



Version 6.4.7.0

Azure Installation Guide

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Introduction and Prerequisite Information

The goal of this guide is to explain how to install MISys Manufacturing deploying both the Microsoft SQL database engine and MISys Server functions to Microsoft Azure.

This allows you to natively host the database engine and MISys server functions (including Microsoft Internet Information Services, or IIS) in Azure. This method does still require the MISys Server Administration Console, and the MISys Client application, to be installed locally. The database engine and login process (using IIS) are both hosted in Azure even though the application is installed locally.

On any machine the MISys Manufacturing installation is to be run on, make sure the MISys installation file is downloaded and local to that machine. The current MISys Manufacturing installation file can be downloaded from this link:

<https://helpdesk.misysinc.com/download/misysmfg.exe>

In order to install MISys Manufacturing deployed to Azure, you must have an active Microsoft Azure subscription. This must be set up and active before you begin the installation of MISys Manufacturing. To sign up for Azure, go to: <https://signup.azure.com>

Regarding the Azure account to be used during the installation/updating/uninstallation of MISys Manufacturing in Azure:

- The Account must be a member of either the Global Administrator, Application Administrator or Cloud Application Administrator roles, or must have consent from an Azure User having of the same roles.
- The account must be a member of the Owner role of the Subscription in which you are deploying Azure resources.

The following pages explain the full process for installing MISys Manufacturing deploying to Azure, and then how to install and log into the MISys Client application with Azure deployment.

Note: The Azure deployment only needs to be done when you're running the server-side installation of MISys Manufacturing. MISys Client application installations will not require any separate Azure deployment or authentication with Azure. See pages 16-18 of this document for additional information on how to install the MISys Manufacturing Client application and then to login when the server is deployed to Azure.

Please reach out to MISys technical support with any questions during this process. Support can be reached three different ways:

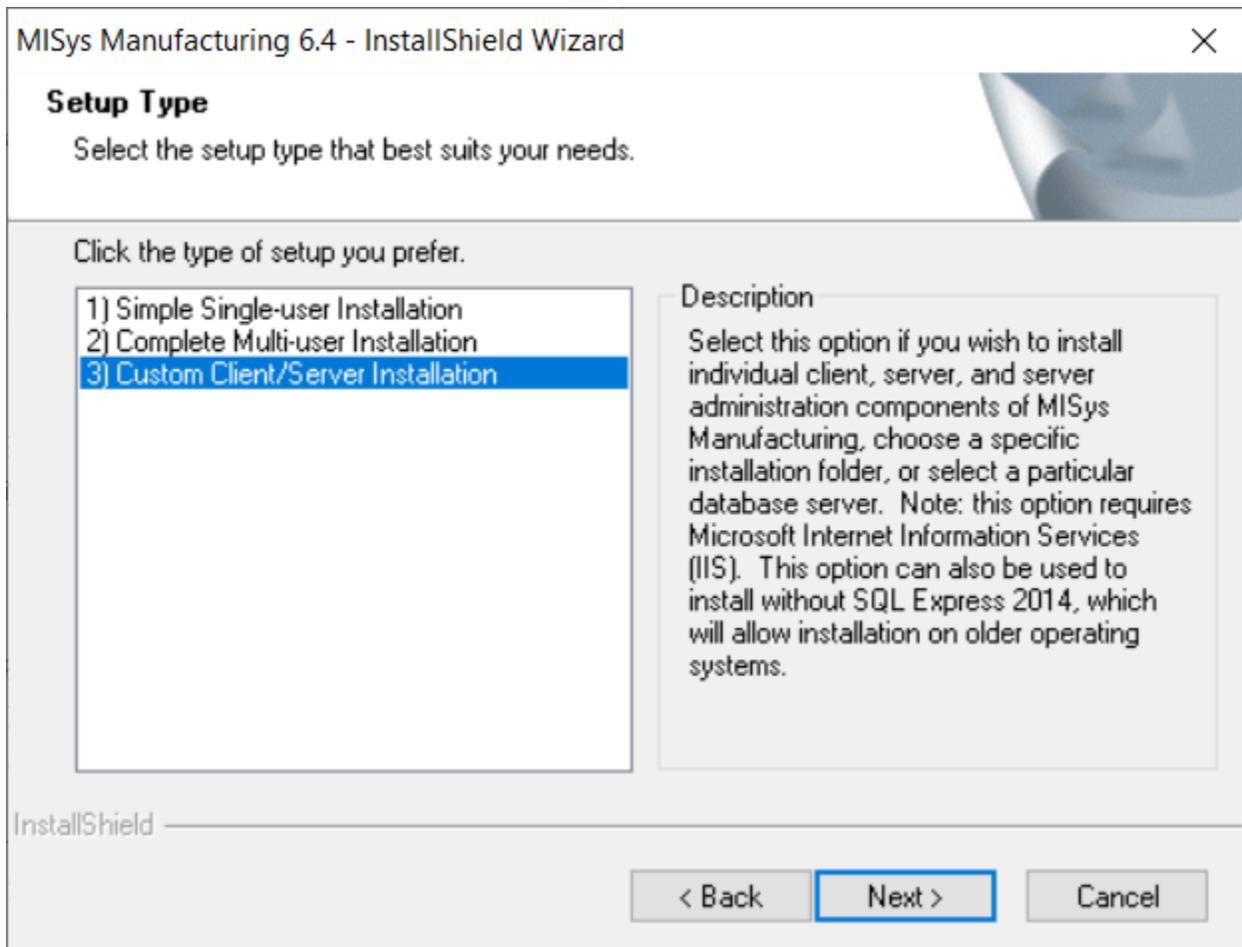
- A) Online support ticket at <https://helpdesk.misysinc.com/>
- B) Via email at support@misysinc.com
- C) Or, by phone at (802) 457 – 4700

Installing MISys Manufacturing Deployed to Azure

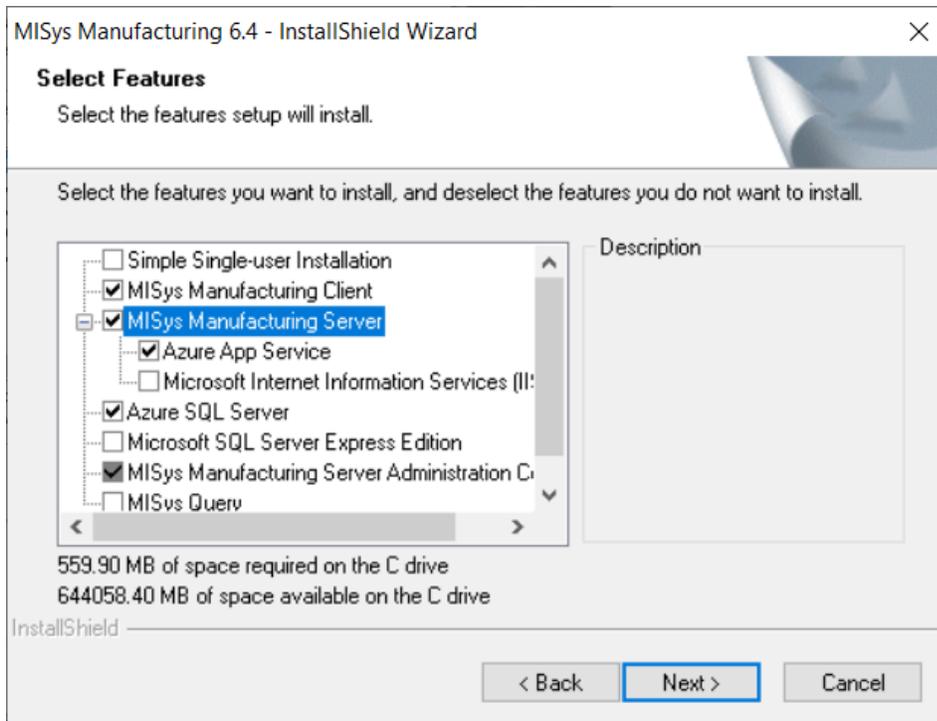
To begin the installation, make sure the MISys Manufacturing installation file is downloaded and local to the machine where the installation is being run.

Note: for best results, it's advisable to right-click on the install file and "Run as Administrator" to begin installation vs. double-clicking the file. This helps ensure the installation is run with local admin rights.

During the installation of MISys Manufacturing, you'll see this Setup Type screen allowing the choice of three different installation modes:



Azure deployment of MISys Manufacturing requires selecting the Custom option. So, after selecting **3) Custom Client/Server Installation** on the above, click Next. Then, click Next on the Choose Destination Location screen (not pictured) to display the following screen, the **Select Features** page, as seen on the following page.



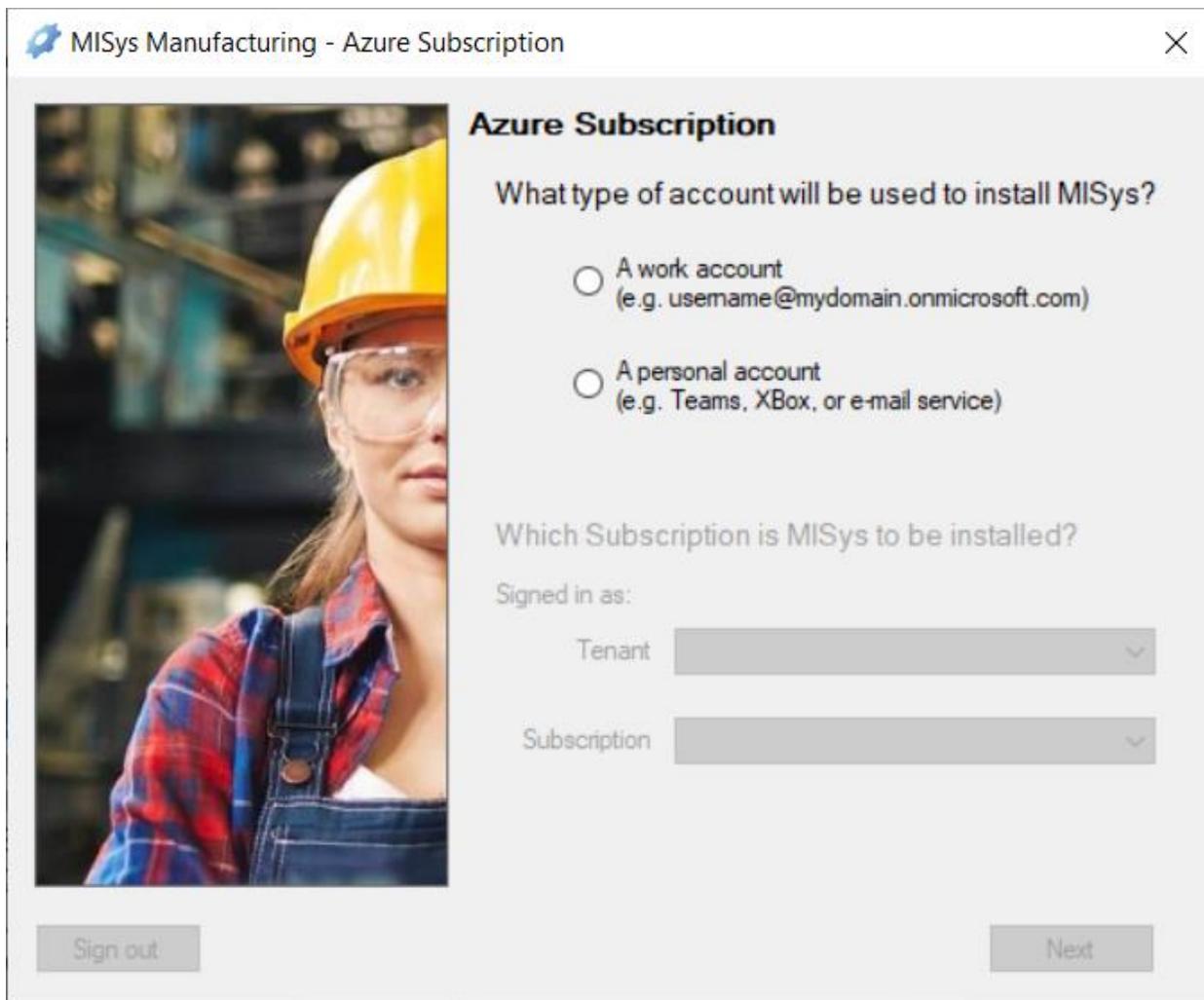
To deploy MISys Manufacturing in Azure, the options as seen above would typically be selected. Notes on these options:

- Selecting **MISys Manufacturing Client** would install the Client application locally on the given machine where you are running the MISys installation.
 - This is NOT required when running the MISys Manufacturing installation on the server, but is commonly left selected to install the MISys Client application. Leave this box unchecked if you do not wish to the install the MISys Client application locally on the machine where the MISys Manufacturing installation is being run.
- Selecting MISys Manufacturing Server is needed to enable selecting the 'Azure App Service' option. As seen above, **BOTH** the **MISys Manufacturing Server** and the **Azure App Service** options must be selected in order to deploy MISys Manufacturing to Azure.
 - As seen above, the **Microsoft Internet Information Services (IIS)** option must **NOT** be checked if the goal is to deploy MISys Manufacturing to Azure. This option would configure IIS locally, which is not necessary when deploying the MISys Manufacturing server to Azure.
- Selecting **Azure SQL Server** is required in order for Microsoft SQL to be deployed in Azure.
 - As seen above, the **Microsoft SQL Server Express Edition** option must NOT be checked if the goal is to deploy MISys Manufacturing to Azure. This option would install and configure a SQL Express database engine locally, which is not necessary when deploying the MISys Manufacturing to Azure.
- The **MISys Manufacturing Server Administration Console** option must be selected to install the Server Administration Console locally on this machine. This is required to be selected even if deploying MISys to Azure.

When done, click **Next**.

Authenticating the MISys Manufacturing Installation with Azure

Clicking Next will display the **MISys Manufacturing – Azure Subscription** form seen below:



MISys Manufacturing - Azure Subscription

Azure Subscription

What type of account will be used to install MISys?

A work account
(e.g. username@mydomain.onmicrosoft.com)

A personal account
(e.g. Teams, Xbox, or e-mail service)

Which Subscription is MISys to be installed?

Signed in as:

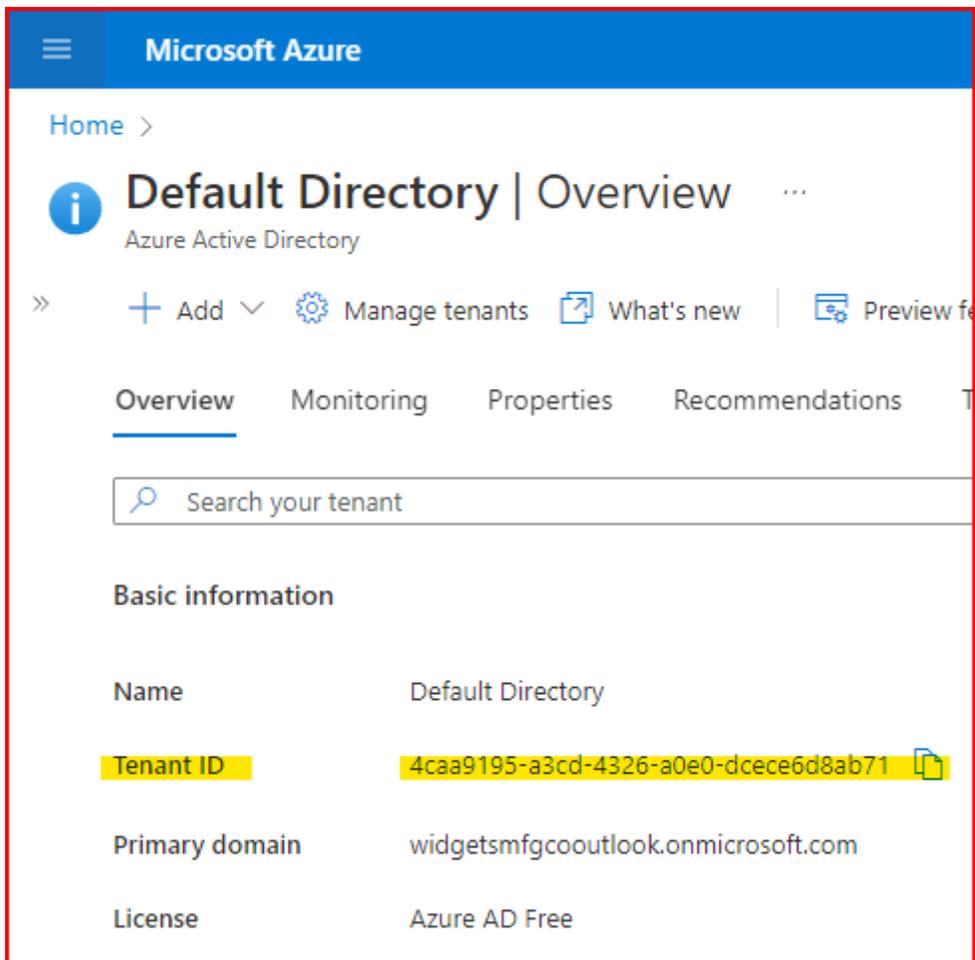
Tenant

Subscription

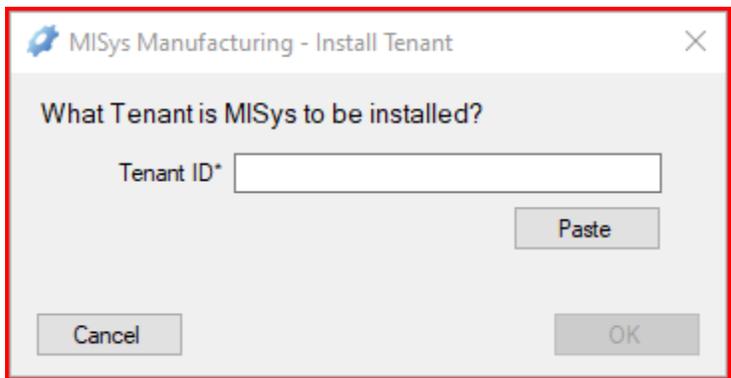
Sign out Next

This allows the selection of which type of Azure account is to be used for authentication during the installation of MISys Manufacturing deploying to Azure. Choose either **A work account** or **A personal account** on the screen above.

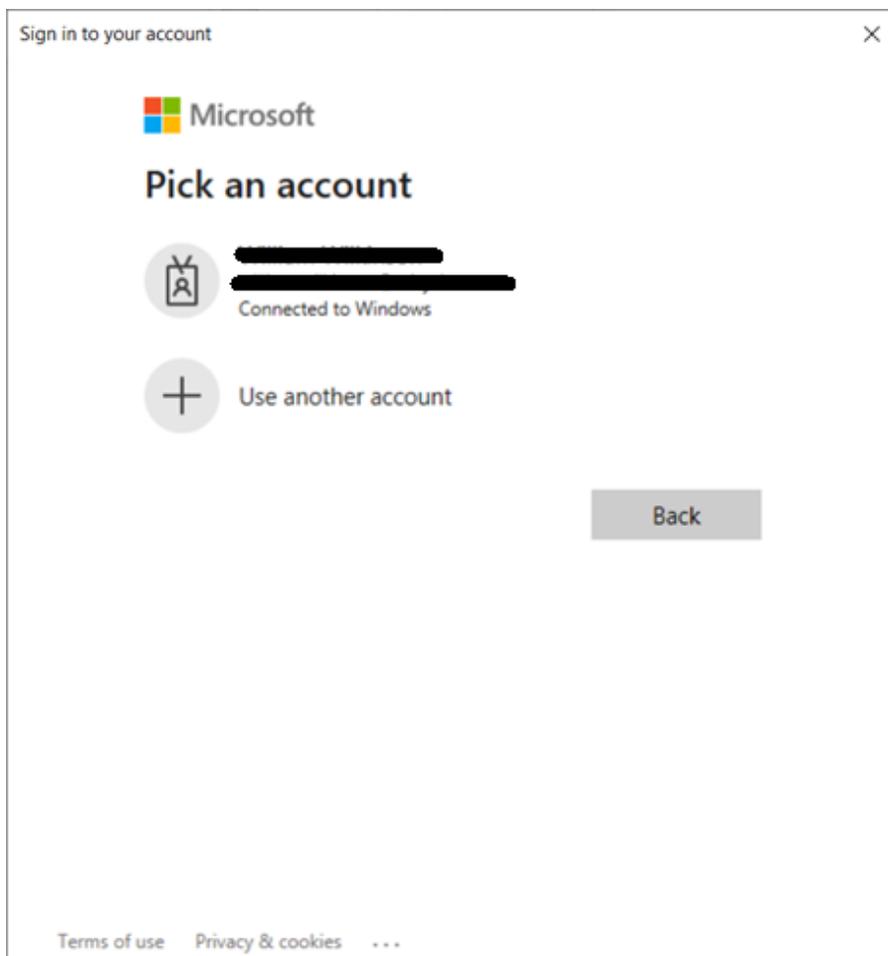
Note: if choosing **A personal account** on the screen above, a dialog message asking for the Tenant ID will be displayed, as seen below. The Tenant ID can be found in the Azure Active Directory menu within the Azure portal, under Azure Active Directory, as seen at the top of the following page.



When authenticating using a 'personal' Azure account, this Tenant ID will need to be entered on the following screen during the MISys Manufacturing installation:



Click **Next** on the **MISys Manufacturing – Azure Subscription** screen to proceed to Azure authentication. This will display an authentication window similar to the following.



Use this window to log into the Azure Subscription to be used for the duration of the MISys Manufacturing installation. A token cache containing the Azure account token will then be created within the installation support directory on the machine where the installation is being run.

The cached token is read each time a resource is deployed in Azure and compared against the tags assigned to previously deployed resources. This is done to ensure that resources are installed to the same Tenant and Subscription throughout the MISys Manufacturing installation. As resources are deployed, they are tagged in Azure with: "CreatedBy : MISys" and "InstallationId : <user session guid>" for your future reference.

Note: Deploying Azure resources for the first time requires consent from the Azure administrator. In Azure, the Administrator must be a member of either the Global Administrator, Application Administrator, or Cloud Application Administrator role, as detailed earlier in this guide.

Sign in to your account ✕

 Microsoft

admin@widgetsmfgcooutlook.onmicrosoft.com

Permissions requested

 MISys Manufacturing Installer
unverified

This app may be risky. Only continue if you trust this app. [Learn more](#)

This app would like to:

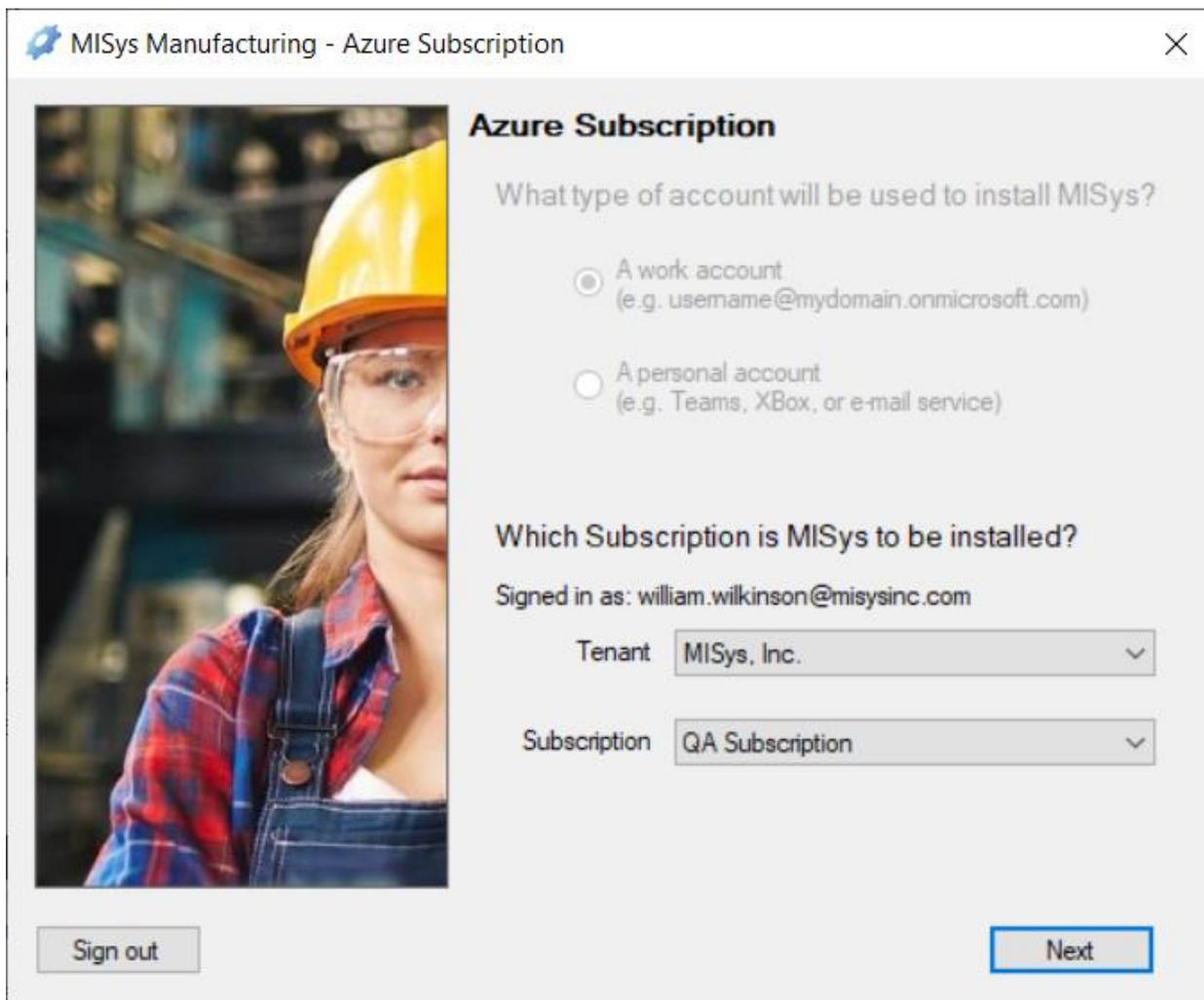
- ✓ Access Azure Service Management as you (preview)
- ✓ View your basic profile
- ✓ Maintain access to data you have given it access to

Accepting these permissions means that you allow this app to use your data as specified in their [terms of service](#) and [privacy statement](#). You can change these permissions at <https://myapps.microsoft.com>. [Show details](#)

Does this app look suspicious? [Report it here](#)

[Terms of use](#) [Privacy & cookies](#) ...

After authenticating the Azure Subscription, the following screen will display.

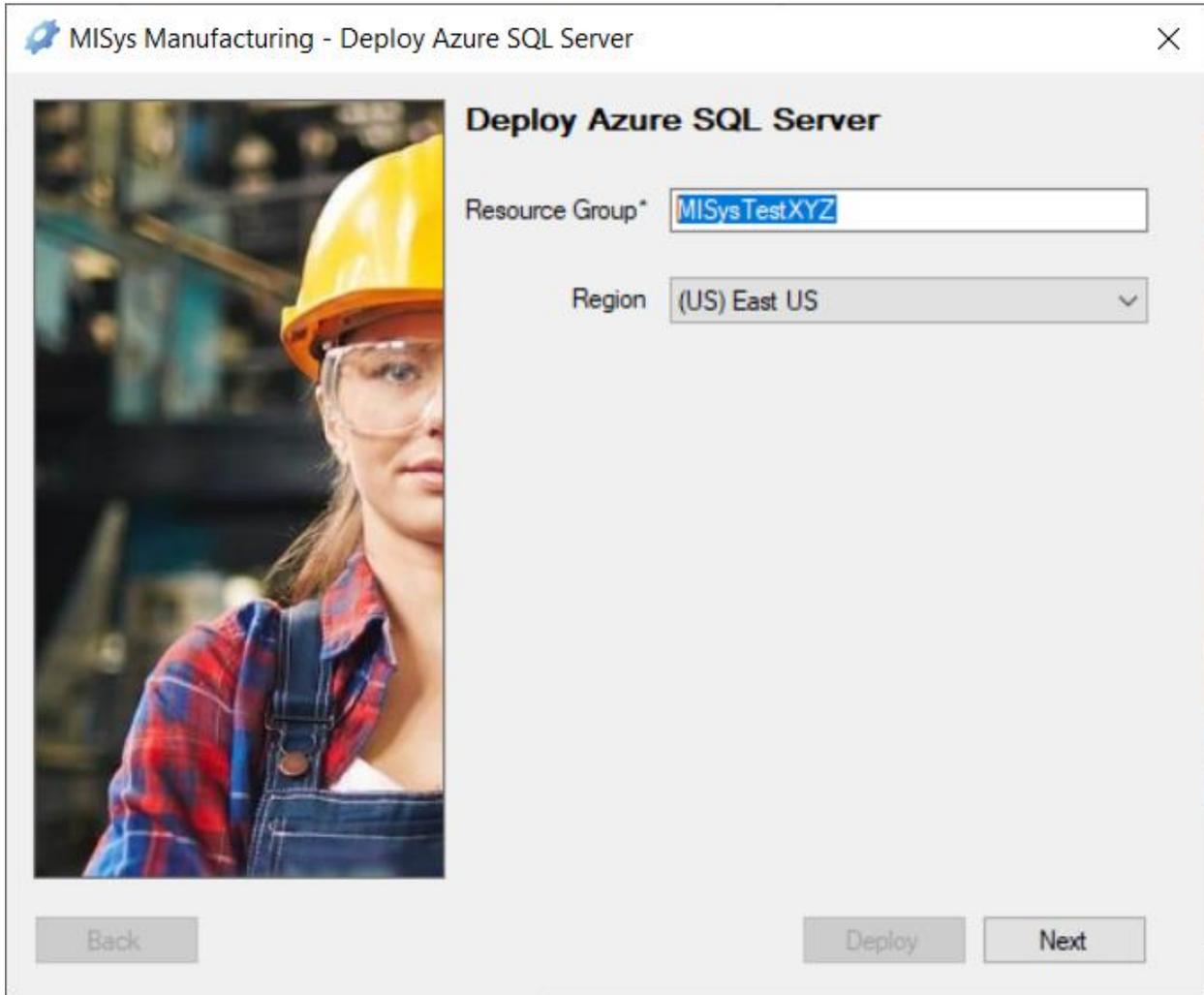


The top part of the above screen (work or personal account) was selected earlier in the installation process. Now, select which **Tenant** and **Subscription** will be used for the deployment of MISys Manufacturing in Azure.

Click **Next** when done.

Deploying SQL Server to Azure

After successfully authentication, the next step is deploying SQL Server to Azure. To do so, the installation will now display the **MISys Manufacturing – Deploy Azure SQL Server** screen seen below:



The screenshot shows a configuration window titled "MISys Manufacturing - Deploy Azure SQL Server". On the left side, there is a vertical image of a woman wearing a yellow hard hat and safety glasses. The main content area is titled "Deploy Azure SQL Server" and contains two input fields: "Resource Group*" with the value "MISysTestXYZ" and "Region" with a dropdown menu showing "(US) East US". At the bottom of the window, there are three buttons: "Back", "Deploy", and "Next".

On the above, first define the **Resource Group** for the deployment of Microsoft SQL Server in Azure. The Resource Group is a container for Resources in Azure, similar to a folder.

- If the defined Resource Group already exists in Azure, a message to that effect will be displayed as a warning...the choice can then be made to deploy within this pre-existing Resource Group, or a new Resource Group can be defined before proceeding.
- **Note the Resource Group being used. This value will be needed later in the installation.**

Then, make sure the **Region** selection is accurate for your environment. This field will default based on Microsoft recommendation based on where the installation is being run from.

Click **Next** when done.

The **MISys Manufacturing – Deploy Azure SQL Server** window will then refresh, displaying additional options, as seen in the following.

Deploy Azure SQL Server

Resource Group* MISysTestXYZ

Region (US) East US

Server Name* misysdoctest
.database.windows.net

A Firewall Rule will be created limiting server traffic to the following NAT/IP address:

NAT/IP Address* 73.149.158.254

Admin Login* misystestadmin

Password* ●●●●●●●●

Confirmation* ●●●●●●●●

Back Deploy Next

Server Name: this field is populated with the new Microsoft SQL Server Name being created in Azure for deployment of MISys Manufacturing. This must be unique to the database.windows.net domain.

- **Note this value; it will be needed later in the install process.**

NAT/IP Address: This field will be automatically populated with the IP address the client is using for login. This is determined earlier in the install process when authenticating in Azure and is configured under the Azure Active Directory in App Registrations | MISys Manufacturing Installer | Token Configuration. An Azure SQL Server Firewall rule is also automatically created during deployment to limit network traffic to this IP address. Do not change this IP address on the screen above.

- **Note:** by default, all installed Azure resources (web services, databases) will only be available to the IP address of the internet connection that MISys was installed from. To allow remote access from other IP addresses, you will need to adjust settings to allow these connections from within the Microsoft Azure portal in Network Settings for the App Service and SQL Server Resources. We recommend working with a qualified network administrator to accomplish this as this can have an impact on the security of your network and services.

Admin Login: This field allows you to define the Login ID for the Microsoft SQL login in Azure. A unique Admin Login ID must be specified, but there are rules around what value can be set here:

- The Admin Login ID cannot contain a SQL Identifier or typical system name such as Admin, administrator, sa, root, dbmanager, loginmanager, etc.
- The Admin Login ID can only include alphanumeric characters. Special characters and symbols cannot be used in this field.

Password: This field allows you to set the SQL Login password for the Admin Login ID specified above. The password definition rules are as follows:

- Password must be at least eight (8) characters in length.
- Password cannot be longer than 128 characters in length.
- Password must contain characters from three of the following four categories: English uppercase letters, English lowercase letters, numbers (0-9), non-alphanumeric special characters (!, \$, %, @, etc.).
- Password cannot contain all or part of the Admin Login ID. "Part of" the Admin Login ID is considered to be three or more consecutive characters from the Admin Login ID.

Note: be sure to note the values you enter in the Server Name, Admin Login, and Password fields. You will need to re-enter these values later in the installation process.

Click **Deploy** when done populating this page.

Creating a Backup Location in Azure

The **MISys Manufacturing – Create a Backup Location** form will then display:

MISys Manufacturing - Create a Backup Location

Create a Backup Location

An Azure Storage Account is required for backing up your MISys server.

Storage Account*

File Share*

Redundancy ▼

Lowest-cost option with basic protection against server rack and drive failures. Recommended for non-critical scenarios.

\$62.71 USD/month (estimated) billed by Microsoft

*Estimates are based on 1000 GiB of file storage. Your actual price will vary depending on the number and size of backups stored.

The above allows the creation of a Storage Account in Azure to write backups of the MISys Manufacturing database into. The goal of this is to easily enable backups to be saved in an Azure Storage Account for easy retrieval should the need ever arise to restore.

Storage Account: Enter the name of the Storage Account to be created in Azure. This should be a unique value that doesn't already exist as a Storage Account in Azure. This field can only be populated with lower-case letters and/or numbers and allows values from 3-24 characters in length.

File Share: The default name can be left here, or a specific file share name can be defined.

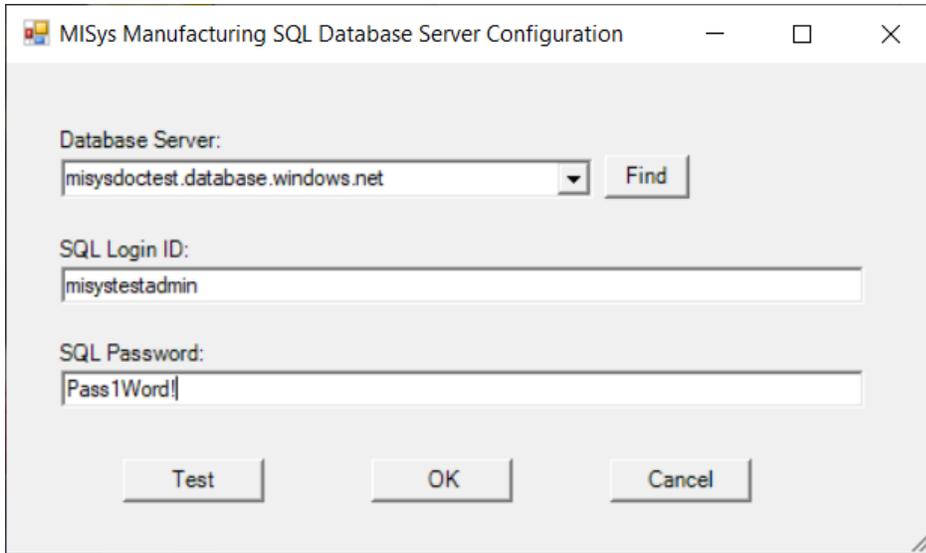
Redundancy: Select the Redundancy level from the dropdown. The selection in this field depends on the needs of your company and a brief description for each selection is provided.

Clicking **Create** on the above will create the defined new Storage Account for MISys Manufacturing backups in Azure.

Or, clicking **Cancel** will allow the installation to proceed without creating a Storage Account. In this case, the Azure Storage Account can be created later.

Connecting local MISys installation to SQL Server in Azure

Next, a **MISys Manufacturing SQL Database Server Configuration** window will display:



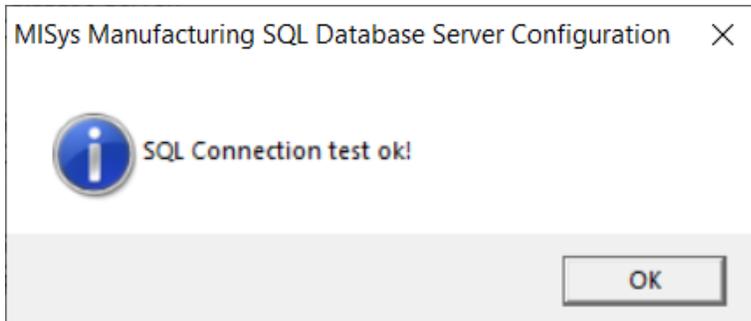
Database Server: Enter the fully qualified Azure SQL Server Name. This will always be the Server Name as defined on the screenshot two pages ago on the **MISys Manufacturing – Deploy Azure SQL Server** form, followed by .database.windows.net

- For example, if the Server Name was set to misysdoctest, the Database Server on the above would be set to: misysdoctest.database.windows.net

SQL Login ID: The Azure SQL Admin Login, as set on the same form outlined two pages ago.

SQL Password: The Azure SQL Password, as set on the same form outlined two pages ago.

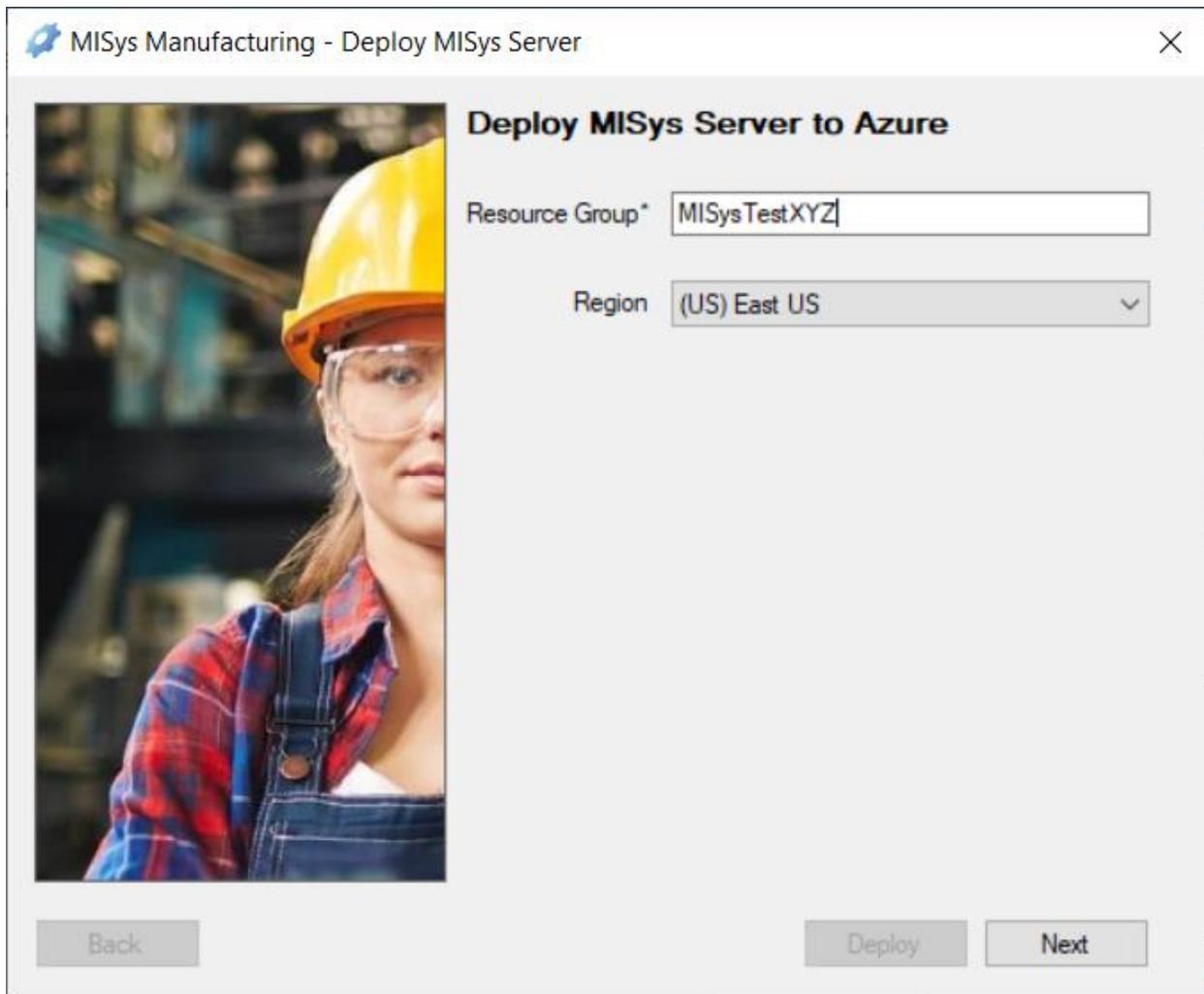
Once the Database Server, SQL Login ID, and SQL Password fields have all been populated, click the **Test** button to verify a successful connection to the SQL Database as deployed in Azure. A successful Test of the connection will display a success dialog message:



Click **OK** on this success message, then OK on the previous screen to advance to the next phase of the installation.

Deploying MISys Server Functions in Azure

This will display the **MISys Manufacturing – Deploy MISys Server** form, as seen below:



MISys Manufacturing - Deploy MISys Server

Deploy MISys Server to Azure

Resource Group* MISysTestXYZ

Region (US) East US

Back Deploy Next

On the above, first define the **Resource Group** for the deployment of the MISys Server and Microsoft IIS in Azure. The Resource Group was defined earlier in the installation and the same Resource Group is now to be used for deploying the MISys Server and IIS in Azure.

Then, make sure the **Region** selection is accurate for your environment. This field will default based on Microsoft recommendation based on where you're installing from.

Click **Next** when done.

The screen will refresh, now showing additional fields to populate, as seen in the following.

Pricing Tier: Click the dropdown to select the Azure Pricing Tier for deployment of MISys.

- Note that it is important to reviewing the chosen Azure Pricing Tier to ensure the plan meets your MISys Manufacturing processing requirements.

Service Name: This value must be set to be unique to the **azurewebsites.net** domain.

- **Note this value as it will be needed later in order to log into MISys Manufacturing when deployed to Azure.**

NAT/IP Address: This field will be automatically populated with the IP address the client is using for login. This is determined earlier in the install process when authenticating in Azure and is configured under the Azure Active Directory in App Registrations | MISys Manufacturing Installer | Token Configuration. An Azure Firewall rule is also automatically created during deployment to limit network traffic to this IP address. Do not change this IP address on the screen above.

- **Note:** by default, all installed Azure resources (web services, databases) will only be available to the IP address of the internet connection that MISys was installed from. To allow remote access from other IP addresses, you will need to adjust settings to allow these connections from within the Microsoft Azure portal in Network Settings for the App Service and SQL Server Resources. We recommend working with a qualified network administrator to accomplish this as this can have an impact on the security of your network and services.

When done, click **Deploy** to deploy the MISys Server and Microsoft IIS to the defined Resource Group in Azure. Watch for a success message to display when this process completes.

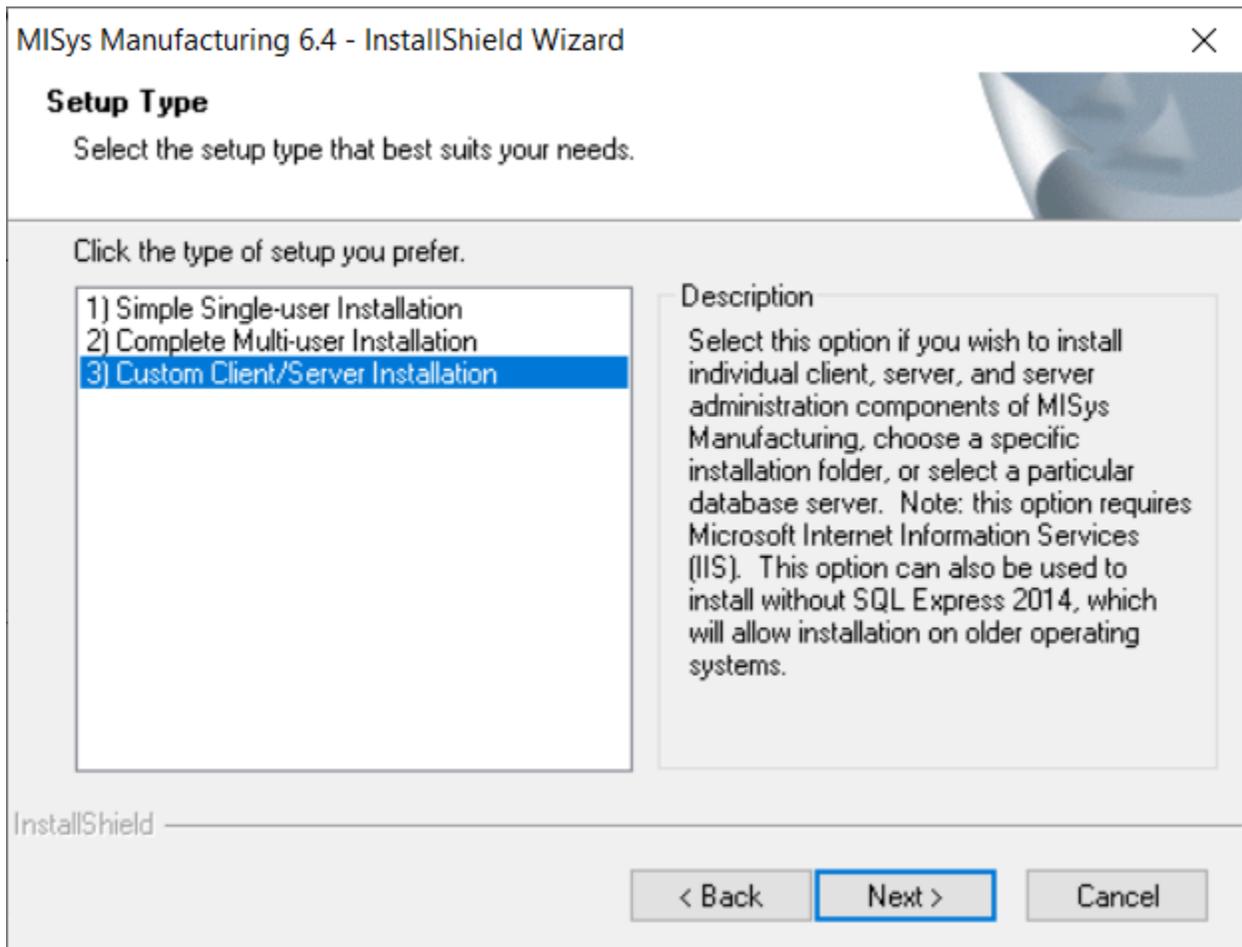
Installing the MISys Client Application

The MISys Client application will need to be installed and configured to connect to the MISys Server hosted in Azure. The first step is installing the MISys Client application, which uses the same installation file downloaded earlier for the MISys Server installation.

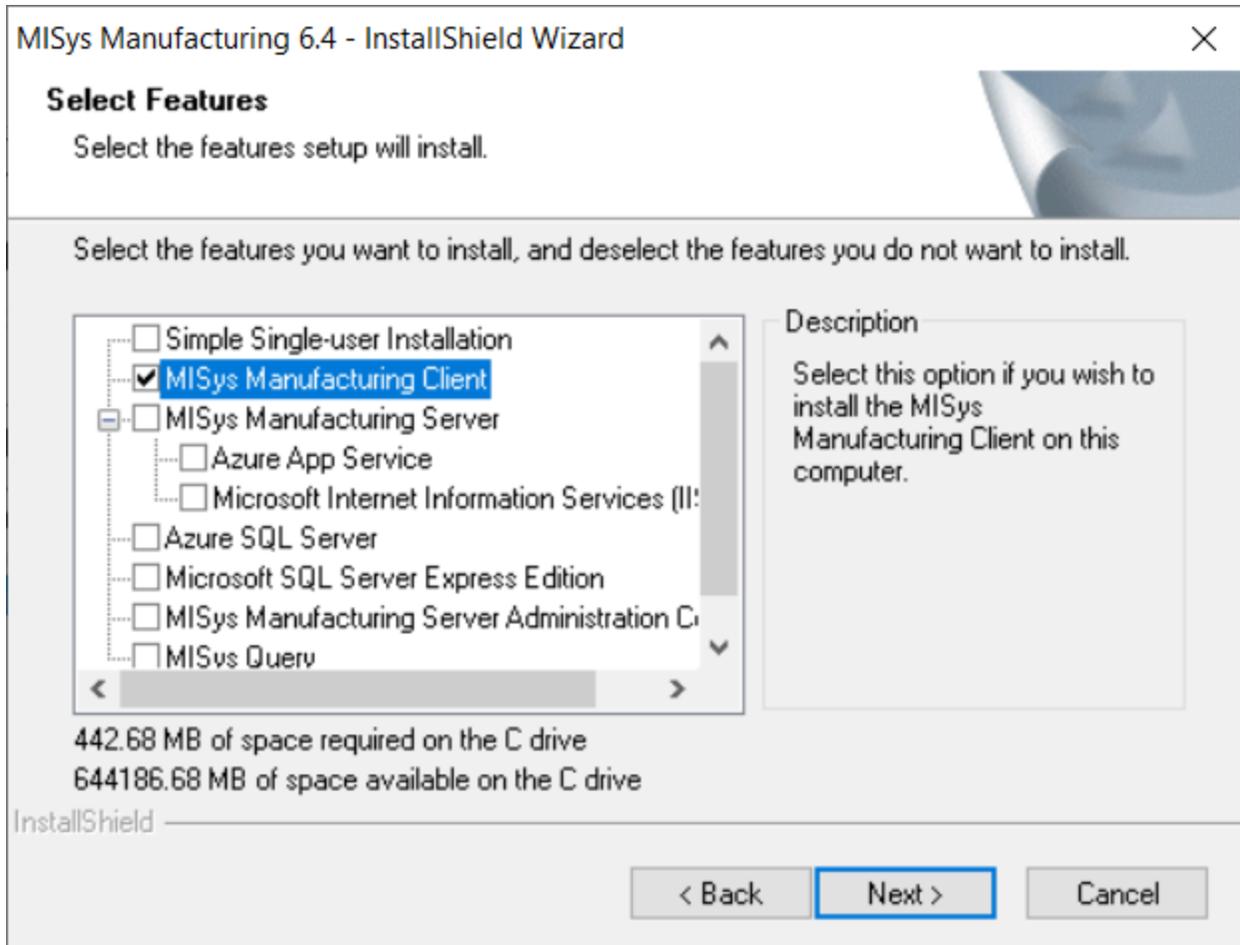
To begin the installation, make sure the MISys Manufacturing installation file is downloaded and local to the machine where the installation is being run.

Note: for best results, it's advisable to right-click on the install file and "Run as Administrator" to begin installation vs. double-clicking the file. This helps ensure the installation is run with local admin rights.

During the installation of MISys Manufacturing, you'll see this Setup Type screen allowing the choice of three different installation modes:



The MISys Client application installation requires choosing Option **3) Custom Client/Server Installation**, on the screen above. When done, click **Next**. Then, click **Next** on the Choose Destination Location screen (not pictured) to display the following screen, the **Select Features** page.



If only installing the MISys Client application, the only required choice in the above is the **MISys Manufacturing Client** option. Two other possible installation options to select when running a Client installation would be:

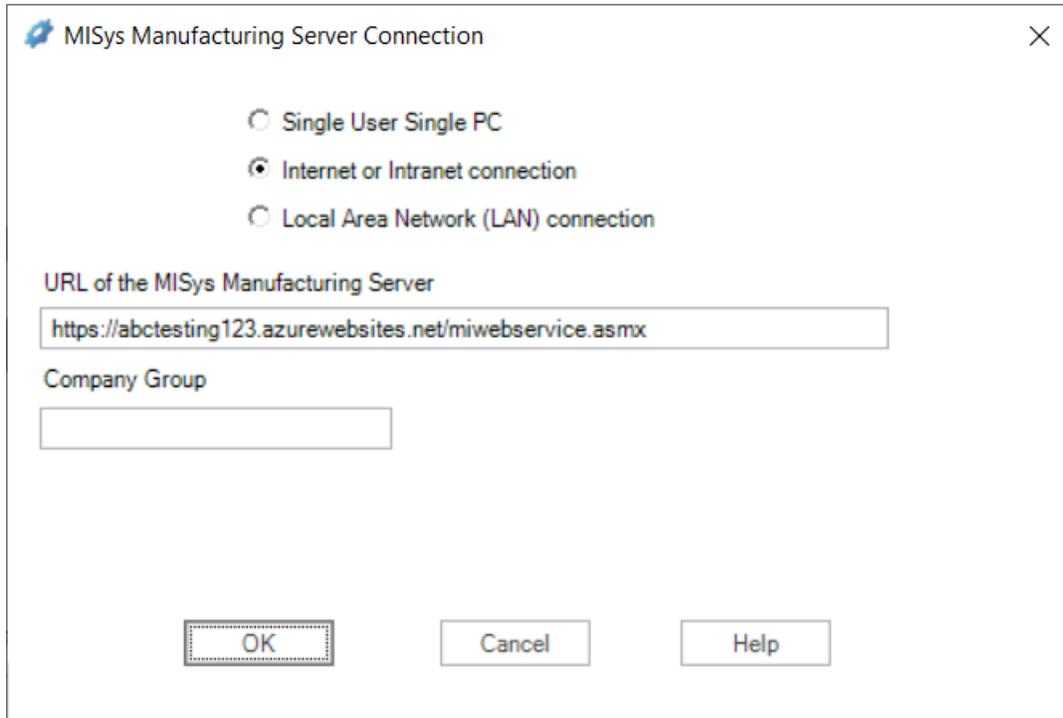
- **MISys Manufacturing Server Administration Console:** this option can be chosen to allow a local installation of the MISys Server Administration Console.
- **MISys Query:** this option can be chosen to allow a local installation of MISys Query. (This is a no-longer supported third-party custom reporting option, making this a legacy option which is only to be selected if already licensed to use MISys Query.)

Most commonly, a Client installation would require only the MISys Manufacturing Client option to be chosen, as seen above. This is sufficient if the goal is only to allow processing in the MISys Client application on this machine where the installation is being run.

Note: a client-side installation of MISys Manufacturing would, at most, have the three options outlined here selected. None of the other options would ever be needed for a client-side installation. Meaning, there is nothing Azure-specific required during the MISys Manufacturing Client installation.

Connecting the MISys Client application to Azure

After the installation completes, open the MISys Manufacturing login screen and click **Edit | Server Connection** to display the following **MISys Manufacturing Server Connection** window:



In the above, the **Internet or Intranet connection** option would be selected to configure a connection to the MISys Server deployed in Azure.

The URL then needs to be configured as follows:

<https://SERVICENAME.azurewebsites.net/miwebservice.asmx>

In the above, replace **SERVICENAME** in the URL with the Service Name specified when deploying MISys Server to Azure. A few pages ago, in the screenshot for **MISys Manufacturing – Deploy MISys Server**, note the Service Name was set to *abctest123*.

So, as seen in the example immediately above, the URL would be configured as:

<https://abctest123.azurewebsites.net/miwebservice.asmx>

Once the URL has been updated to reflect proper connection to the MISys Server in Azure, as seen above, the MISys Manufacturing login should work without issue.

- Note: Company Group can typically be left blank, unless a Company Group has been assigned in MISys Server Administration to segregate visibility to Company files.

End-user License Agreement

IMPORTANT — READ CAREFULLY: This End-User License Agreement (“EULA”) is a legal agreement between You (“You” and “Your” includes a person and/or an individual entity) and Manufacturing Information Systems, Inc., its subsidiaries and affiliates (collectively “MISYS”) concerning specified software product(s) (hereinafter referred to as “SOFTWARE PRODUCT” or “SOFTWARE”). The SOFTWARE PRODUCT includes computer software with object code component parts, all other component parts, the associated media, any printed materials, any updates, and any “online” or electronic documentation, as applicable.

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1. b. Activation. Exercise of the license granted herein requires that You acquire a serial number from MISYS and that You enter the serial number at a time so required by the Software.

1. c. Single Database. Your license of this Software authorizes You to create and maintain one set of data files comprising the Software Database regardless of where that database is physically located. You may create copies of the Database for backup or archival purposes only.

1. d. Additional Databases. At the sole discretion of Manufacturing Information Systems, Inc., you may be granted a license to create one or more additional Software Databases provided that you have installed and are using this software in compliance with this License Agreement.

1. e. NFR Evaluation. If this Software is licensed as evaluation software (not for resale), You may not under any circumstance sell or otherwise transfer the license for the Software to any other party. You may temporarily install this evaluation Software on a single computer or workstation, or personal digital assistant, or pager, or “smart phone,” or one such other electronic device for which the Software was designed (“Client Device”), unless otherwise set forth herein. During the time this evaluation Software is installed, you may not use the Software to create a Software Database for the benefit of any party who is now, or may in the future become, a licensed user. The component parts of the Software may not be used individually or jointly in full or in part on more than one Client Device, unless otherwise set forth herein. The Software is “in use” on a computer when it is loaded into the temporary memory (i.e., random-access memory or RAM) of that Client Device.

1. f. License Fees. Your use of this Software requires the payment of an initial license fee and an annual maintenance fee. If You fail to make these payments when due, your license will lapse and your software will cease to function.

2. Term. This Agreement is effective unless and until You or MISYS terminates it in accordance with the terms set forth herein. You are responsible for strict compliance with any and all of the terms and conditions of this License. This Agreement will terminate automatically if You fail to comply with any of the limitations or other requirements described herein, and such termination shall be in addition to and not in lieu of any criminal, civil or other remedies available to MISYS.

3. Updates. MISYS may, at its sole discretion, make bug fixes, updates and/or service packs available. MISYS' telephone support service, is available at an additional cost to You, as Licensee, under a separate written agreement.

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15. MISYS Customer Contact. If You have any questions concerning these terms and conditions, or if You would like to contact MISYS for any other reason, please call (802) 457-4600, or write to us at:

Manufacturing Information Systems, Inc., 217-4 Maxham Meadow Way, Woodstock, VT 05091 USA.

You may also reach us at www.misysinc.com.