This is revision 1 of the Confirmit Horizons Scan v2020.3.109 Installation Guide, published in March 2020. The information herein describes Confirmit Horizons Scan installation procedures as of Build nr. 2020.3.109. New features may be introduced into the product after this date. Go to www.confirmit.com or check "News" on the Customer Extranet for the latest updates.

What's New in this Revision?

Note: Only the latest changes to this documentation are listed here. Changes made to earlier revisions are listed in the "Changes to the User Documentation" document which can be downloaded from the Confirmit Extranet.

The following changes have been made in revision 1 of the Confirmit Horizons Scan v2020.3.109 Installation Guide:

- No changes have been made. This is the first revision of the document.

Note: The general layout and language in this document is continually being corrected, adjusted and improved to ensure the user has the best possible source of information. Only NEW information and details of functionality that has changed since the previous issue are listed here - minor corrections to the text and document layout are not listed.

Table of Contents

1 New in Confirmit Scan 6: Microsoft Message Queuing Technology

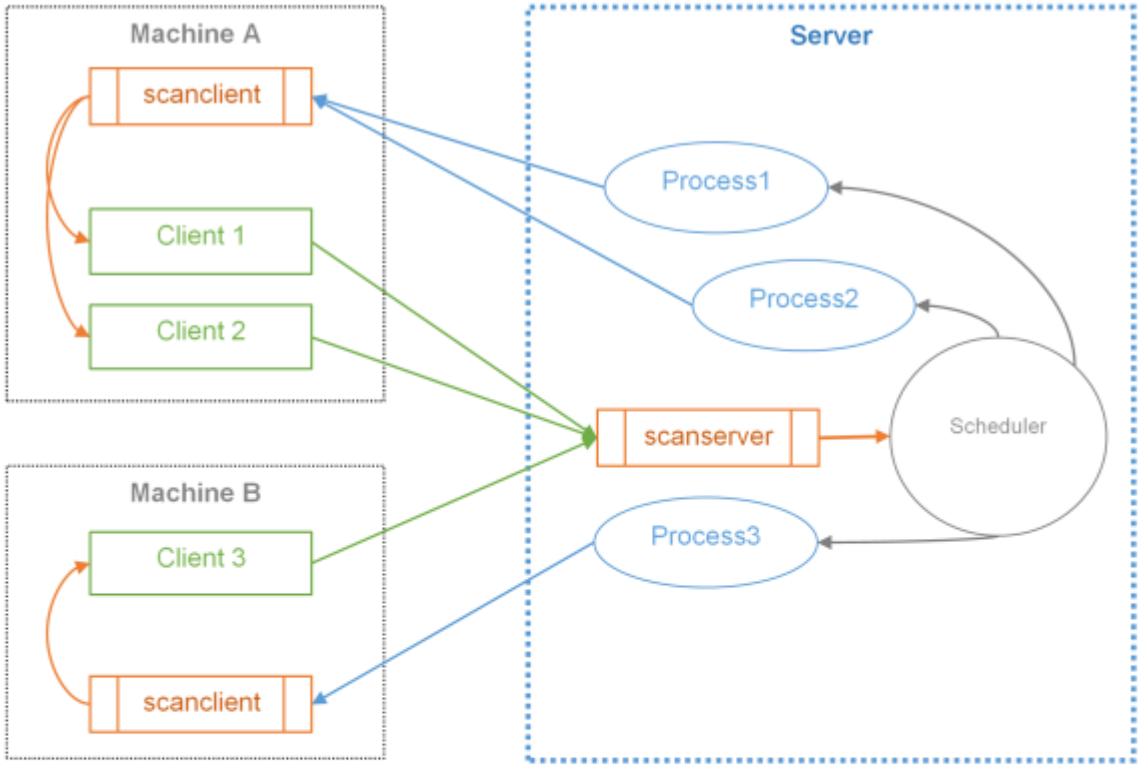
Confirmit Scan 6 introduces a new transport layer which provides reliable, efficient, secure, and asynchronous communication between client applications and a server based on the Microsoft Message Queuing technology.

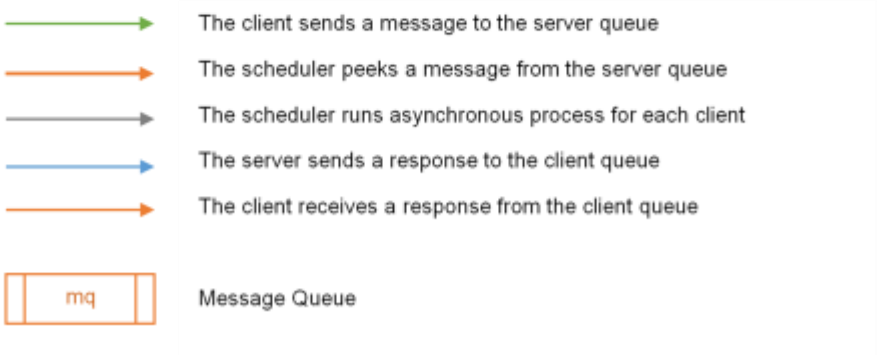
Message Queuing (MSMQ) technology enables applications running at different times to communicate across heterogeneous networks and systems. Message Queuing provides guaranteed message delivery, efficient routing, security, and priority-based messaging. It is used to implement solutions to both asynchronous and synchronous scenarios requiring high performance.

MSMQ applies to: Windows 10, Windows 7, Windows 8, Windows 8.1, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016.

For backward compatibility, Confirmit Scan 6 can still use the legacy TCP/IP transport layer, see Switch Back To Legacy TCP/IP Transport Layer on page 42.

1.1 How it works

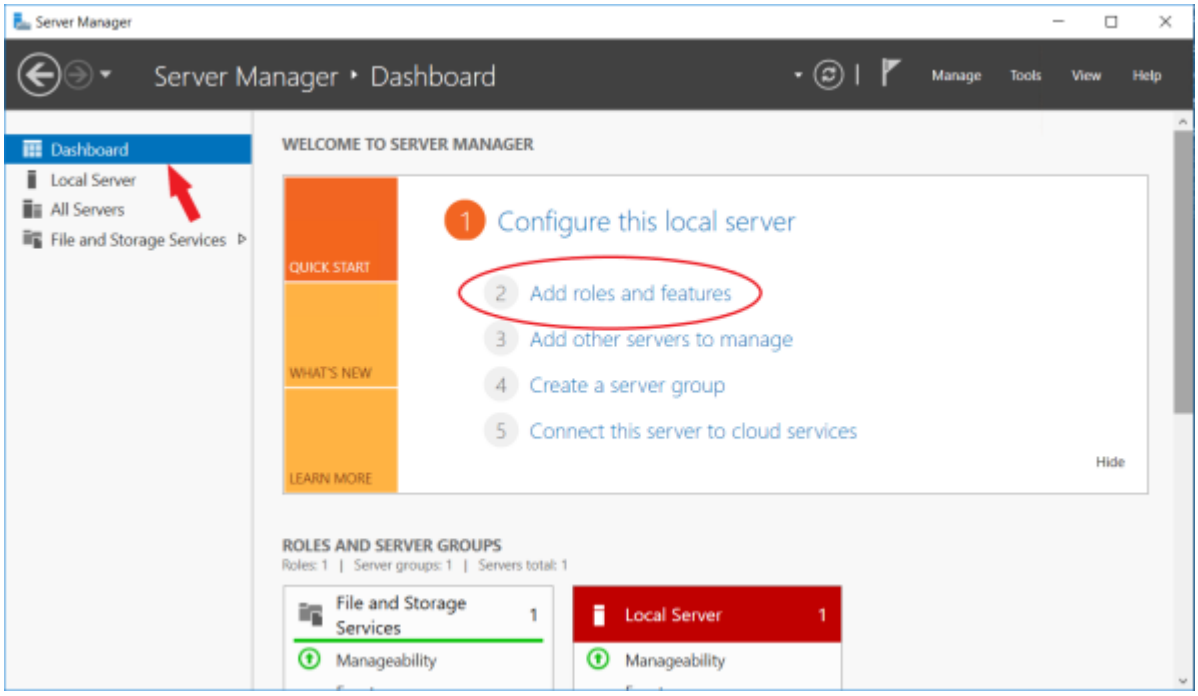




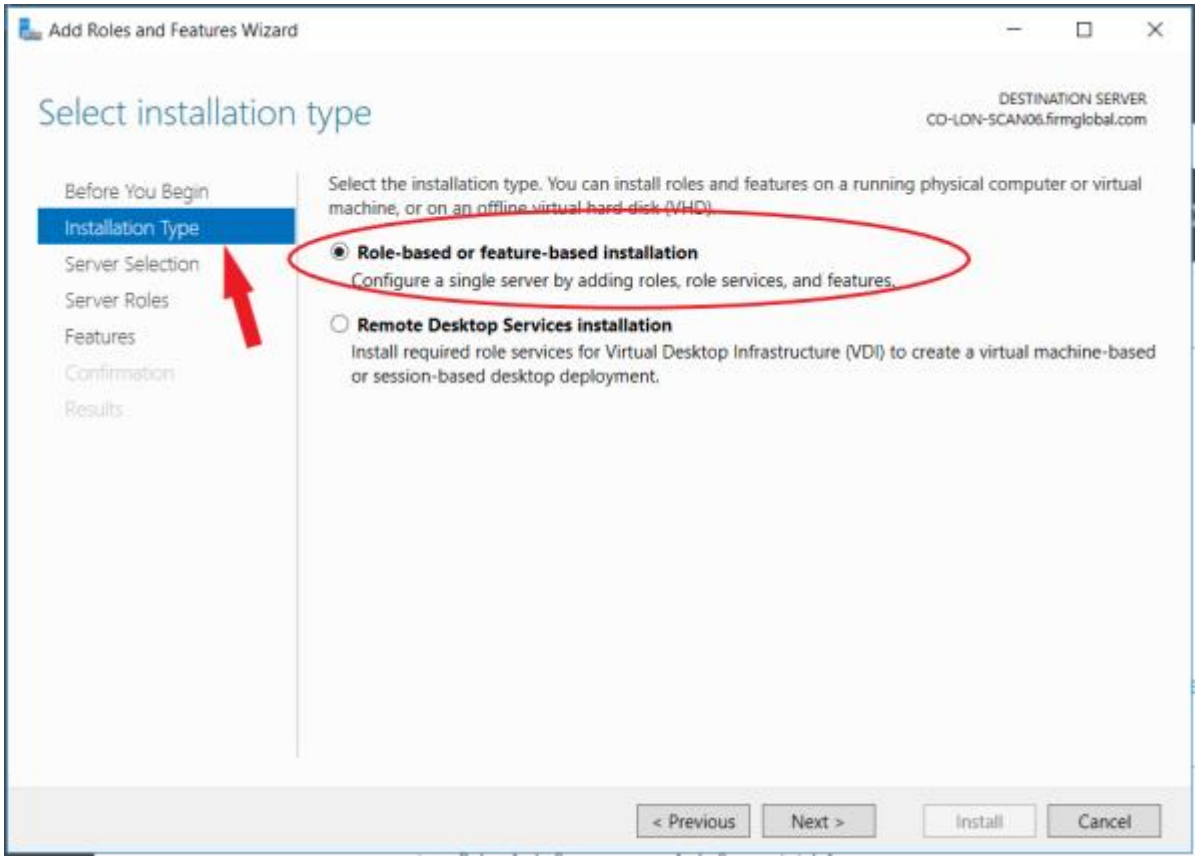
1.2 Install MSMQ on the Microsoft Windows Server 2016

(The same procedure can be applied to earlier Microsoft Windows Server systems).

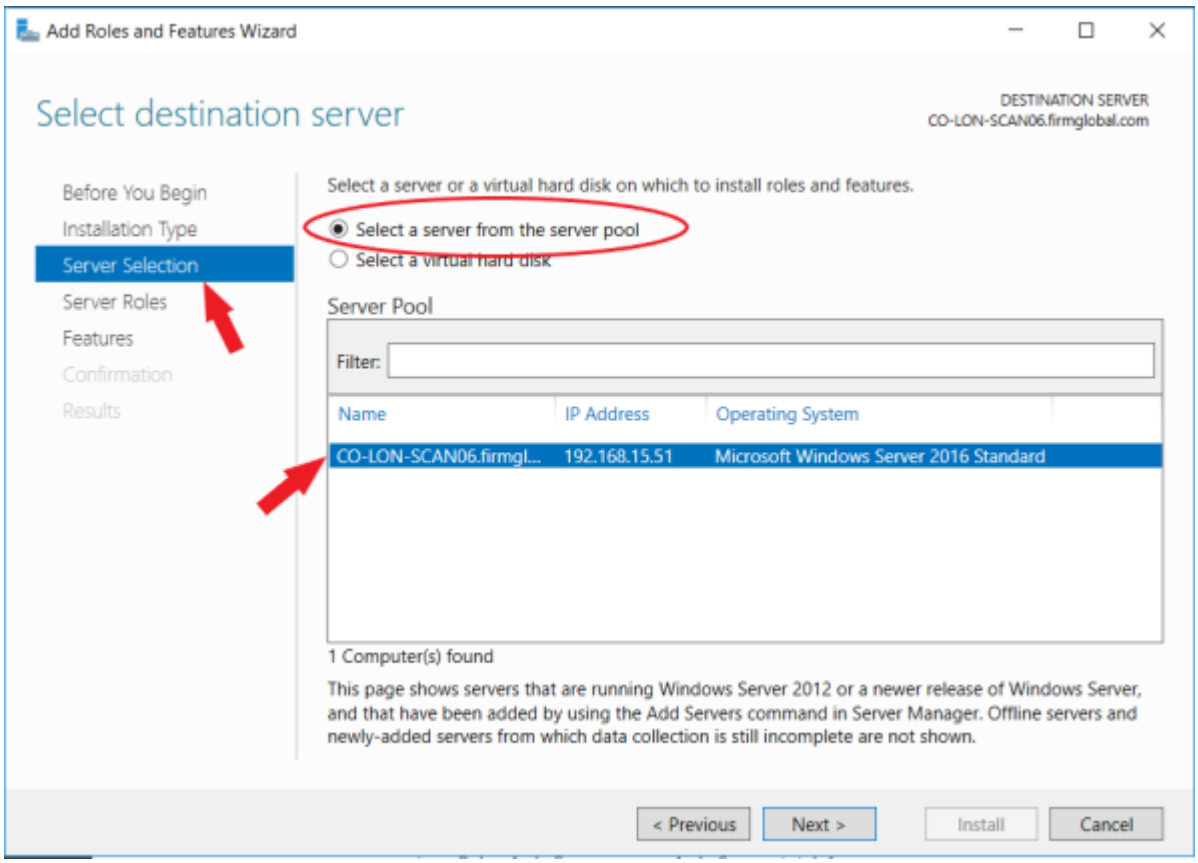
1. Run Server Manager and select ‘Add Roles and features’ in Dashboard:



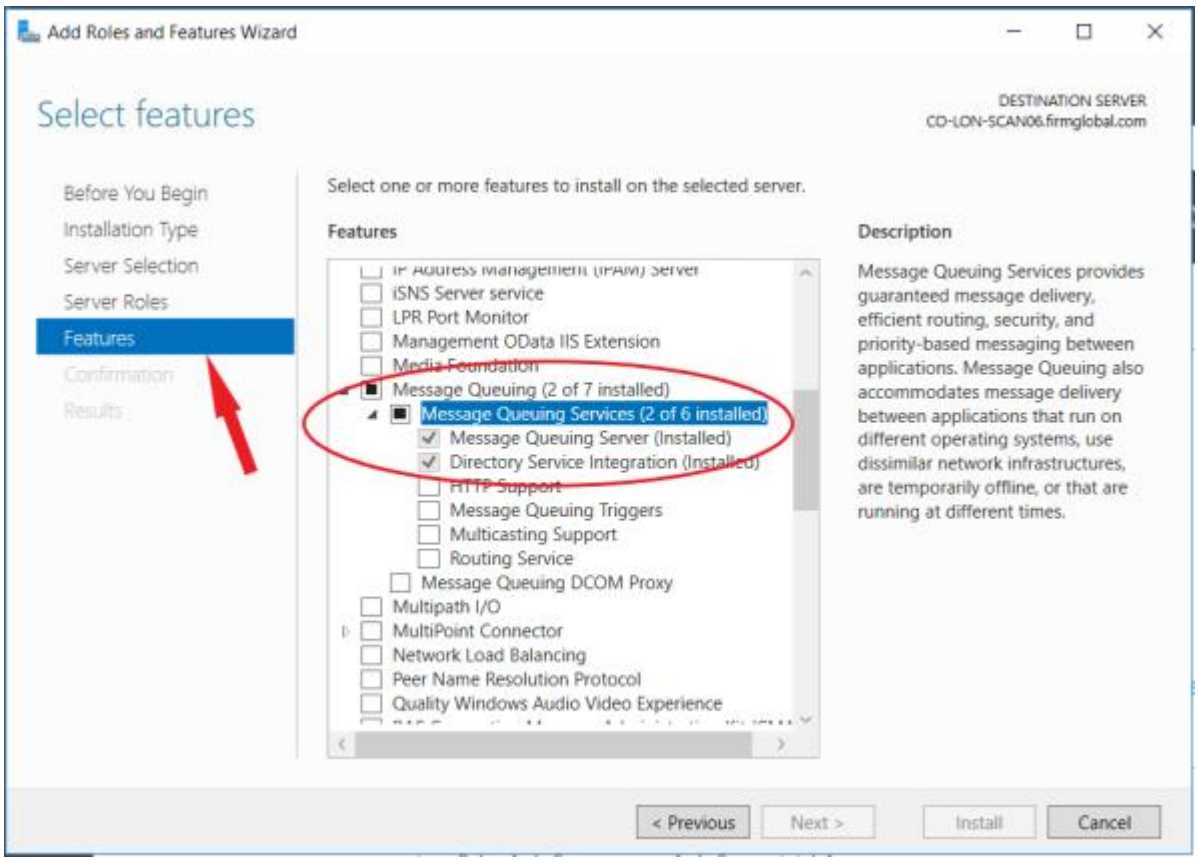
2. In the Installation Type section, select 'Role based or feature based installation', then press 'Next':



3. In the Server Selection section, select a local server, then press 'Next':



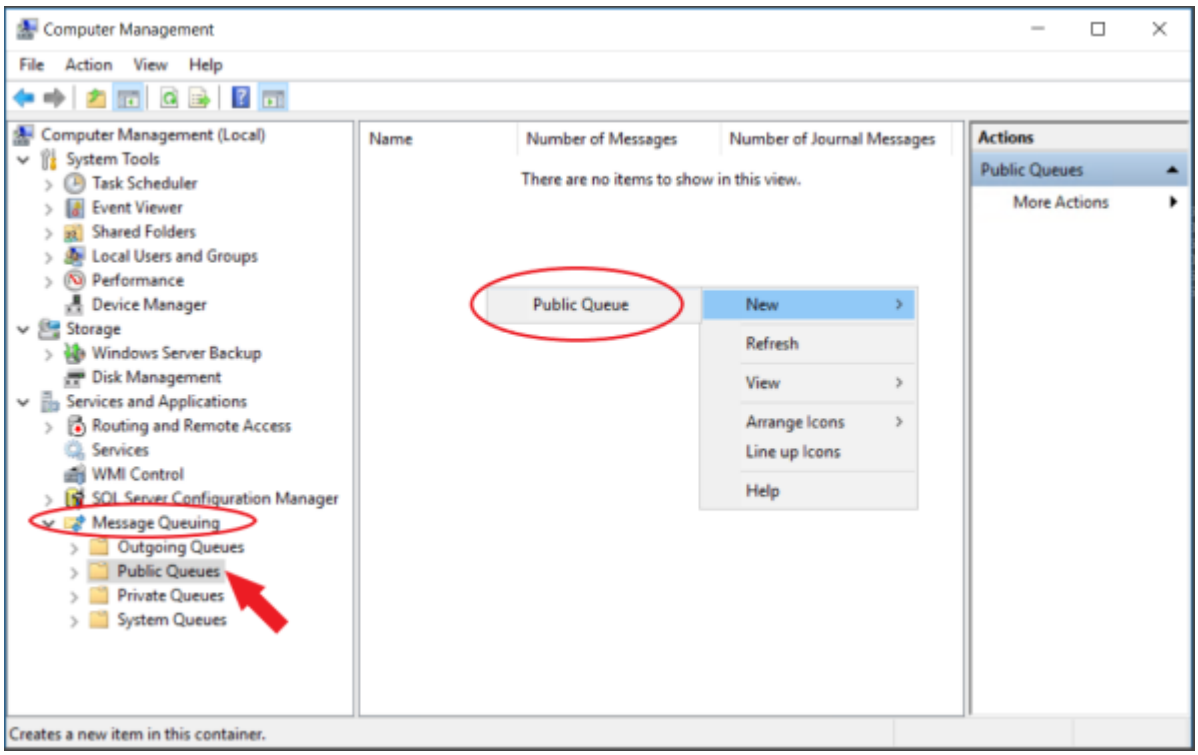
4. In the Features section, select ‘Message Queuing Server’ and ‘Directory Service Integration’ features, then press ‘Install’:



1.3 Create the Message Queue on a server

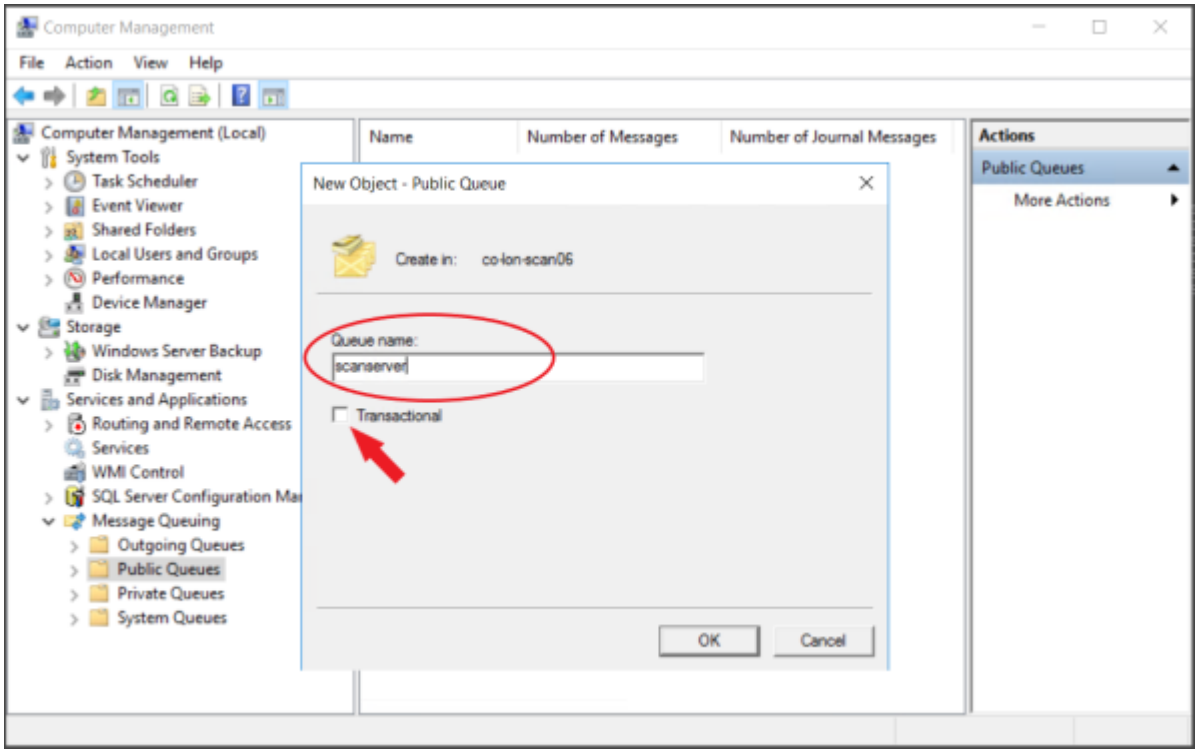
(The same procedure can be applied to earlier Microsoft Windows Server systems).

1. Run Computer Management, expand the Services and Applications > Message Queuing tree, and select the 'Public Queue' item. In the central pane, right-click and select New > Public Queues

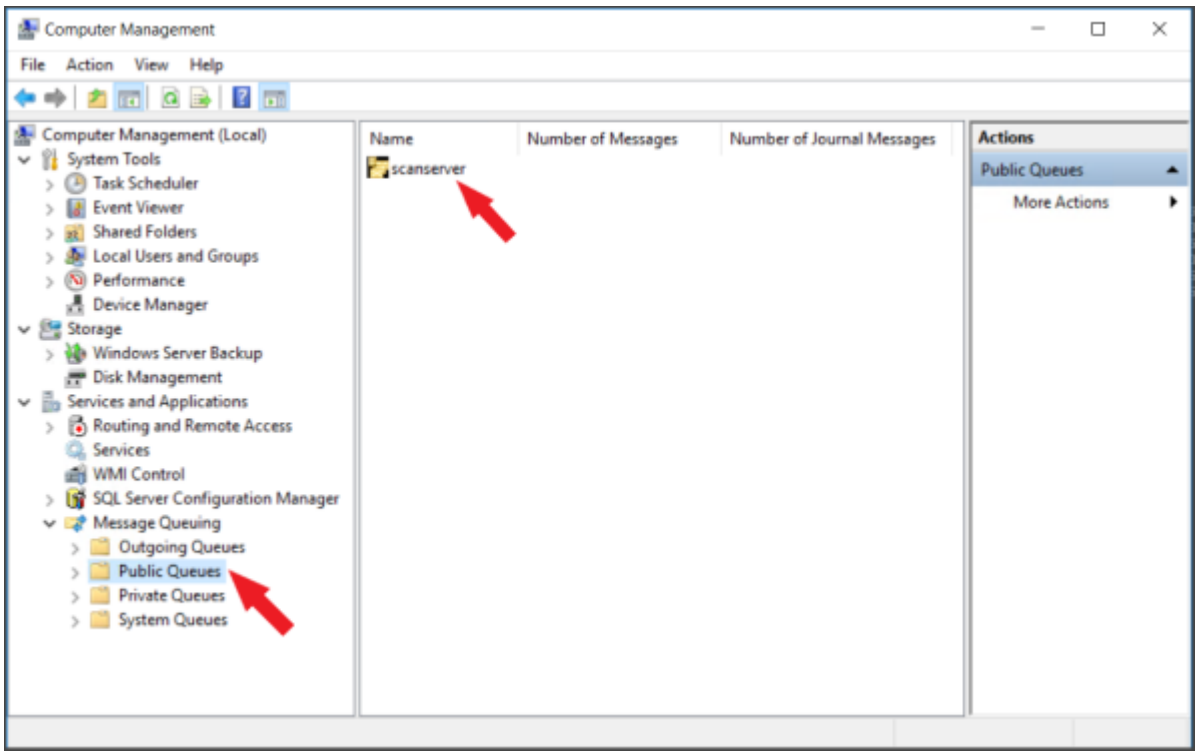


2. In the 'New Object – Public Queue' dialog, enter scanserver as the Queue Name, then press 'OK'.

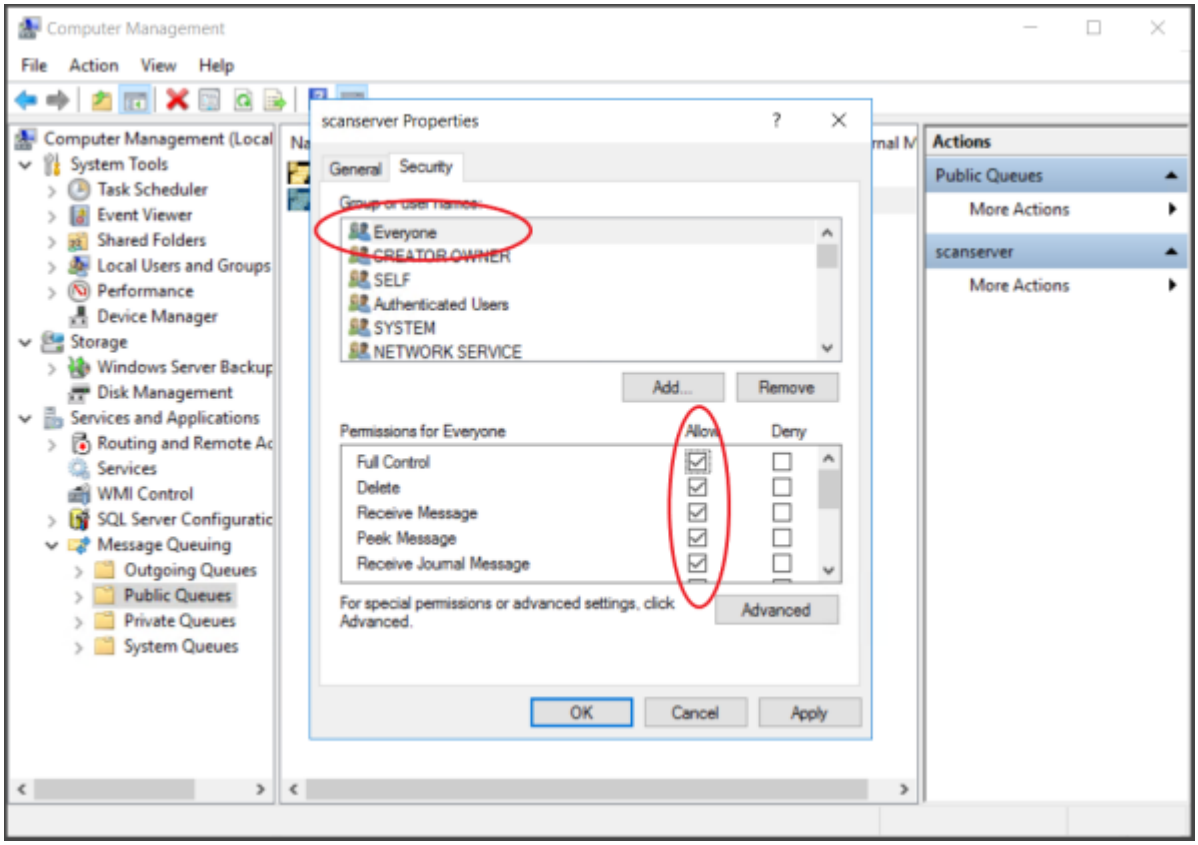
Important: the Transactional checkbox should be unchecked.



3. A newly created scanserver queue should appear in the Public Queue list:



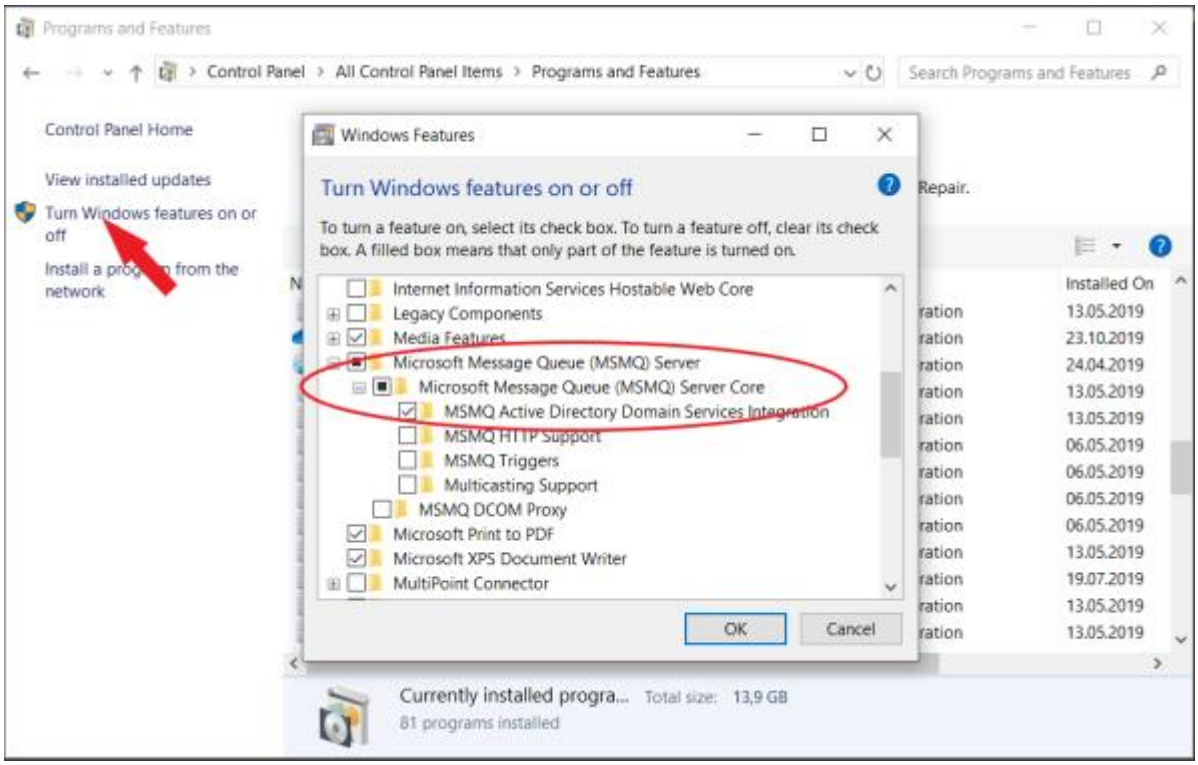
4. Select the scanserver queue, right-mouse click, select Properties > Security and check that the Everyone user has all required permissions:



1.4 Install MSMQ on the Client PC (Windows 10)

(The same procedure can be applied to earlier Microsoft Windows systems).

1. In Control Panel, run Programs and Features, then select 'Turn Windows features on or off'. In the Windows Features list, select 'MSMQ Active Directory Domain Services Integration', then press OK:

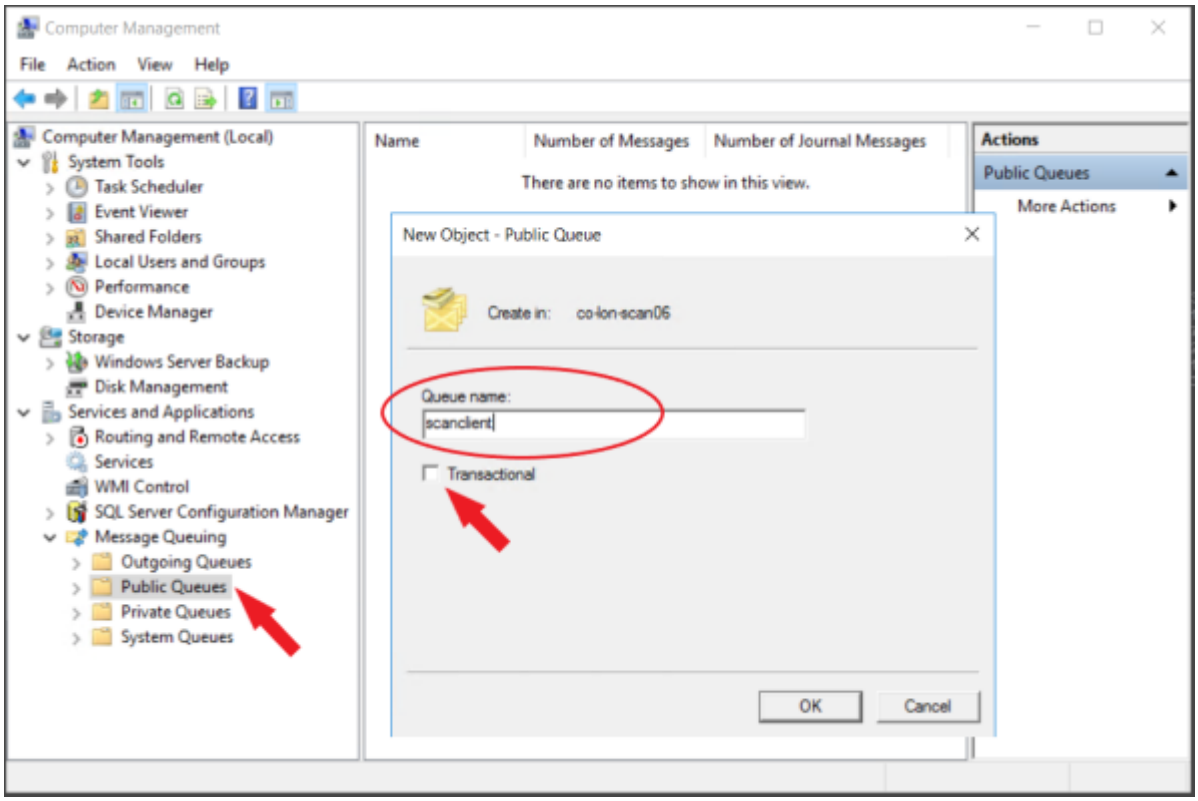


1.5 Create the Message Queue on a Client

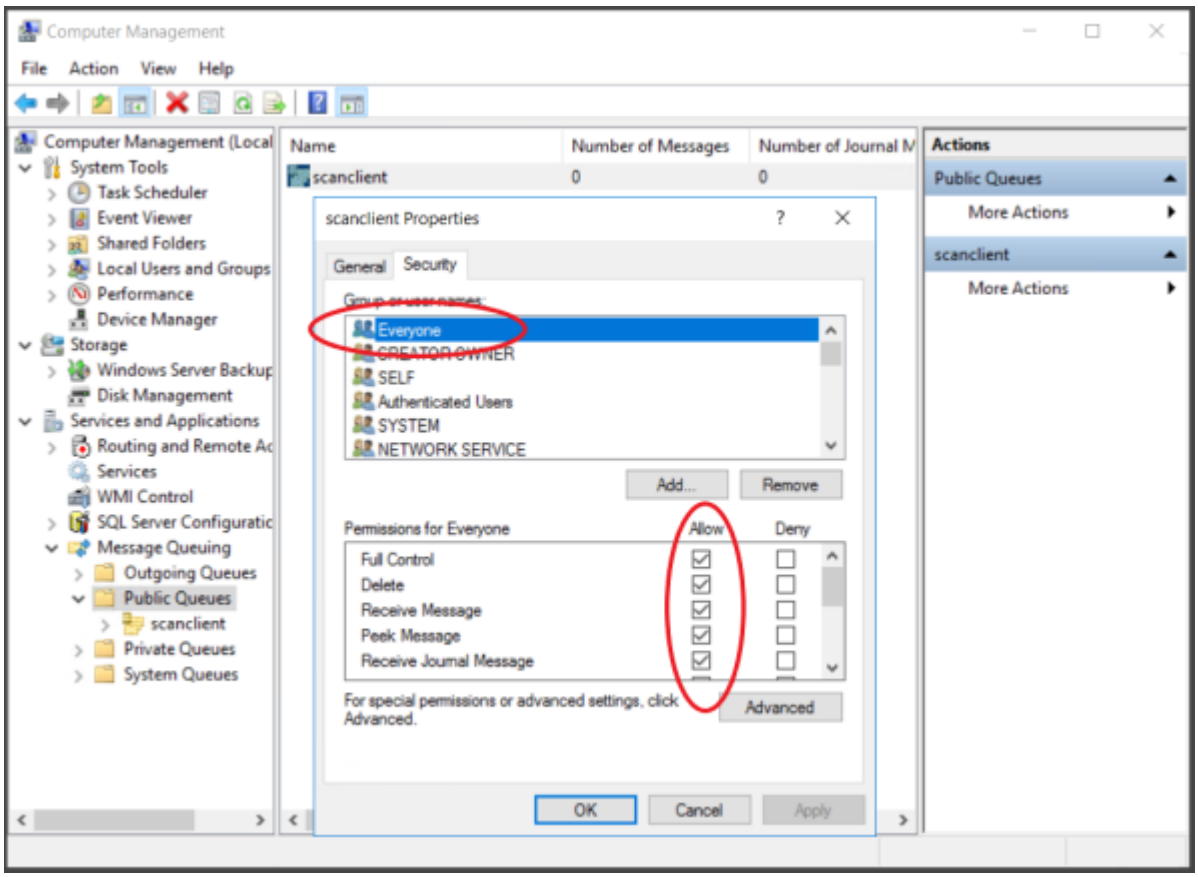
(The same procedure can be applied to earlier Microsoft Windows systems).

1. Run Computer Management, expand the Services and Applications > Message Queuing tree, and select the 'Public Queue' item. In the central pane, right-mouse click and select New > Public Queues. In the 'New Object – Public Queue' dialog, enter scansclient as the Queue Name, then press 'OK'.

Important: the Transactional checkbox should be unchecked.



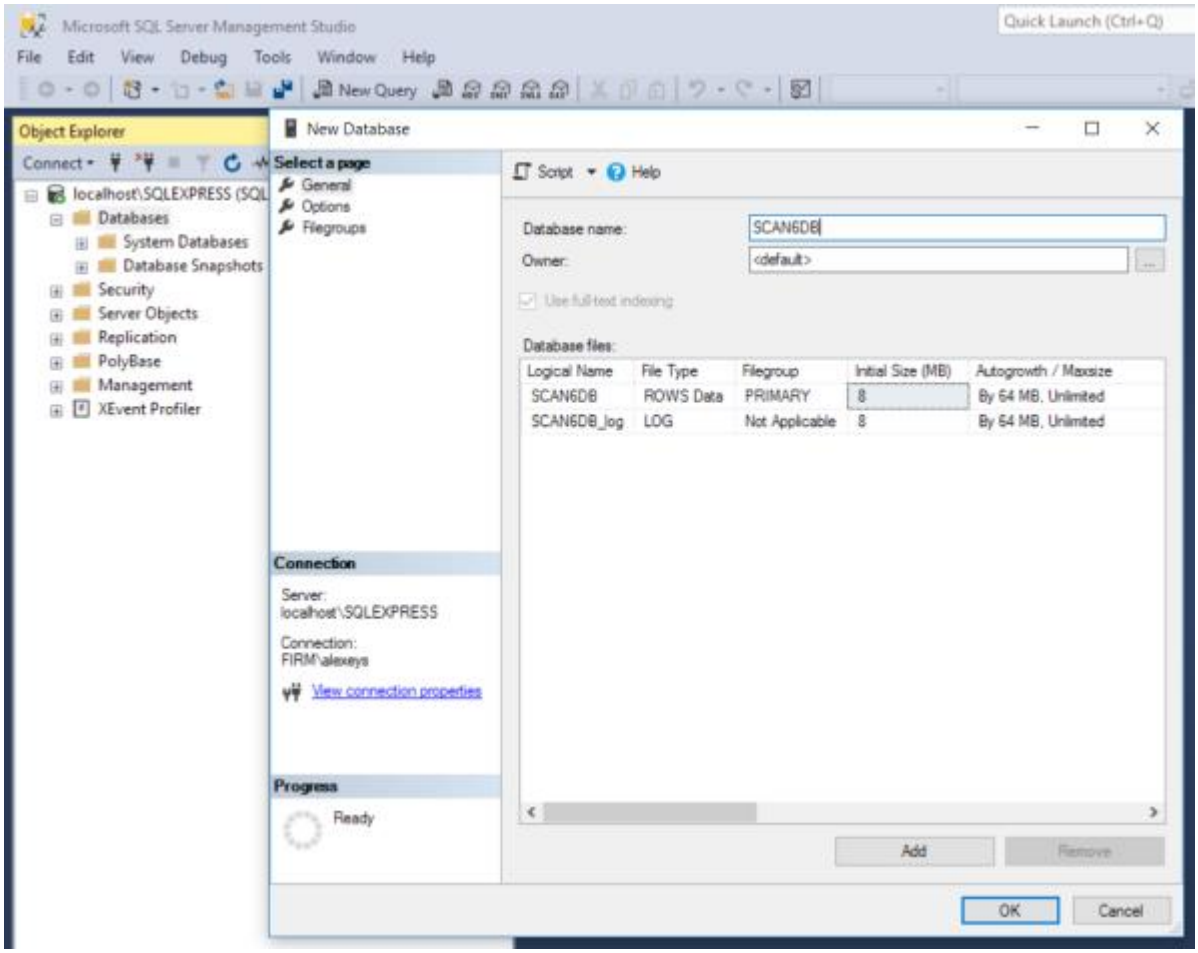
2. Select the scanclient queue, right-mouse click, select Properties > Security and check that the Everyone user has all required permissions:


Computer Management
File Action View Help
Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Performance
Device Manager
Storage
Windows Server Backup
Disk Management
Services and Applications
Routing and Remote Ac
Services
WMI Control
SQL Server Configuratic
Message Queuing
Outgoing Queues
Public Queues
scanclient
Private Queues
System Queues
Name
Number of Messages
Number of Journal M
scanclient
0
0
scanclient Properties
General
Security
Everyone
CREATOR OWNER
SELF
Authenticated Users
SYSTEM
NETWORK SERVICE
Add...
Remove
Permissions for Everyone
Allow
Deny
Full Control
Delete
Receive Message
Peek Message
Receive Journal Message
For special permissions or advanced settings, click Advanced.
Advanced
OK
Cancel
Apply
Actions
Public Queues
More Actions
scanclient
More Actions

2 Server Database Installation

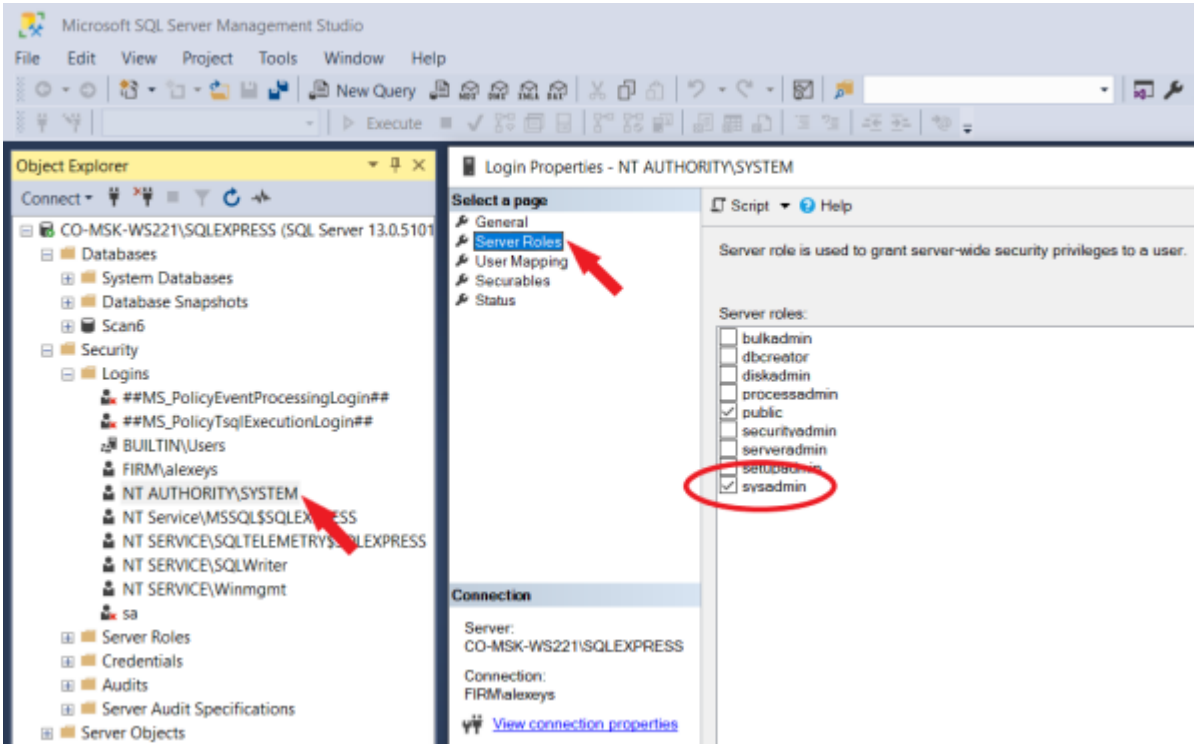
2.1 Create SQL Database

Use MS SQL Server Management Studio to create a database:



2.2 Set Server Roles

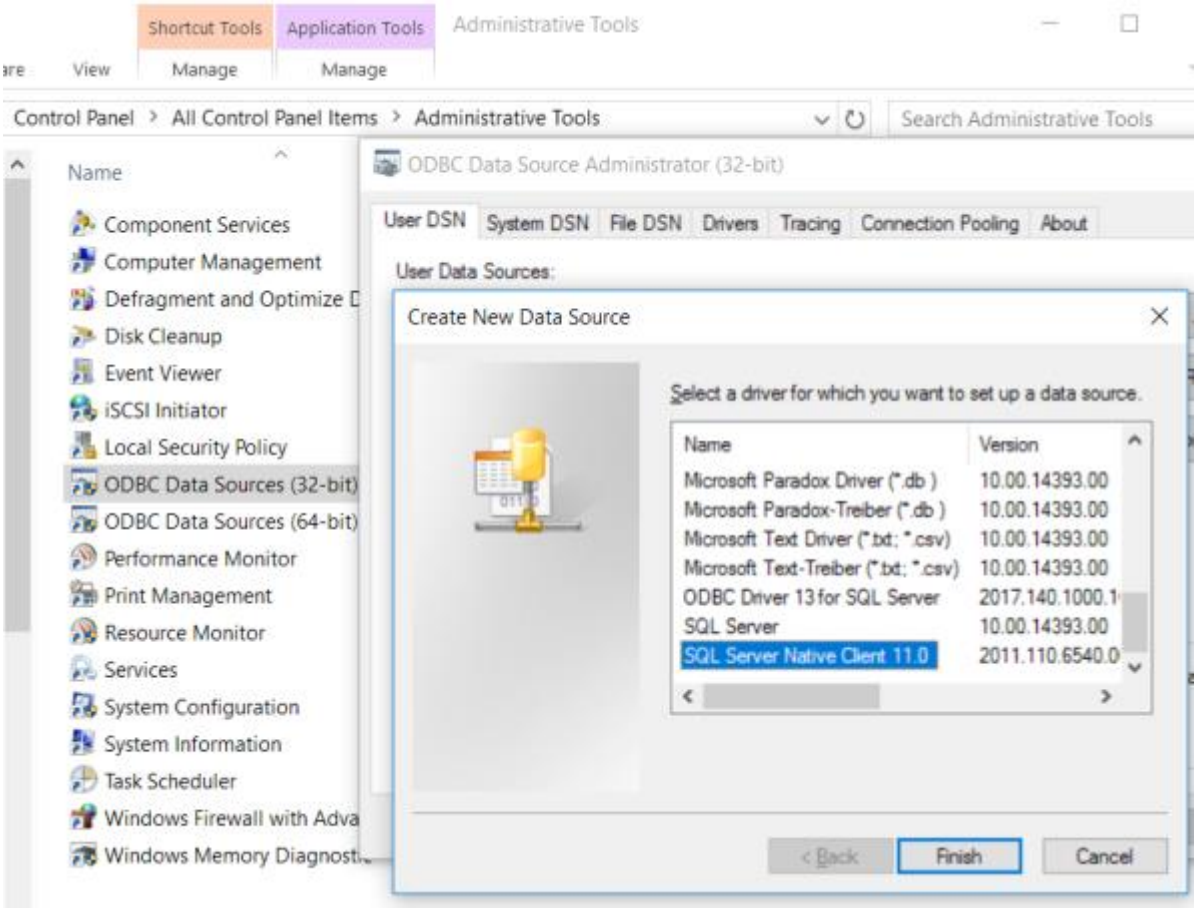
Set the sysadmin Server Role for NT AUTHORITY\SYSTEM service.


Microsoft SQL Server Management Studio
File Edit View Project Tools Window Help
New Query
Execute
Object Explorer
Connect
CO-MSK-WS221\SQLEXPRESS (SQL Server 13.0.5101
Databases
System Databases
Database Snapshots
Scan6
Security
Logins
##MS_PolicyEventProcessingLogin##
##MS_PolicyTsqlExecutionLogin##
BUILTIN\Users
FIRM\alexeys
NT AUTHORITY\SYSTEM
NT Service\MSSQL$SQLEXPRESS
NT SERVICE\SQLTELEMETRY$SQLEXPRESS
NT SERVICE\SQLWriter
NT SERVICE\Winmgmt
sa
Server Roles
Credentials
Audits
Server Audit Specifications
Server Objects
Login Properties - NT AUTHORITY\SYSTEM
Select a page
General
Server Roles
User Mapping
Securables
Status
Script
Help
Server role is used to grant server-wide security privileges to a user.
Server roles:
bulkadmin
dbcreator
diskadmin
processadmin
public
securityadmin
serveradmin
setupadmin
sysadmin
Connection
Server:
CO-MSK-WS221\SQLEXPRESS
Connection:
FIRM\alexeys
View connection properties

3 Server Data Source Setup

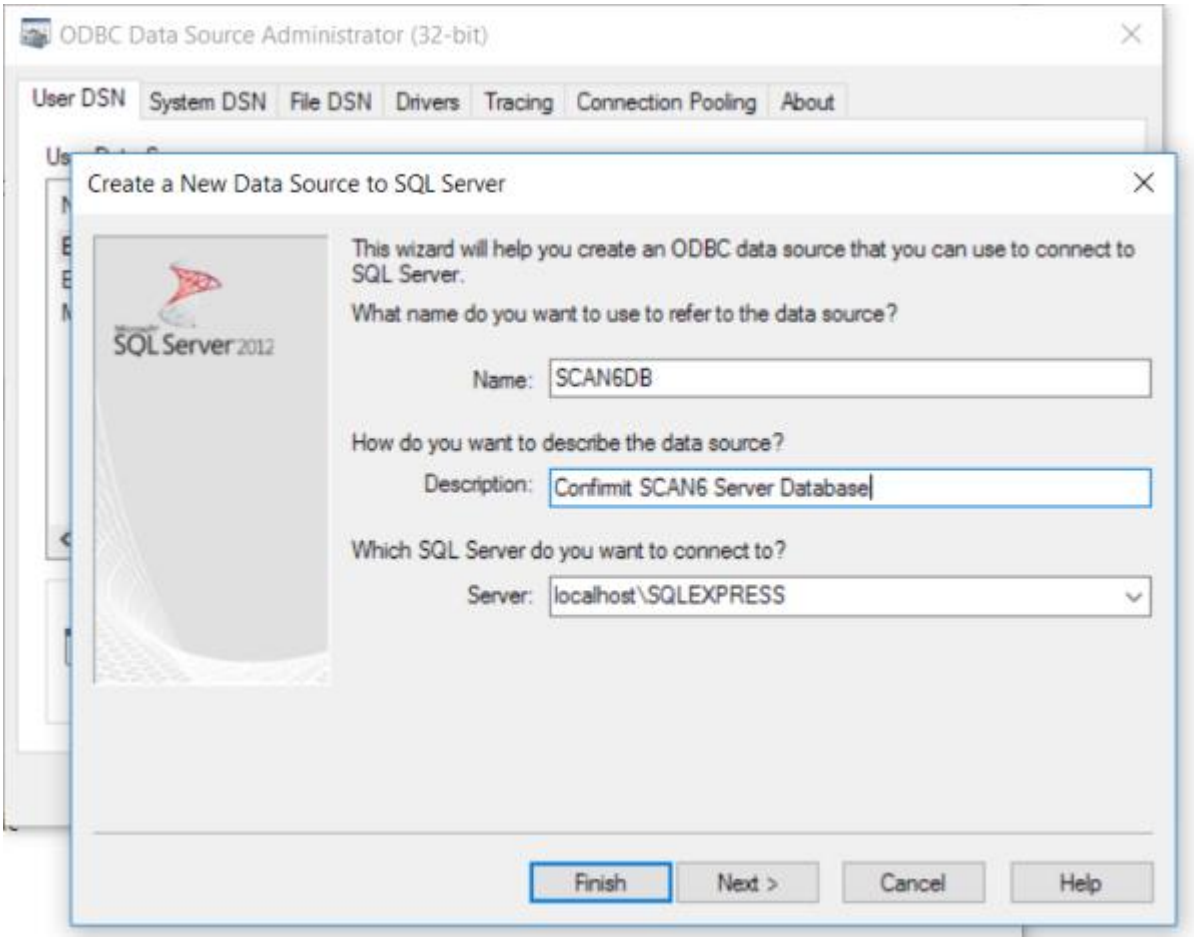
3.1 Select SQL driver

Open Administrative Tools. Please note that a 32-bit version of ODBC Data Sources should be used.

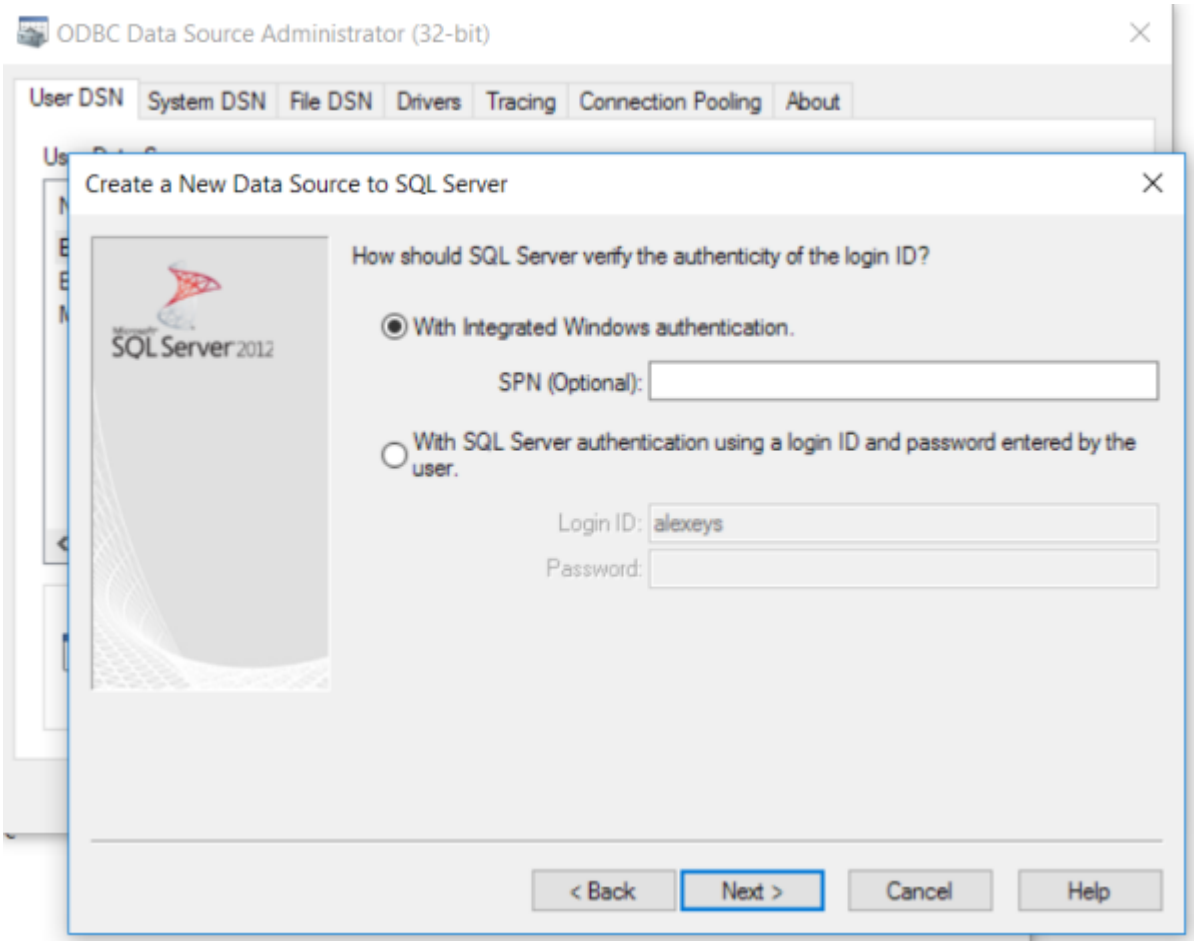


3.2 Create New Data Source

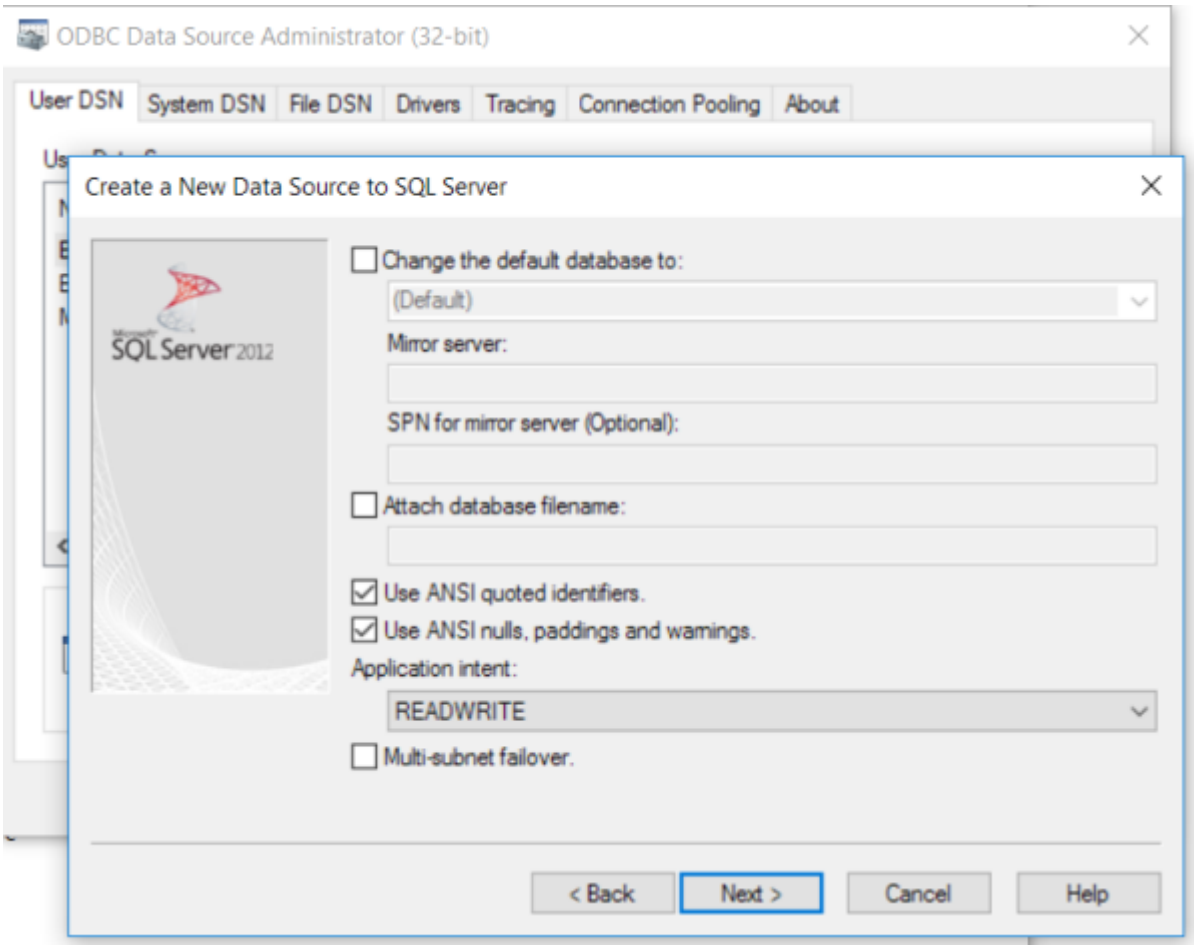
1. Choose (or create a new) Data Source that you will use to connect to SQL Server



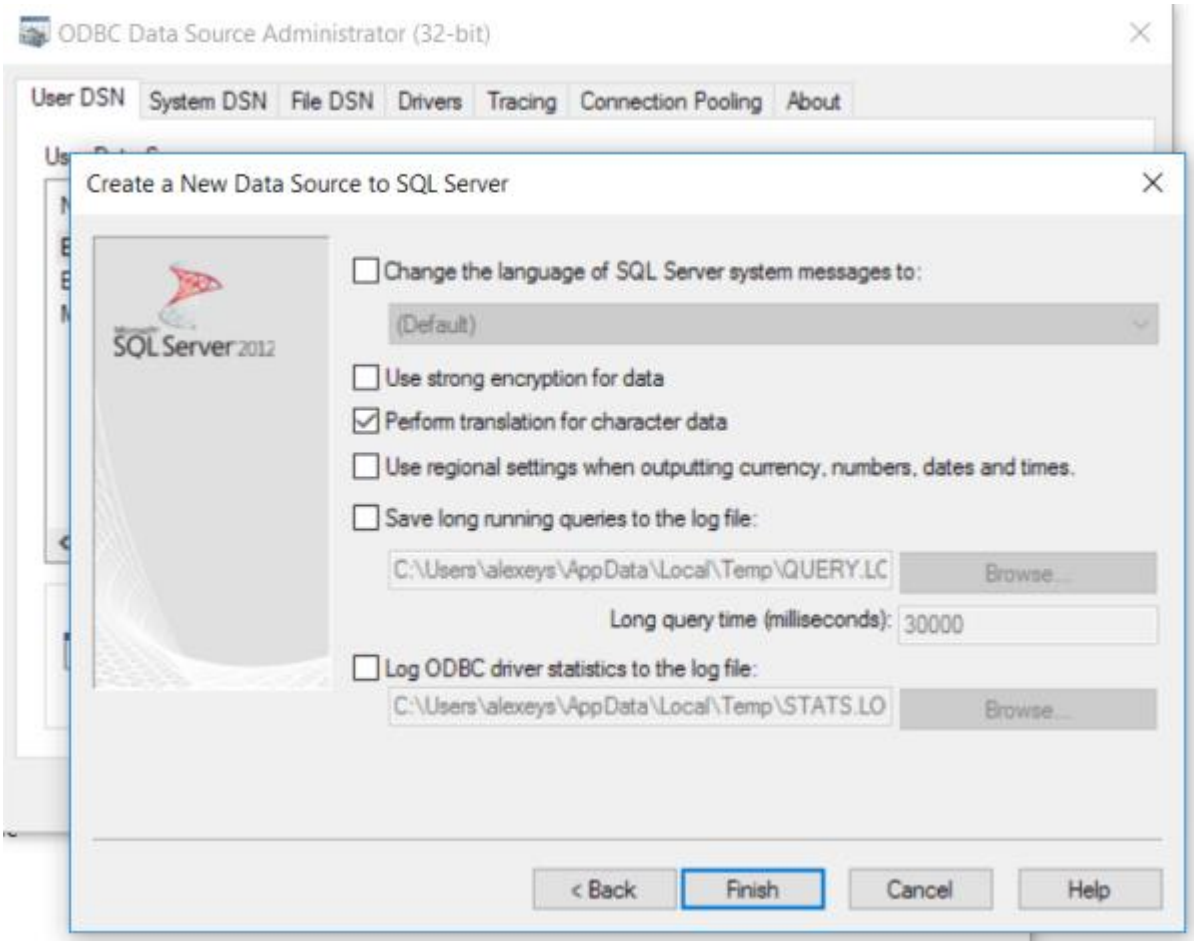
2. Configure the authentication parameters.



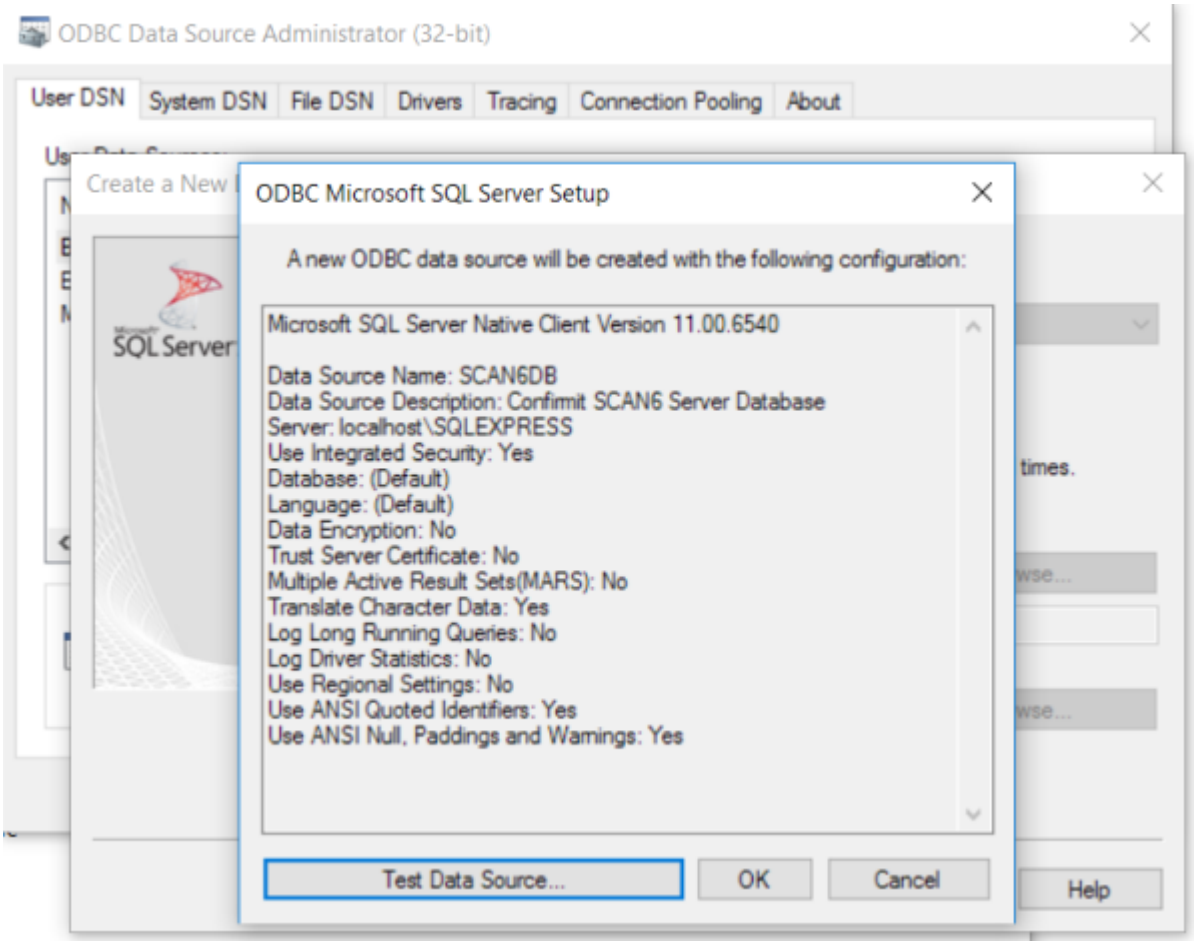
3. Configure the Data Source options using the Step 1 interface.



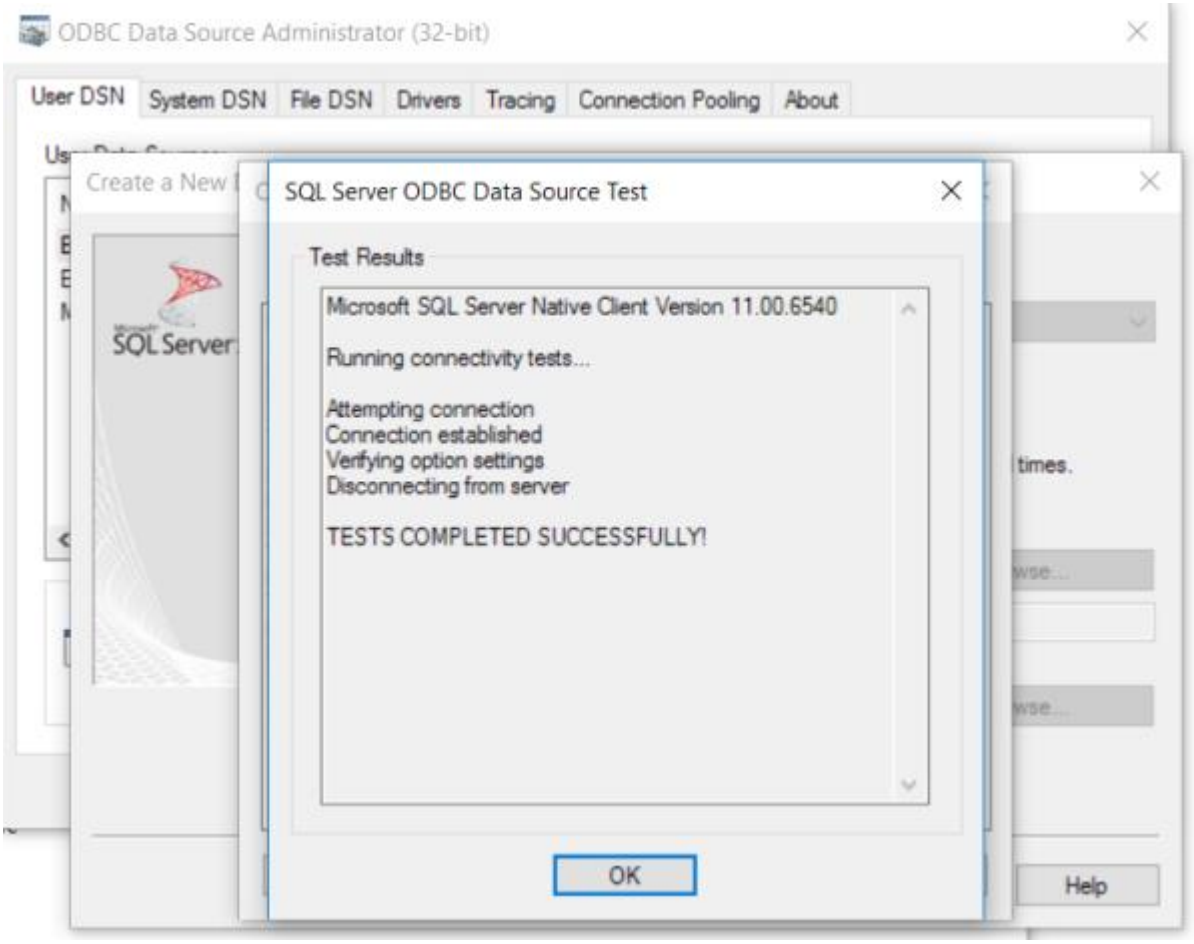
4. Configure the Data Source options using the Step 2 interface.



5. Test the connection.



6. Press OK consequently to close the information dialog windows and to finish the setup.

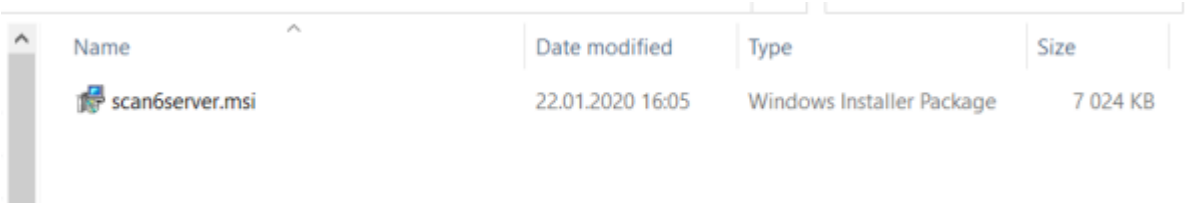

ODBC Data Source Administrator (32-bit)
User DSN
System DSN
File DSN
Drivers
Tracing
Connection Pooling
About
Create a New
SQL Server
SQL Server ODBC Data Source Test
Test Results
Microsoft SQL Server Native Client Version 11.00.6540
Running connectivity tests...
Attempting connection
Connection established
Verifying option settings
Disconnecting from server
TESTS COMPLETED SUCCESSFULLY!
OK
times.
Help

4 Confirmit Scan 6 Server Installation

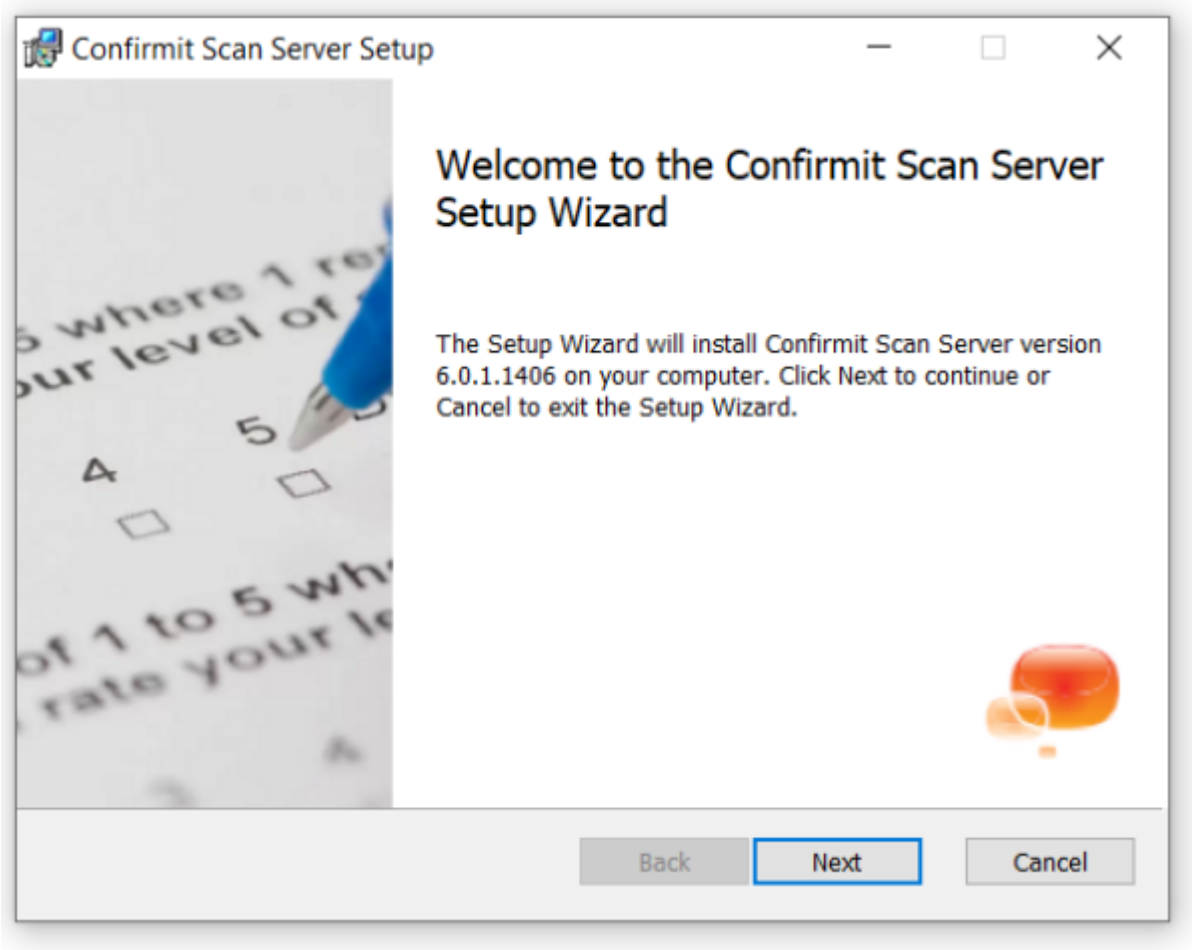
Installs Confirmit Scan 6 software on the server machine, sets up the database, registers and runs Confirmit Scan 6 Service.

4.1 Scan 6 Server Installation

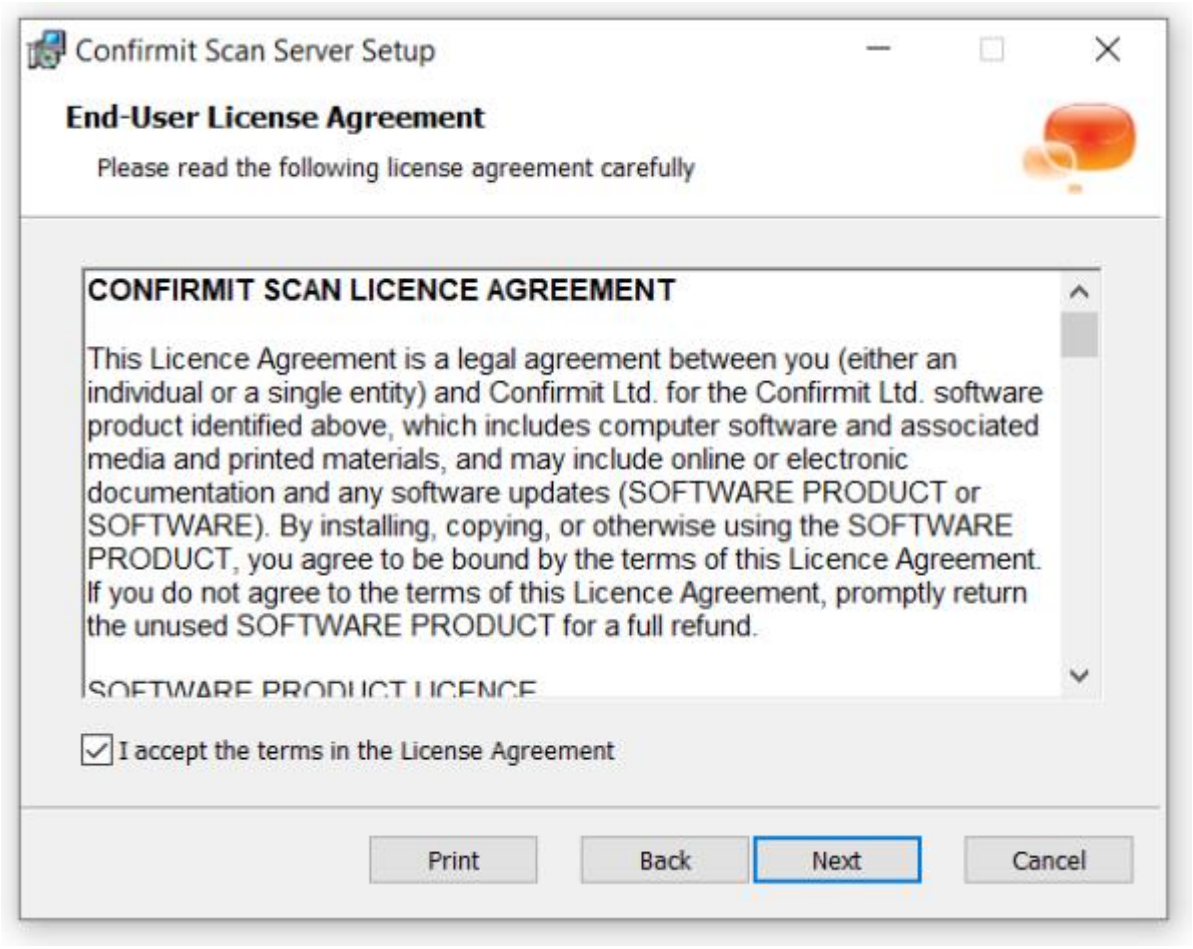
1. On the server machine, open the installation folder.



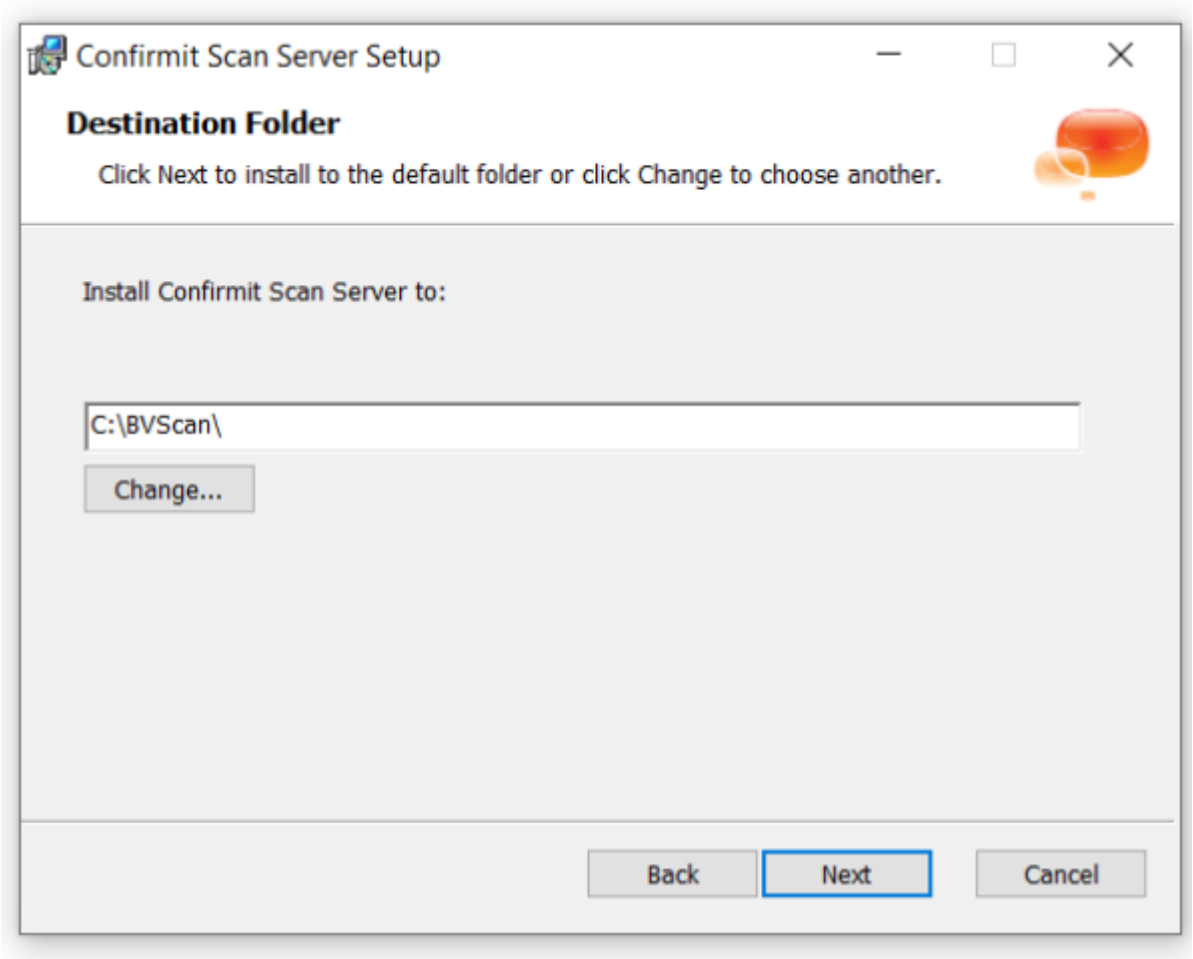
2. Double-click scan6server.msi (you need Administrator privileges to perform this action).



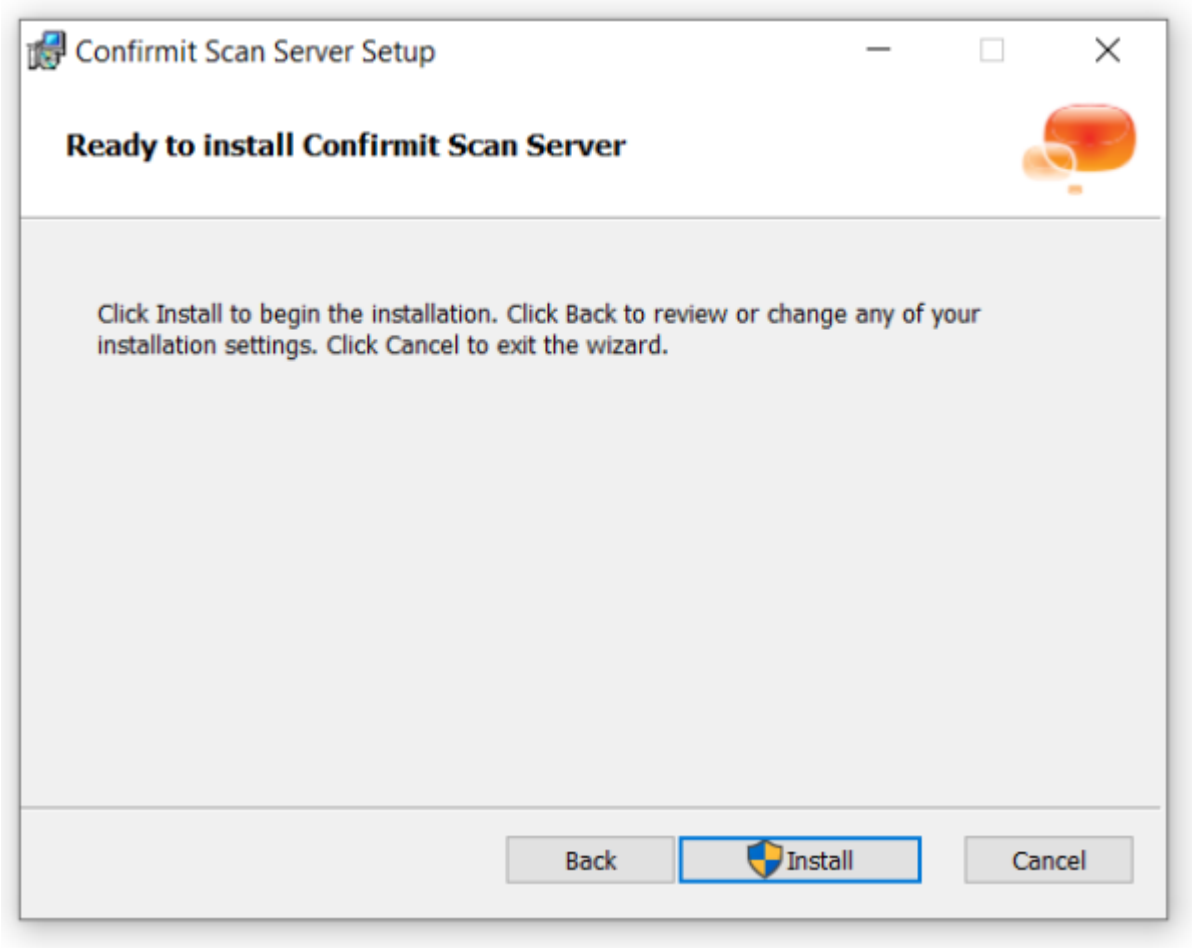
3. Accept the License Agreement and press Next.



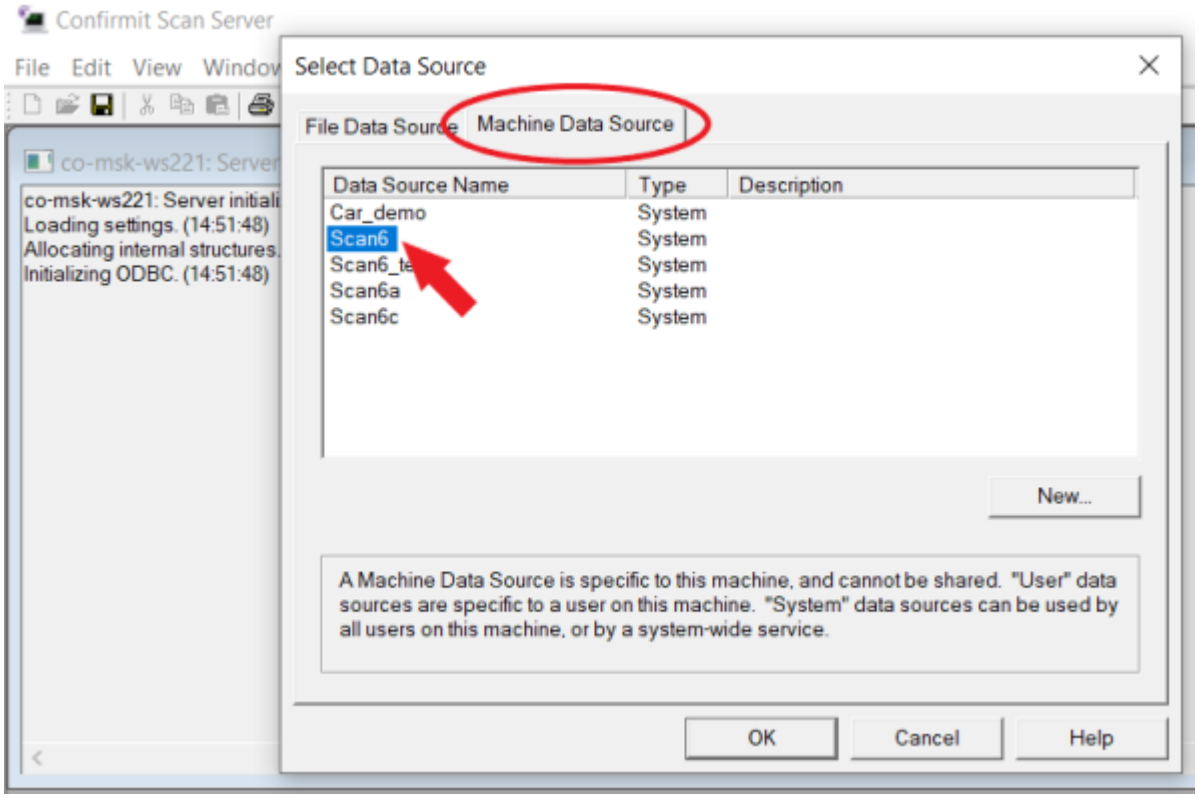
4. It is not recommended to change the Destination Folder. Press Next to proceed.



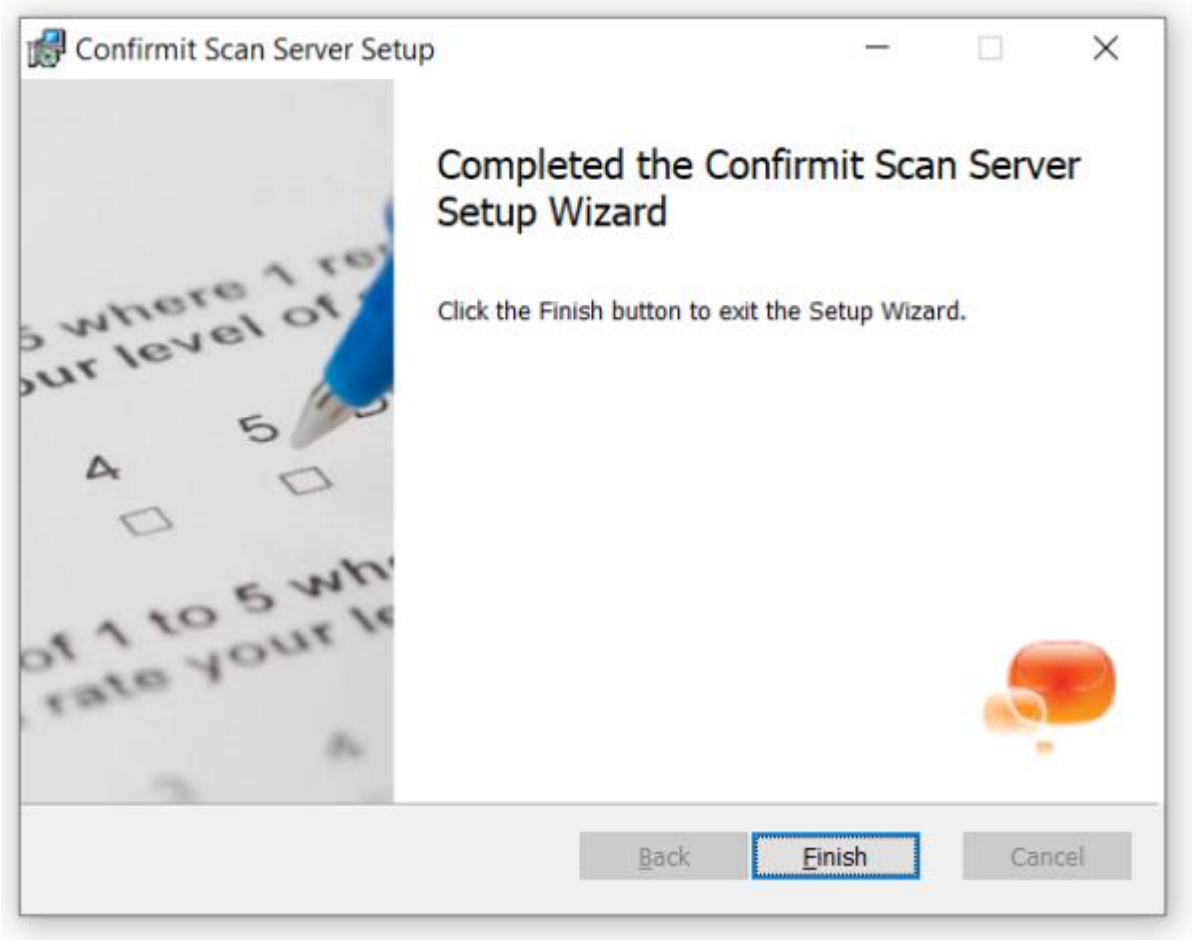
5. Start the installation (you need the Administrator privileges to perform this action).



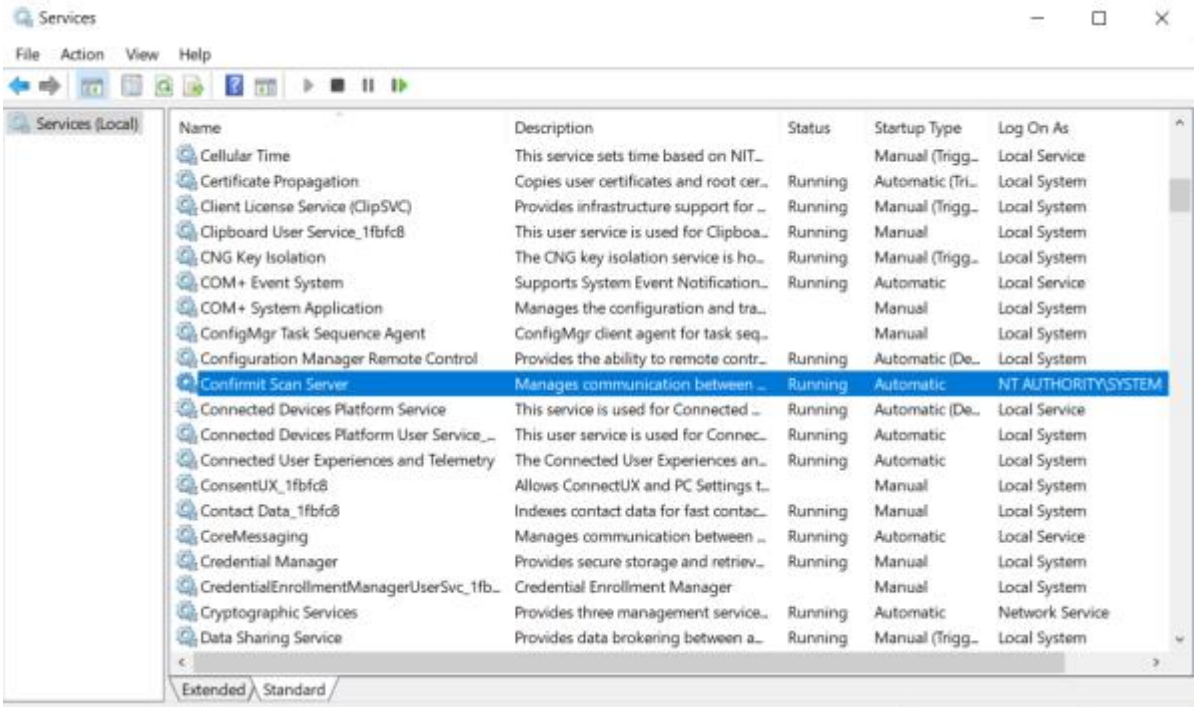
6. In the Select Data Source dialog, select the Machine Data Source tab and the data source you created earlier on this server machine (see Server Data Source Setup on page 14 section).



7. Press Finish to close the Setup Wizard.



8. As a final step of the procedure, please check that Confirmit Scan Service is running.



5 Confirmit Scan 6 Client

Creates links to the client applications for the current user, installs and updates local INI files, creates the Program Menu shortcuts. No Administrator privileges required.

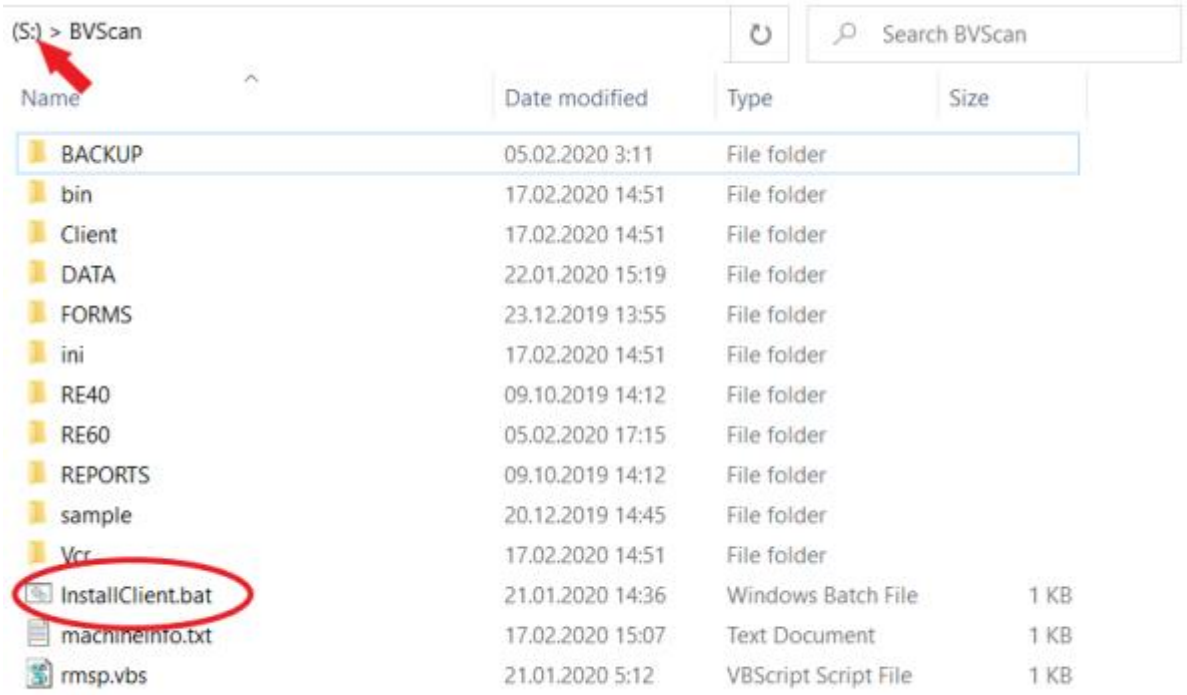
5.1 Pre-Install Requirements

The Confirmit Scan 6 Server Setup copies the Client Installer on the server machine during its installation procedure. In order to install the Client software on your local PC the following requirements must be met:

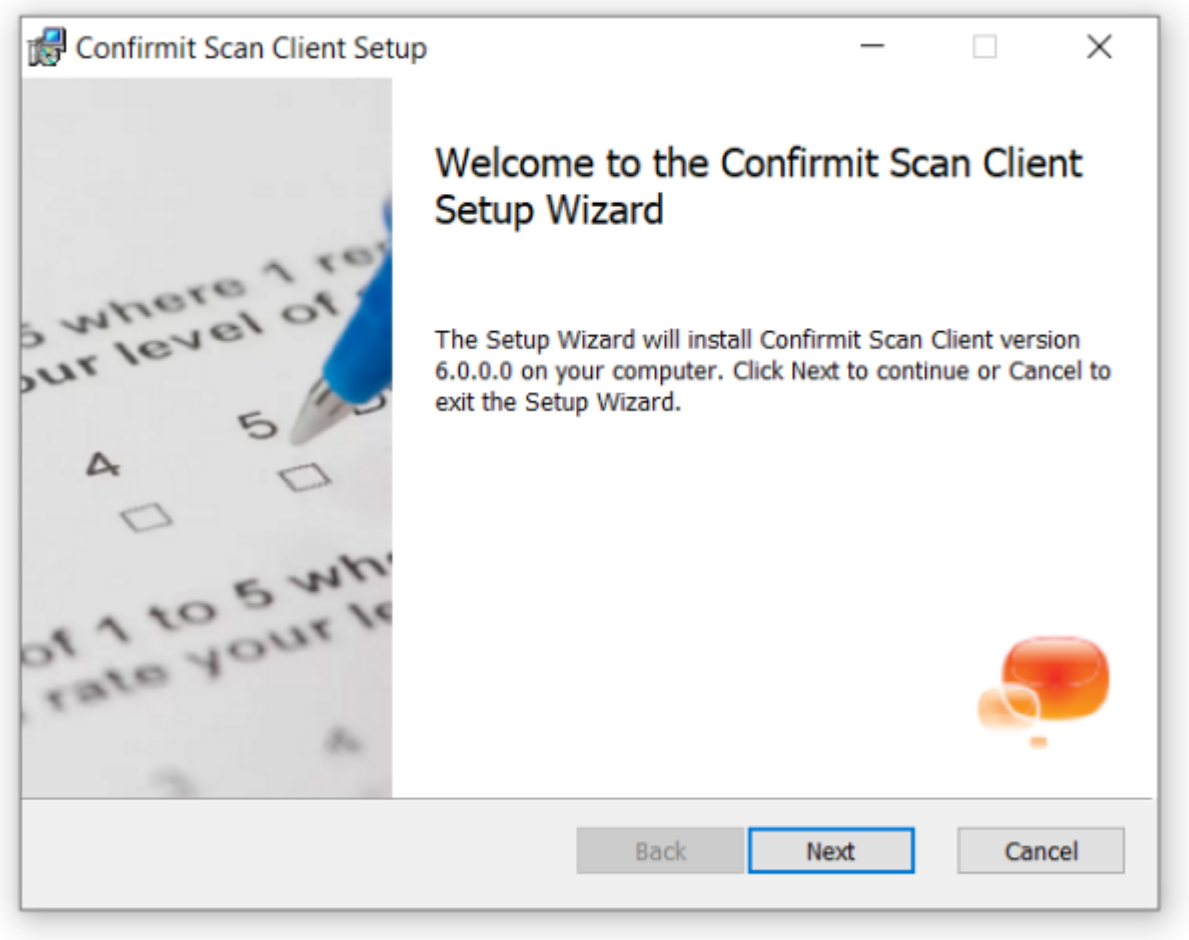
1. Either the Confirmit Scan 6 Server root folder or \BVScan folder (i. e. server's '\' or '\BVScan') must be mapped to some drive letter (S:, for example) on your client PC.
2. You must have a full access permission (read/write/execute) to the BVScan folder and all its subfolders on the server machine.

5.2 Confirmit Scan 6 Client Installation

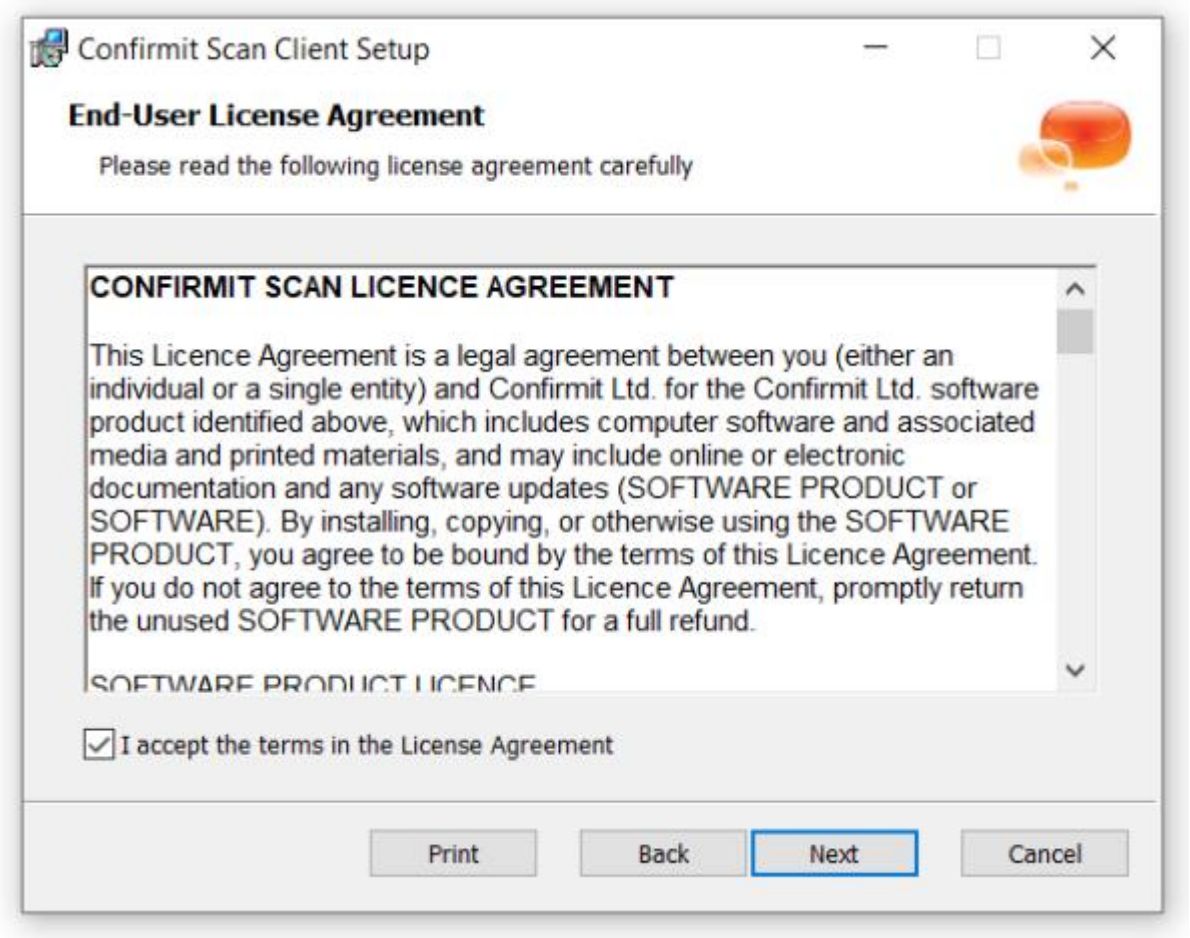
1. On the client machine open the Confirmit Scan 6 Server root folder (mapped as S: in our example).



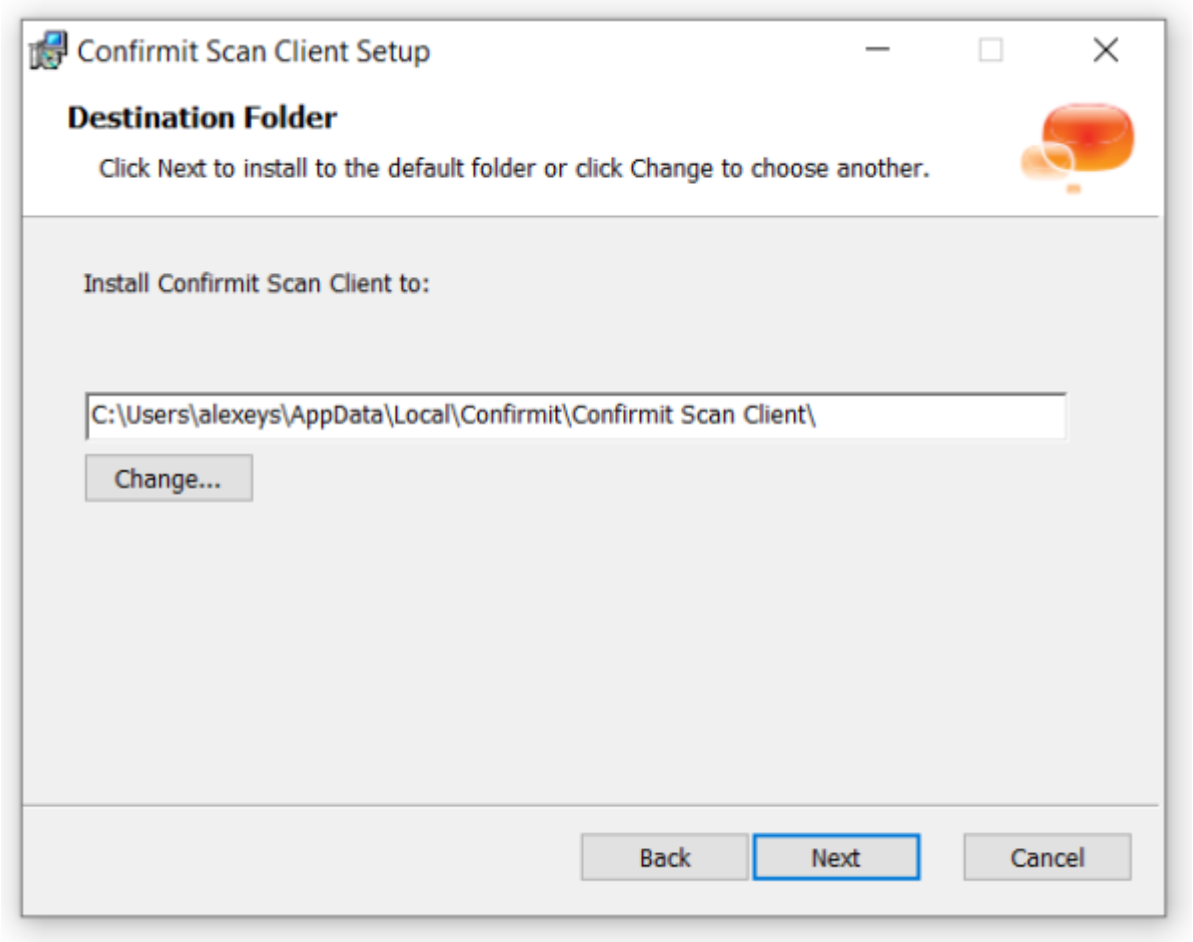
2. Run the InstallClient.bat file. (No Administrator privileges required).



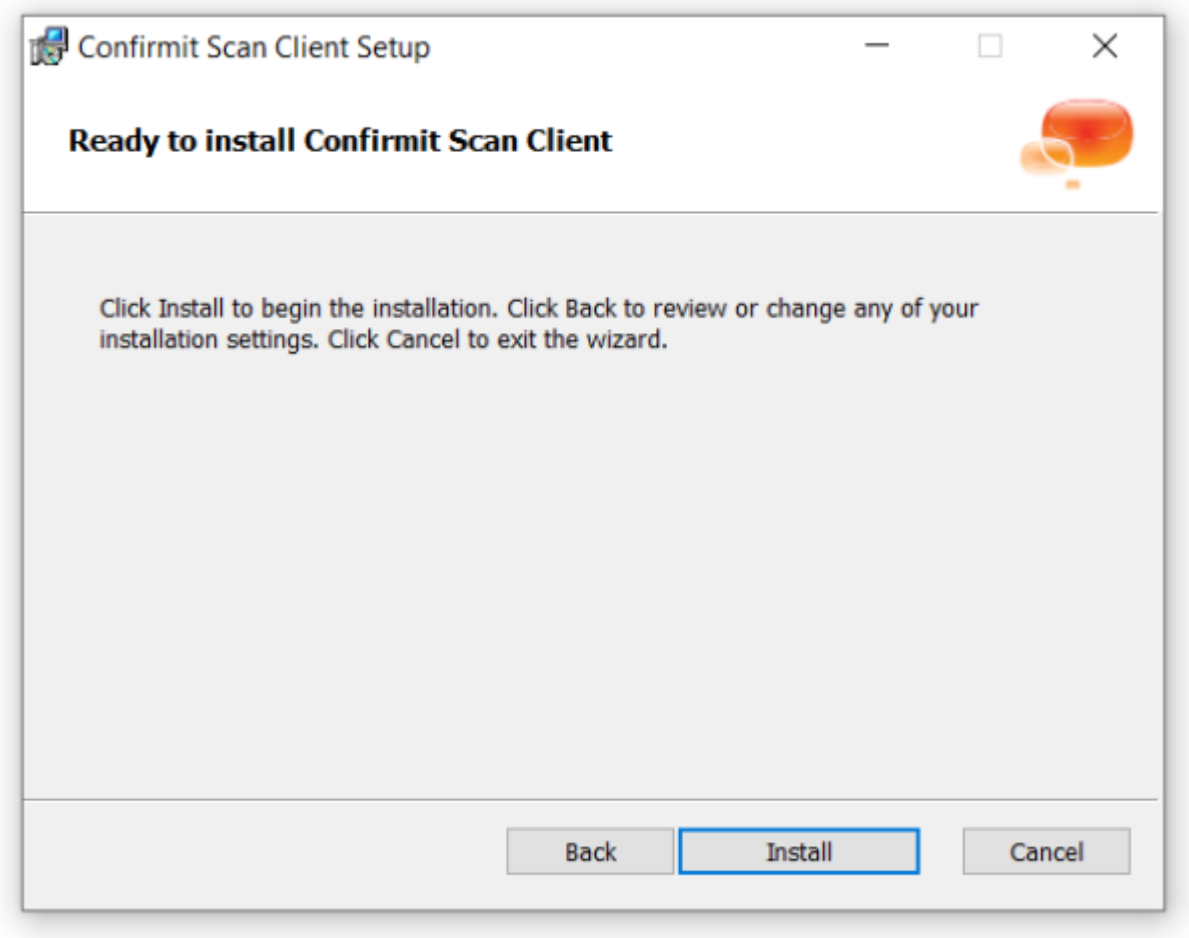
3. Accept the License Agreement and press Next.



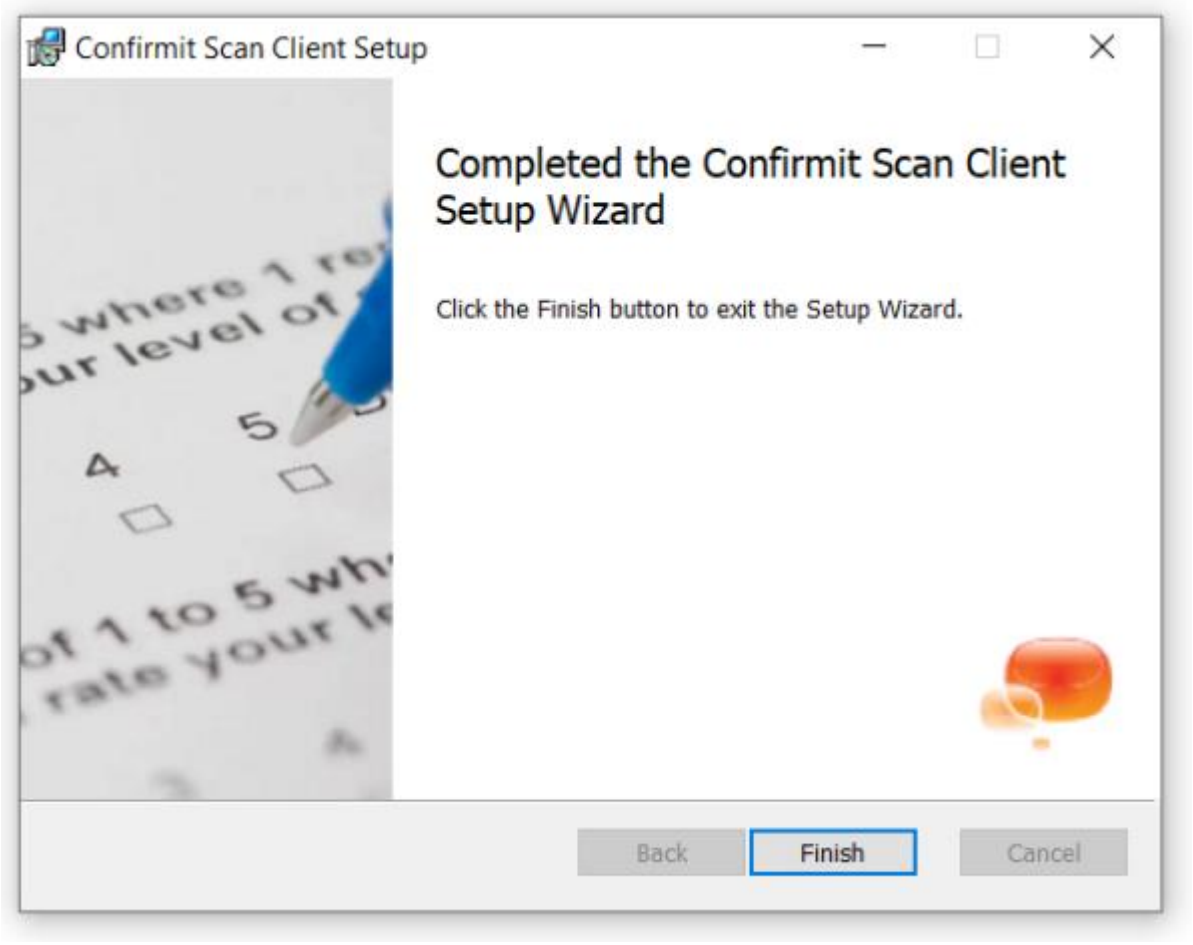
4. It is not recommended to change the Destination Folder. Press Next.



5. Start the Installation by pressing the Install button.

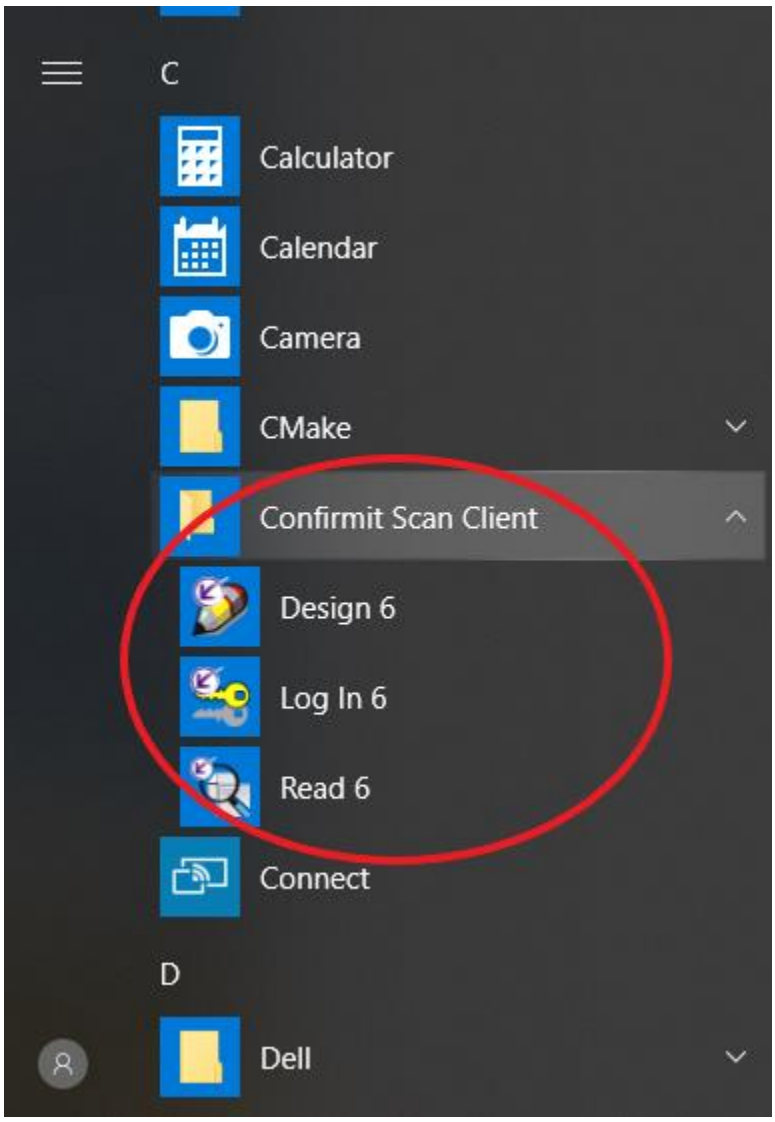


6. Press Finish to exit the Setup Wizard when the installation process finishes and the picture shown below is displayed.

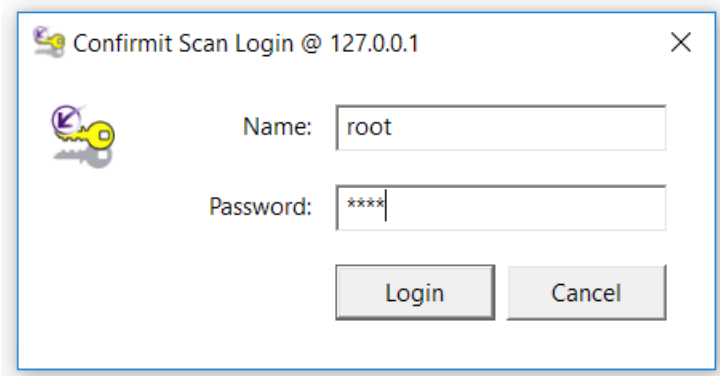


5.3 Test the Client Installation

1. On the client machine, check the Program Menu.



2. Run Confirmit Scan Login from the Program Menu > Confirmit Scan > Log In 6 to test the installation using the default root/root account.



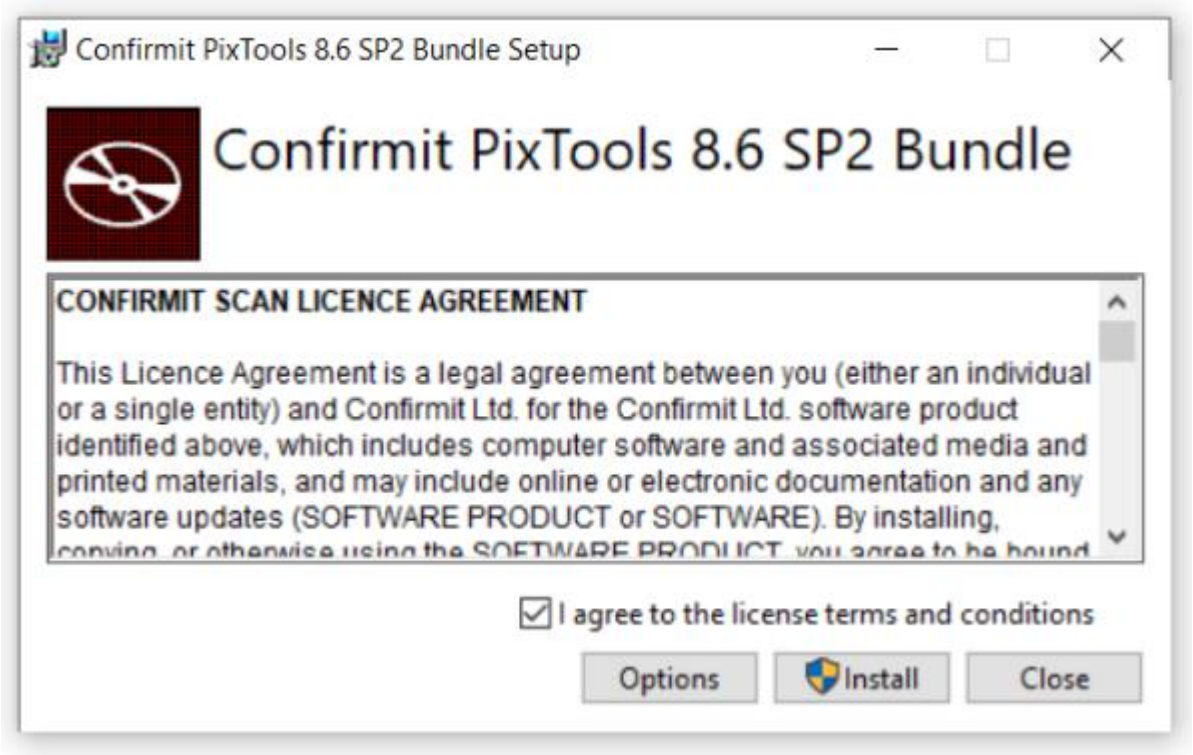
6 Supplemental Software

6.1 Captiva PixTools 8.6 Scanner Drivers

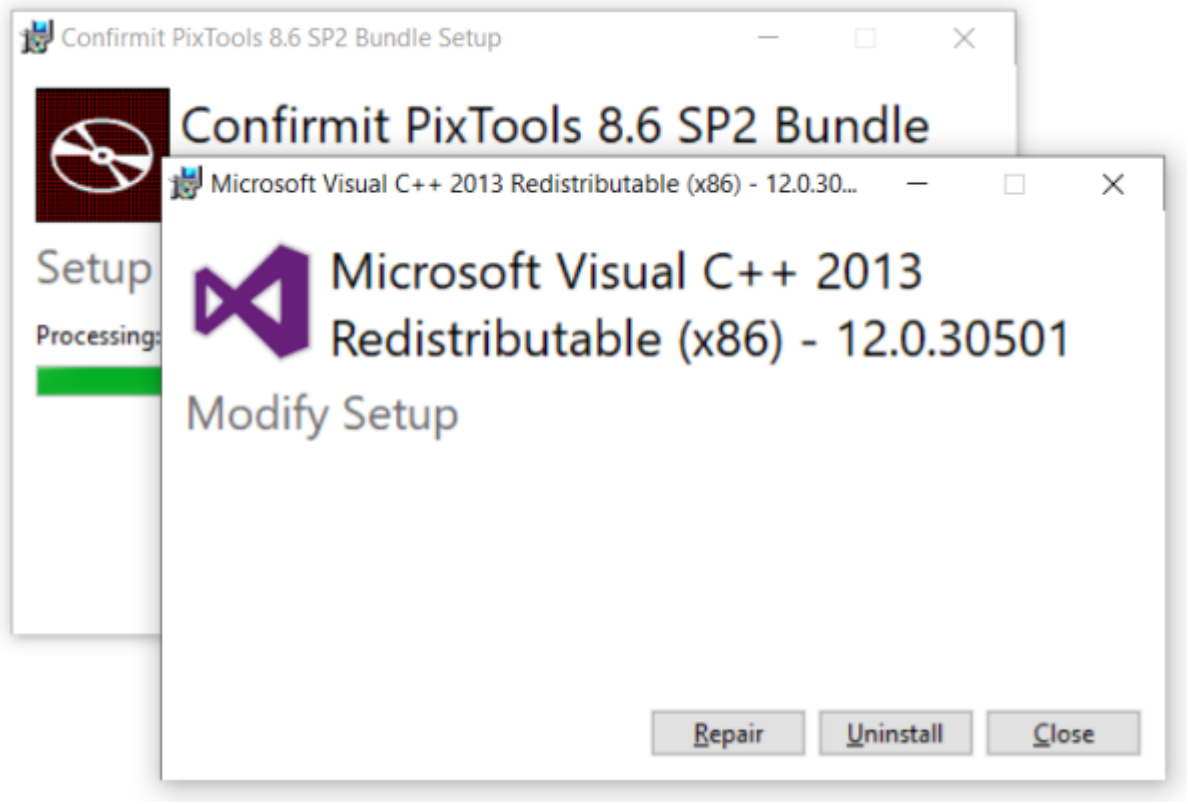
OpenText provides Image and Scanner Interface Specification scanner drivers for most available paper image scanners. OpenText is constantly designing new scanner drivers according to market needs and scanner vendor interests. Furthermore, because Image and Scanner Interface Specification is an open specification, other companies develop Image and Scanner Interface Specification scanner drivers.

6.2 Install Confirmit PixTools 8.6 SP2 Bundle

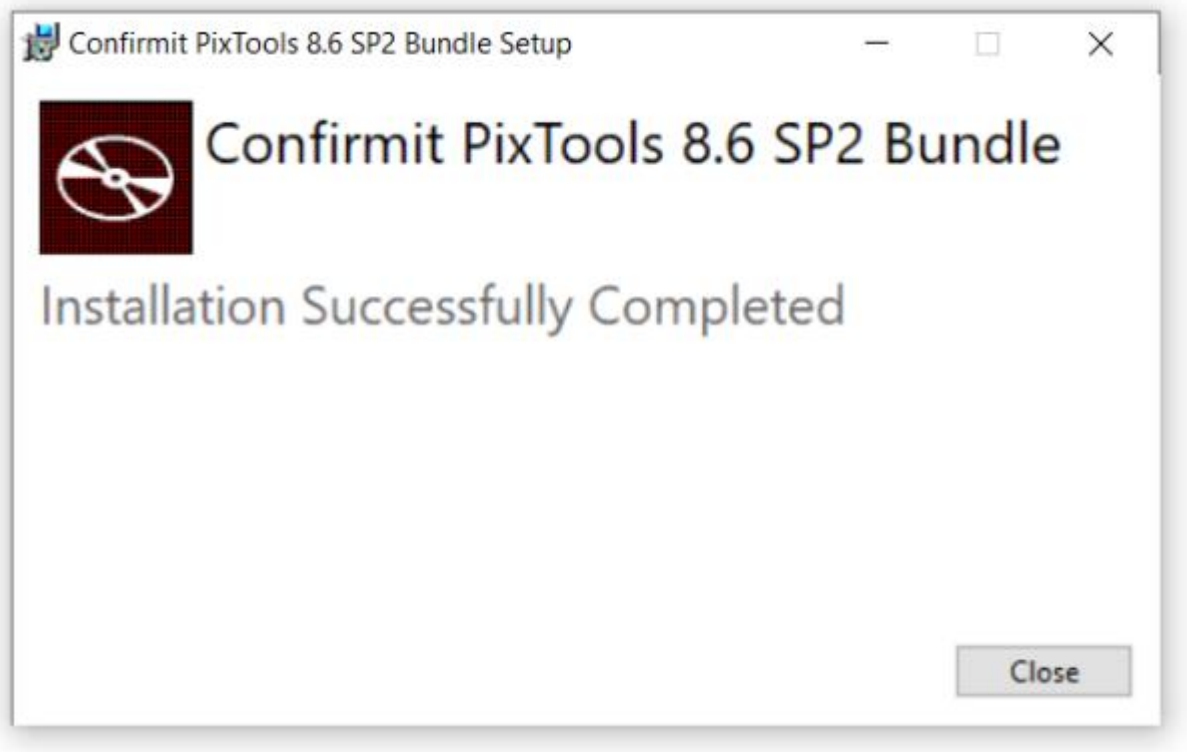
1. Run the PixTools86Bundle.exe file (requires Administrative privileges) on the client PC connected to a scanner (to the scanner station).



2. The PixTools 8.6 drivers kit provides its own version of the Microsoft runtime software. Press the Repair button if this version is already installed on your PC (as shown below) or Install to update your system.



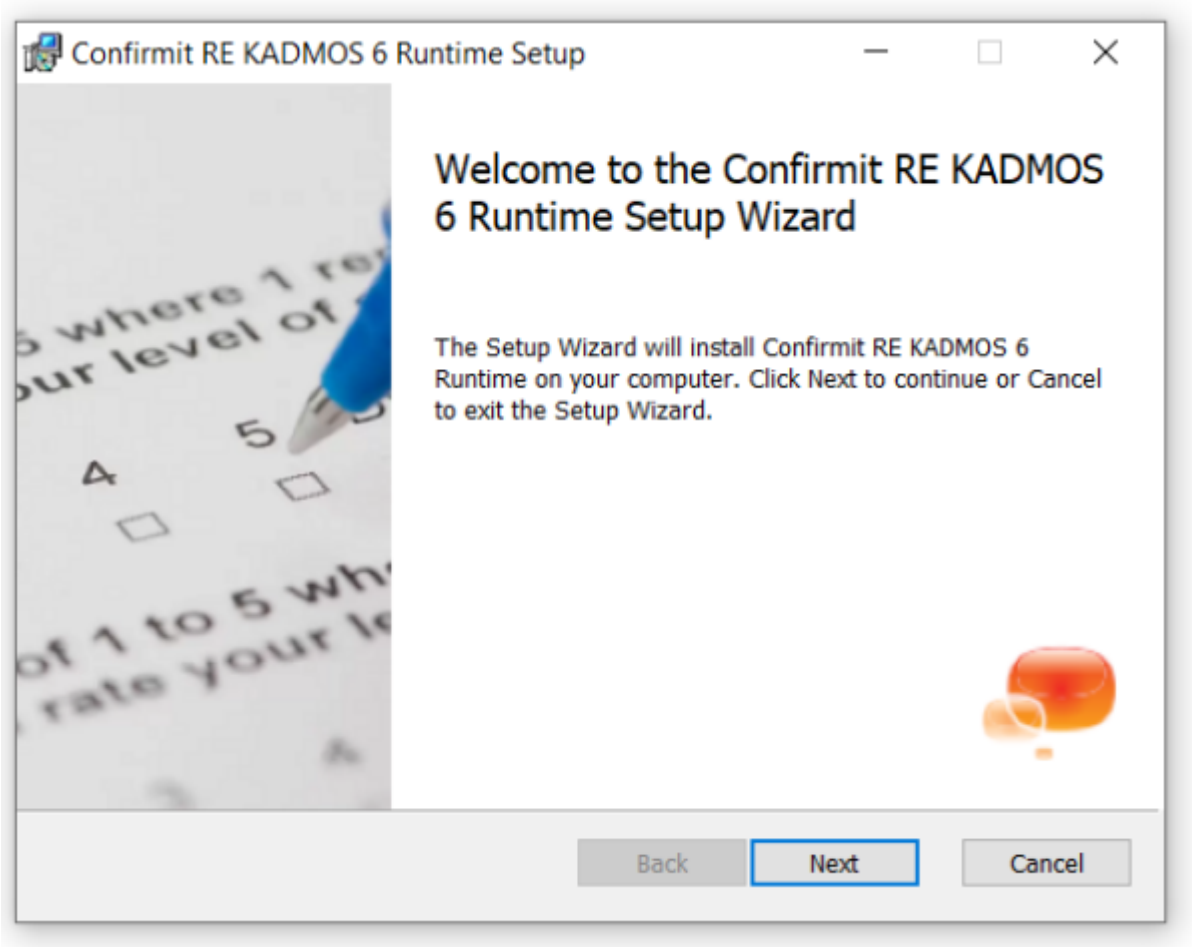
3. Press Close to finish the setup.



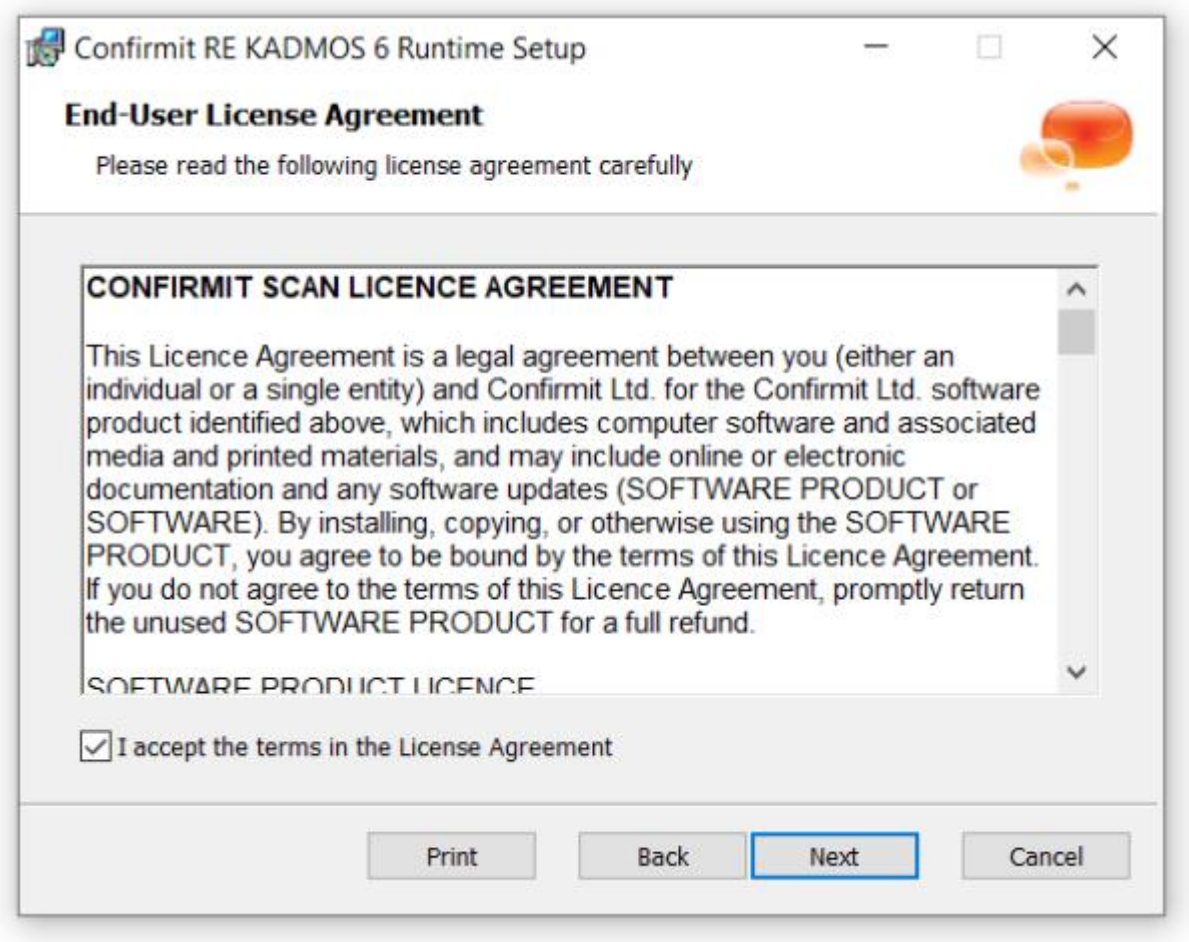
6.3 KADMOS RE 6 Recognition Kit

KADMOS RE 6 Recognition Kit provides runtimes and classifiers for both machine- and handwritten character recognition.

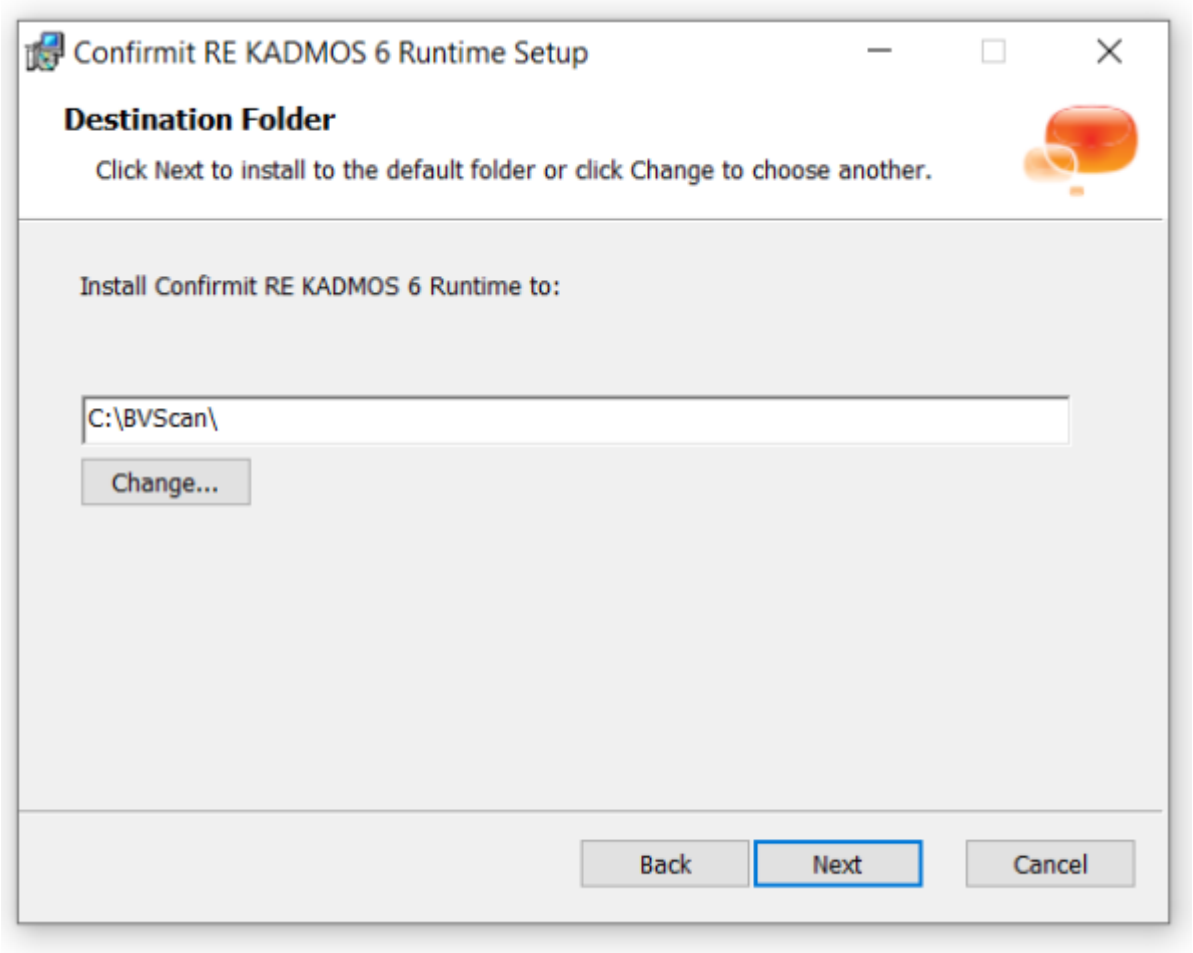
1. Run the Kadmos6Setup.msi file on the server machine (requires Administrative privileges).



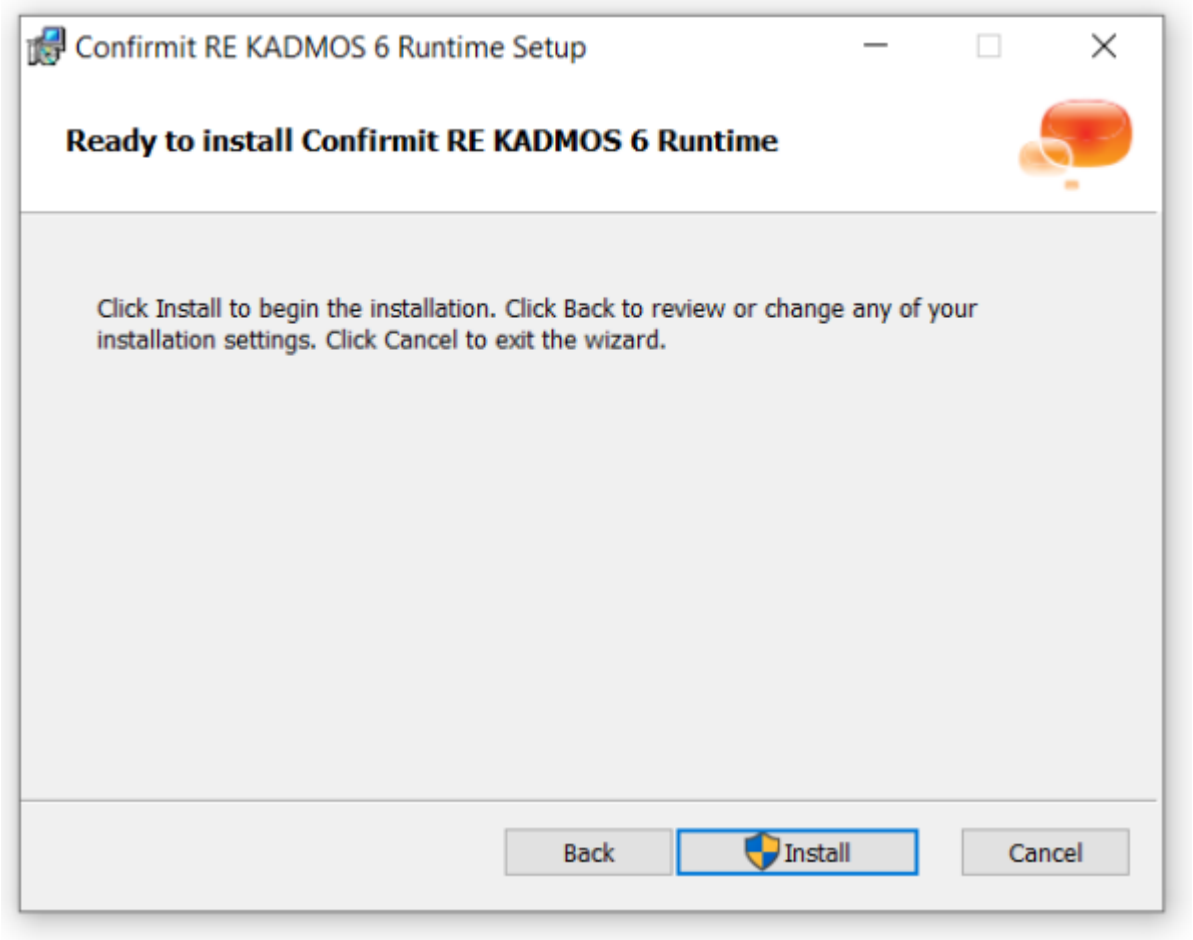
2. Accept the License Agreement and press Next.



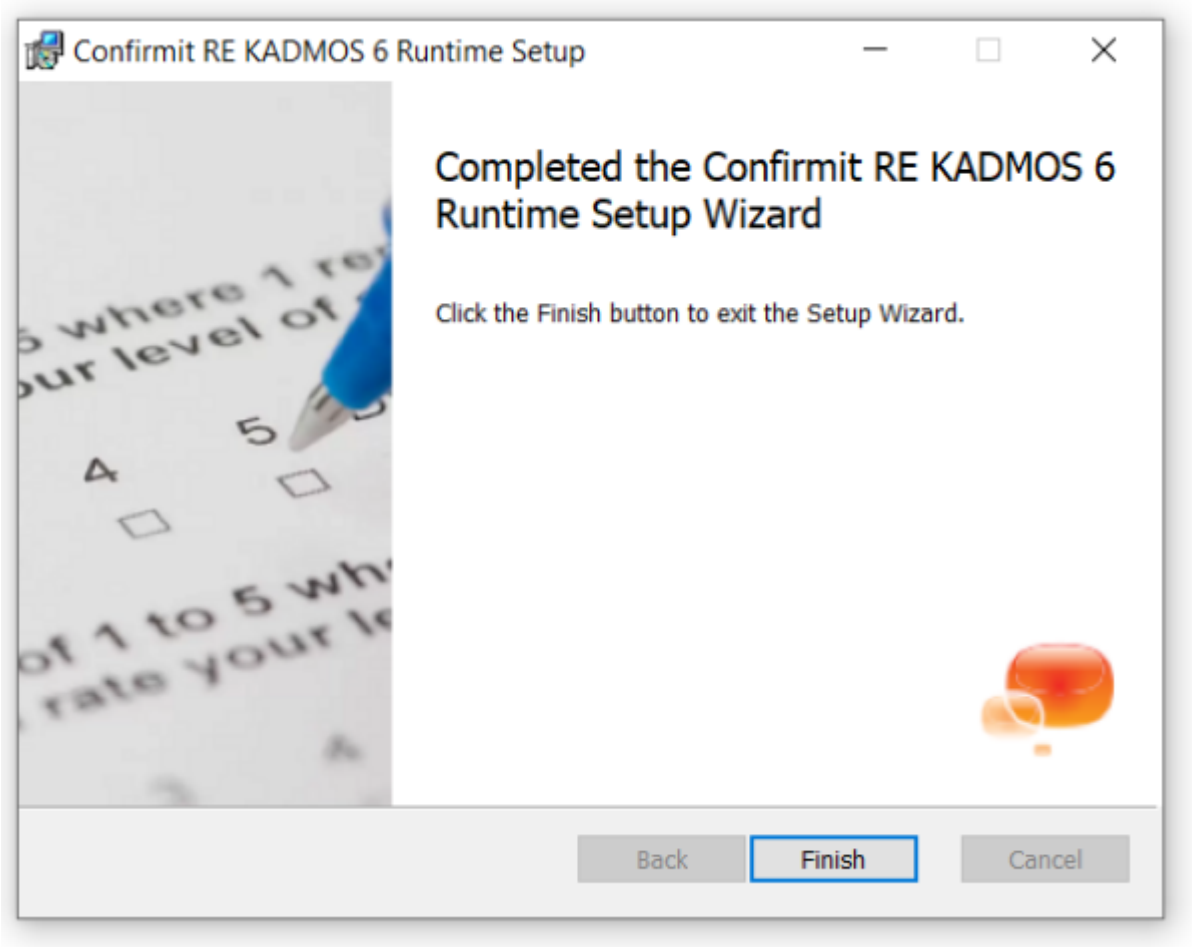
3. It is not recommended to change the Destination Folder. Press Next.



4. Start the installation (requires Administrative privileges).



5. Press Finish to finish the setup.



IMPORTANT: This setup doesn't include classifier files (over 5Gb in size); they should be copied to the \BVScan\RE60 folder on the server machine manually.

7 Appendix A. Recommendations

7.1 User ‘Everyone’: The Simplest Way To Assign User Privileges for MQ

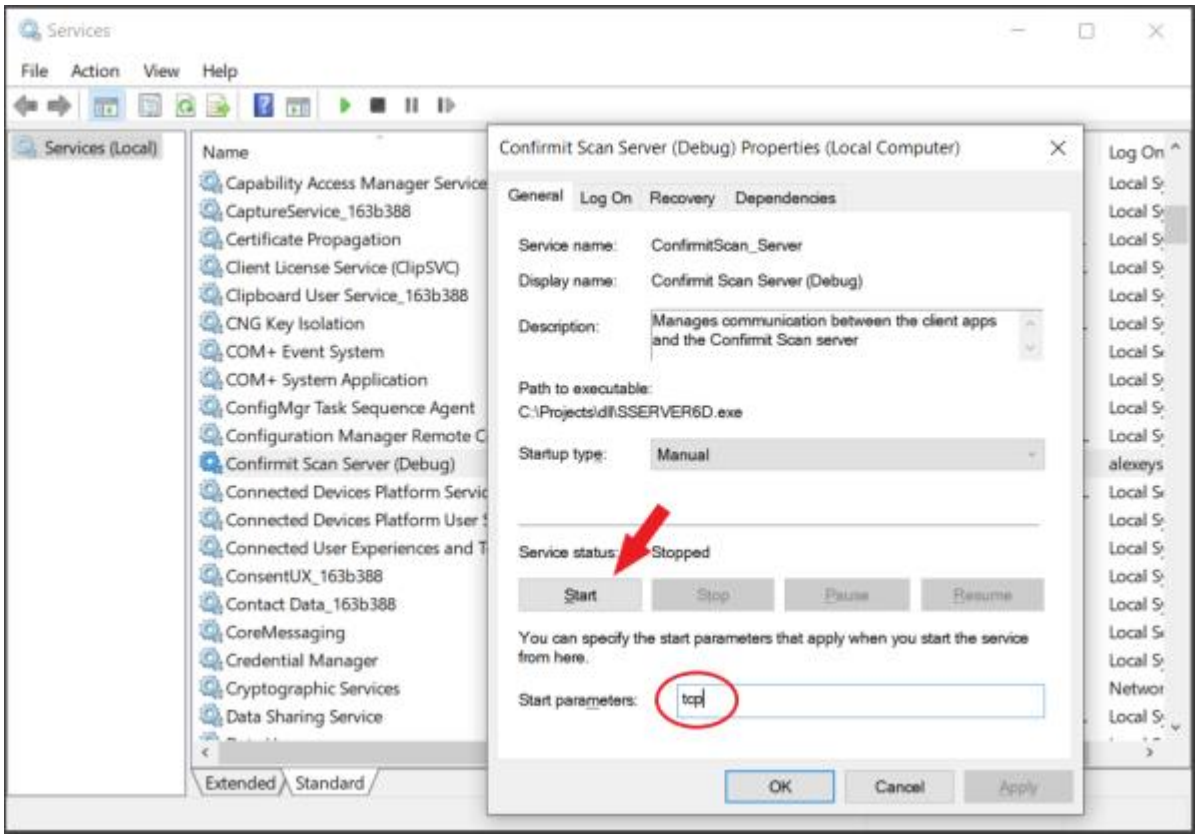
Due to:

- both the server and all client machines are on the local network in the same domain, and
- no customer data are being transmitted between clients and the server,

the simplest way to set up the client-server two-way transmission channel is to assign Full access to the ‘Everyone’ user for the Message Queue on both server (scanserver) and all client machines (scanclient). In the properly configured local network environment it is impossible for an external malicious user either to intercept or to fake Confirmit Scan 6 Message Queue control messages.

7.2 Switch Back To Legacy TCP/IP Transport Layer

The previous versions of the Scan software used TCP/IP network transport layer to manage communication between the client(s) and the server. To switch back to the legacy TCP/IP transport layer stop the Confirmit Scan 6 service, select Properties, then enter ‘tcp’ as the Start parameters, and finally start the service.



8 Appendix B. Upgrade To Confirmit Scan 6

Confirmit Scan 6 can be installed and run side-by-side with any prevously installed legacy Scan system.

8.1 Known Issues

To be listed.