

A series of thin, overlapping, wavy lines in shades of light blue and green flow across the middle of the page, creating a sense of motion and depth.

SERVICE AND CLIENTS INSTALLATION GUIDE

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1 Introduction

This document is a guide for installing AppMill Service and PHP Clients. The document provides a summary of the installation instructions including the requirements and installation steps.

Please follow the Installation Guide instructions in the presented order. The AppMill Service must be installed first before the AppMill Clients, as the AppMill Clients installation depends on the AppMill Service installation.

Before you begin the installation, it would be advised to view the Pre-Installation Requirements and ensure that your system and resources meet the recommended requirements.

2 Pre-Installation Requirements

2.1 AppMill Service Requirements

	Recommended Requirements
RAM	8 GB or more recommended free memory
HDD	2G or more
OS	Windows: 10
Browser	- Chrome - Microsoft Edge It is not recommended to use versions older than 2 years. The browser window width must be at least 769 pixels. In case the browser window width is less than 769 pixels, some features of the Screen Builder may work incorrectly in the Architect application.
Database	- MySQL Server 8.0 and more - PostgreSQL 12.8 and more - Oracle 19 and more - MSSQL 15.0.2101.7 and more - SQLite 3.30.1 and more

2.2 AppMill Clients Requirements

	Recommended Requirements
RAM	2 GB or more recommended free memory
HDD	3G or more
PHP	All versions from 7.3 to 7.3.29
Browser	- Chrome - Microsoft Edge It is not recommended to use versions older than 2 years. The browser window width must be at least 769 pixels. In case the browser window width is less than 769 pixels, some features of the Screen Builder may work incorrectly in the Architect application.

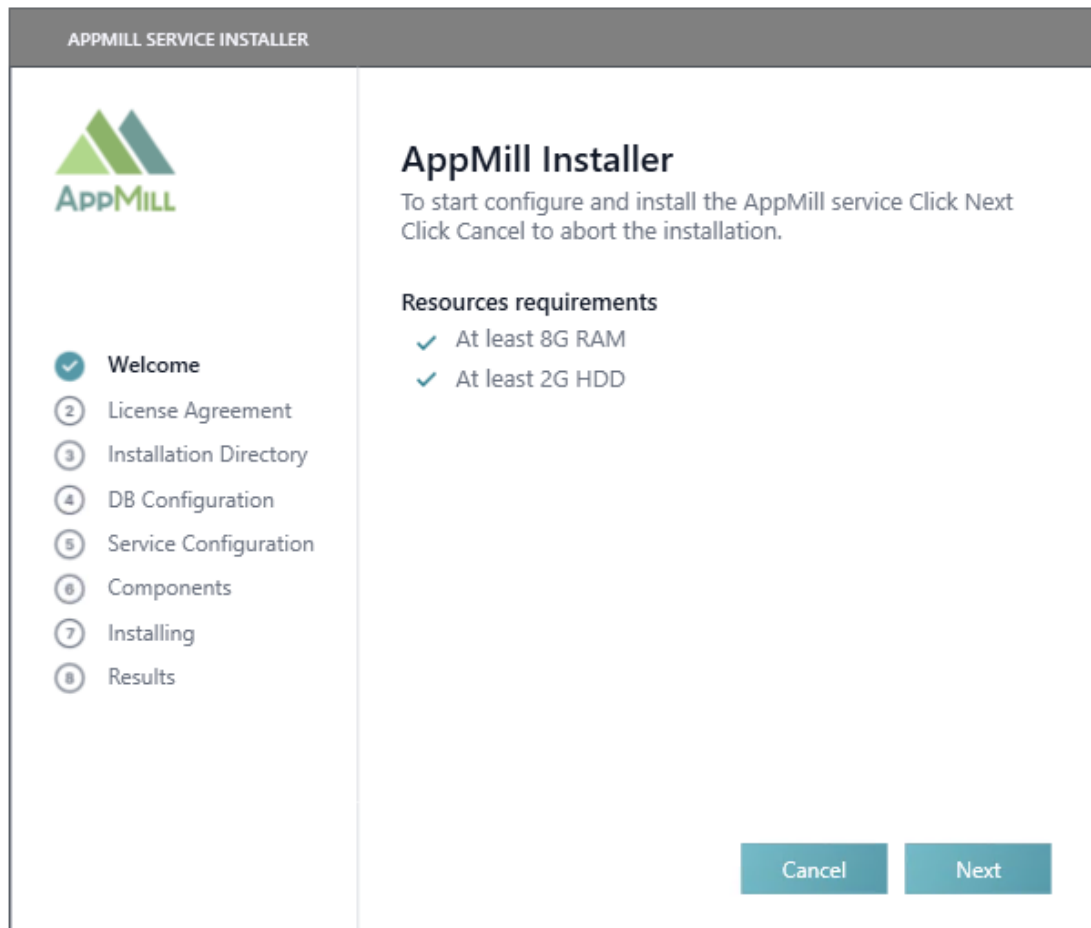
3 AppMill Service Installation

3.1 Install AppMill Service

To install the AppMill Service, please follow the steps below:

3.1.1 Welcome step

To start AppMill Service configuration and installation process, open and run the *AppMillService.msi* file. The file contains the data and logic to install AppMill Service. The AppMill Installer pop-up window opens:



On the left side, there is a list of installation steps. The progress of the installation process is displayed here. The current step is highlighted and indicated with a number. The steps passed are indicated with the check-mark. The next steps to be performed are indicated with numbers and are grey until you pass them.

On the right side, you can see the actual installation step and the related details.

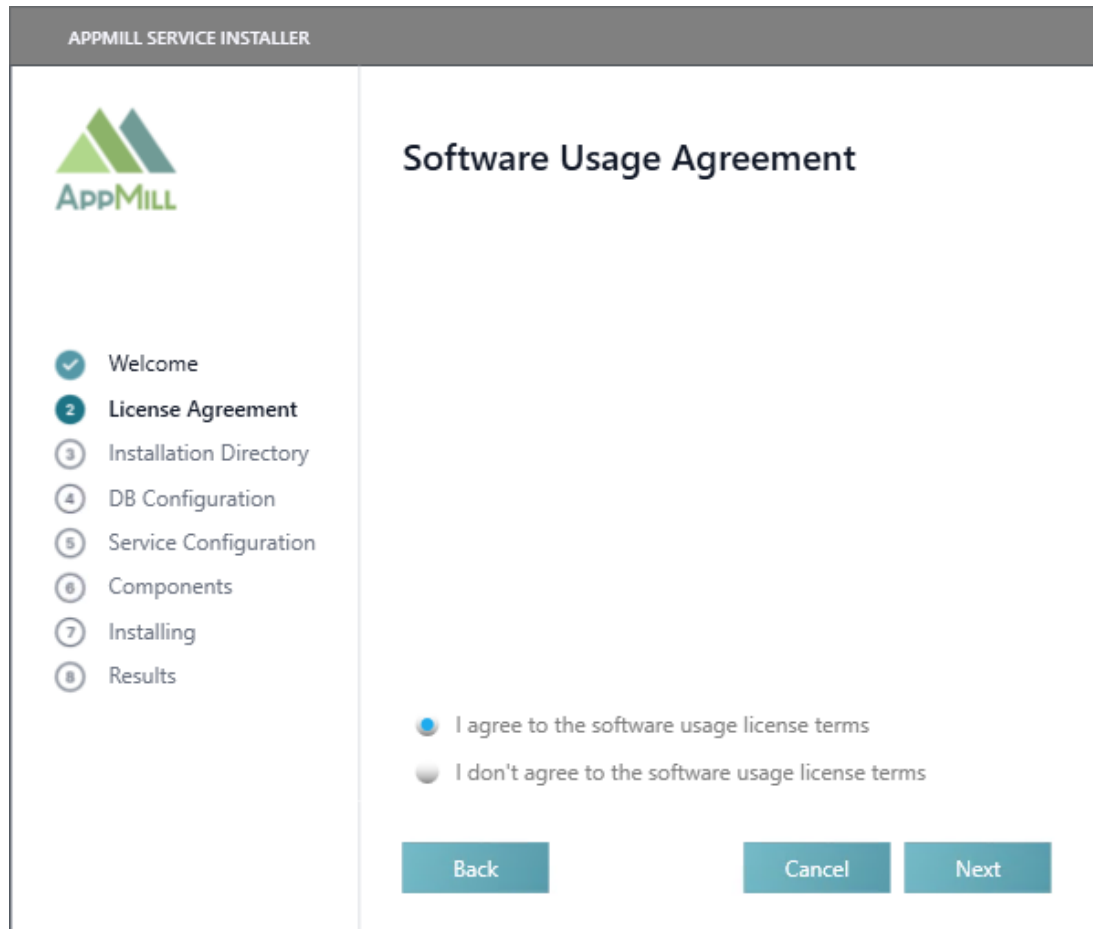
Please pay attention to the Resources Requirements and ensure that your resources meet the requirements. In case the space of RAM or HDD is not enough, the corresponding message will be displayed. To proceed with the installation process, you will need to fix the memory issue and free some memory space.

To start the process of configuration and installation and to go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

3.1.2 License Agreement

To proceed with the installation process, you need to agree to the software usage license and select the proper option.



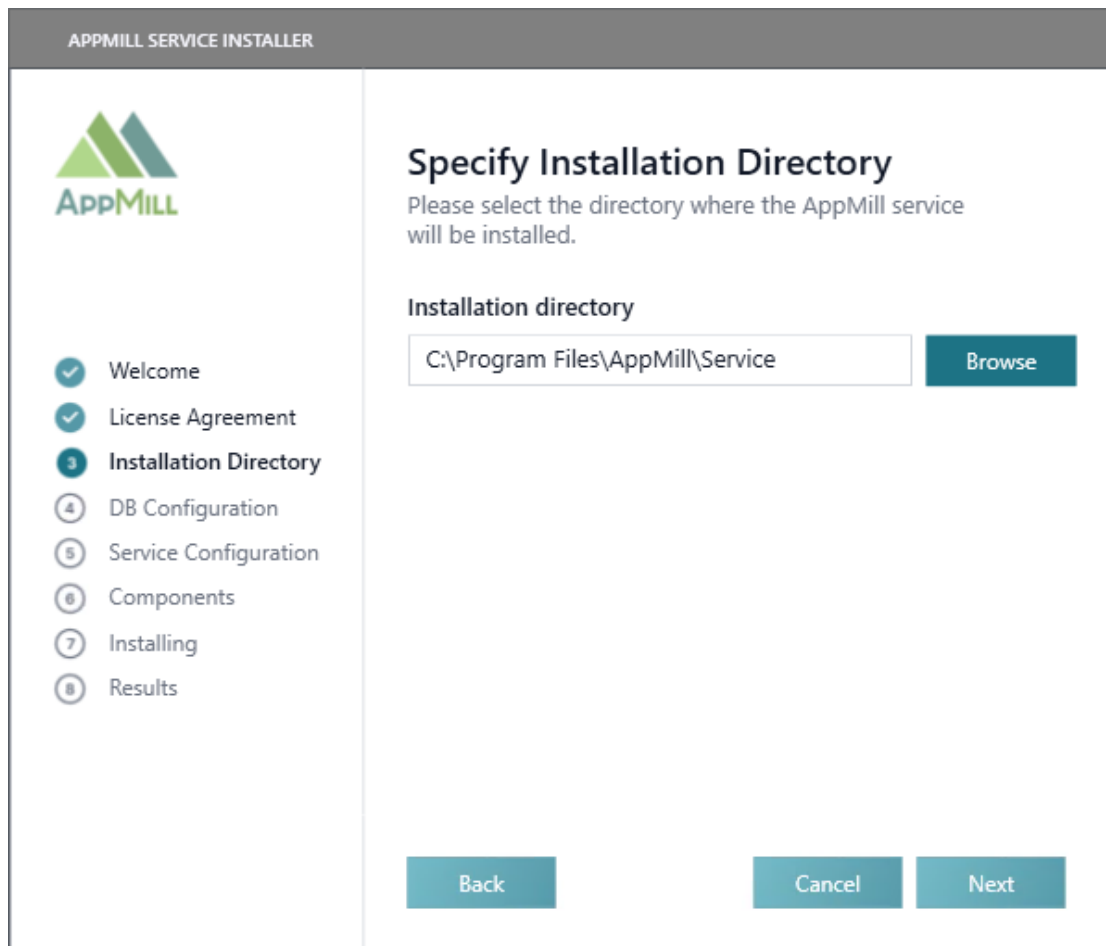
To return to the previous step, click the **Back** button.

To proceed with the installation process and go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

3.1.3 Installation Directory

On the next installation step, select the directory where the AppMILL Service will be installed. There are no restrictions to the directory to be selected: it can be any available location on your computer.



To return to the previous step, click the **Back** button.

To proceed with the installation process and go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

3.1.4 Database Configuration

On the next installation step, you can select and configure the Database that will be used when launching the AppMill Service. You can either select the existing database or configure a new one.



- ✓ Welcome
- ✓ License Agreement
- ✓ Installation Directory
- 4 DB Configuration**
- 5 Service Configuration
- 6 Components
- 7 Installing
- 8 Results

DB configuration

Set the DB configuration that will be used at the starting the AppMill service

Mode

Use existing database

Type

Postgres

Host

10.0.2.82

Port

5432

Name

appmill

Back

Cancel

Next

Set the following data:

- **Mode** - select the mode to define whether the existing database should be used or new database should be created.
 - Use existing database
 - Create new database
- **Type** - select the database management system type from the drop-down options. Currently the following DBMS types are supported:
 - Postgres
 - MSSQL
 - Oracle
 - MySQL
 - SQLite
- **Host** - specify the host where the database will be set.
- **Port** - specify the port to connect the database. The port value is defined based on the database type and can be pre-populated with default value.
- **Name** - enter a database name that will be connected to.
- **User** - enter a user name.
- **Password** - enter the password for the connection to the database.

The **User** and **Password** values will be used to connect the database. When creating a new database, the user will be created (if there was none). You can use here the same values as in the **Database admin name** and **Database admin password** fields.

For the case when you create and configure a new database, you need to specify user with the admin

rights. When you have selected the **Create new database** in the Mode drop-down, two additional fields appear:

- **Database admin name** - enter database admin user name.
- **Database admin password** - enter a password for database admin user account.

Password Requirements can differ depending on the Database types.

Password Requirements for MSSQL are:

- The password must not contain the account name of the user.
- The password is at least eight characters long.
- The password contains characters from three of the following four categories:
 - Latin uppercase letters (A through Z)
 - Latin lowercase letters (a through z)
 - Base 10 digits (0 through 9)
 - Non-alphanumeric characters such as: exclamation point (!), dollar sign (\$), number sign (#), or percent (%).

In case the password does not match the listed criteria, the corresponding message will be displayed.

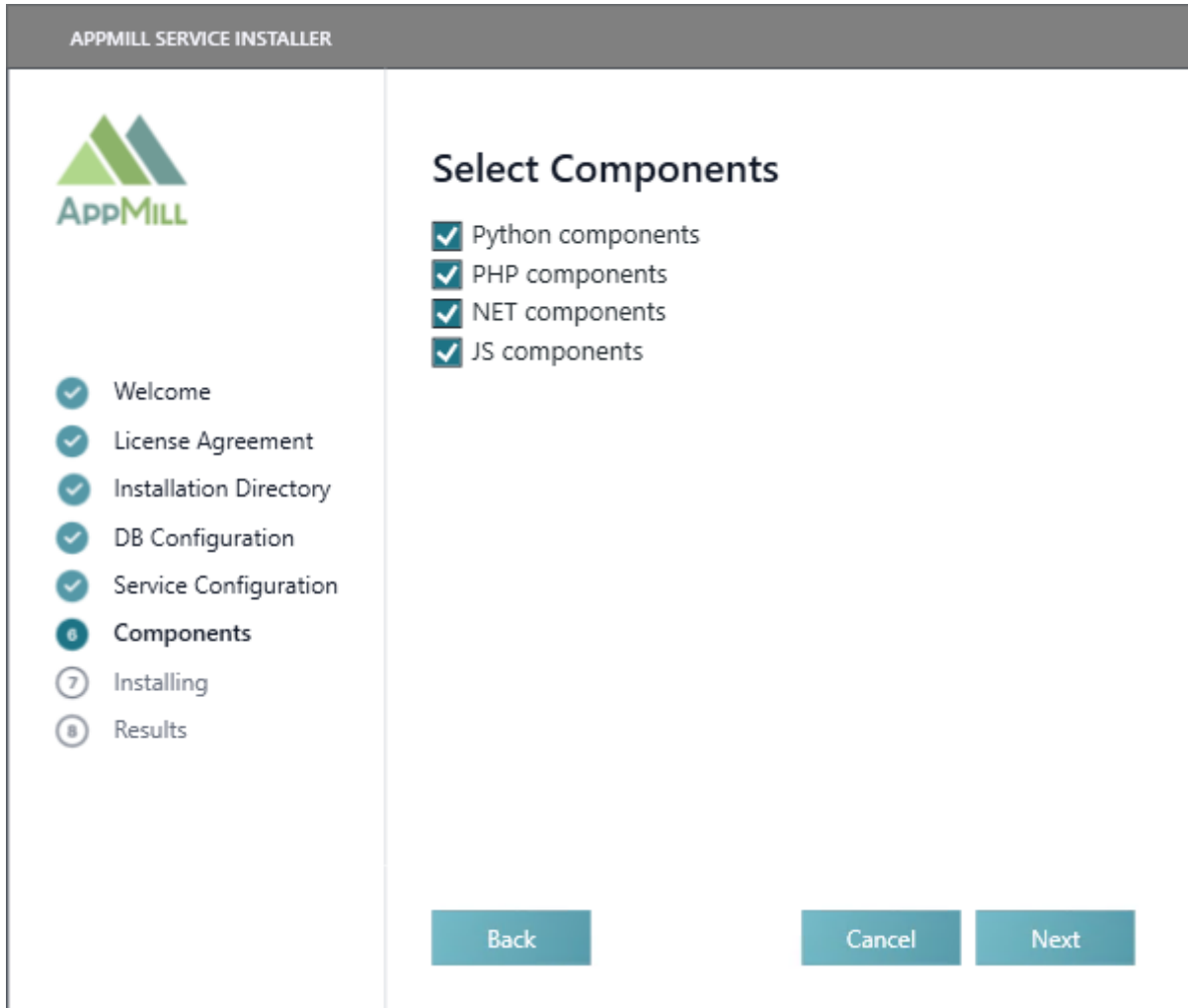
To return to the previous step, click the **Back** button.

To proceed with the installation process and go to the next installation step, click the **Next** button.

To abort the installation and close the window, click the **Cancel** button.

3.1.5 Service Configuration

On the next installation step, you can configure AppMill Service.



Check the corresponding check boxes to select/deselect the required components.

The selection depends on the components used in the applications. The possibility to select/deselect the desired components allows you to save the space and improve the performance.

The following components can be selected to be installed with the AppMill service application:

- **Python components** - select this check box to add components for the **Python** programming language.
- **PHP components** - select this check box to add components for the **PHP** programming language.
- **.NET components** - select this check box to add components for the **C#** programming language.
- **JS components** - select this check box to add components for the **JavaScript** programming

 Pay attention that:

1. **COBOL components** can only be added to the already-installed AppMill service application.
2. **COBOL components** are the separate components that can be installed by the Patcher. More detail about patcher usage can be found in the Service Patcher documentation. The instructions needed for the patch with COBOL components are provided in a separate accompanying patch document. This accompanying document is provided for every patch separately and contains additional information about how to prepare for the patcher installation and how to use the added features.

language.

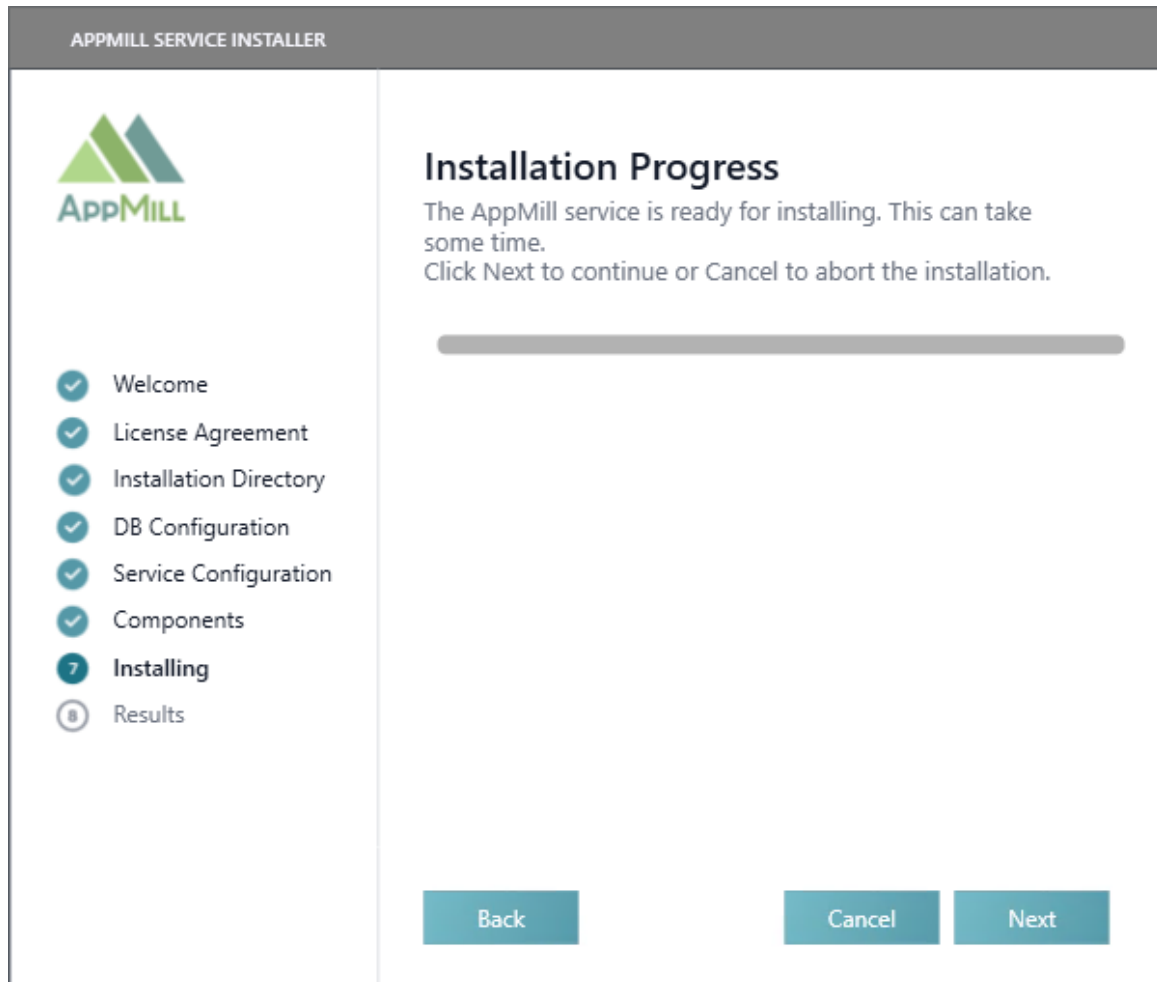
To return to the previous step, click the **Back** button.

To proceed with the installation process and go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

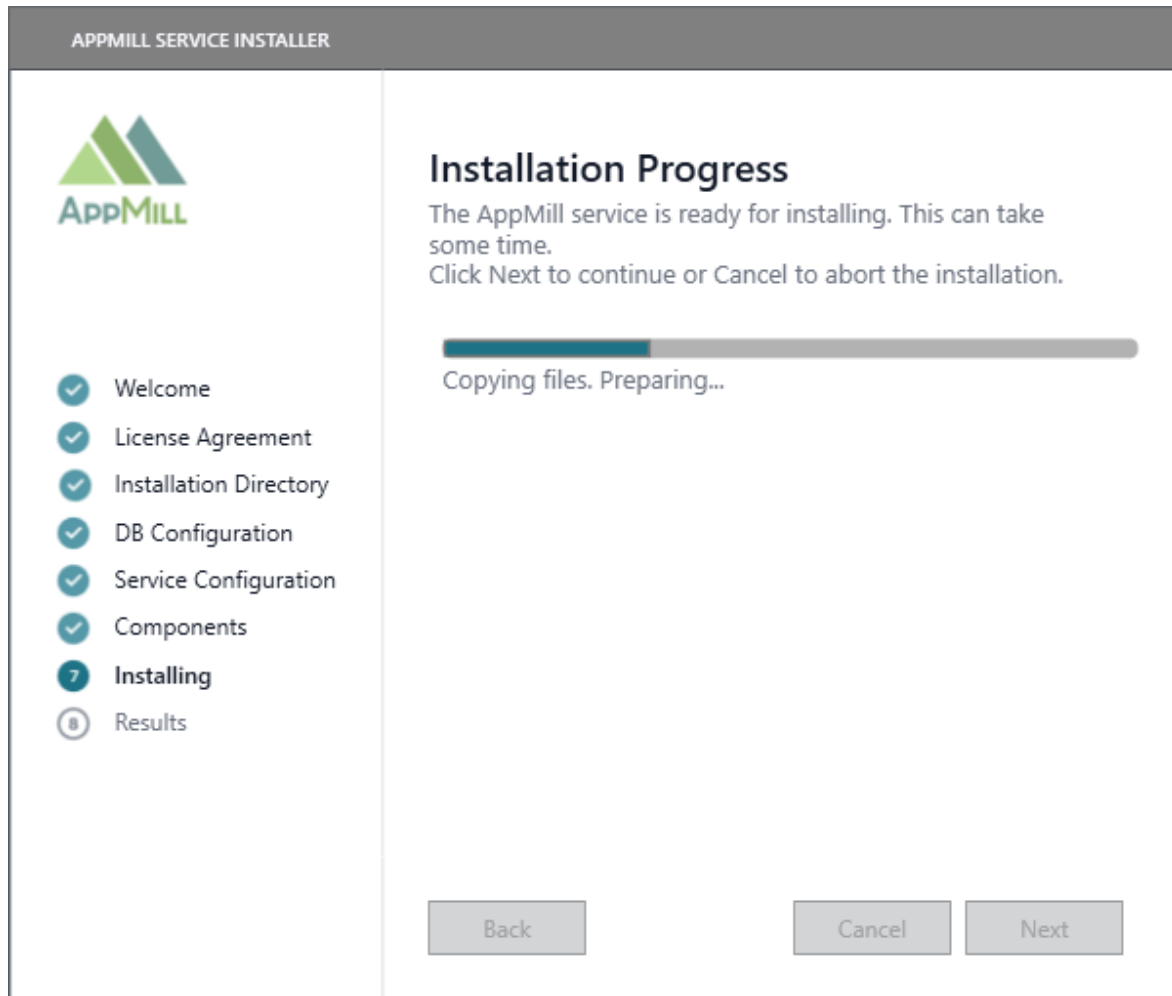
3.1.7 Installing

When all installation steps are executed, the AppMill service is ready for installation.

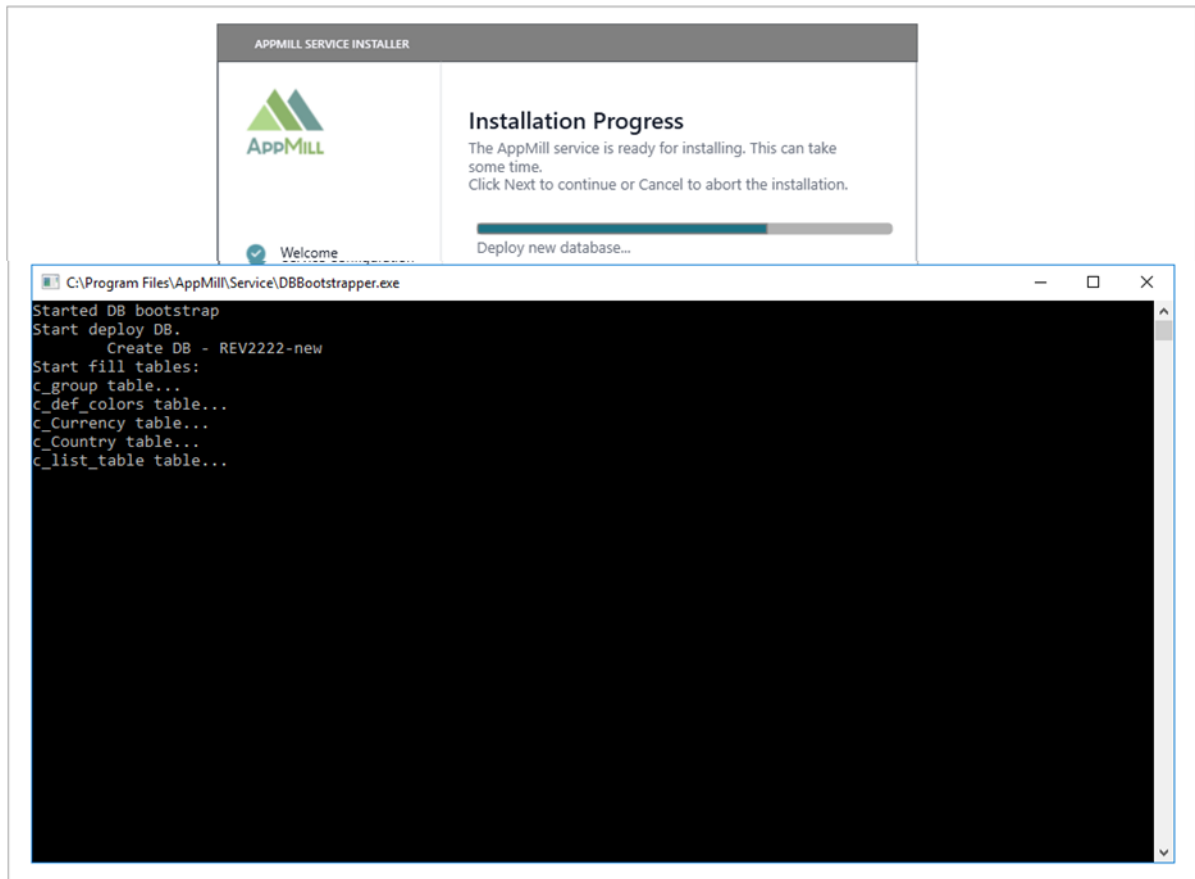


Click the **Next** button to proceed with the installation. To abort the installation process, click the **Cancel** button.

You can view the progress of installation process and the activity steps that are currently executed in the progress bar.



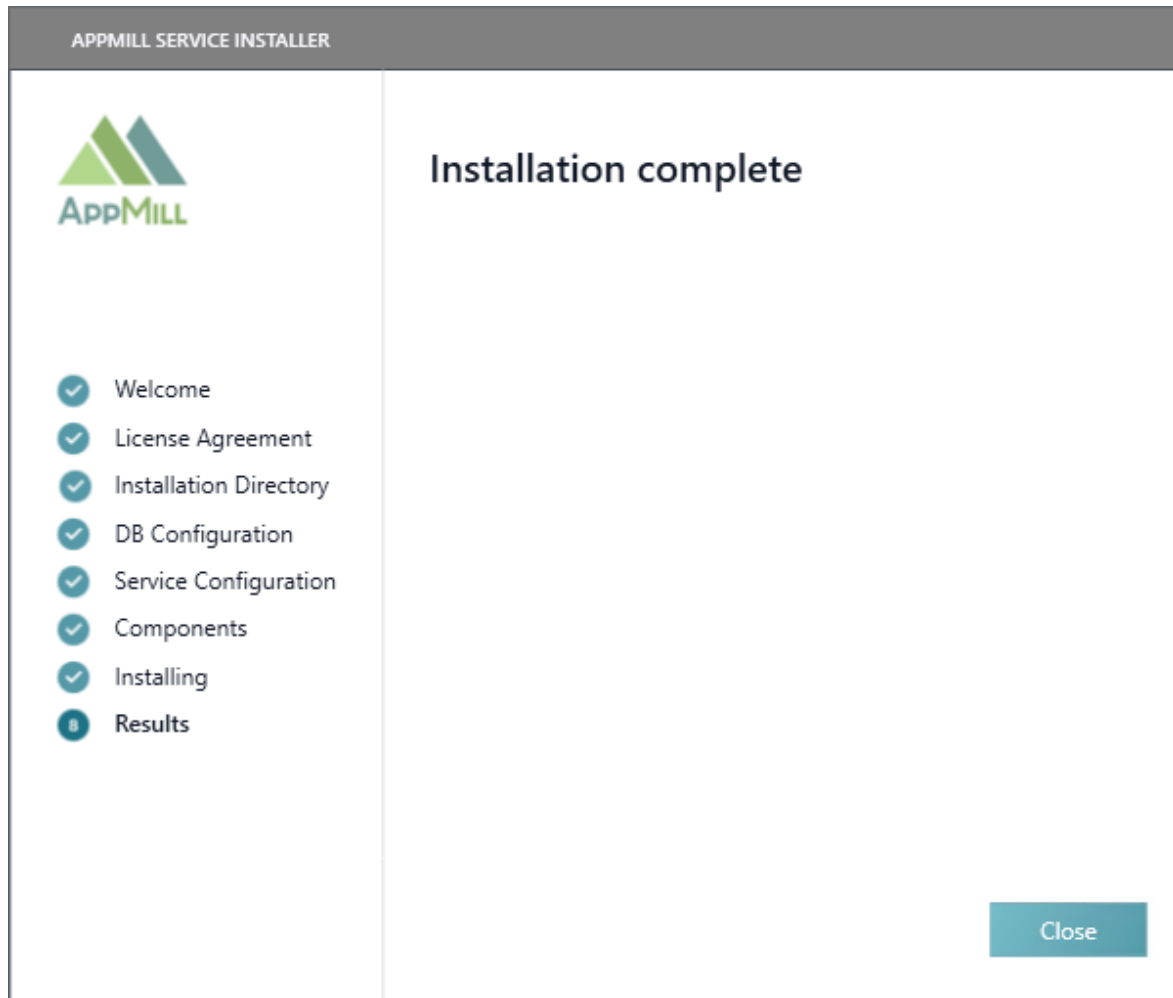
On the step of database creation, a terminal appears where you can view the information about the database deployment and database tables filling.



After successful database deployment, the installation is completed.

3.1.8 Results

When the Service installation is successfully completed, you will see the results of the installation process.



In case any errors or problems occur during the installation process, the corresponding error message will be displayed. The log file with the details will be available for downloading.

You can close the AppMill Service Installation pop-up window by clicking the **Close** button and proceed to the next phase of installation: AppMill Clients Installation.

3.2 Repair AppMill Service

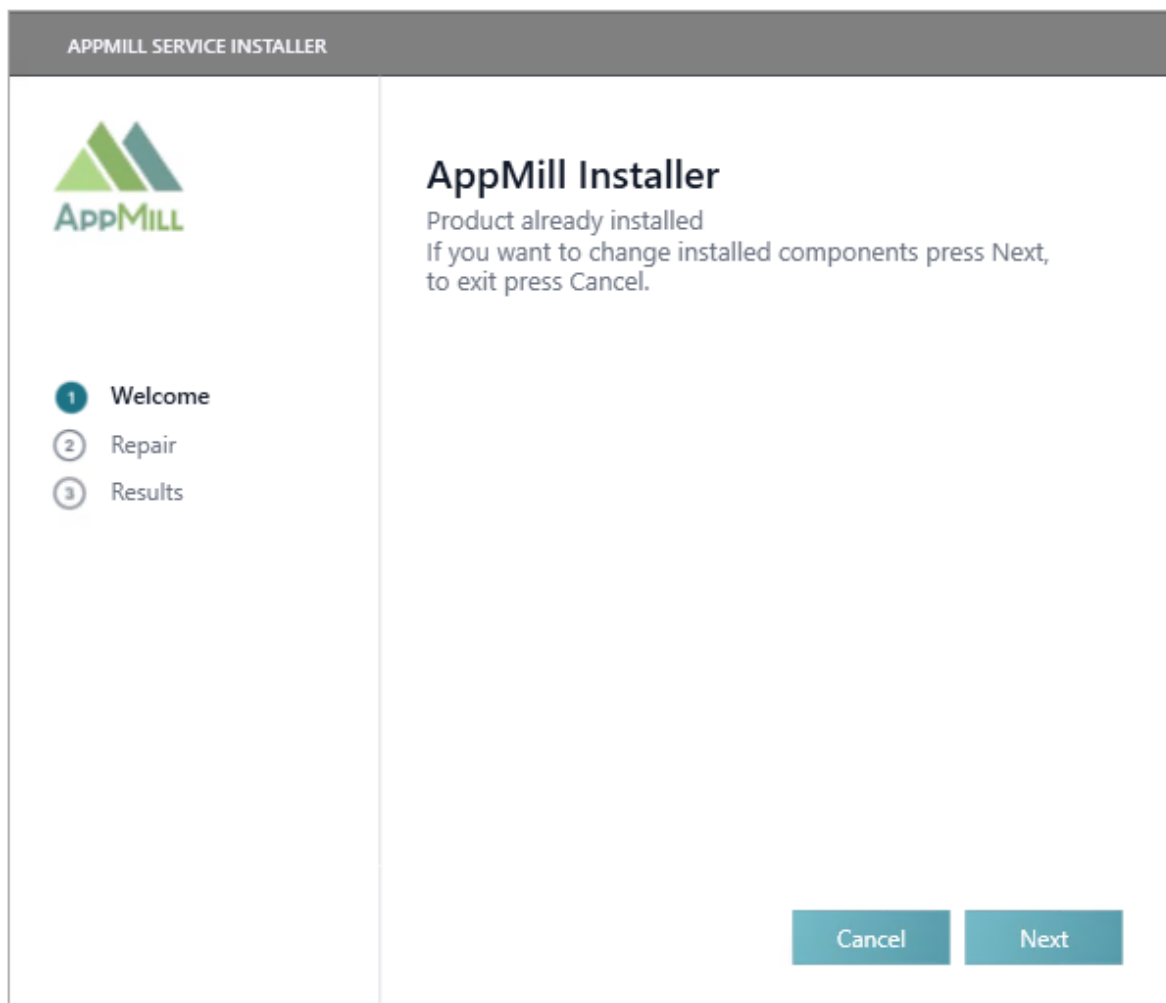
In case you need to make changes in the Service that has been already installed, you can repair and re-install it.

For this, run the AppMill Service Installer file (*AppMillService.msi*).

The system detects that the Service has been already installed and it needs to be configured again. The corresponding pop-up window will be opened.

3.2.1 Welcome

The opened pop-up window and the first step looks as follows:

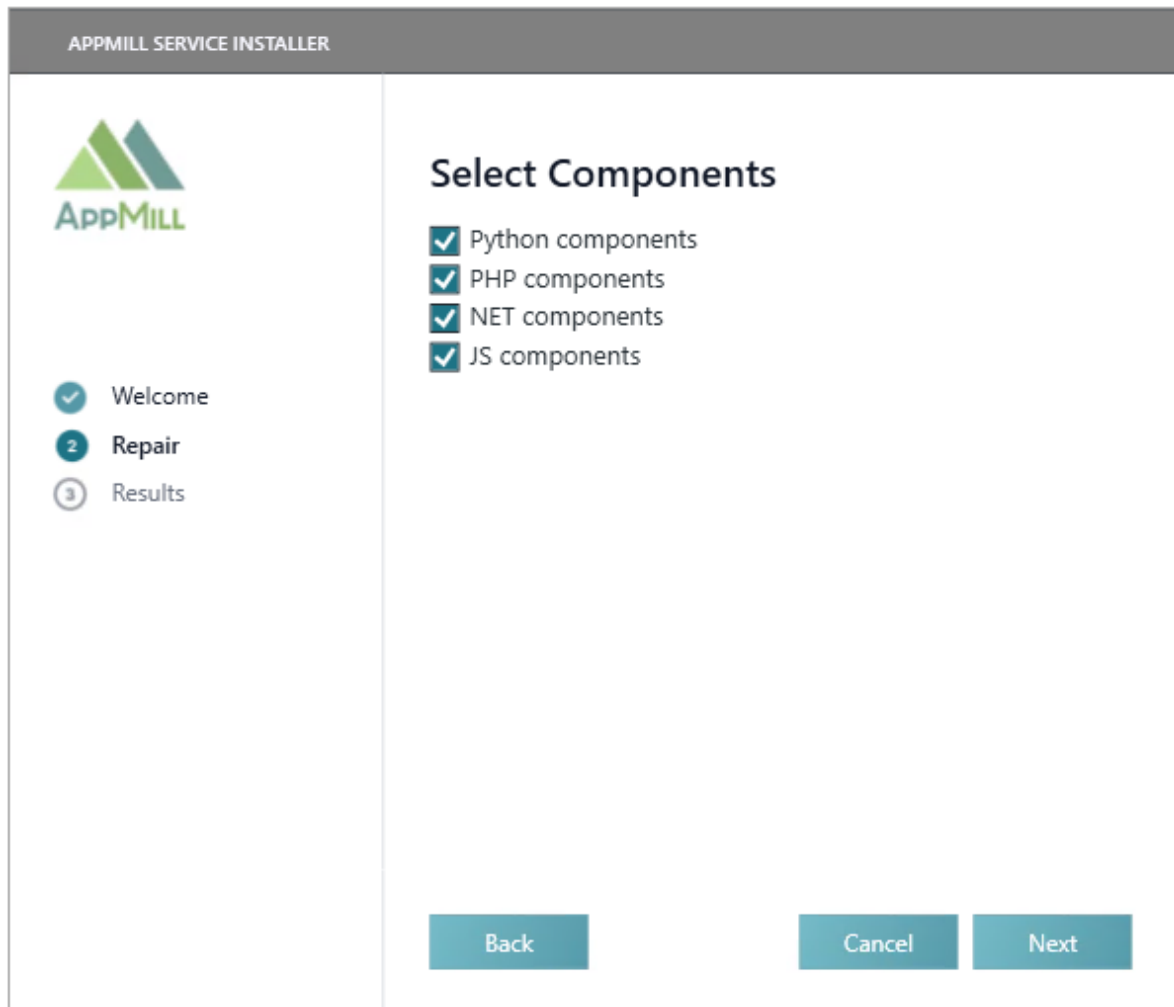


To proceed with the changing the Service configuration, click the **Next** button.

To abort the process and close the window, click the **Cancel** button.

3.2.2 Repair

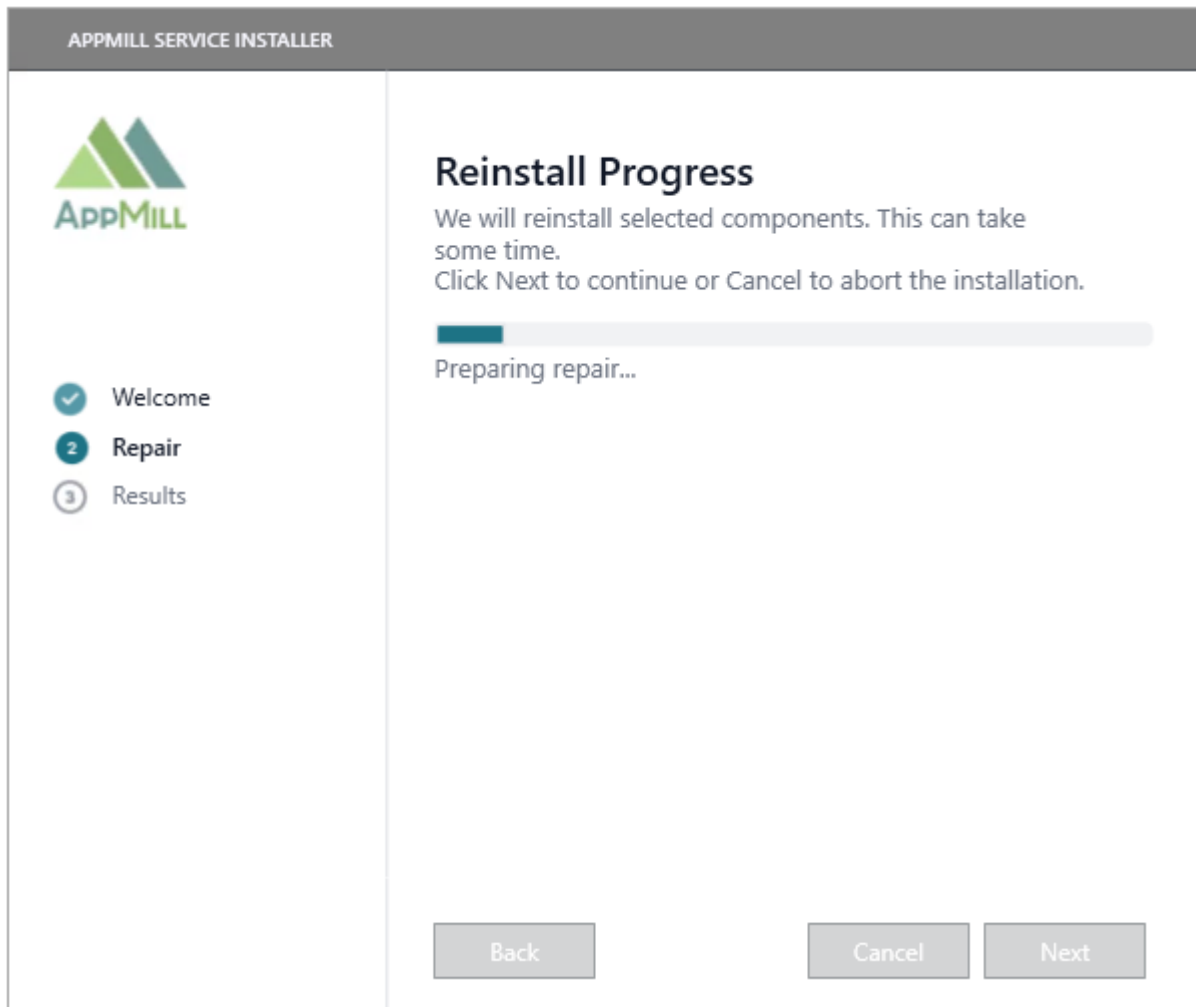
On the next step, you can change the list of installed components by selecting or deselecting any of the listed components.



To return to the previous step, click the **Back** button. To abort the process and close the window, click the **Cancel** button.

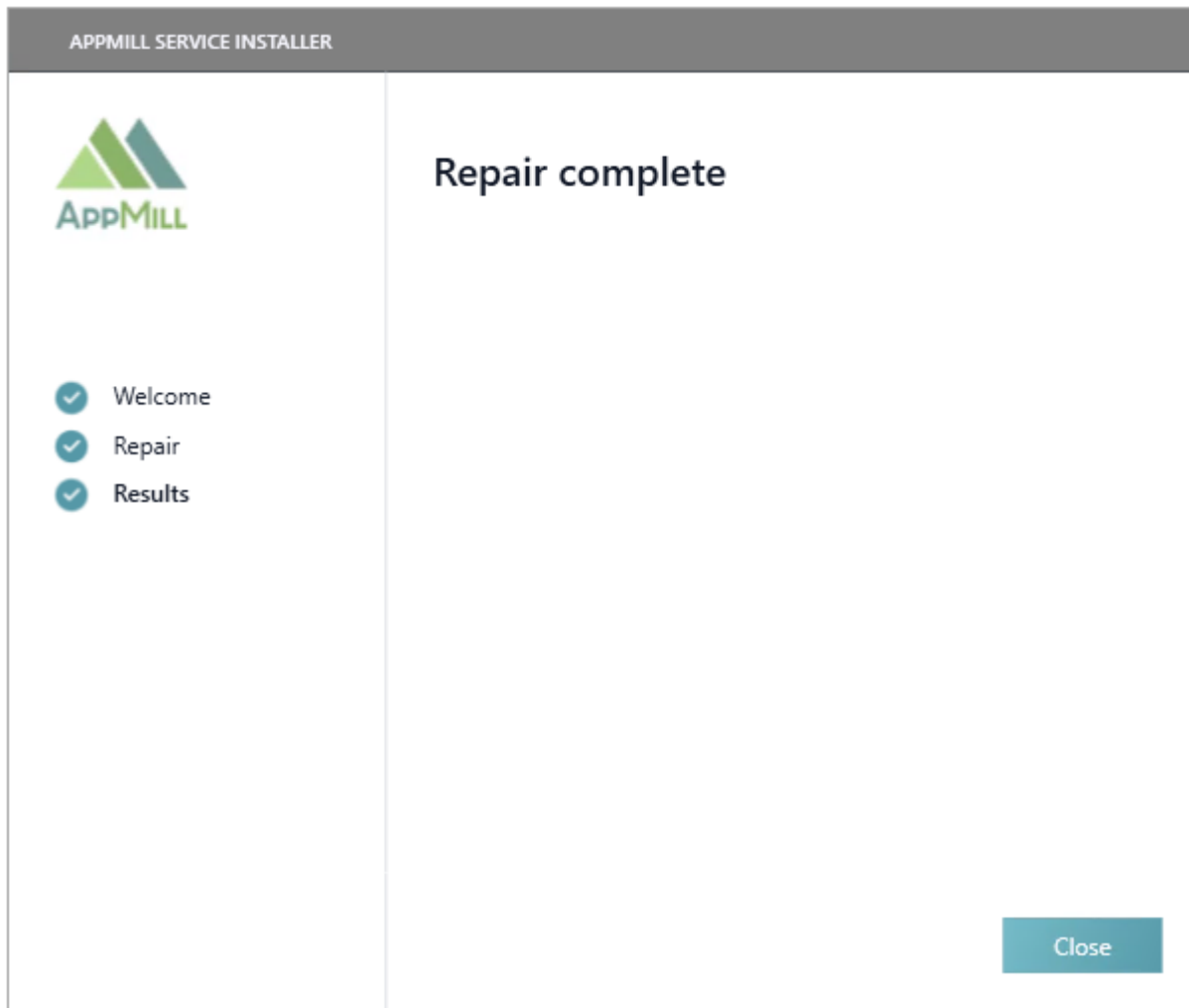
To proceed with the repairing process and go to the next installation step, click the **Next** button.

You can view the progress of the components re-installing in the progress bar displayed.



3.2.3 Results

When the re-installing process is completed, the final step and the Repair Complete pop-up window will appear. In case of any errors, the Log file with the details will be displayed. You can download it and check the details.



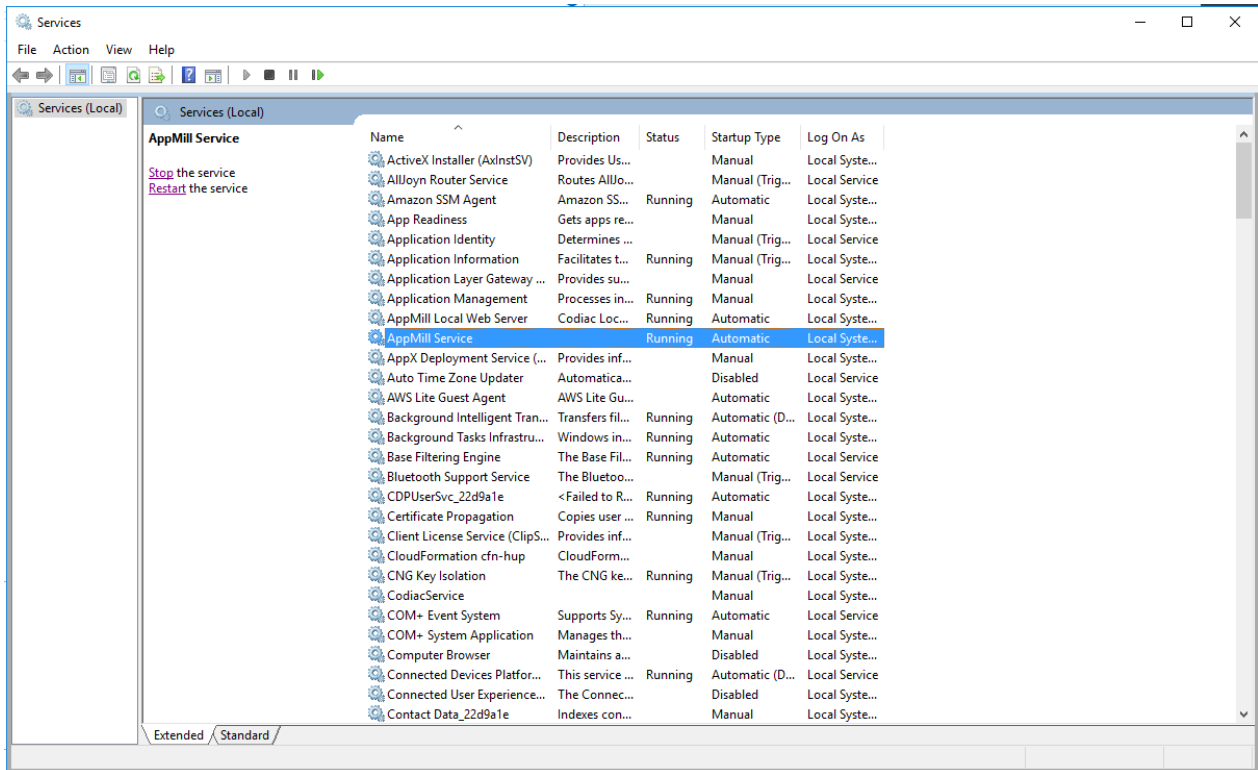
You can close the AppMill Service Repair pop-up window by clicking the **Close** button.

3.3 Restart AppMill Service

In case users need to restart the AppMill Service on the device, please follow the steps below:

1. Enter **Services** to the search area in the Taskbar.
2. Open the **Services** application.
3. In the **Services** application window:
 - a. select the **AppMill Service** application and
 - b. click the **Restart** link at the top right corner of the window
or
 - c. click the **Stop** and then **Start** links at the top right corner of the window.

As a result, the AppMill Service application will be restarted.

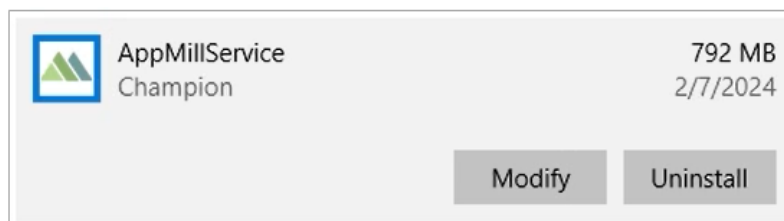


After the AppMill Service application restart process is finished, close the Services window.

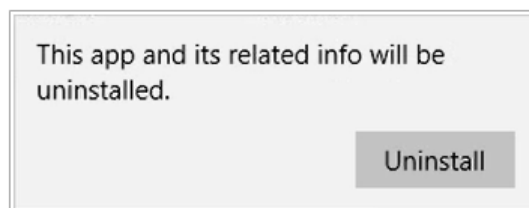
3.4 Uninstall AppMill Service

In case you need to uninstall the AppMill Service from your device, please follow the steps below:

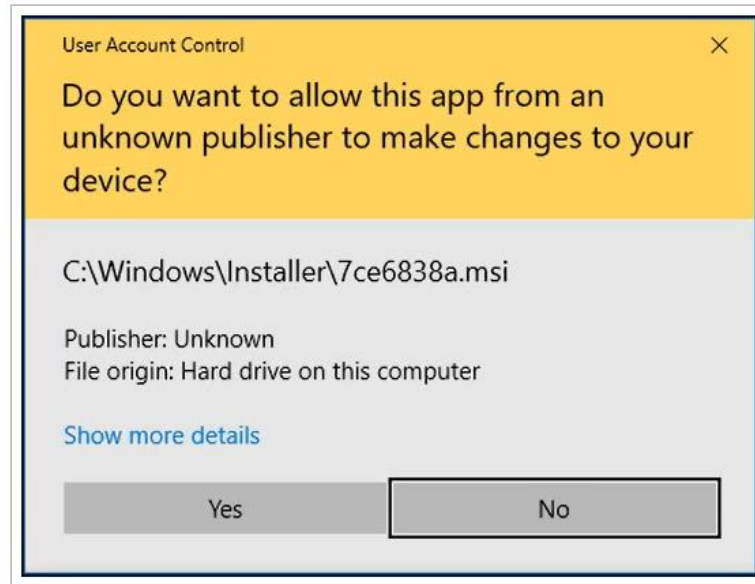
1. Select the **Start** menu from the Taskbar.
2. Open **Settings > System > Apps & features** section from the **Start** menu. The path may vary depending on the Windows operating system version.
3. In the **Apps & features** section, select the **AppMill Service** application from the applications', and click the **Uninstall** button. Click the **Modify** button, to make changes in the Service application that has been already installed. For more details, refer to the **Repairing AppMill Service** section.



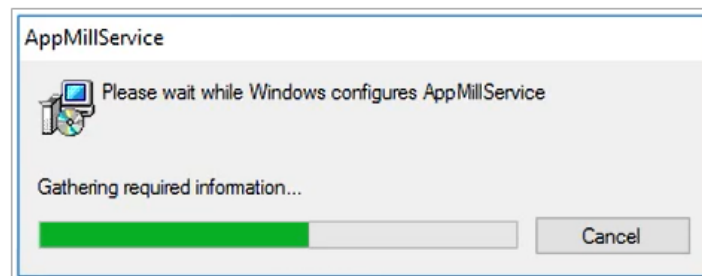
4. Click the **Uninstall** button in the opened pop-up window to run the uninstalling process.



5. Confirm the uninstalling process by clicking the **Yes** button in the appeared confirmation pop-up window. To cancel the uninstalling process, click the **No** button.



In case the uninstalling process is running, the following pop-up window will appear:



To abort the process and close the window, click the **Cancel** button. Otherwise, the AppMill Service application uninstalling will be completed.

In case the uninstalling process is running, all the AppMill Service files that were deleted before clicking the Cancel button will be lost.

4 AppMill Clients Installation

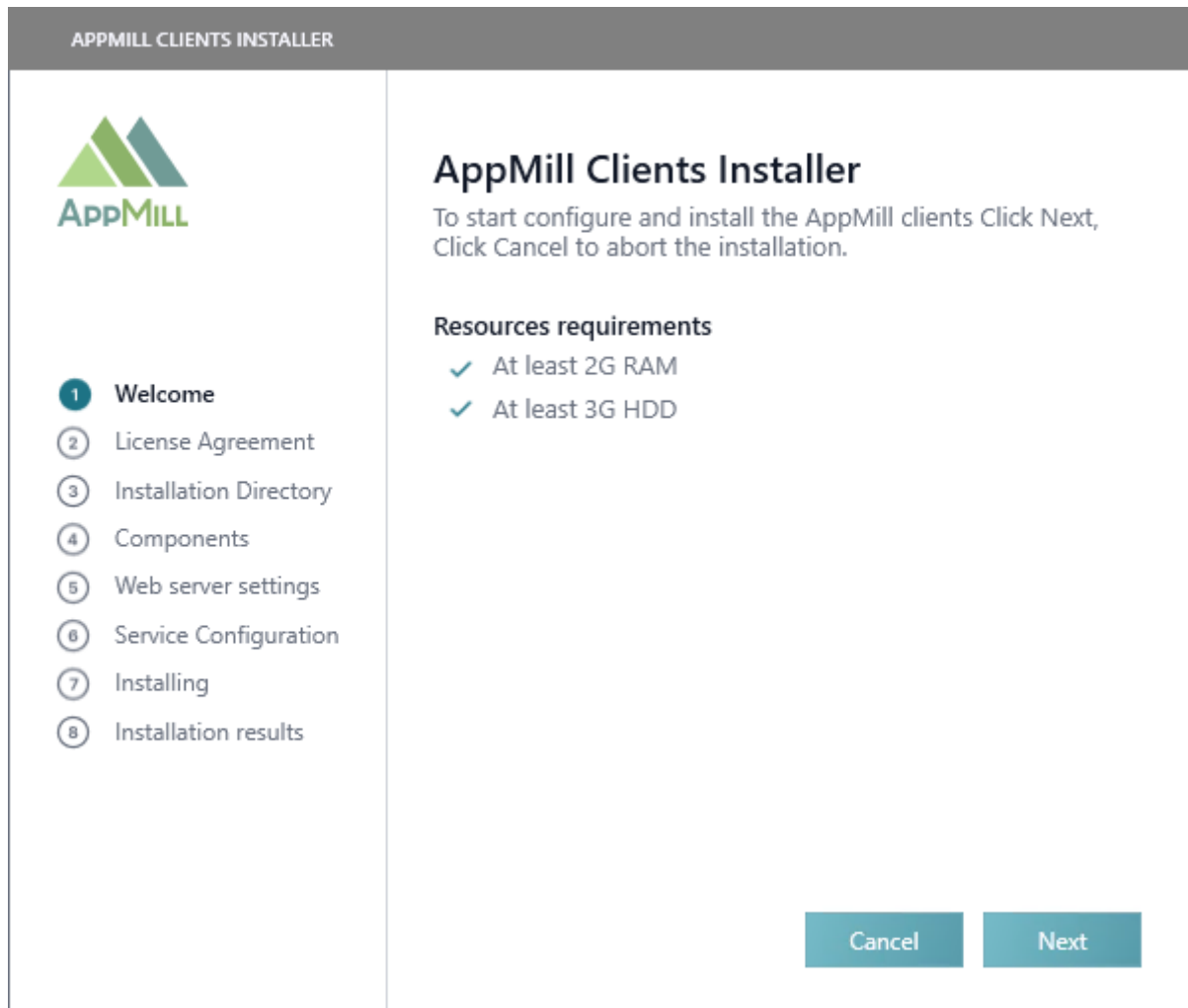
4.1 Install AppMill Clients

To install the AppMill Clients, please follow the steps below:

4.1.1 Welcome

To start AppMill Clients configuration and installation process, open the *AppMillClients.msi* file. The file contains the data and logic to install the AppMill Clients.

AppMill Clients Installer pop-up window opens:



On the left side, there is a list of installation steps. The progress of the installation process is displayed here. The current step is highlighted and indicated with a number. The steps passed are indicated with the check-mark. The next steps to be performed are indicated with numbers and are grey until you pass them.

On the right side, you can see the actual installation step and the related details.

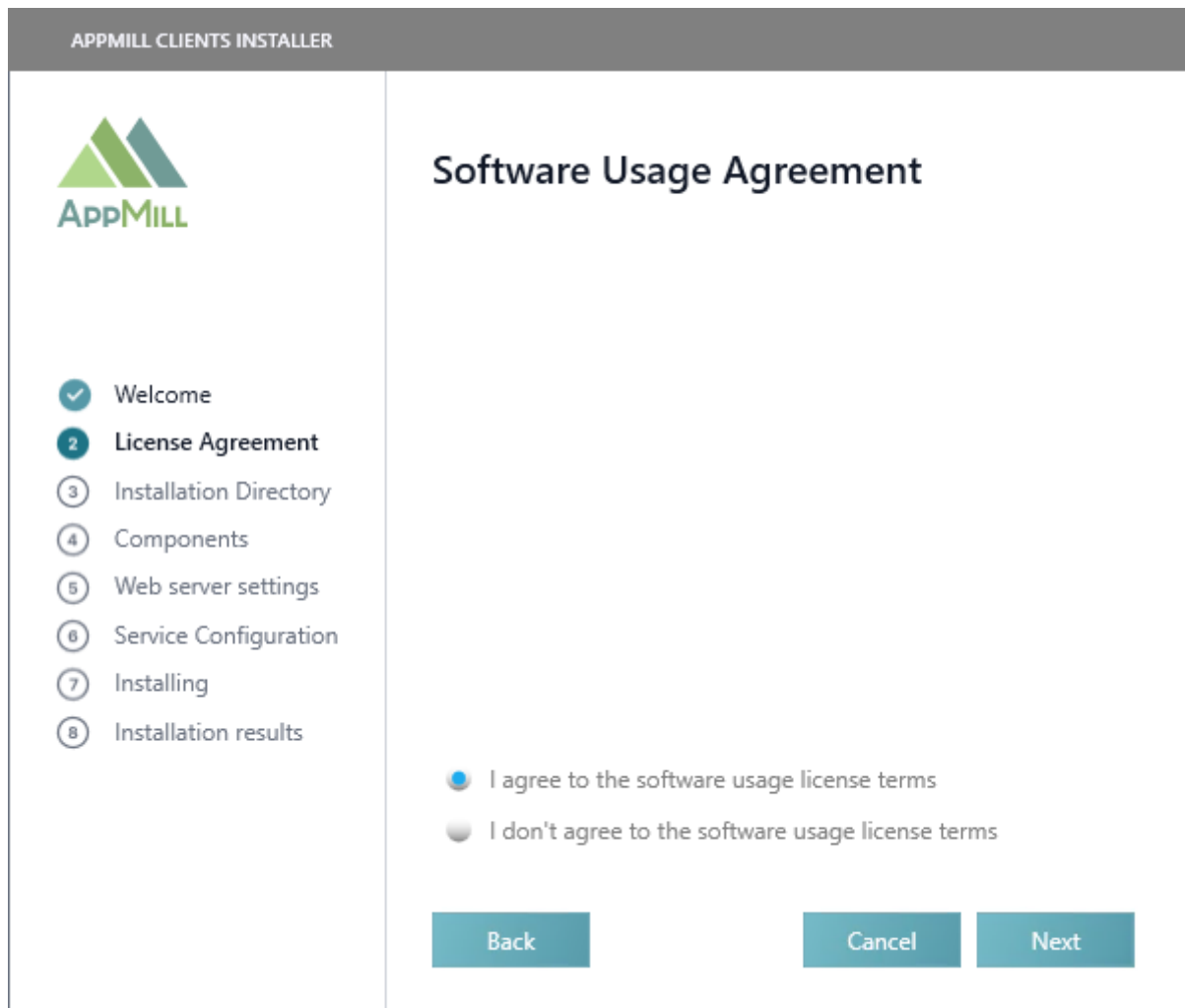
Please pay attention to the Resources Requirements and ensure that your resources meet the requirements. In case the space of RAM or HDD is not enough, the corresponding message will be displayed. To proceed with the installation process, you will need to fix the memory issue and free some memory space.

To start the process of AppMill Clients configuration and installation and go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

4.1.2 License Agreement

To proceed with the installation process, you need to agree to the software usage license terms and select the proper option.



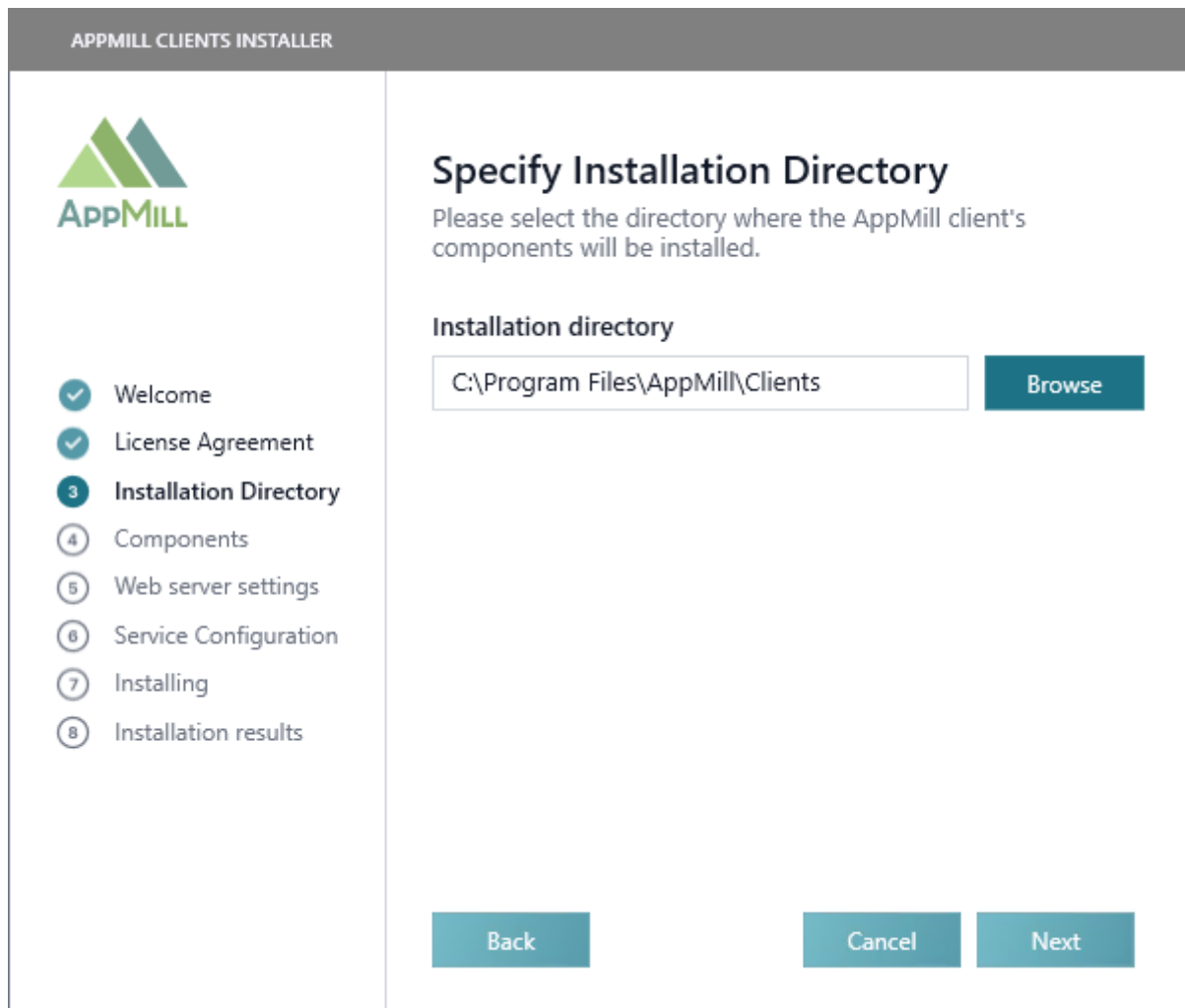
To return to the previous step, click the **Back** button.

To proceed with the installation process and go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

4.1.3 Installation Directory

On the next installation step, select the directory where the components of the AppMill clients will be installed. There are no restrictions to the directory selected: it can be any available folder on your computer.



The screenshot shows the 'APPMILL CLIENTS INSTALLER' window. On the left is a vertical sidebar with the AppMill logo and a list of installation steps: Welcome, License Agreement, Installation Directory (highlighted with a blue circle and number 3), Components, Web server settings, Service Configuration, Installing, and Installation results. The main area is titled 'Specify Installation Directory' and contains the instruction: 'Please select the directory where the AppMill client's components will be installed.' Below this, there is a text box labeled 'Installation directory' containing the path 'C:\Program Files\AppMill\Clients', a 'Browse' button to its right, and at the bottom, 'Back', 'Cancel', and 'Next' buttons.

To return to the previous step, click the **Back** button.

To proceed with the installation process and go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

4.1.4 Components

On the next installation step, you can select the components that will be installed.

APPMILL CLIENTS INSTALLER



✓ Welcome

✓ License Agreement

✓ Installation Directory

4 Components

5 Web server settings

6 Service Configuration

7 Installing

8 Installation results

Select Components

☒ Tomcat Web server

☒ Php Components

☒ AppMill Render

☒ AppMill Builder

☒ DB Migration Tool

☒ Reports

Back

Cancel

Next

Check the corresponding check boxes to select/deselect desired components:

- **Tomcat Web Server** - the Tomcat Web Server where the applications will be running.
- **PHP Components** - the PHP components required for the launching of application.
- **AppMill Render** - the web application that is used as a user part of the AppMill project. This application provides access to the data stored in the database using the screens' interface.
- **AppMill Builder** - the web application that is used as an administrative part of the AppMill project. To access the AppMill Builder (AppMill Architect) application, users should belong to the Admin_Group with administrator rights. This application is designed for creating user groups, permissions, menu items, database tables, screen builder, etc.
- **DB Migration Tool** - a separate application that runs under the Windows operating system and provides the possibility to completely migrate the database schema from the source database to the destination database.

Also, users can work with the Migration Tool of the AppMill Builder application (Features > Migration Tool) after the application installation.

- **Reports** - a separate application that runs under the Windows operating system and provides the possibility to work with reports.

Also, users can work with the Reports functionality of the AppMill Builder application, to manage the reports. To access this functionality, users can use an administrator user account and separate URL address: **<main_url>/codiac_builder/webdesigner**. For example, for the Tomcat Web Server the URL address can be as follows: localhost:88/codiac_builder/webdesigner.

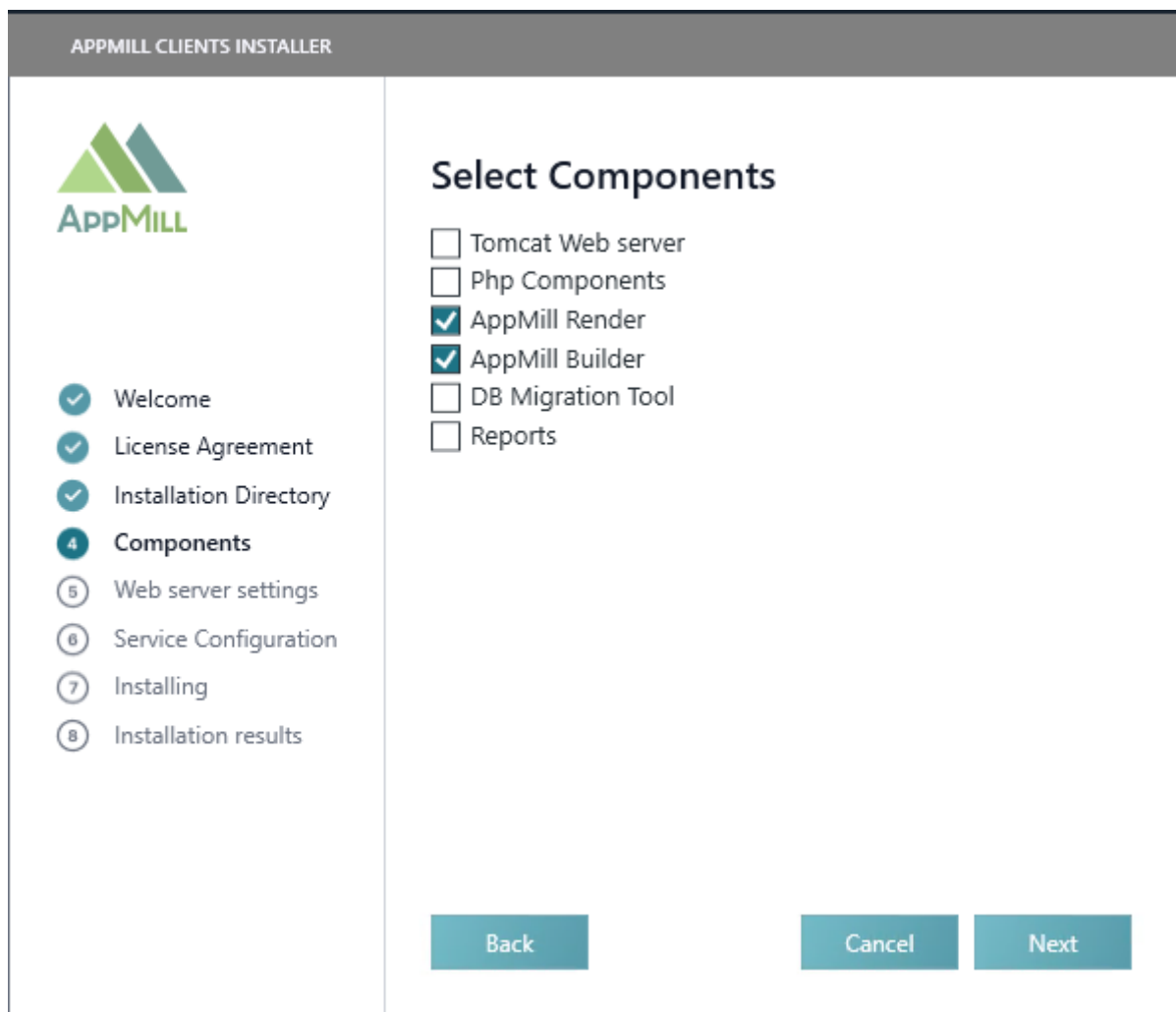
Pay attention that to get access to the **AppMill Render** and **AppMill Builder** applications from a browser, the **Tomcat Web Server** and **PHP Components** should be installed. Otherwise, **AppMill Render** and **AppMill Builder** components should be installed on the machine with the existing and configured **Tomcat** or **IIS web servers**.

In case you have some of components already installed on your machine, in the **Installation Directory step, you will need to specify the path to the right folder.**

The selection depends on the components used in the applications. The possibility to select/deselect the components used helps to save space and improve performance.

For example, if the web server (Tomcat or IIS) is already installed on your machine, then you can select only the **AppMill Render** and **AppMill Builder** components to be installed. For that:

- ensure that your web service was configured in the right way to be able to install the AppMill Clients components. For that, refer to the installation instructions of your web service (Tomcat or IIS).
- in the **Installation Directory** step, you need to specify the path to the folder where components of the AppMill Clients will be installed and your web servers are hosted.
- in the **Components** step, you need to select the **AppMill Render** and **AppMill Builder** components to install. Other components in this case should be unchecked. As a result, only selected components will be installed on your machine.



The screenshot shows the 'APPMILL CLIENTS INSTALLER' window. On the left, a progress bar lists steps: Welcome, License Agreement, Installation Directory, **Components** (current step), Web server settings, Service Configuration, Installing, and Installation results. The main area is titled 'Select Components' and contains a list of checkboxes: Tomcat Web server, Php Components, **AppMill Render** (checked), **AppMill Builder** (checked), DB Migration Tool, and Reports. At the bottom, there are 'Back', 'Cancel', and 'Next' buttons.

To return to the previous step, click the **Back** button.

To proceed with the installation process and go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

4.1.5 Web Server Settings

On the next installation step, configure web server settings and define where the clients should be

i Pay attention that this step (Web Server Settings) will not be displayed in case the Tomcat Web server component was not selected at the previous step.

installed.

APPMILL CLIENTS INSTALLER

Web server settings
Set the web server setting

Web Server Host
localhost

HTTP Port
88

HTTPS Port
8888

Render name Architect name
render architect

PHP root directory
C:\Program Files\AppMill\Clients\php Browse

Back Cancel Next

Set up the following parameters:

- **Web Server Host** - specify the web server host address. It will be used as the first part of the Clients' applications URL address.
- **HTTP Port** - specify the port where your service will be listening for incoming HTTP requests. By default, the "80" port is used in a browser. In case users specify the default port, then the URL address can be defined without the port name. For example, `http://example/test/`. Otherwise, the port name should be included in the URL address: `http://example:123/test/`.
- **HTTPS Port** - specify the port where your service will be listening for incoming HTTPS requests. By default, the "433" port will be used in a browser. In case users specify the default port, then the URL address can be defined without the port name. For example, `https://example/test/`. Otherwise, the port name should be included in the URL address: `https://example:123/test/`.
- **Render Name** - specify the Render application name to be used in the URL address.
- **Architect Name** - specify the Architect application name to be used in the URL address.

- **PHP root directory** - specify the location for PHP Components.
The PHP root directory will be displayed only in case the PHP Components have been already installed and were not selected at the previous step.

i Pay attention, that the **Tomcat Web Server HTTP Port** and **HTTPS Port** numbers of the AppMill Clients application should not conflict with those of your web server, if there are any.

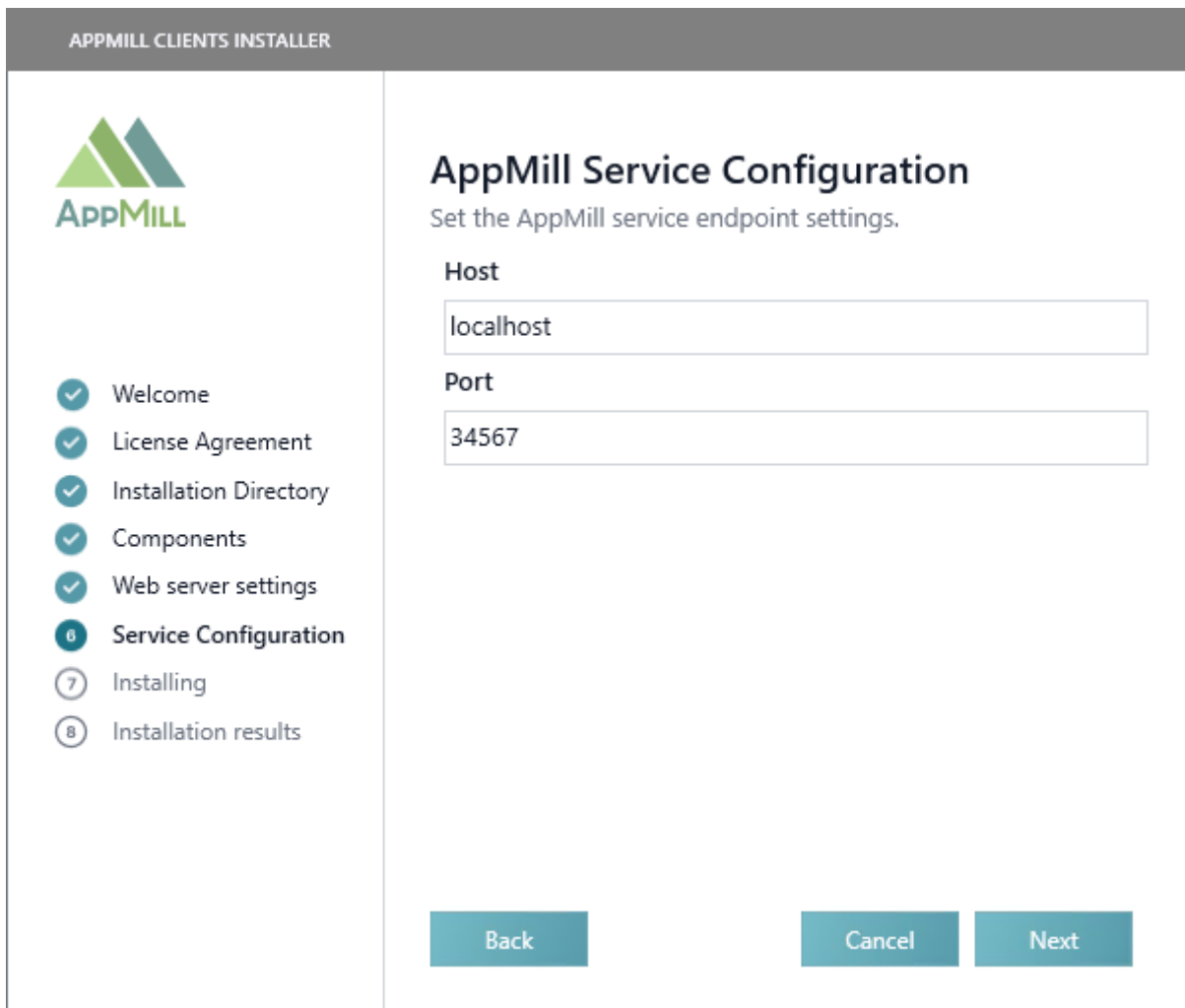
To return to the previous step, click the **Back** button.

To proceed with the installation process and go to the next installation step, click the **Next** button.

To abort the installation process and close the window, click the **Cancel** button.

4.1.6 Service Configuration

On the next step, specify the host and port data for the AppMill Service that has been already installed.



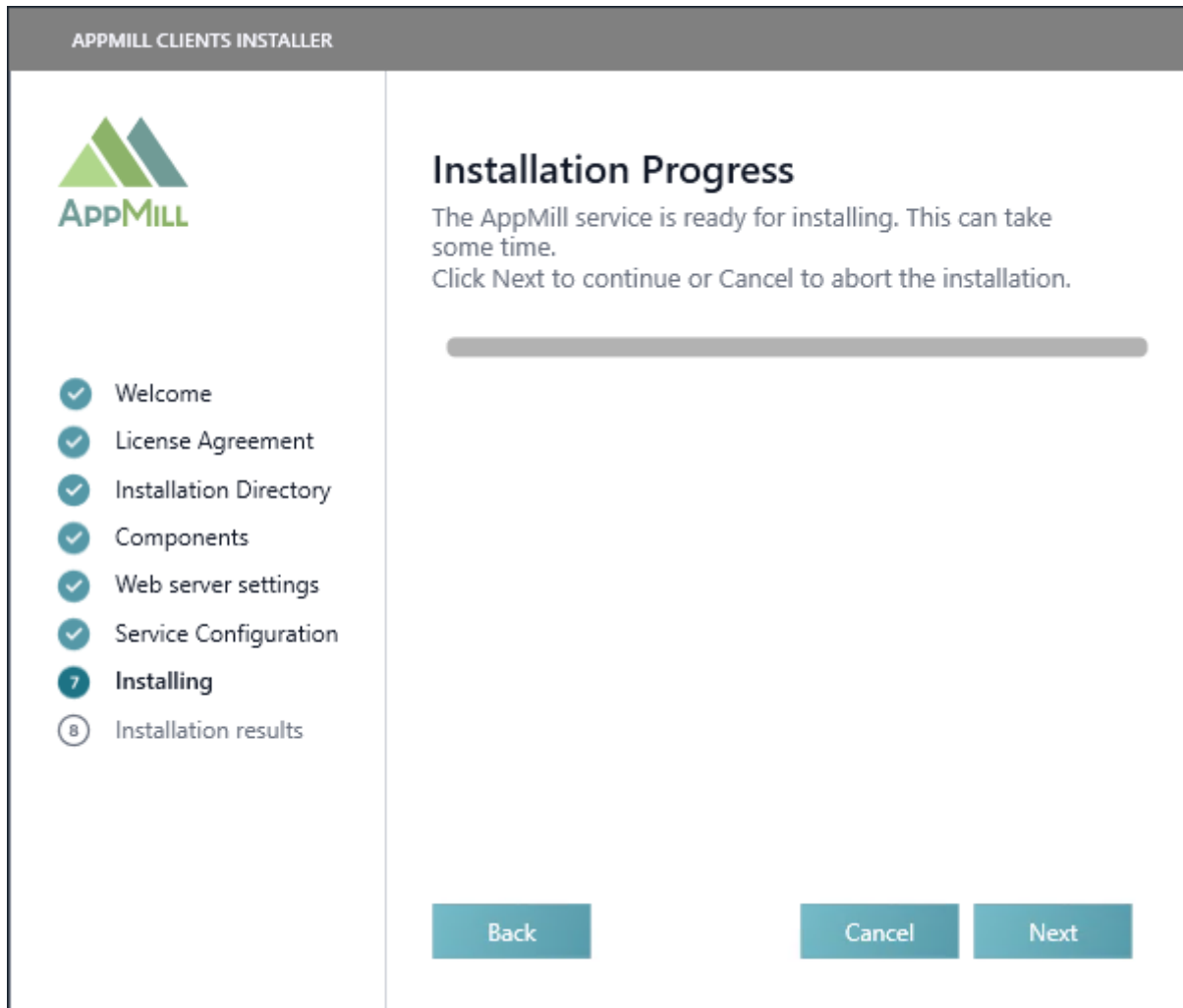
The image shows the 'AppMill Clients Installer' window, specifically the 'AppMill Service Configuration' step. The window has a dark gray header with the text 'APPMILL CLIENTS INSTALLER'. On the left side, there is a vertical list of steps: 'Welcome', 'License Agreement', 'Installation Directory', 'Components', 'Web server settings', 'Service Configuration' (which is highlighted with a blue circle and the number 6), 'Installing' (with a circle and number 7), and 'Installation results' (with a circle and number 8). The main area of the window is titled 'AppMill Service Configuration' with the subtitle 'Set the AppMill service endpoint settings.' Below this, there are two input fields: 'Host' with the value 'localhost' and 'Port' with the value '34567'. At the bottom of the window, there are three buttons: 'Back', 'Cancel', and 'Next'.

Set up the following parameters for the Service:

- **Host** - specify the IP address for the service to define where the service will be available. You can use the * asterisk character to specify all addresses.
- **Port** - specify the port for the connection.

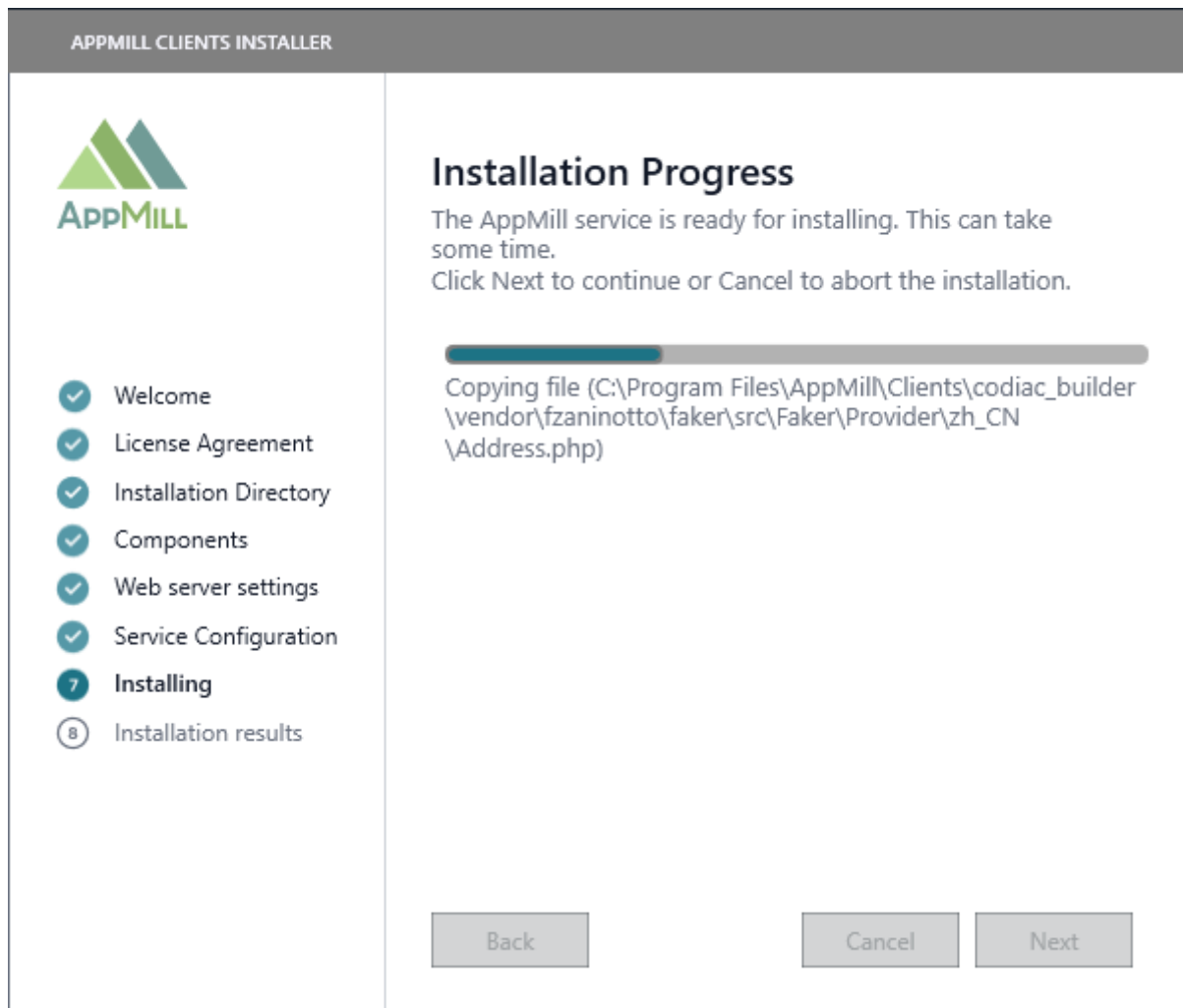
4.1.7 Installing

When all installation steps are performed, the AppMill Clients are ready for installing.



Click the **Next** button to proceed with the installation. To abort the installation process, click the **Cancel** button.

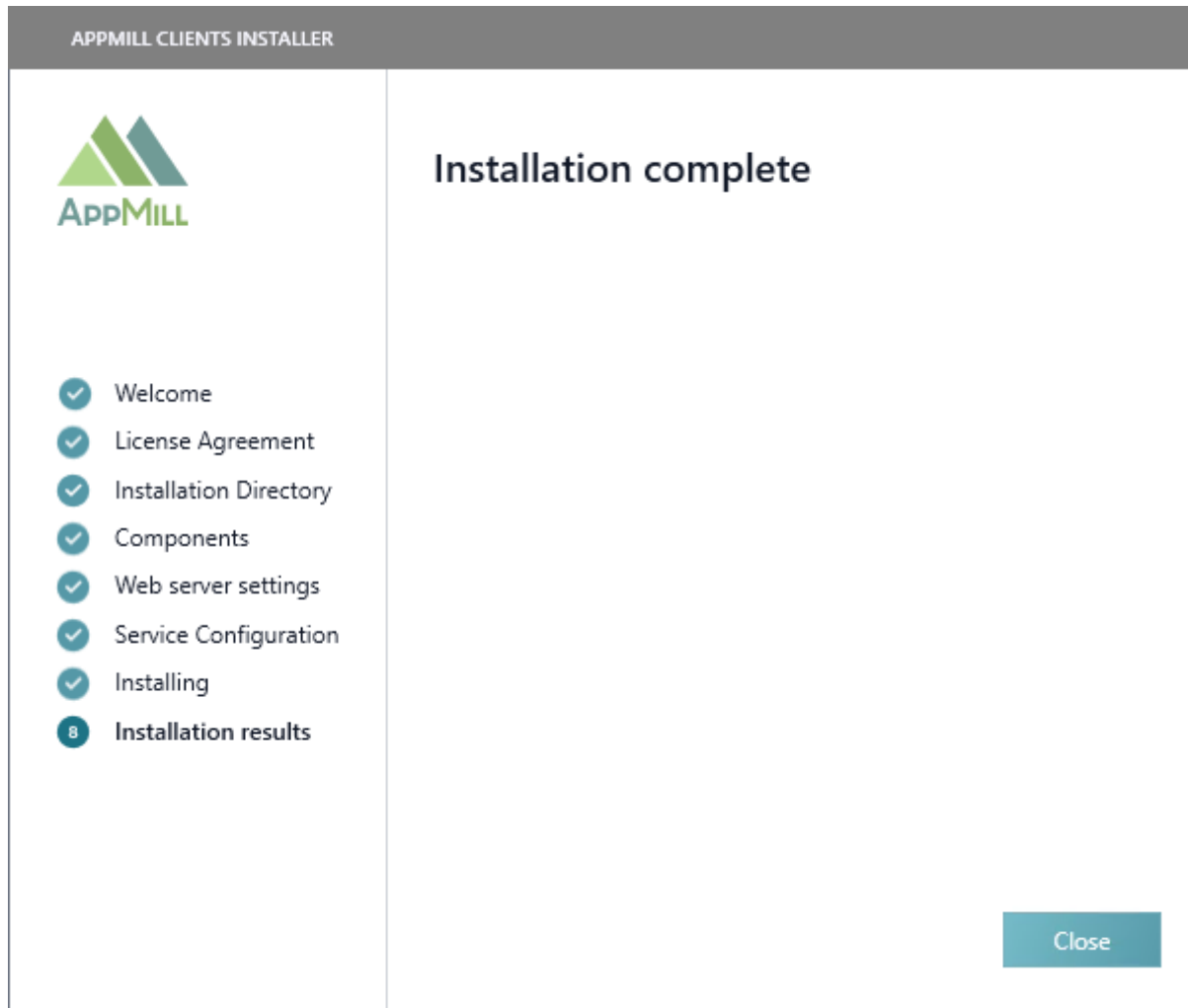
You can view the progress of installation process and the activity steps that are currently executed in the progress bar.



In case the AppMill Clients installation process is completed successfully, you will be redirected to the final step.

4.1.8 Installation Results

On the final step, you will see results of the installation process.



In case any errors or problems occur during the installation process, the corresponding error message will be displayed. The log file with the details and explanations will be available for downloading.

You can close the AppMill Clients Installation pop-up window by clicking the **Close** button.

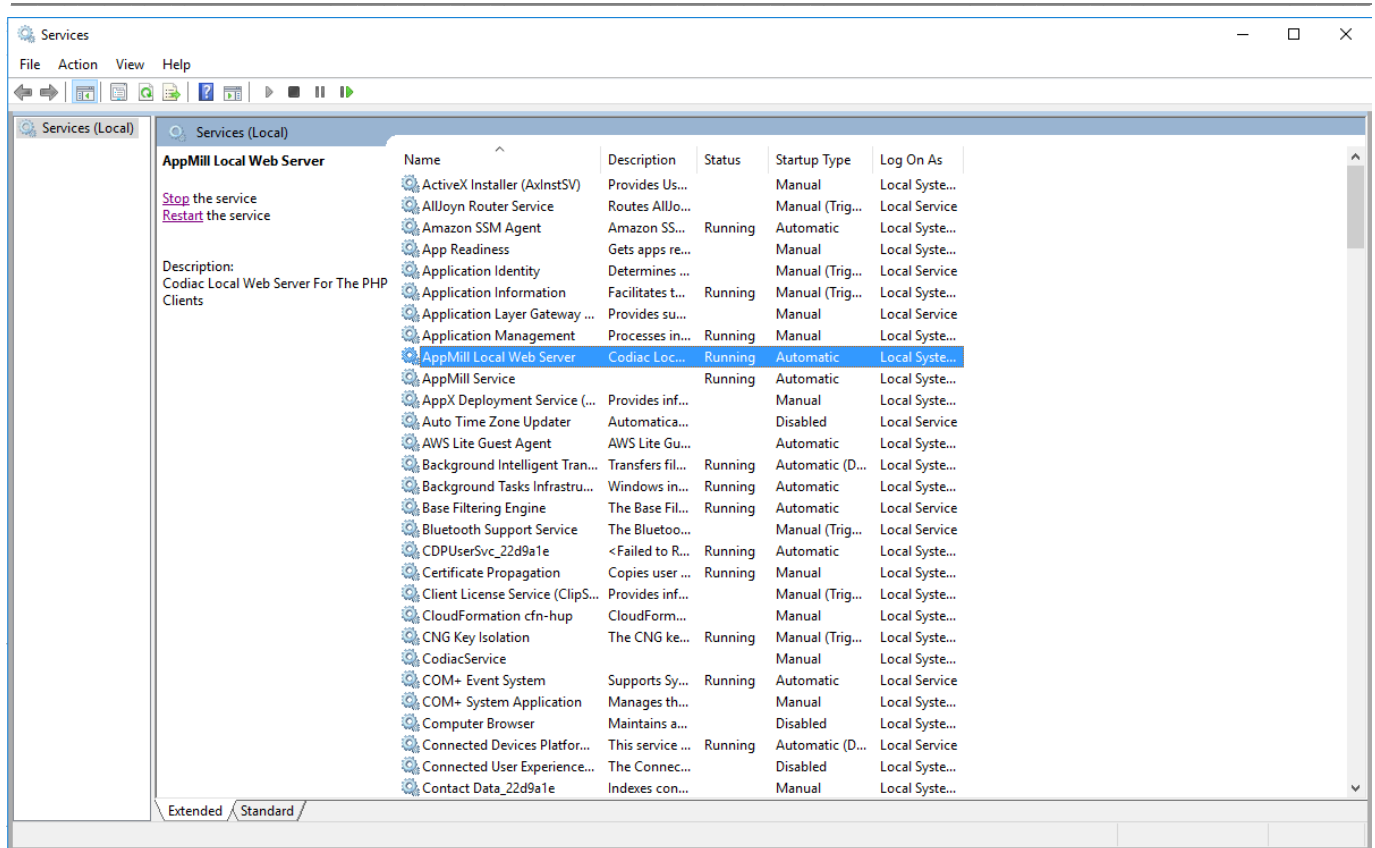
4.2 Restart AppMill Client Component

After installing the AppMill Clients' components, the **AppMill Local Web Server** (Tomcat Web Server) service appears in the applications' list.

In case users need to restart the **AppMill Local Web Server** on the device, please follow the steps below:

1. Enter **Services** to the search area in the Taskbar.
2. Open the **Services** application.
3. In the **Services** application window:
 - a. select the **AppMill Local Web Server** application and
 - b. click the **Restart** link at the top right corner of the window
or
 - c. click the **Stop** and then **Start** links at the top right corner of the window.

As a result, the AppMill Local Web Server application will be restarted.



After the AppMill Local Web Server application restart process is finished, close the Services window.

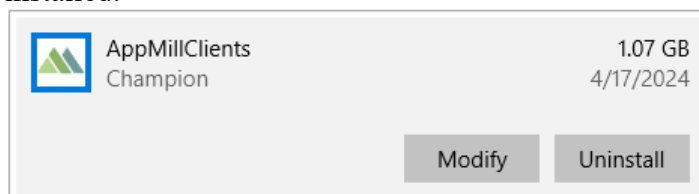
4.3 Uninstall AppMill Clients

The uninstalling process will remove the AppMill Clients application and its components from your device.

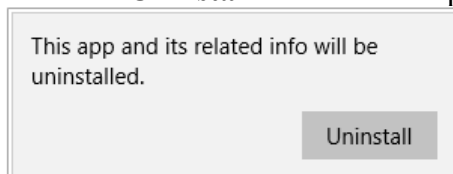
In case you need to uninstall the AppMill Clients from your device, please follow the steps below:

1. Select the **Start** menu from the Taskbar.
2. Open **Settings > System > Apps & features** section from the **Start** menu. The path may vary depending on the Windows operating system version.
3. In the **Apps & features** section, select the **AppMill Clients** application from the applications' list, and click the **Uninstall** button.

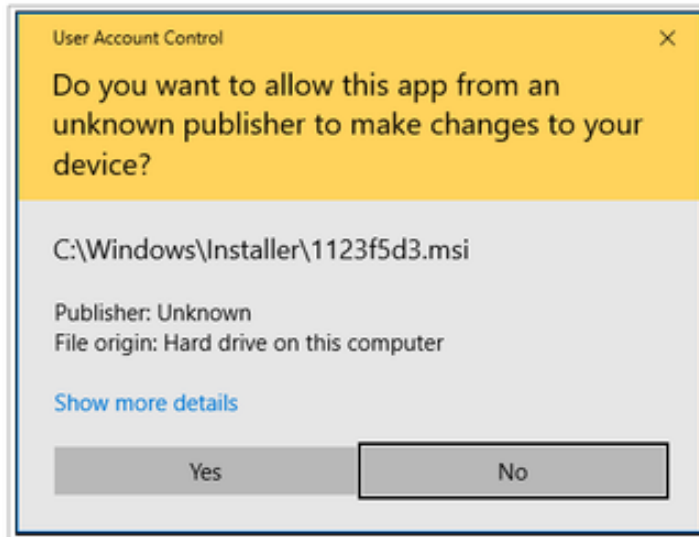
Click the **Modify** button, to make changes in the Clients application that has been already installed.



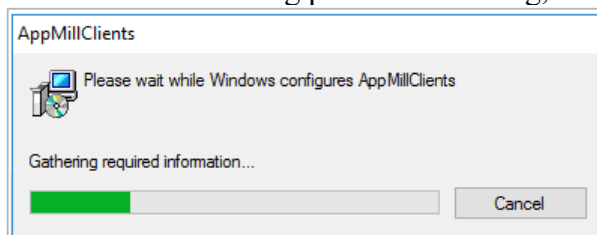
4. Click the **Uninstall** button in the opened pop-up window to run the uninstalling process.



5. Confirm the uninstalling process by clicking the **Yes** button in the appeared confirmation pop-up window. To cancel the uninstalling process, click the **No** button.



In case the uninstalling process is running, the following pop-up window will appear.



To abort the uninstalling process and close the window, click the **Cancel** button. Otherwise, the AppMill Clients application uninstalling will be completed.

In case the uninstalling process is running, all the AppMill Clients files that were deleted before clicking the Cancel button will be lost.