



1C:Enterprise on Windows *Administration. Volume 1. SAMPLE*

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This book is the first in an ongoing series of books with administration recipes and snippets on the 1C:Enterprise platform on Windows. I will complete each volume with up to 500 pages. You can suggest topics, questions, tasks, and problems to add by click [here](#).

To obtain the installation file of the 1C:Enterprise (training version), you can contact any of the [1Ci partners](#), or register as a [developer](#), or request it through the [contact form](#) of this book.

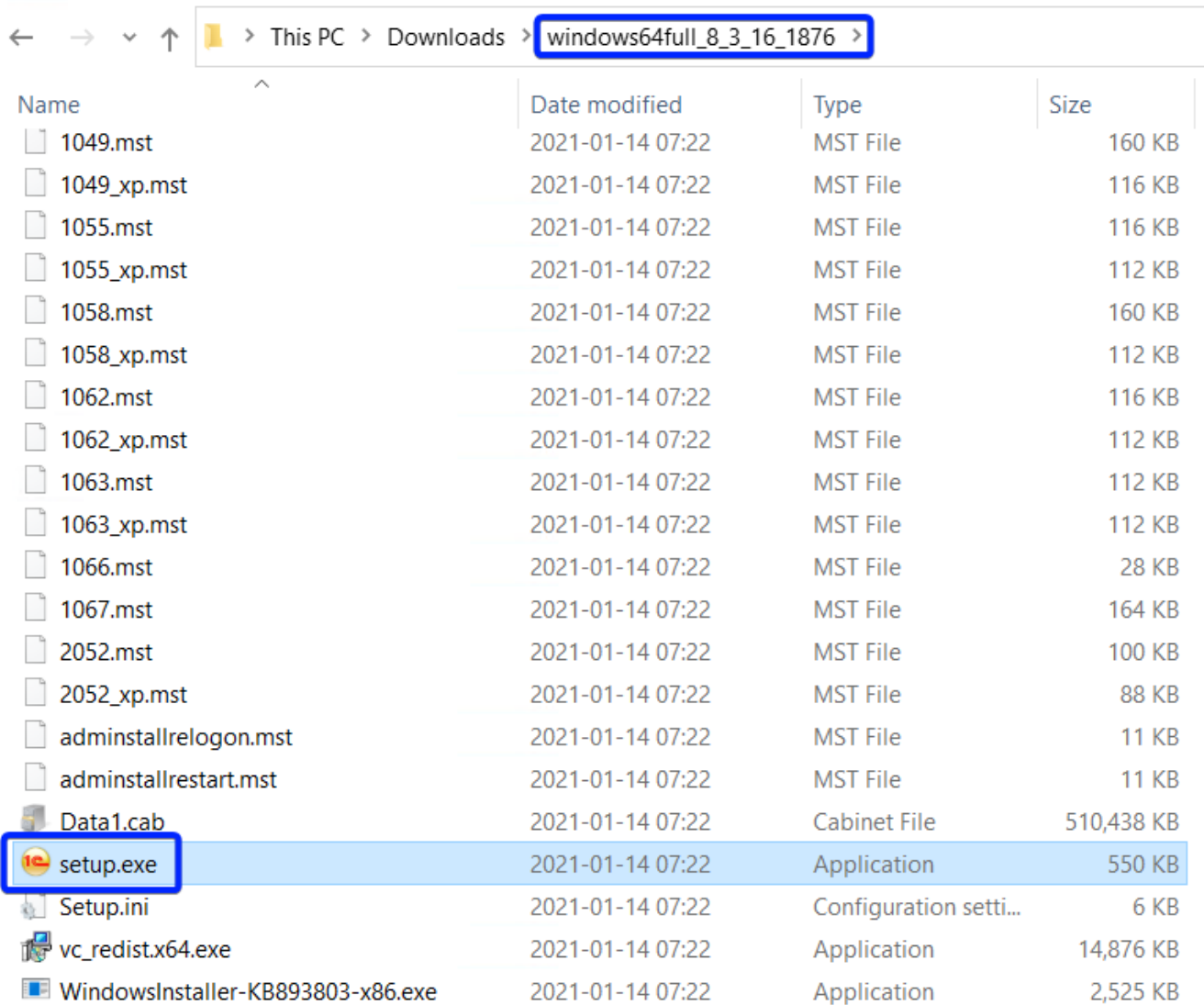
1. Platform

1-1. How to install 1C:Enterprise platform and server on Windows?

2023-04-06

→ Step 1.

Run the “setup.exe” file in the unzipped installation folder.



Name	Date modified	Type	Size
1049.mst	2021-01-14 07:22	MST File	160 KB
1049_xp.mst	2021-01-14 07:22	MST File	116 KB
1055.mst	2021-01-14 07:22	MST File	116 KB
1055_xp.mst	2021-01-14 07:22	MST File	112 KB
1058.mst	2021-01-14 07:22	MST File	160 KB
1058_xp.mst	2021-01-14 07:22	MST File	112 KB
1062.mst	2021-01-14 07:22	MST File	116 KB
1062_xp.mst	2021-01-14 07:22	MST File	112 KB
1063.mst	2021-01-14 07:22	MST File	112 KB
1063_xp.mst	2021-01-14 07:22	MST File	112 KB
1066.mst	2021-01-14 07:22	MST File	28 KB
1067.mst	2021-01-14 07:22	MST File	164 KB
2052.mst	2021-01-14 07:22	MST File	100 KB
2052_xp.mst	2021-01-14 07:22	MST File	88 KB
admininstallrelogon.mst	2021-01-14 07:22	MST File	11 KB
admininstallrestart.mst	2021-01-14 07:22	MST File	11 KB
Data1.cab	2021-01-14 07:22	Cabinet File	510,438 KB
setup.exe	2021-01-14 07:22	Application	550 KB
Setup.ini	2021-01-14 07:22	Configuration setti...	6 KB
vc_redist.x64.exe	2021-01-14 07:22	Application	14,876 KB
WindowsInstaller-KB893803-x86.exe	2021-01-14 07:22	Application	2,525 KB

1-1. Step 1

→ Step 2.

Click “Next >.”

Welcome to the setup for 1C:Enterprise 8 (x86-64)

The Setup will install 1C:Enterprise 8 (x86-64) on your computer. To continue, click Next.

WARNING: This program is protected by copyright law and international treaties.



< Back

Next >

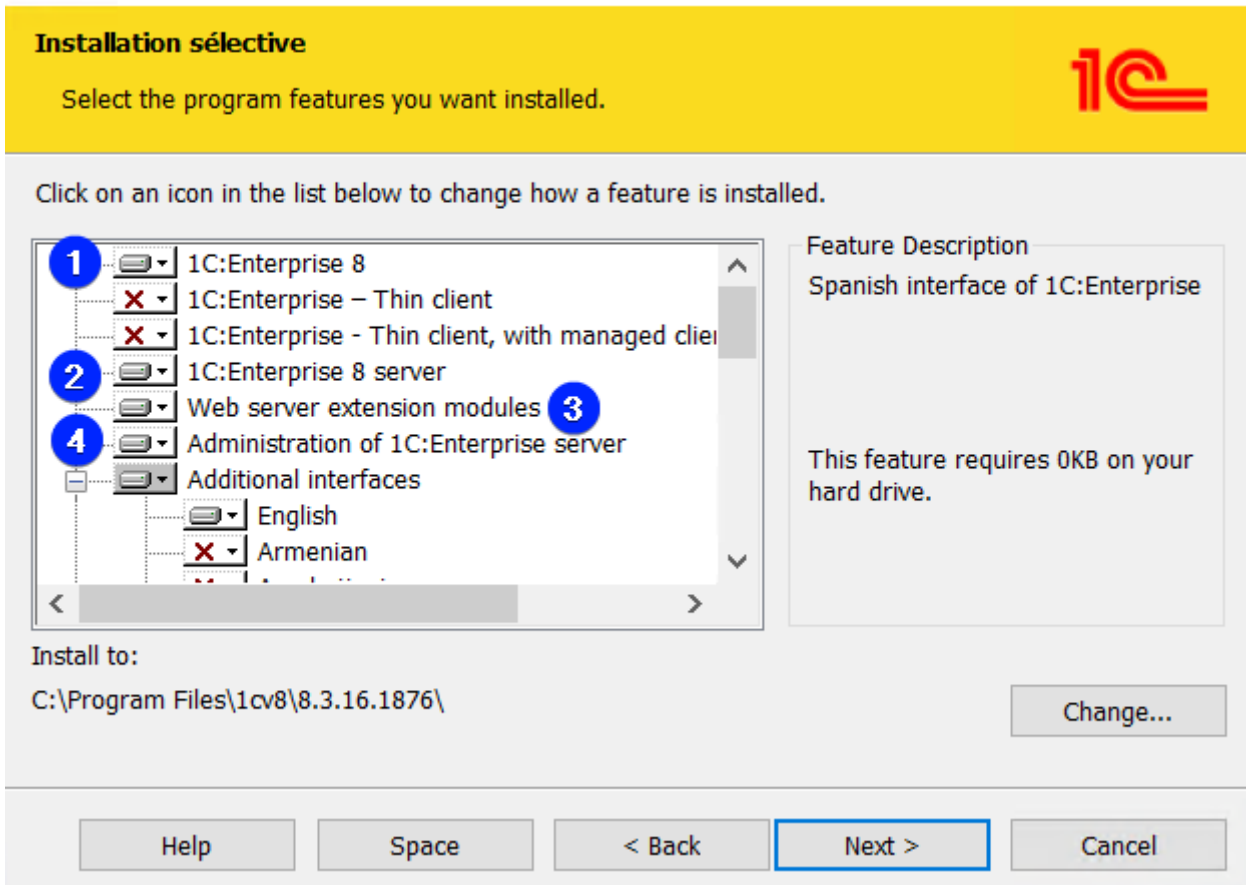
Cancel

1-1. Step 2

→ Step 3a.

Deactivate all options and activate the following options:

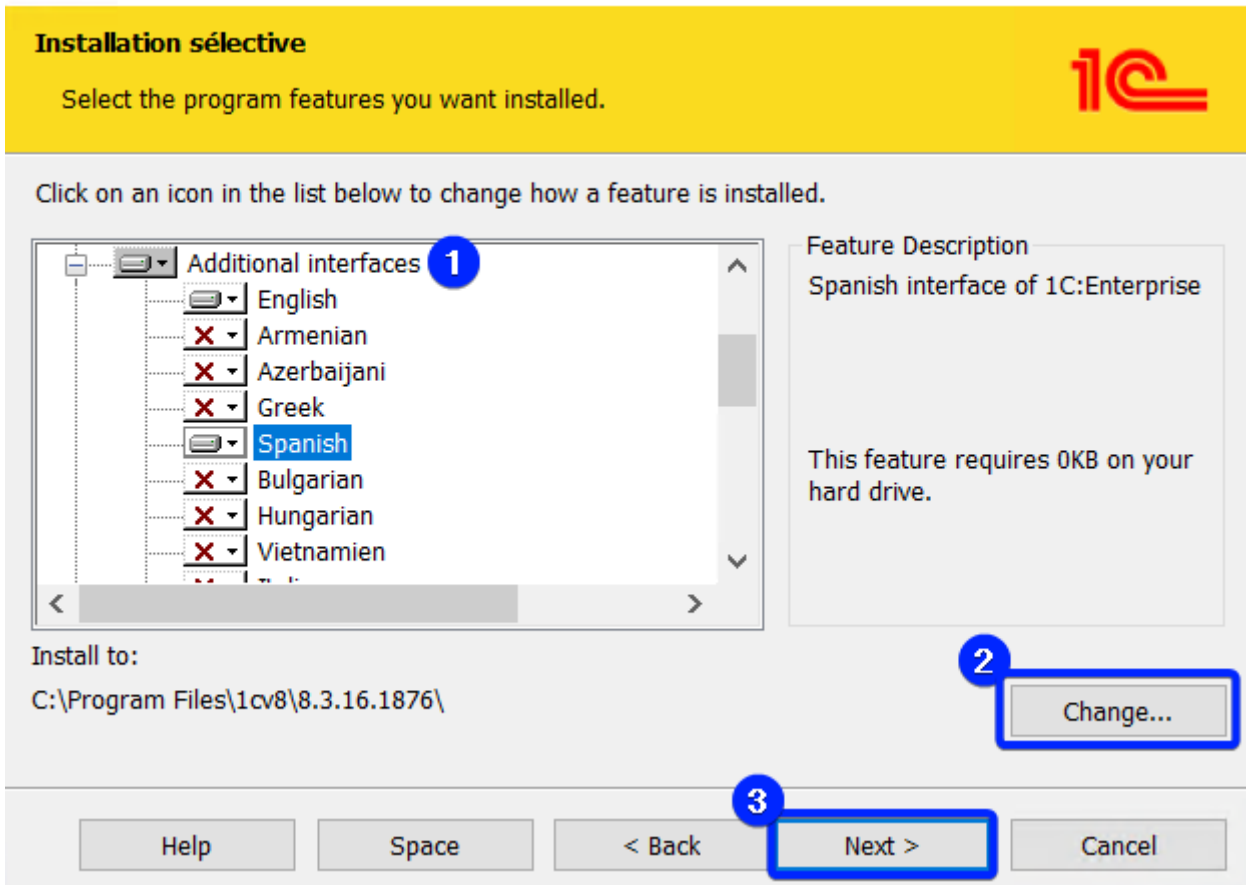
1. “1C:Enterprise 8” to install the platform.
2. “1C:Enterprise 8 server” to install 1C:Enterprise server (where applicable).
3. “Web server extension modules” to install the additional web server modules (if you plan to publish the infobases on the web).
4. “Administration of 1C:Enterprise server” to install the 1C:Enterprise server cluster management console (where applicable).



1-1. Step 3a

→ Step 3b.

1. Activate the required interface languages.
2. Change the location of the installation (if necessary).
3. Click “Next >.”



1-1. Step 3b

→ Step 4.

Select the default interface language and click “Next >.”

Default interface language

Set the default interface language

Select default interface language:

English

< Back Next > Cancel

1-1. Step 4

→ Step 5 (only appears if the “1C:Enterprise 8 server” option is active).

1. Enable the “Install 1C:Enterprise 8 server as Windows service (recommended)” option for automatic startup of the 1C:Enterprise server and running in the background.
2. Activate the “Create user USR1CV8” option to create a dedicated user for running 1C:Enterprise server.
3. Set and confirm the dedicated user password for running 1C:Enterprise server.
4. Click “Next >.”

Install server as service

Install 1C:Enterprise 8 server as Windows service

Installing 1C:Enterprise 8 server as Windows service is recommended due to increased stability and productivity and does not require interactive logon to run server application.

1 Install 1C:Enterprise 8 server as Windows service (recommended)

Use user to run service:

 Existing user

Administrator

2 Create user USR1CV8

Selected user password:

Password:

Confirm password:

3

.....

.....

4

< Back

Next >

Cancel

1-1. Step 5

→ Step 6.

Click “Install” to confirm the installation.

Read to install the program

The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

< Back

Install

Cancel

1-1. Step 6

→ Step 7.

1. Disable the “Install HASP Device Driver” option to not install the HASP driver, as software protection is used instead of hardware protection.
2. Enable the “Disable 1C:Enterprise 8 hardware license keys features that are not used (recommended)” option to disable the hardware protection keys features.
3. Click “Next >.”

Install security driver

Install the security driver



HASP Device Driver must be installed to connect 1C:Enterprise with hardware protection key.

- 1 Install HASP Device Driver
- 2 Disable 1C:Enterprise 8 hardware license keys features that are not used (recommended).

< Back

Next >

Cancel

1-1. Step 7

→ Step 8.

Activate or deactivate the “Show Readme” option if you want to read the “Readme” file or not, and click “Finish” to finish the installation.

Setup Completed

The setup has successfully installed 1C:Enterprise 8 (x86-64).
Click Finish to exit the wizard.

Show Readme



< Back

Finish

Cancel

1-1. Step 8

1-2. How to activate a 1C client license?

This content is not available in the sample book.

1-3. How to activate the 1C server license (with PostgreSQL)?

This content is not available in the sample book.

1-4. How to create an infobase (file mode)?

This content is not available in the sample book.

1-5. How to create the infobase in Windows Server 2022 with MS SQL Server 2019 (server mode)?

This content is not available in the sample book.

1-6. How to maintain the infobase using the 1C:Enterprise platform?

2023-03-18

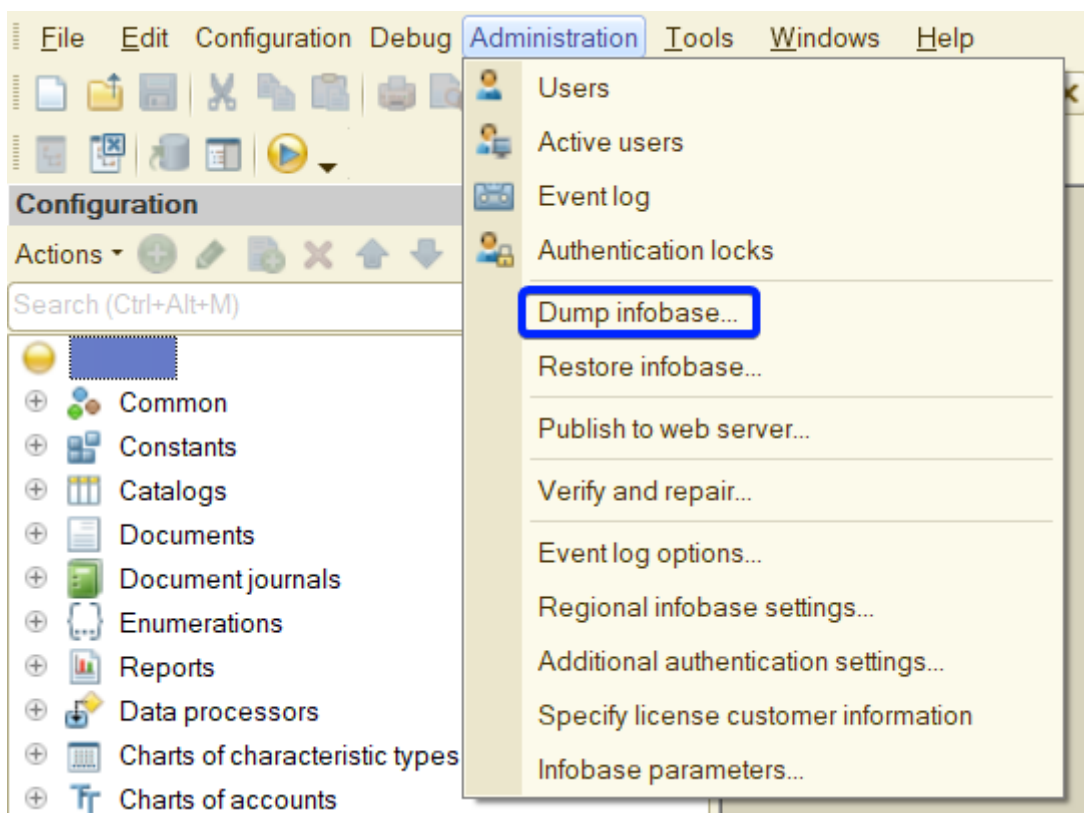
If you suddenly experience a significant slowdown in the application or a considerable number of errors, the first thing to do is to perform the following infobase maintenance steps:

→ *Step 1.*

Open the infobase in “Designer.”

→ *Step 2.*

Execute the menu option “Administration” > “Dump infobase...” to create a backup file in “dt” format.

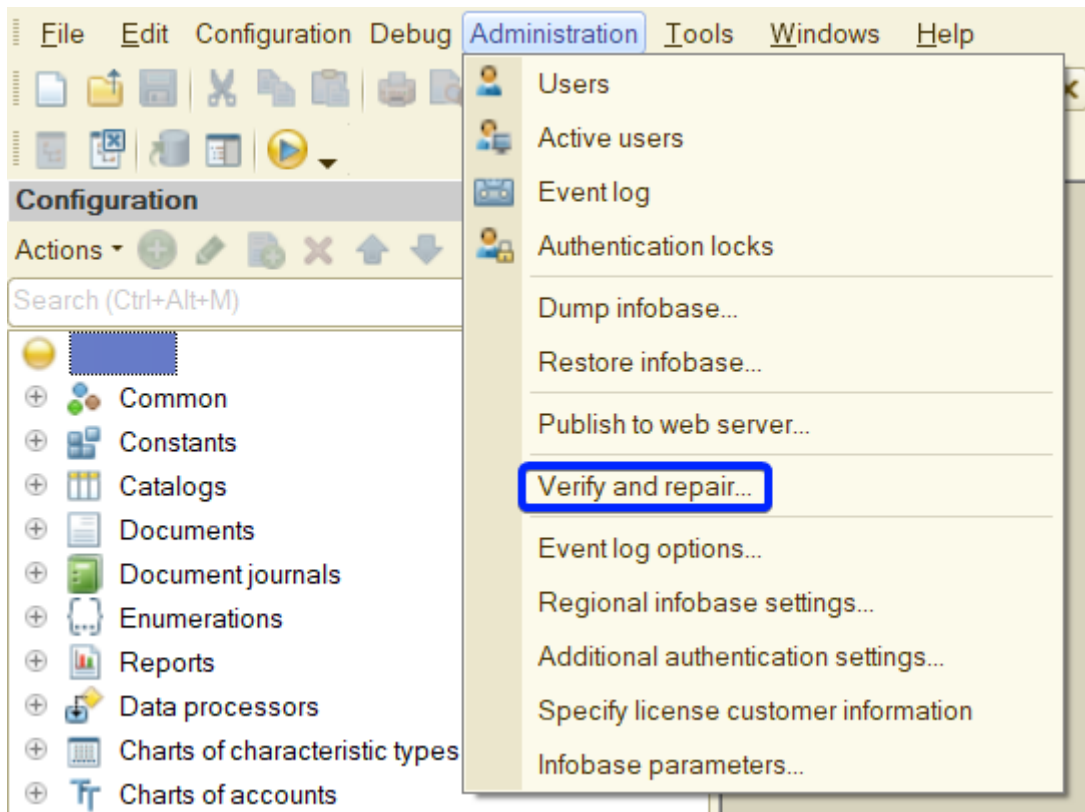


1-6. Step 2

→ *Step 3.*

Execute the menu option “Administration” > “Verify and repair...” to check, fix, and optimize the

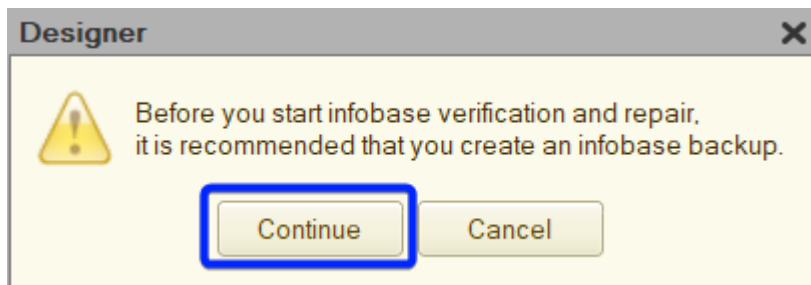
infobase.



1-6. Step 3

→ Step 4.

Confirm the continuation of the infobase checking and correction procedure.



1-6. Step 4

→ Step 5.

1. Enable all options for all checking and optimization tasks (archive mode). For server mode, activate all options except “Reindex infobase tables” since the database performs the reindexing more optimally.
2. Enable the “Verify and repair” option to check and fix the infobase.
3. Enable the “Delete references” option in the “When references to missing objects are found:” field to remove references to non-existent objects in the infobase.
4. Enable the “Delete object” option in the “If object data is partially lost” field to remove objects from the infobase where some data has been lost or damaged.
5. Click “Execute” to run infobase checking, correction, and optimization.

Verify and repair infobase [X]

Checks and verification modes:

- Reindex infobase tables
- Check logical infobase integrity
- Check referential infobase integrity
- Recalculate totals
- Compress infobase tables
- Restructure infobase tables
- Recreation of the standalone configuration

Verify only

Verify and repair

When references to missing objects are found:

- Create objects
- Delete references
- No action

If object data is partially lost:

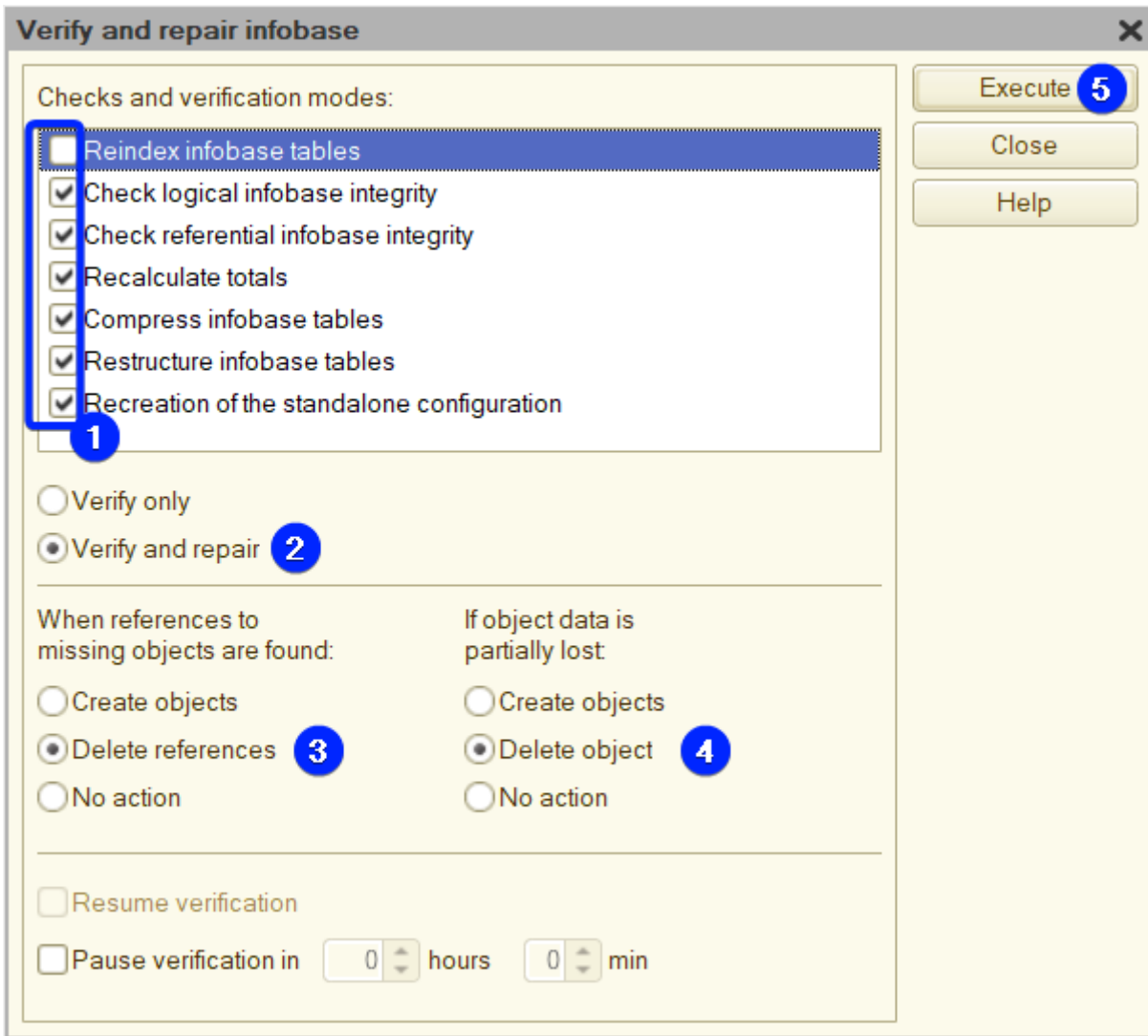
- Create objects
- Delete object
- No action

Resume verification

Pause verification in hours min

Execute Close Help

1-6. Step 5 (file mode)



1-6. Step 5 (server mode)

→ Step 6.

Restart the application once the procedure has been completed.

1-7. How to avoid duplicated user sessions?

This content is not available in the sample book.

2. DB

2-1. How to install MS SQL Server 2019 Express on Windows Server 2022?

This content is not available in the sample book.

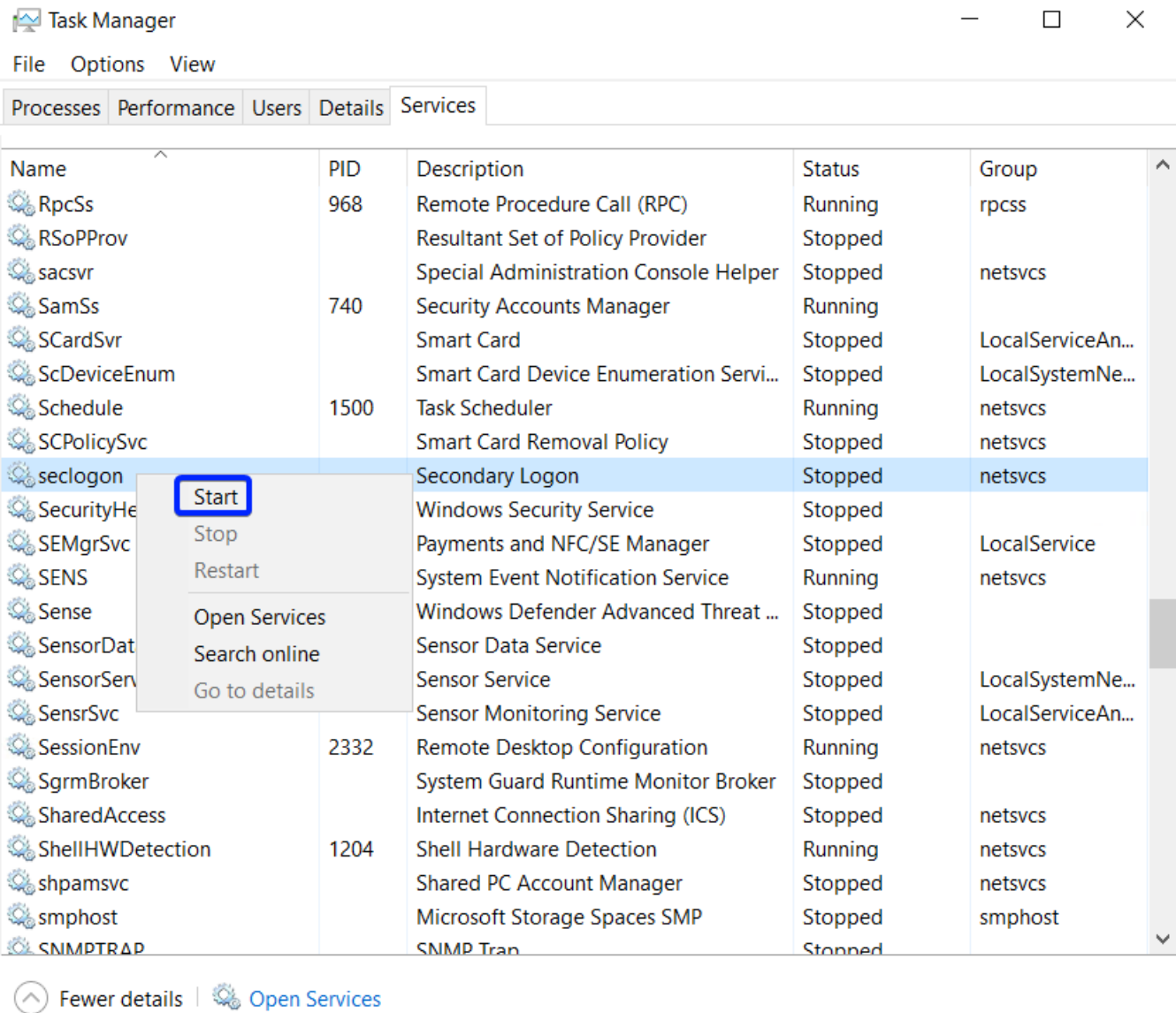
2-2. How to install PostgreSQL 15 from 1C on Windows Server 2022?

2023-03-10

To obtain the installation file, you can contact any of the [1Ci partners](#), or register as a [developer](#), or request it through the [contact form](#) of this book.

→ *Step 1.*

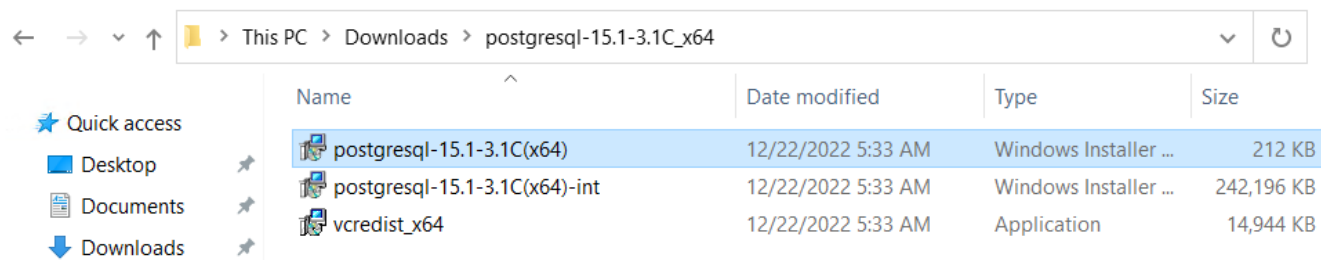
Start the “Secondary Logon” service.



2-2. Step 1

→ Step 2.

Run installation file “postgresql-15.1-3.1C(x64).msi.”



2-2. Step 2

→ Step 3.

- Select the language you want to use during installation.
- Click “Start >.”

Welcome to the PostgreSQL Installation Wizard



Select the language to be used during installation:

English / English

German / Deutsch

Spanish / Español

French / Français

Japanese / JAPAN

Brazilian Portuguese / Português - Brasil

Russian / Russian

Swedish / Svenska

Turkish / Türkçe

Ukrainian / Ukrainska

Simplified Chinese / Chinese(PRC)

Write detailed installation log to postgresql-15.1-3.1C.log in the current directory

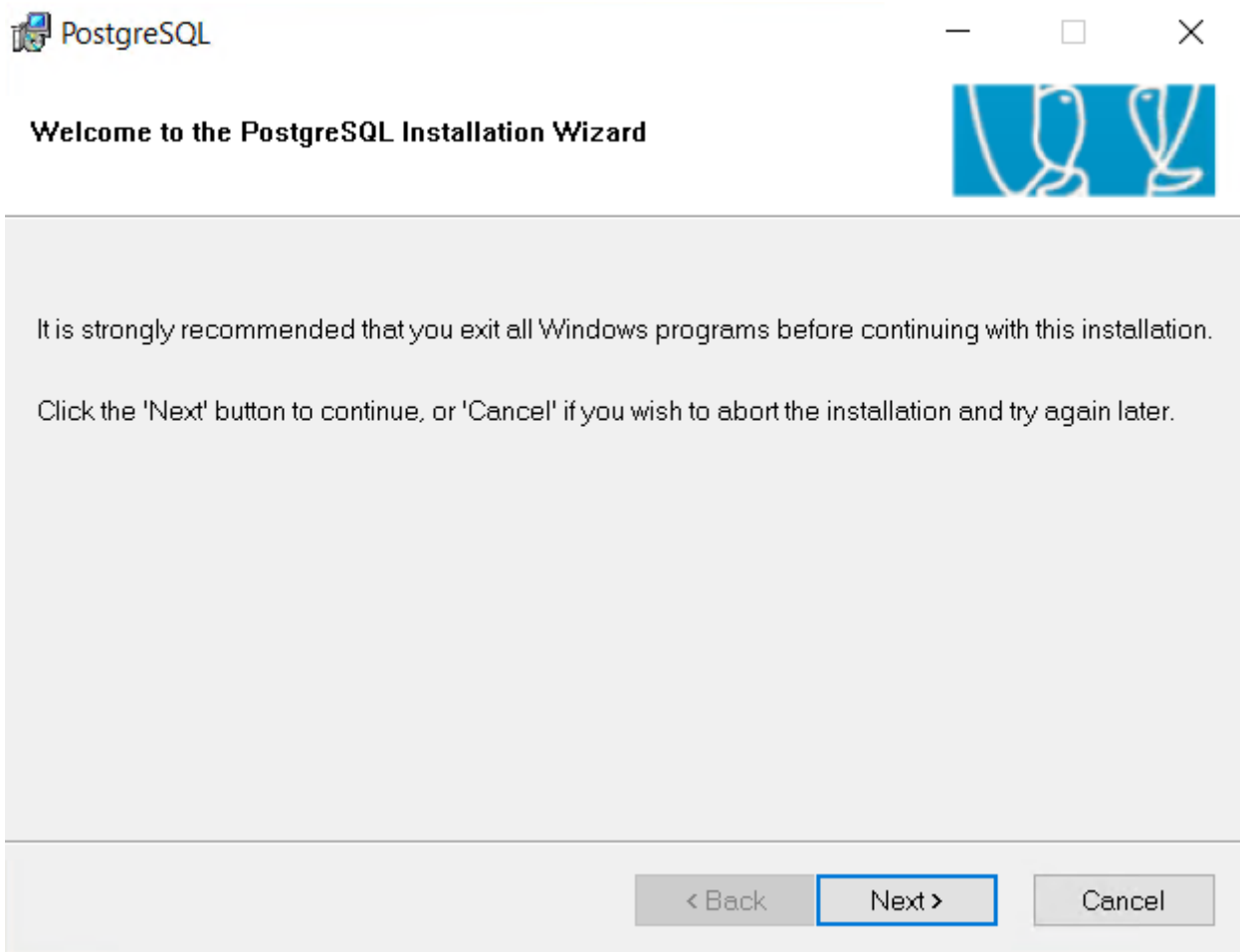
Start >

Cancel

2-2. Step 3

→ Step 4.

- Read the installer's info.
- Click "Next >."



2-2. Step 4

→ Step 5.

- Confirm the location of the program and data files.
- Enable the “Install as a service” option.
- Click “Next >.”

Installation options

Install location:

C:\Program Files\PostgreSQL\15.1-3.1C\

Browse

Database location:

C:\Program Files\PostgreSQL\15.1-3.1C\data\

Browse

 Install as a service

< Back

Next >

Cancel

2-2. Step 5

→ Step 6.

- Enable the “Initialize database cluster” option.
- Set the port number.
- Select the locale of the cluster.
- Set the password for the superuser “postgres”.
- Click “Next >.”

Initialize database cluster

Initialize database cluster

Port number

Locale

This is the internal database username, and not the service account. For security reasons, the password should NOT be the same as the service account.

Password

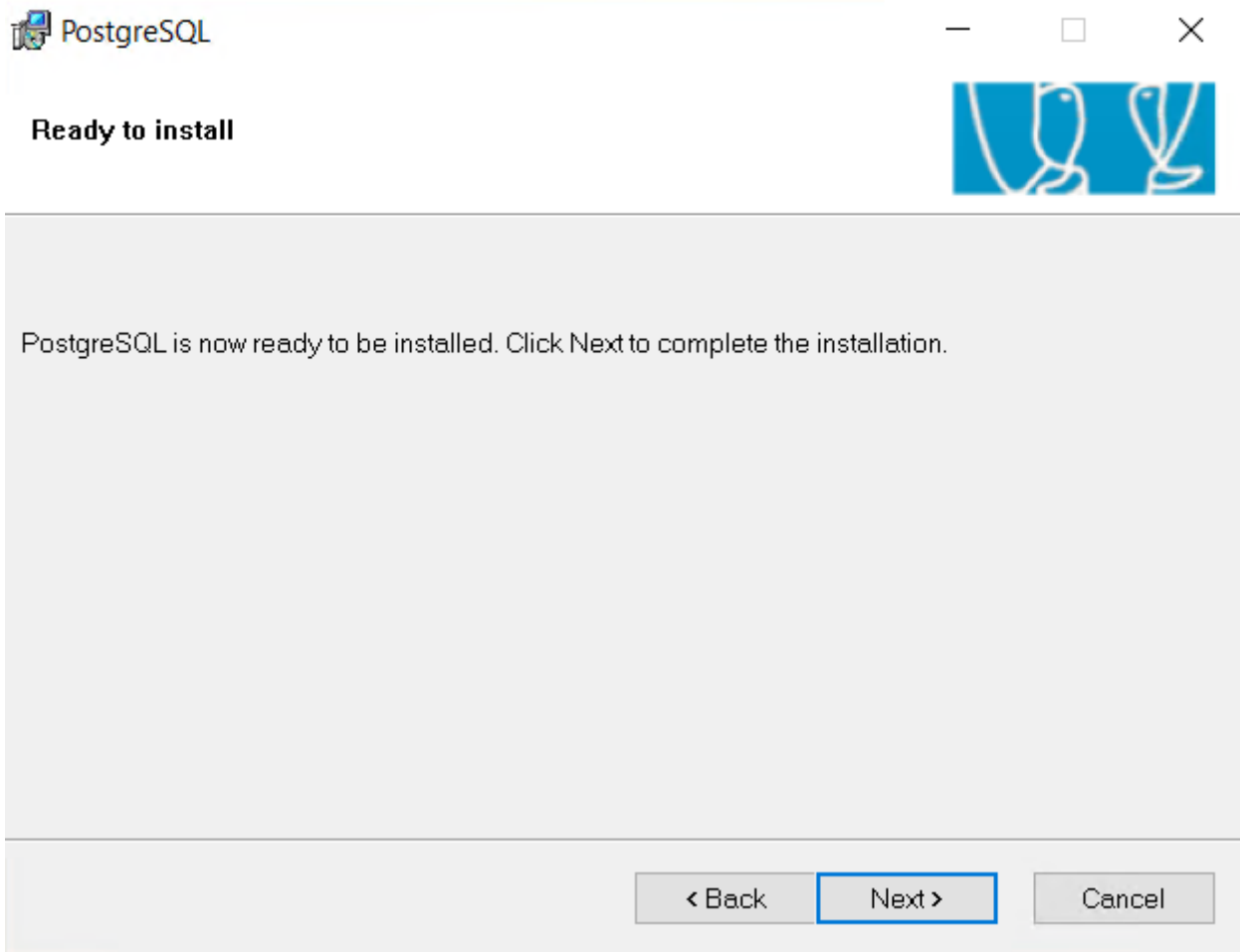
Password (again)

< Back **Next >** Cancel

2-2. Step 6

→ Step 7.

- Make sure everything is ready for installation.
- Click “Next >.”



2-2. Step 7

→ Step 8.

- Ensure that the installation has been carried out correctly.
- Disable the “Launch Stack Builder at exit” option to not install the additional components.
- Click “Finish.”

Installation complete!

Congratulations, PostgreSQL has been successfully installed on your system.

To complement your PostgreSQL installation with additional drivers, modules and other software, the Stack Builder may be run at any time.

Launch Stack Builder at exit

Click the finish button to exit from the installer.

< Back

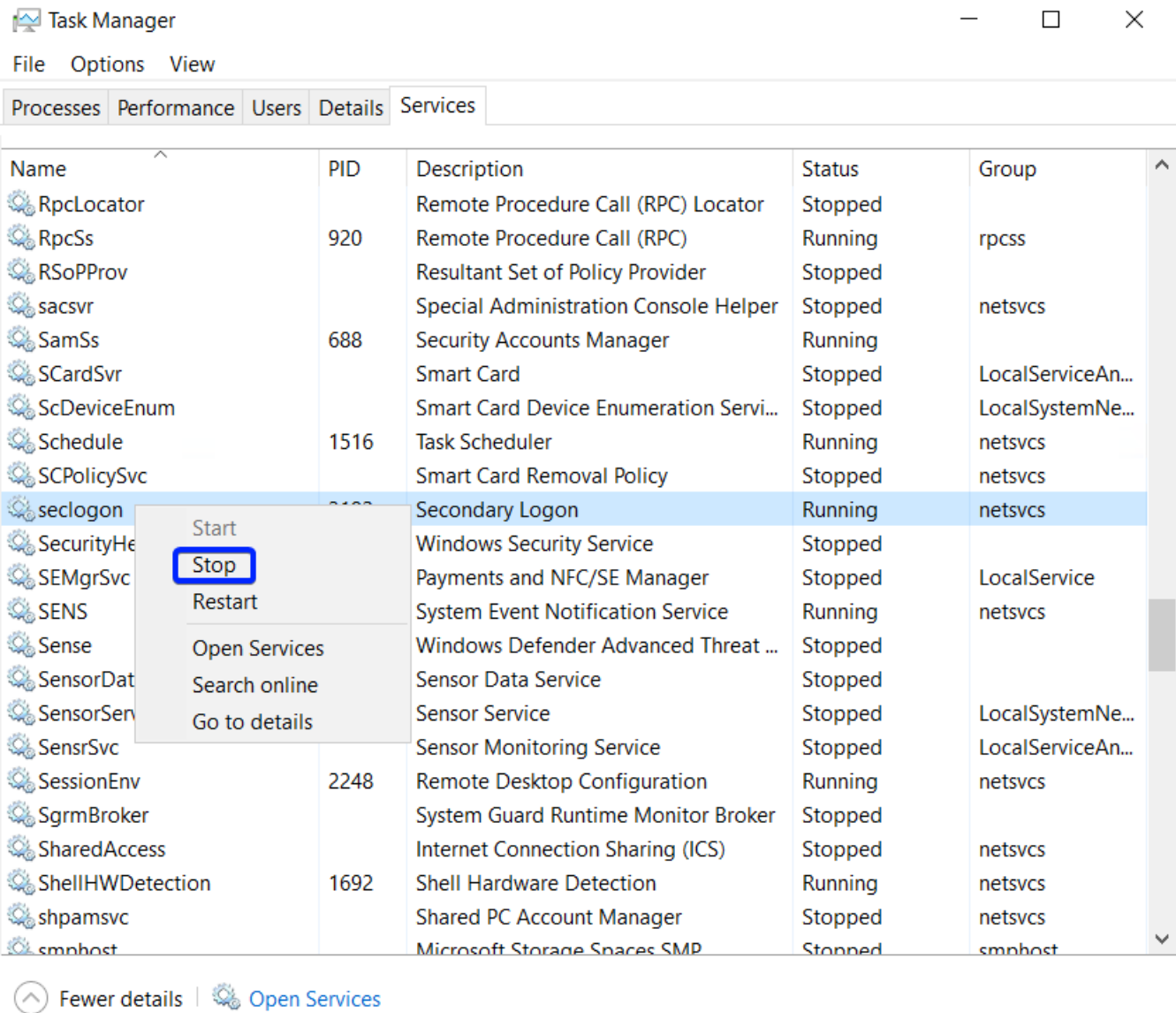
Finish

Cancel

2-2. Step 8

→ Step 9.

Stop “Secondary Logon” service.



2-2. Step 9

2-3. How to install PostgreSQL 15 from PostgresPro (recommended) on Windows Server 2022?

This content is not available in the sample book.

2-4. How to configure PostgreSQL 15 to improve performance on Windows Server 2022 with 16 GB RAM and NVMe?

This content is not available in the sample book.

2-5. How to make a simple database backup and restore on Windows Server 2022 with MS SQL Server 2019 Express?

This content is not available in the sample book.

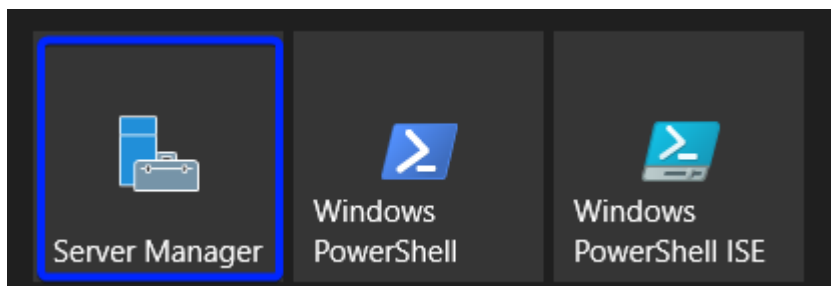
3. Web

3-1. How to install an IIS web server on Windows Server 2022?

2023-03-11

→ Step 1.

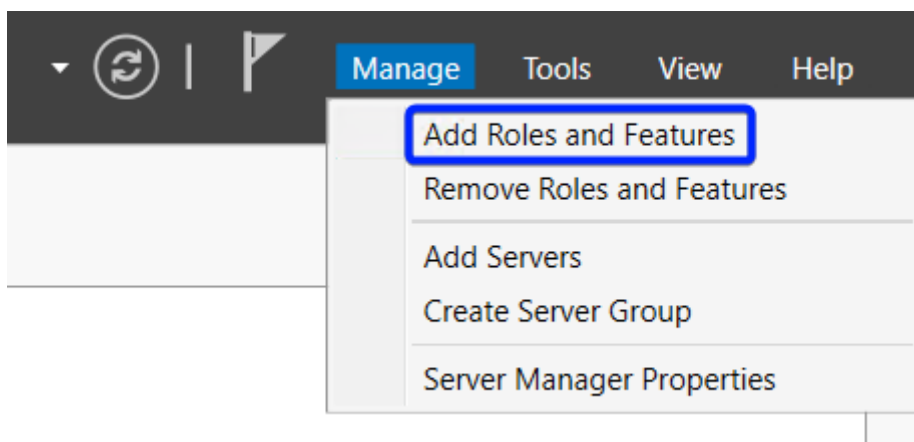
Open “Server Manager.”



3-1. Step 1

→ Step 2.

Activate menu “Manage” > “Add Roles and Features.”



3-1. Step 2

→ Step 3.

Read information message and click “Next.”

Before you begin

DESTINATION SERVER
WH5-SEC**Before You Begin**

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.

To remove roles, role services, or features:
[Start the Remove Roles and Features Wizard](#)

Before you continue, verify that the following tasks have been completed:

- The Administrator account has a strong password
- Network settings, such as static IP addresses, are configured
- The most current security updates from Windows Update are installed

If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.

To continue, click Next.

Skip this page by default

< Previous

Next >

Install

Cancel

3-1. Step 3

→ Step 4.

1. Enable the “Role-based or feature-based installation” option.
2. Click “Next.”

Select installation type

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

 Role-based or feature-based installation

Configure a single server by adding roles, role services, and features.

 Remote Desktop Services installation

Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

< Previous

Next >

Install

Cancel

3-1. Step 4→ *Step 5.*

1. Enable the “Select a server from the server pool” option.
2. Select current server.
3. Click “Next.”

Select destination server

DESTINATION SERVER
WH5-SEC

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select a server or a virtual hard disk on which to install roles and features.

- Select a server from the server pool **1**
- Select a virtual hard disk

Server Pool

Filter:

Name	IP Address	Operating System
2 WH5-SEC		Microsoft Windows Server 2022 Datacenter

1 Computer(s) found

This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

< Previous

Next > **3**

Install

Cancel

3-1. Step 5→ *Step 6.*

Enable the “Web Server (IIS)” option.

Select server roles

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Select one or more roles to install on the selected server.

Roles

- Active Directory Certificate Services
- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server
- Fax Server
- ▷ File and Storage Services (1 of 12 installed)
- Host Guardian Service
- Hyper-V
- Network Controller
- Network Policy and Access Services
- Print and Document Services
- Remote Access
- Remote Desktop Services
- Volume Activation Services
- Web Server (IIS)**
- Windows Deployment Services

Description

Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.

< Previous

Next >

Install

Cancel

1

3-1. Step 6

→ Step 7.

Confirm adding “IIS Management Console” (click “Add Features”). Use “IIS Management Console” to manage the IIS web server.

Add features that are required for Web Server (IIS)?

The following tools are required to manage this feature, but do not have to be installed on the same server.

- ▲ Web Server (IIS)
 - ▲ Management Tools
 - [Tools] IIS Management Console

Include management tools (if applicable)

Add Features

Cancel

3-1. Step 7

→ Step 8.

Click “Next.”

Select server roles

DESTINATION SERVER
WH5-SEC

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Web Server Role (IIS)

Role Services

Confirmation

Results

Select one or more roles to install on the selected server.

Roles

- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server
- Fax Server
- File and Storage Services (1 of 12 installed)
- Host Guardian Service
- Hyper-V
- Network Controller
- Network Policy and Access Services
- Print and Document Services
- Remote Access
- Remote Desktop Services
- Volume Activation Services
- Web Server (IIS)
- Windows Deployment Services
- Windows Server Update Services

Description

Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.

< Previous

Next >

Install

Cancel

3-1. Step 8

→ Step 9.

Click “Next.”

Select features

- Before You Begin
- Installation Type
- Server Selection
- Server Roles
- Features**
- Web Server Role (IIS)
 - Role Services
- Confirmation
- Results

Select one or more features to install on the selected server.

Features

- .NET Framework 3.5 Features
- .NET Framework 4.8 Features (2 of 7 installed)
- Background Intelligent Transfer Service (BITS)
- BitLocker Drive Encryption
- BitLocker Network Unlock
- BranchCache
- Client for NFS
- Containers
- Data Center Bridging
- Direct Play
- Enhanced Storage
- Failover Clustering
- Group Policy Management
- Host Guardian Hyper-V Support
- I/O Quality of Service
- IIS Hostable Web Core
- Internet Printing Client
- IP Address Management (IPAM) Server
- LPR Port Monitor

Description

.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.

< Previous

Next >

Install

Cancel

3-1. Step 9

→ Step 10.

Read information message and click “Next.”

Web Server Role (IIS)

DESTINATION SERVER
WH5-SEC

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results

Web servers are computers that let you share information over the Internet, or through intranets and extranets. The Web Server role includes Internet Information Services (IIS) 10.0 with enhanced security, diagnostic and administration, a unified Web platform that integrates IIS 10.0, ASP.NET, and Windows Communication Foundation.

- The default installation for the Web Server (IIS) role includes the installation of role services that enable you to serve static content, make minor customizations (such as default documents and HTTP errors), monitor and log server activity, and configure static content compression.

[More information about Web Server IIS](#)

< Previous

Next >

Install

Cancel

3-1. Step 10

→ Step 11.

Activate services necessary for the operation of the IIS web server.

Select role services

DESTINATION SERVER
WH5-SEC

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results

Select the role services to install for Web Server (IIS)

Role services

- Web Server**
 - Common HTTP Features
 - Default Document
 - Directory Browsing
 - HTTP Errors
 - Static Content
 - HTTP Redirection
 - WebDAV Publishing
 - Health and Diagnostics
 - HTTP Logging
 - Custom Logging
 - Logging Tools
 - ODBC Logging
 - Request Monitor
 - Tracing
 - Performance
 - Static Content Compression
 - Dynamic Content Compression
 - Security

Description

Web Server provides support for HTML Web sites and optional support for ASP.NET, ASP, and Web server extensions. You can use the Web Server to host an internal or external Web site or to provide an environment for developers to create Web-based applications.

< Previous

Next >

Install

Cancel

3-1. Step 11a

Select role services

DESTINATION SERVER
WH5-SEC

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results

Select the role services to install for Web Server (IIS)

Role services

<input checked="" type="checkbox"/> Security	<input checked="" type="checkbox"/> Request Filtering
<input type="checkbox"/> Basic Authentication	<input type="checkbox"/> Centralized SSL Certificate Support
<input type="checkbox"/> Client Certificate Mapping Authentication	<input type="checkbox"/> Digest Authentication
<input type="checkbox"/> IIS Client Certificate Mapping Authentication	<input type="checkbox"/> IP and Domain Restrictions
<input type="checkbox"/> URL Authorization	<input type="checkbox"/> Windows Authentication
<input type="checkbox"/> Application Development	
<input type="checkbox"/> FTP Server	<input type="checkbox"/> FTP Service
<input type="checkbox"/> FTP Extensibility	
<input checked="" type="checkbox"/> Management Tools	<input checked="" type="checkbox"/> IIS Management Console
<input type="checkbox"/> IIS 6 Management Compatibility	<input type="checkbox"/> IIS Management Scripts and Tools
<input type="checkbox"/> Management Service	

Description

Web Server provides support for HTML Web sites and optional support for ASP.NET, ASP, and Web server extensions. You can use the Web Server to host an internal or external Web site or to provide an environment for developers to create Web-based applications.

< Previous

Next >

Install

Cancel

3-1. Step 11b

→ Step 12.

1. Activate services required for IIS operation with the 1C:Enterprise platform.
2. Click “Next.”

Select role services

DESTINATION SERVER
WH5-SEC

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results

Select the role services to install for Web Server (IIS)

Role services

Application Development 1

- .NET Extensibility 3.5
- .NET Extensibility 4.8
- Application Initialization
- ASP
- ASP.NET 3.5
- ASP.NET 4.8
- CGI
- ISAPI Extensions
- ISAPI Filters
- Server Side Includes
- WebSocket Protocol

FTP Server

- FTP Service
- FTP Extensibility

Management Tools

- IIS Management Console
- IIS 6 Management Compatibility
- IIS Management Scripts and Tools

Description

Application Development provides infrastructure for developing and hosting Web applications. Use these features to create Web content or extend the functionality of IIS. These technologies typically provide a way to perform dynamic operations that result in the creation of HTML output, which IIS then sends to fulfill client requests.

< Previous

Next > 2

Install

Cancel

3-1. Step 12

→ Step 13.

- Verify the configuration of the installation.
- Click “Install.”

Confirm installation selections

DESTINATION SERVER
WH5-SEC

- Before You Begin
- Installation Type
- Server Selection
- Server Roles
- Features
- Web Server Role (IIS)
- Role Services
- Confirmation**
- Results

To install the following roles, role services, or features on selected server, click Install.

Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.

- Web Server (IIS)
 - Management Tools
 - IIS Management Console
 - Web Server
 - Application Development
 - Application Initialization
 - Server Side Includes
 - ISAPI Extensions
 - ISAPI Filters
 - Common HTTP Features
 - Default Document

[Export configuration settings](#)
[Specify an alternate source path](#)

< Previous

Next >

Install

Cancel

3-1. Step 13a

Confirm installation selections

DESTINATION SERVER
WH5-SEC

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Web Server Role (IIS)

Role Services

Confirmation

Results

To install the following roles, role services, or features on selected server, click Install.

Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.

- Common HTTP Features
 - Default Document
 - Directory Browsing
 - HTTP Errors
 - Static Content
- Health and Diagnostics
 - HTTP Logging
- Performance
 - Static Content Compression
- Security

[Export configuration settings](#)
[Specify an alternate source path](#)

< Previous Next > Install Cancel

3-1. Step 13b

Confirm installation selections

DESTINATION SERVER
WH5-SEC

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Web Server Role (IIS)

Role Services

Confirmation

Results

To install the following roles, role services, or features on selected server, click Install.

 Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.

Default Document	^
Directory Browsing	
HTTP Errors	
Static Content	
Health and Diagnostics	
HTTP Logging	
Performance	
Static Content Compression	
Security	
Request Filtering	↓

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[Specify an alternate source path](#)

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Next >

Install

Cancel

3-1. Step 13c

→ Step 14.

1. Ensure that the installation has been carried out successfully.
2. Click “Close.”

Installation progress

DESTINATION SERVER
WH5-SEC

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
 Role Services
Confirmation
Results

View installation progress

Feature installation

1 Installation succeeded on WH5-SEC.

Web Server (IIS)
 Management Tools
 IIS Management Console
 Web Server
 Application Development
 Application Initialization
 Server Side Includes
 ISAPI Extensions
 ISAPI Filters
 Common HTTP Features
 Default Document

1 You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

[Export configuration settings](#)

2 **Close** < Previous Next > Cancel

3-1. Step 14

→ Step 15.

Reboot the computer.

3-2. How to install Apache 2.4 web server on Windows Server 2022?

This content is not available in the sample book.

3-3. How to publish the infobase (file mode) on an IIS web server?

This content is not available in the sample book.

3-4. What to do if the web publication stops working?

This content is not available in the sample book.

3-5. Thin client VS Web-browser, which is better?

2023-03-11

Since browsers are updated frequently and are not guaranteed to work correctly with 1C:Enterprise, using a thin client to work with 1C:Enterprise on the Web is better.