OS (C:)			Cut						
A Network			Сору						
- Network			Create shortcut						
			Delete						
			Rename						
			Properties						



✤ Go to the "Security" tab and click on the "Edit..." button.

wwwroot Properties	×
General Sharing Security Previous Versions Customize	
Object name: C:\inetpub\wwwroot	
Group or user names:	
REATOR OWNER	~
SYSTEM	
Administrators (VM8193\Administrators)	
1 10000 (/MR193/11000)	×
< >>	
To change permissions, click Edit.	
Permissions for CREATOR	-
OWNER Allow Depy	
ownen // // Deny	_
Full control	^
Full control Modify	^
Full control Modify Read & execute	^
Full control Modify Read & execute List folder contents	^
Full control Modify Read & execute List folder contents Read	^
Full control Modify Read & execute List folder contents Read Write	< >
Full control Modify Read & execute List folder contents Read Write For special permissions or advanced settings, click Advanced. Advanced	< >
Full control Modify Read & execute List folder contents Read Write For special permissions or advanced settings. Advanced	>

Click on the "Add" button.

Permissions for wwwroot		×
Security		
Object name: C:\inetpub\www	root	
Group or user names:		
SCREATOR OWNER		
SYSTEM		
Administrators (VM8193\Adm	ninistrators)	
Series (VM8193\Users)		
STATES IN THE STATES INTO STATES IN THE STATES INTO STATES INT	SRS)	
Marked Installer		
	A <u>d</u> d	<u>R</u> emove
Permissions for CREATOR OWNER	A <u>d</u> d Allow	<u>R</u> emove Deny
Permissions for CREATOR OWNER Full control	A <u>d</u> d Allow	Remove Deny
Permissions for CREATOR OWNER Full control Modify	A <u>d</u> d Allow	Remove
Permissions for CREATOR OWNER Full control Modify Read & execute	A <u>d</u> d Allow	Remove
Permissions for CREATOR OWNER Full control Modify Read & execute List folder contents	A <u>d</u> d Allow	Remove
Permissions for CREATOR OWNER Full control Modify Read & execute List folder contents Read	Add	Remove
Permissions for CREATOR OWNER Full control Modify Read & execute List folder contents Read	Add Allow	Remove
Permissions for CREATOR OWNER Full control Modify Read & execute List folder contents Read	A <u>d</u> d Allow	Remove



✤ Then click on the "Advanced..." button.

Select Users or Groups	×
Select this object type:	
Users, Groups, or Built-In security principals From this location:	Object Types
VM8193	Locations
Enter the object names to select (<u>examples</u>):	
	<u>C</u> heck Names
Advanced OK	Cancel

Search for "NETWORK SERVICE" via the "Find Now" button and click the "OK" button.

Select Users or Groups				×
Select this object type:				
Users, Groups, or Built-in security prin	ncipals		0	bject Types
From this location:				
VM8193				Locations
Common Queries				
Name: Starts with $$				Columns
Description: Starts with $$				Find Now
Disabled accounts				Stop
Non expiring password				
Days since last logon:	\sim			<i>9</i> 9
Search results:		C	ОК	Cancel
Name	In Folder			^
Local account and member of Ad. LOCAL SERVICE				
Ketwork Configuration Operators	VM8193			
K NETWORK SERVICE				
	VM8193			
Reformance Monitor Users	VM8193			
Rower Users	VM8193			
Rint Operators	VM8193			~



↔ Highlight the "NETWORK SERVICE" user group, check "Full control" and confirm with "OK".

Permissions for wwwroot		×
Security		
Object name: C:\inetpub\wwwn	oot	
Group or user names:		
SCREATOR OWNER		^
METWORK SERVICE		
SYSTEM		
Administrators (VM8193\Admi	nistrators)	
Sers (VM8193\Users)		~
<		>
	A <u>d</u> d	<u>R</u> emove
Permissions for NETWORK SERVICE	A <u>d</u> d Allow	<u>R</u> emove Deny
Permissions for NETWORK SERVICE Full control	A <u>d</u> d Allow	Remove
Permissions for NETWORK SERVICE Full control Modify	Add Allow	Deny
Permissions for NETWORK SERVICE Full control Modify Read & execute	Add Allow	Remove
Permissions for NETWORK SERVICE Full control Modify Read & execute List folder contents	Add Allow	Remove
Permissions for NETWORK SERVICE Full control Modify Read & execute List folder contents Read	Add Allow V V V	Bemove
Permissions for NETWORK SERVICE Full control Modify Read & execute List folder contents Read	Add Allow	Remove
Permissions for NETWORK SERVICE Full control Modify Read & execute List folder contents Read	Add Allow V V V	Remove

• If it is not possible to set the permissions of the default directory, follow the steps given in the chapter Installing NET Genium via "Setup.exe".


4.8 Creating a new site

- By default, a clean installation of IIS creates a single site named "Default Web Site" that has "C:\inetpub\wwwroot" set as the default site directory.
- In IIS, right-click on "Sites" and select "Add Website...".





- ✤ In the newly opened window fill in:
 - "Site name": "www.netgenium.com"
 - "Application pool: "DefaultAppPool"
 - "Physical path: "C:\inetpub\wwwroot\www.netgenium.com"
 - o "Type: "http"
 - "Host name: "www.netgenium.com"
- ✤ Click the "OK" button.

Add Website			? ×
Site name:	Application pool:		
www.netgenium.com	DefaultAppPool	Select	
Content Directory			
Physical path:			
C:\inetpub\wwwroot\www.netgeniur	n.com		
Pass-through authentication			
Connect as Test Settings			
Binding			
Type: IP address:	Port:		
http 🗸 All Unassigne	d ~ 80		
Host name:			
www.netgenium.com			
Example: www.contoso.com or mark	eting.contoso.com		
Start Website immediately			
Start website immediately			
	ОК		Cancel



4.9 Creating and installing SSL certificates

▲ The setting described in this chapter is intended only for the use of web servers exposed on the Internet, where communication security is expected via an SSL certificate.

4.9.1 Create an SSL certificate request

Go to IIS settings and select the node of your server (for example "VMP8193") and select "Server certificates" in the "IIS" section.





✤ In the right part of the window, in the "Actions" panel, click on "Create Certificate Request...".



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In the newly opened window, enter all the required information for the certificate and click the "Next" button.

?

 \times

- "Common name": " www.netgenium.com"
- "Organization": "NetGenium"
- "Organization unit": "IT"
- "City/locality": "Prague"
- "State/province": "Czech Republic"
- "Country/region": "CZ"

Request Certificate

Distinguished Na	ume Properties
Specify the required informatic official names and they cannot	n for the certificate. State/province and City/locality must be specified as contain abbreviations.
Common name:	www.netgenium.com
Organization:	NetGenium
Organizational unit:	П
City/locality	Prague
State/province:	Czech Republic
Country/region:	CZ v
	Previous Next Finish Cancel



Request Certificate	?	\times
Cryptographic Service Provider Properties		
Select a cryptographic service provider and a bit length. The bit length of the encryption key determines th certificate's encryption strength. The greater the bit length, the stronger the security. However, a greater bit length may decrease performance. Cryptographic service provider:	2	
Microsoft RSA SChannel Cryptographic Provider		
Bit length:		
Previous Next Finish	Cancel	

Specify a file name for the certificate request and click the "Finish" button.

Request Certificate	?	×
File Name		
Specify the file name for the certificate request. This information can be sent to a certification authority for signing. Specify a file name for the certificate request:	r	
C:\Users\Administrator\Documents\certificate_application.req		
Previous Next Finish	Cancel	



4.9.2 Communication with the Certification Authority

- Sending a technical request for a certificate to the Certification Authority
- Control Con

4.9.3 Completing the SSL certificate request

- Once you receive your certificate from a certification authority (e.g. www.sslmarket.cz), save it to a text file such as "C:\Users\Administrator\Desktop\netgenium.txt". If you obtain the certificate by copying the certificate content from an e-mail message, for example, it is important to save the content including the -----BEGIN CERTIFICATE----- and -----END CERTIFICATE----- tags.
- Go to IIS settings and select your server node (for example "VM8193") and select "Server Certificates" in the "IIS" section.





✤ In the right part of the window, in the "Actions" panel, click on "Complete Certificate Request...".

Internet Information Services (IIS)	Manager				– 🗆 X
← → ♥ ₩8193 ►					🔯 🖂 🟠 🔞 🗸
File View Help					
File View Help Connections Start Page Start Page Start Jage Start Jage Start Jage Start Solution Start Page Start Solution Start Sol	Server Certific Use this feature to request and for SSL.	cates manage certificates that the Web se Go · · · · · · · · · · · · · · · · · · ·	rver can use with websites confi No Grouping • Issued By	igured Ext	Import Create Certificate Request Complete Certificate Request Create Bomain Certificate Create Self-Signed Certificate Enable Automatic Rebind of Renewed Certificate Balance Help
< >	Features View 🔀 Content V	ïew			
Ready					1 .:

- In the wizard, enter the location and name of the certificate you previously saved on your server, enter "Friendly name" and select "Certificate store for the new certificate" to "Personal". Then click the "OK" button.
- *"Friendly name" is not part of the certificate but is entered by the administrator to better identify the certificate among others.*

Complete Certificate Request	?	×
Specify Certificate Authority Response		
Complete a previously created certificate request by retrieving the file that contains the certificate authority' response.	5	
File name containing the certification authority's response:		
C:\Users\Administrator\Desktop\netgenium.txt		
Friendly name:		
www.netgenium.com		
Select a certificate store for the new certificate:		
Personal 🗸		
OK	Cancel	
OK III	cancer	



• After successfully installing a certificate on the server, you need to assign this certificate to a specific site using IIS.

📬 Internet Information Services (IIS)	Manager				– 🗆 ×
← → ♥ ► VM8193 ►					📴 🖂 🟠 i 🕑 🗸
File View Help					
Connections		t			Actions
🔍 - 🕞 🖄 🛛 🍰	Server Certifica	tes			Import
Start Page VM8193 (VM8193\Administration Pools	Use this feature to request and m for SSL.	anage certificates that the Web se	rver can use with websites config	gured	Create Certificate Request Complete Certificate Request
> i Sites	Filter: 👻 🦷	Go 🕞 🖏 Show All 🛛 Group by:	No Grouping -		Create Domain Certificate
	Name	Issued To	Issued By	Ext	Create Self-Signed Certificate
	*.netgenium.com	*.netgenium.com	RapidSSL TLS RSA CA G1	17.	Enable Automatic Rebind of Renewed Certificate
				>	€ Help
K >					6 2 .
Keady					1 .:

- From the "Connections" menu, select the website to which you want to assign the certificate in the "Internet Information Services" main window.





Site Bindin	gs				?		×
Type http	Host Name www.netgenium	Port 80	IP Address *	Binding Informa	Ada Edi Brov	d t ove	
					 Clo	se	

- ✤ The following dialog box "Add Site Binding" will open.
- ✤ Fill in the following information:
 - o "Type": "https"
 - "IP adress": "All Unassigned"
 - o "Ports": "443"
 - "Host name": fill in the website domain name (for example <u>www.netgenium.com</u>)
 - o "SSL certificate": select the SSL certificate you want to assign to this website in the drop-down list

Add Site Binding	?	×
Type: IP address: Port: https All Unassigned 443]	
Host name: www.netgenium.com Require Server Name Indication		
 Disable TLS 1.3 over TCP Disable QUIC Disable Legacy TLS Disable HTTP/2 Disable OCSP Stapling 		
SSL certificate: *.netgenium.com	View	
ОК	Cancel	



- Option "Require Server name Indication"
 - Do not check "Require Server name Indication" if this is the default site you run on that server. Within
 one IP address (or within the whole IIS, if we use an IP address set to "All Unassigned"), only one SSL
 certificate can be defined, which has this option unchecked and which we therefore consider as the
 default.
 - Check "Require Server name Indication" if it is a second or additional SSL site running on the same IP address. It is important to note that older client devices (older Windows, tablets or mobile phones) can communicate with only one SSL certificate on one IP address. However, all the usual modern equipment today can so-called. SNI (Server Name Indication), which allows you to run multiple SSL certificates on one IP address. To enable this feature, check "Require Server name Indication".





5 Download and unzip NET Genium to the destination directory

- Download the archive with the latest full version of NET Genium from the URL: <u>"https://www.netgenium.com/download/netgenium4.zip</u>".
- Extract the contents of the archive to the location "C:\inetpub\wwwroot\netgenium".

6 Database server installation – Firebird or MS SQL

- A Before installing NET Genium, you need to install a database server, either Firebird or MS SQL Server. After installing the database server, you can continue installing NET Genium.
 - For instructions on installing Firebird, see the "Installing Firebird" guide.
 - For instructions on installing MS SQL Server, see the "Installing MSSQL" guide.



7 Installing NET Genium

- INET Genium can be installed in two different ways:
 - Via "Setup.exe"
 - o Via "IIS"

7.1 Genium installation via "Setup.exe"

- C Run the "Setup.exe" program, which is located in the "bin" directory of NET Genium. After its first run, only the libraries will be created for it to run properly, then run "Setup.exe" again ("Setup.exe" must be run as an administrator).
- If you have a NET Genium license, copy your license file "license.txt" to the "Config" directory of NET Genium.
 The introductory window of the program looks like this:

Web site	Default Web Si	ite			
Virtual directory	netgenium				
NET Genium directory	C:\inetpub\ww	wroot\netgeni	um		
Database Server	Finebird	C:\Fireb	ird		~
Database				Automatically	
Charset / Collation	Central Europe			Czech	
Language	English	~			
	Authorise N	letwork Service	to write in th	ne directory NET Ger	nium

- Check the options you want to select as described below:
- "Create virtual directory"
 - Check this option if you want to convert the NET Genium directory on disk to the IIS virtual directory (run the equivalent of a manual NET Genium installation performed in IIS).



- "Authorize a NetworkService account to write in the NET Genium directory"
 - Check this option if you want to set the rights for the "NetworkService" account to full access to the NET Genium directory. If you have set the rights according to the chapter "Setting the permissions of the default directory" for the entire "wwwroot", it is not necessary (if this option is checked) to set the rights individually. Thus, the rights for each individual NET Genium are already preset.
- "Create database"
 - Check this option if you want to create a new database and your database server is located on the same computer as the application itself, resp. IIS. If the database server is located on another computer, the database on the database server must be created manually, and then the "ConnectionString.txt" file must be created in the "Config" directory of NET Genium, which contains the definition of the connection string to the database.
 - Specify what type of database you will use Firebird or MS SQL Server.
 - Leave the "Automatic" option checked the database will have the same name as the virtual directory or specify your own database name.
 - In the case of Firebird, select the directory where the database is to be stored (the default location is "C:\Firebird").
 - In the case of MS SQL Server, select the instance in which the database will be created.
- "Authorize NetworkService account to access MS SQL database"
 - Check this option if you use an MS SQL database and your database server is located on the same computer as the application itself, resp. IIS.
 - Authorization consists of creating a login to the "NetworkService" account and assigning the "sysadmin" role.
- "Create a scheduled task for BackupServer.exe"
 - Check this option if you want to automatically create a scheduled task for regular server and database backups.
- "Create a scheduled task for SqlBackup.exe (database backup)"
 - Check this option if you want to automatically create a scheduled task for regular database backups.
- "Create a scheduled task for FileBackup.exe (attachment backup)"
 - Check this option if you want to automatically create a scheduled task for regular file attachment backups.
- "Create a scheduled task for Update.exe"
 - Check this option if you want to automatically create a scheduled task for regularly updating NET Genium to the new version.
- "Create a scheduled task for ResendEmlFiles.exe"
 - Check this option if you want to automatically create a scheduled task for regularly sending unsuccessful e-mails from the "Logs" directory.



- "Create a scheduled task for RunScript.exe"
 - Check this option if you want to automatically create a scheduled task to run a script with a given ID, at a specified time, or with the option to repeat the task regularly twice an hour for 18 hours.
- Click on the "Set up" button to start the installation. When the installation is complete, the program displays a message about this fact.
- **0** After successful creation of the database, the file "ConnectionString.txt" is created automatically.
- A "DefaultLanguage.txt" file is created in the "Config" directory, in which the abbreviation of the default portal language is placed. This will be the default language according to which all subsequently created NET Genium applications will be created.



7.2 Installing NET Genium over "IIS"

- Only install via IIS if you have a NET Genium database created and you have a "ConnectionString.txt" file in the "Config" directory, which contains the definition of the connection string to the database.
- Find "Internet Information Services (IIS) Manager" via the "Start" menu.

■ C ©
Best match
Internet Information Services (IIS) Manager App
ア lis 🎽 📕



- In the open window on the left, click on the tree structure of the drop-down list up to "Default Web Site", select the directory on your NET Genium's disk, right-click on it, and select "Convert to Application" from the menu.
- This step assumes that NET Genium is expanded in the "netgenium" directory in the default site directory (for example, "C:\inetpub\wwwroot\netgenium"). See the chapter "<u>Downloading and unzip NET Genium to the destination directory</u>".





7.3 Additional settings

7.3.1 File indexing settings for "Windows Search"

7.3.1.1 Enabling the "Windows Search" service

✤ Find "Services" via the "Start" menu.

■ <u></u>	
Best match	
Services App	
Apps	
Component Services	
Microsoft Azure Services	
🐐 Internet Information Services (IIS) Manager	
	Ħ

✤ Right-click on "Windows Search" and select "Properties".

🔍 Services					- 🗆	×
File Action View	Help					
♦ ♦ □ □ 0	à 🗟 🛛 📷 🕨 🔲 II 🕪					
🔍 Services (Local)	🔍 Services (Local)					
	Windows Search	Name	Description	Status	Startup Type	Log ^
	Description: Provides content indexing, property caching, and search results for files, e- mail, and other content.	 Windows License Manager Windows Management Inst Windows Media Player Net Windows Modules Installer Windows Presentation Fou Windows Process Activatio Windows Push Notification Windows Push Notification Windows Push Notification Windows PushTolnstall Serv 	Provides inf Provides a c Shares Win Enables inst Optimizes p The Windo This service Provides inf	Running Running Running Running Running	Manual (Trig Automatic Manual Manual Manual Automatic Automatic Disabled	Loci Loci Loci Loci Loci Loci Loci
		Windows Remote Manage	Windows R Provides co	Running	Automatic Disabled	Neti Loci
		Windows Security Service Windows Time Windows Update Windows Update Windows Update Medic S WinHTTP Web Proxy Auto Wired AutoConfig WMI Performance Adapte Workstation World Wide Web Publishi	Start Stop Pause Resume Restart All Tasks Refresh Properties	19 19 19 19 19 19	Manual Automatic (T Manual (Trig Manual Manual Manual Automatic Automatic	Loci Loci Loci Loci Loci Loci Loci Loci
	Extended Standard		Help			



Set "Startup type" to "Automatic") and confirm the changes by pressing the "OK" button.

Windows Search P	roperties (Local Computer)	×
General Log On	Recovery Dependencies	
Service name:	WSearch	
Display name:	Windows Search	
Description:	Provides content indexing, property caching, and search results for files, e-mail, and other content.	
Path to executable C:\windows\syste	e: m32\SearchIndexer.exe /Embedding	
Startup type:	Automatic ~	
Service status:	Stopped	
<u>S</u> tart	Stop <u>P</u> ause <u>R</u> esume	
You can specify the from here.	e start parameters that apply when you start the service	
	OK Cancel Apply	

If the original "Startup type" was "Disabled", open "Windows Search" again via "Properties" and click the "Start" button. Then click the "OK" button.

Windows Search P	roperties (Local Computer)	×			
General Log On	Recovery Dependencies				
Service name:	WSearch				
Display name:	Windows Search				
Description: Provides content indexing, property caching, and search results for files, e-mail, and other content.					
Path to executable C:\windows\system	e: m32\SearchIndexer.exe /Embedding				
Startup type:	Automatic	\sim			
Service status: Start	Stopped Stop Pause Resume	-			
You can specify th from here.	e start parameters that apply when you start the service	9			
Start parameters:					
	OK Cancel App	ly			



7.3.1.1 File indexing settings for "Windows Search"

Control Panel" via the "Start" menu.

፼ [] ◊
Best match
Control Panel App
Recent
Change date, time, or number formats
🔗 Region
Apps
Settings
🐖 Run
1 Windows Administrative Tools
🔎 cont 🗡 📕

✤ In the control panel, type "index" into the search box. Select "Indexing Options" from the results found.



✤ In the newly opened "Indexing Options" window, click on the "Modify" button.

♣ Indexing Options	×
289 items indexed Indexing complete.	
Included Locations	Exclude
Start Menu	
Users	AppData; AppData
Modify Sdvanced	Pause
How does indexing affect searches?	
Troubleshoot search and indexing	
	Close



A window will open where you can select the locations you want to include in the index. Check the box next to the NET Genium "Files" directory. In the last step, click the "OK" button.

Indexed Locations				
Change selected location	ns			
Image detected location Image detected location	ot enium kup mpaigns deMirror umns nfig arning es unload			
Included Locations Files Start Menu Users	Exclude AppData; AppData			
Show all locations	ОК	Cancel		



For Windows Search, you can check which file types are included in the index. For example, to check whether the "pdf" files are actually indexed, click on the "Advanced" button.

lndexing Options						
290 ite	ms indexed ng complete.					
Included Locations Files Start Menu Users		Exclude AppData; AppData				
Modify	Advanced	Pause				
How does indexing affered and the search and the se	How does indexing affect searches? Troubleshoot search and indexing					
			Close			

✤ In the new dialog window, click on the "File Types" tab and check the "pdf" files.

Index Settings File Ty	/pes	^
Extension P75 Partial Partial Pdb Pdb Pdb Pdf Pdf Pdf Pdf Pdf Pff Pff Pff	Filter Description File Properties filter Fil	~
	ОК	Cancel



8 Authentication settings

• Authentication settings can be set for 3 types of access (login) to your NET Genium.

Anonymous approach

Anonymous access is used when you want to connect to your NET Genium either over the Internet or over an internal computer network, and you do not require automatic user authentication using the integrated IIS features.

Windows authentication

- Windows authentication is used when you want to connect to your NET Genium either over the Internet or over an internal computer network and require automatic user authentication using the integrated IIS features.
- ▲ In this configuration, it is not possible to access NET Genium anonymously via the Internet or via an internal computer network.
- Client stations must have the NET Genium address set in the intranet zone, see the "Web browser settings" manual.

Combined approach

0 Combined access is used when we need to use a combination of anonymous access and Windows authentication.



8.1 Anonymous approach

- Anonymous access is used when you want to connect to your NET Genium either over the Internet or over an internal computer network, and you do not require automatic user authentication using the integrated IIS features.
- Before setting up authentication in IIS, it is important to know whether to set the authentication type for the entire site or just for the virtual directory. Below is the procedure for the entire site.
- 👉 Go to IIS settings, select the target website, and in the "IIS" section, select "Authentication".





In the "Authentication" section, select "Anonymous Authentication" and in the "Actions" section, click on "Enable".

Teb				
onnections	Actions			
• 🔒 🖄 😡				Enable
Start Page	Group by: No Grouping -			Edit
Application Pools	Name	Status	Response Type	Help
Sites	Anonymous Authentication	Disabled		
> 😔 Default Web Site	ASP.NET Impersonation	Disabled		
www.netgenium.com	Windows Authentication	Enabled	HTTP 401 Challenge	

Then select "Windows Authentication" in the "Authentication" section and click "Disable" in the "Actions" section.

e <u>v</u> iew <u>H</u> eip				
inections	Alerts			
	Authentication			Click here to learn how to
Start Page	Group by: No Grouping -			Protection.
Application Pools	Name	Status	Response Type	Actions
Sites	Anonymous Authentication	Disabled		Disable
> 😌 Default Web Site	ASP.NET Impersonation	Disabled	HTTP 401 Challenge	Advanced Settings
- intergentativeent	Windows Addrendeadon	Enabled	HTTP 401 Challenge	Providers
				😧 Help



8.2 Windows authentication

- Windows authentication is used if you want to connect to your NET Genium either over the Internet or over an internal computer network, and you require automatic user authentication using the built-in IIS features.
- ▲ In this configuration, it is not possible to access NET Genium anonymously via the Internet or via an internal computer network.
- Client stations must have the NET Genium address set in the intranet zone, see the "Web Browser Settings" manual.
- Before setting up authentication in IIS, it is important to know whether to set the authentication type for the entire site or just for the virtual directory. Below is the procedure for the entire site.
- 👉 Go to IIS settings, select the target website, and in the "IIS" section, select "Authentication".





In the "Authentication" section, select "Windows Authentication" and in the "Actions" section click on "Enable".

Internet Information Services (IIS)	Manager			- 🗆 X
← →	es 🕨 www.netgenium.com 🕨			🗿 🖄 🔞
<u>F</u> ile <u>V</u> iew <u>H</u> elp				
Connections				Actions
छै- 🗟 🖄 😣				Enable
Start Page	Group by: No Grouping •			🕡 Help
Application Pools Sites Default Web Site	Name Anonymous Authentication ASP.NET Impersonation	Status Enabled Disabled	Response Type	
www.netgenium.com	Windows Authentication	Disabled	HTTP 401 Challenge	
	Easterne View 😂 Carakati View			
Configuration: 'localbost' applicationH	lost config. < location nath="www.n	etaenium com">		GE CONTRACTOR OF
and a second se application	, netalion puti-	- generative officient		

Then select "Anonymous Authentication" in the "Authentication" section and click on "Disable" in the "Actions" section.

Internet Information Services (IIS)	- 🗆 X			
← →	es 🕨 www.netgenium.com 🕨			🔛 🔤 🔂 🔞
<u>File View H</u> elp				
Connections	Actions			
۶- 🔒 🖄 😣	Authentication			Disable
Start Page	Group by: No Grouping .			Edit
Application Pools	Name	Status	Response Type	😧 Help
🖌 🔞 Sites	Anonymous Authentication	Enabled		
> 😌 Default Web Site	ASP.NET Impersonation	Disabled		
- 😌 www.netgenium.com	Windows Authentication	Disabled	HTTP 401 Challenge	
	Features View Content View	N		
>	Concert res			
onfiguration: 'localhost' applicationH	lost.config , <location path="www.r</td><td>netgenium.com"></location>		•	



8.3 Combined approach

- Combined access is used when we need to use a combination of anonymous access and Windows authentication.
 There are two ways to set up combined access to NET Genium:
 - Using two virtual directories, one of which is set up for Windows authentication and the other for anonymous access (NET Genium is accessed via two different URLs).
 - \circ $\:$ Using one virtual directory (NET Genium is accessed via one URL).

8.3.1 Setting up combined access using two virtual directories

The usual practice with this configuration is that the target website has its default website directory set to the directory on disk where NET Genium itself is stored. This website has Windows authentication set up. In addition, a new virtual directory is created that has anonymous login set up and points to the same disk location as the target website itself.

8.3.1.1 Setting the target website to use Windows authentication

✤ Go to IIS settings, select the target website, and in the "IIS" section, select "Authentication".





In the "Authentication" section, select "Windows Authentication" and in the "Actions" section, click on "Enable".

ile <u>V</u> iew <u>H</u> elp						
nnections	Actions					
• 🗟 🖄 😣	Authentication	Authentication				
Start Page	Group by: No Grouping -	😢 Help				
Application Pools	Name	Status Response Enabled Disabled	Response Type			
Sites	Anonymous Authentication ASP.NET Impersonation					
> 😔 Default Web Site						
www.netgenum.com	windows Authentication	Disabled	HTTP 401 Challenge			

Then select "Anonymous Authentication" in the "Authentication" section and click "Disable" in the "Actions" section.

Internet Information Services (IIS)	Manager			- 🗆 ×	
← →	s 🕨 www.netgenium.com 🕨			😐 🖂 🚱 •	
<u>File View H</u> elp					
Connections				Actions	
छेन 🔒 🖄 😣	Authentication	Disable			
Start Page	Group by: No Grouping -	Edit			
Application Pools	Name	Status	Response Type	😧 Help	
🗸 🐻 Sites	Anonymous Authentication	Enabled			
> 😔 Default Web Site	ASP.NET Impersonation	Disabled			
www.netgenium.com	Windows Authentication	Disabled	HTTP 401 Challenge		
< >	📰 Features View 💦 Content View	N			
Configuration: 'localhost' applicationH	ost.config , <location path="www.r</td><td>netgenium.com"></location>		6 <u>1</u>		



8.3.1.2 Create a second virtual directory for anonymous access

C Right-click on the target website and select "Add Application...".



👉 🛛 Fill in:

- "Alias": for example "netgenium"
- "Application Pool": "DefaultAppPool"
- "Physical path": for example "C:\inetpub\wwwroot\netgenium" (physical path (directory on disk) where your NET Genium is stored)

Add Application	?	×
Site name: www.netgenium.com Path: /		
Alias: Application pool:		
netgenium DefaultAppPool	Select	
Example: sales		
Physical path:		
C:\inetpub\wwwroot\netgenium		
Pass-through authentication Connect as Test Settings		
Enable Preload		
ОК	Cancel	



✤ Click on the "netgenium" application and select "Authentication" in the "IIS" section.

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In the "Authentication" section, select "Anonymous Authentication" and in the "Actions" section, click "Enable".

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In the "Authentication" section, select "Windows Authentication" and in the "Actions" section, click "Disable".

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8.3.1.3 Setting up virtual directory URLs in NET Genium portal settings

- This step is important so that administrator modifications in individual NET Genium instances are synchronized with each other (virtual directory with Windows authentication vs. virtual directory with anonymous access).
- 👉 Start your NET Genium.
- Go to the NET Genium portal settings (via the gear symbol).





In the newly opened dialog box, go to the "General" tab and enter both URL addresses of your NET Genium in the "URL" field (for example: "http://localhost;http://localhost/netgenium"). Confirm the changes with the "Save" button.

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8.3.2 Setting up combined access using one virtual directory

8.3.2.1 Setting up the target website for two-factor authentication

- Before setting up authentication in IIS, it is important to consider whether we will set the authentication type for the entire website or just for the virtual directory. Below is the procedure for the entire website.
- 👉 Go to IIS settings, select the target website, and in the "IIS" section, select "Authentication".





In the "Authentication" section, select "Anonymous Authentication" and in the "Actions section, click on "Enable".

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In the "Authentication" section, select "Windows Authentication" and in the "Actions" section, click on "Enable".

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8.3.2.2 Setting the "LoginByIdentity.aspx" file for Windows authentication

Content View".



Content of the "LoginByIdentity.aspx" file, right-click on it and select "Switch to Features View".






In the "Authentication" section, select "Anonymous Authentication" and in the "Actions" section, click "Disable".

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8.3.2.3 Creating the "LoginByIdentity.txt" file

 Go to the directory where you have installed your NET Genium (for example "C:\inetpub\wwwroot\netgenium") and in the "Config" directory create the file "LoginByIdentity.txt" (the content of the file does not matter).



9 Problem solving

9.1 NET Genium installation via "Setup.exe"

1 If you encounter any problems while installing NET Genium with the "Setup.exe" program, their details can be found in the "Logs" directory in the "Install.log" file. These problems include:

× Problem: IIS is not installed.

✓ Solution: Install IIS (see chapter "<u>Installing IIS</u>").

- **Problem:** The selected database system is not installed.
- ✓ Solution: Install the database server (see chapter "<u>Database server installation Firebird or MS SQL</u>").
- **X** Problem: When creating the setup database, it reports an error: "Firebird: connection rejected by remote interface ".



- Solution: Check which version of Firebird you have installed. Version 2.5.n or higher must be installed.
- X Problem: Backward compatibility with IIS 6 and .NET and ASP.NET extensions is not installed.

Solution: Install the relevant missing extensions by installing Server Features.



9.2 Windows authentication

- **×** Problem: Windows authentication does not work.
- Solution: Make sure you have a NET Genium address on the client stations located in the Intranet zone.
- Solution: Make sure you have "Windows Authentication" installed, see chapter "<u>Authentication settings</u>"
- Solution: Check the authentication settings according to your chosen type of access to NET Genium (see chapter "<u>Authentication settings</u>").

9.3 The first launch of NET Genium

X Problem: NET Genium is displayed without styles.

Solution: If your NET Genium is displayed without styles, you either do not have the permissions set for your default website directory (see the chapter "<u>Set default directory permissions</u>" or you did not check the "Static Content" option when installing IIS (see the chapter "<u>Installing IIS on Windows Server 2022</u>").

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Problem: Unable to save form in NET Genium. Error saving form: "No message for error code 335544865 found".

Solution: Make sure you have FlameRobin running. If so, close the program.



9.4 NET Genium display issues after installing or importing a new SSL certificate

X Problem: Your connection is not private: NET :: ERR_CERTIFICATE_TRANSPARENCY_REQUIRED



Solution: Contact the certificate issuer, resp. the certification authority that issued the certificate and have it verified that the certificate has been correctly logged in accordance with "Certificate Transparency" after it has been generated. See the site for more https://comodosslstore.com/resources/how-to-fix-neterr certificate transparency required-error-in-google-chrome/.