

MIKE+

Installation Guide



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1 Introduction

This installation guide covers the installation of MIKE+ and required 3rd party software.

MIKE+ can be deployed in different ways using local SQLite database or a PostgreSQL database server – ranging from a personal installation to a corporate installation.

For PostgreSQL, you have these two options

1. Personal installation, which allows users to work in a network independent mode on their desktop. This requires the installation of a database on the local computer;
2. Corporate installation, which allows for an office to have multiple installations (clients) all working against a central database server.

Furthermore, ArcGIS Pro may optionally be also installed, when purchased as part of MIKE+ ArcGIS.

2 Installation Prerequisites

MIKE+ depends on several prerequisites as listed below if you want to use a PostgreSQL database.

1. A PostgreSQL database server with the PostGIS spatial database extension. The installers of PostgreSQL and PostGIS are included in a separate “Prerequisites” subfolder of the MIKE+ installation. MIKE+ supports the following combination of the two products:

- PostgreSQL 11.2 and PostGIS 2.5.1

Combinations of later versions may also work, but have not been tested.

2. SQLite database with a SpatiaLite extension. It is included in the MIKE+ installer and will be installed automatically with MIKE+.
3. The DHI License Management application.
4. .NET framework 4.7.2, or .NET framework 4.8 when also installing ArcGIS Pro 2.7.

3 MIKE+ Installation/Upgrade

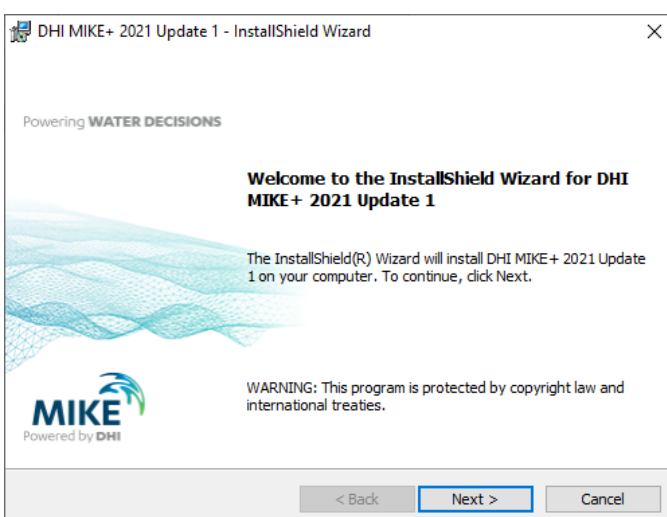
The installation process consists of three parts.


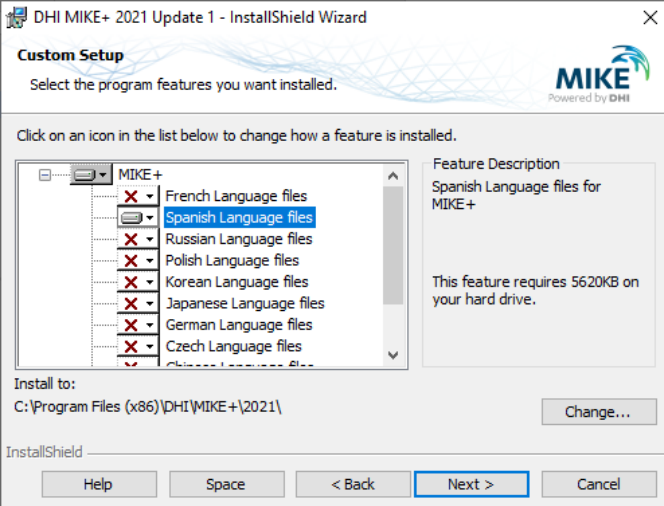
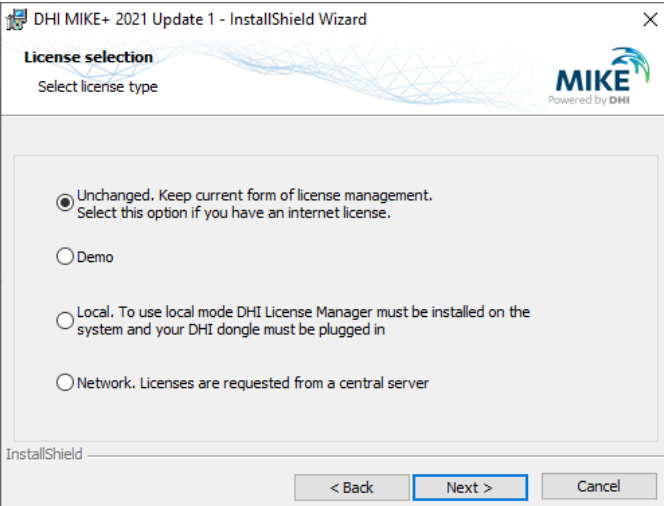
1. Installation of MIKE+;
2. Optional installation of PostgreSQL and PostGIS;
3. Optional installation of ArcGIS Pro.

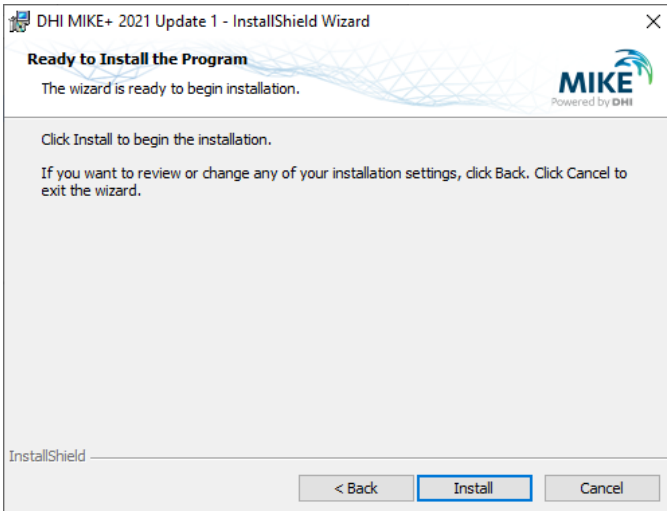
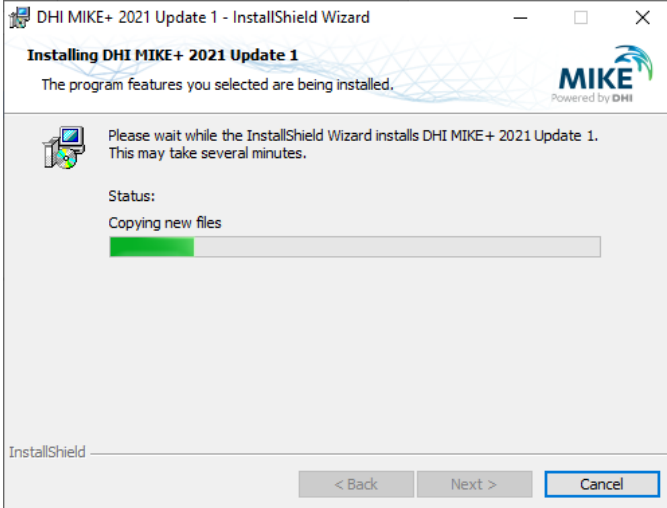
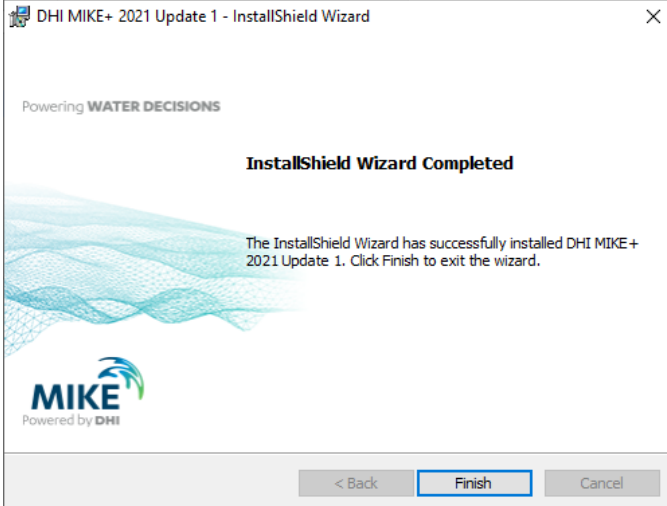
Installation of MIKE+ software is simple and requires no user interactions beyond accepting the license conditions, specifying the installation folder and languages that should be installed besides English, and includes installation of the personal database SQLite with a Spatialite extension.

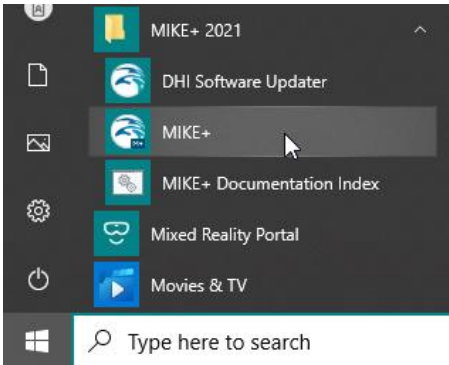
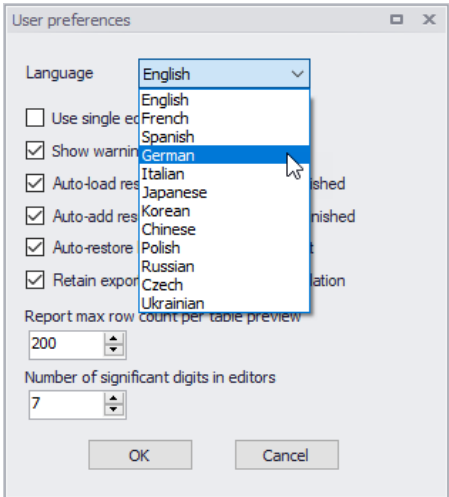
The following table explains how to install or upgrade MIKE+ and required 3rd party software.

If you need to install or update the version of PostgreSQL and PostGIS, follow the steps described in APPENDIX A. If you need to install ArcGIS Pro, follow the steps described in APPENDIX D.

Installation step	Screen
<p>Run the <i>setup.exe</i> program file from the installation media/download folder, in the 'MIKE+' folder.</p> <p>Click Next</p>	

Installation step	Screen
<p>Accept the license agreement</p> <p>Click Next</p>	 <p>The screen shows the 'License Agreement' window. It includes a '1 LEGAL NOTICE' section with three paragraphs. Below the text, there are two radio buttons: 'I accept the terms in the license agreement' (selected) and 'I do not accept the terms in the license agreement'. A 'Print' button is to the right. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.</p>
<p>Select the languages you want to install on the computer (besides English)</p> <p>Click Next</p>	 <p>The screen shows the 'Custom Setup' window. It prompts the user to 'Select the program features you want installed.' Below this, there is a list of features with checkboxes. 'Spanish Language files' is selected. To the right, a 'Feature Description' box states: 'Spanish Language files for MIKE+'. Below the list, the 'Install to:' path is shown as 'C:\Program Files (x86)\DHI\MIKE+\2021\'. At the bottom, there are 'Help', 'Space', '< Back', 'Next >', and 'Cancel' buttons.</p>
<p>Select the license type. This may be modified after the installation if required.</p> <p>Click Next</p>	 <p>The screen shows the 'License selection' window. It prompts the user to 'Select license type'. There are four radio buttons: 'Unchanged. Keep current form of license management. Select this option if you have an internet license.' (selected), 'Demo', 'Local. To use local mode DHI License Manager must be installed on the system and your DHI dongle must be plugged in', and 'Network. Licenses are requested from a central server'. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.</p>

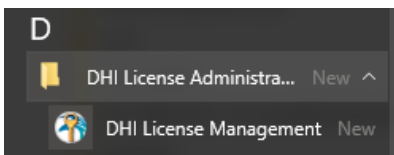
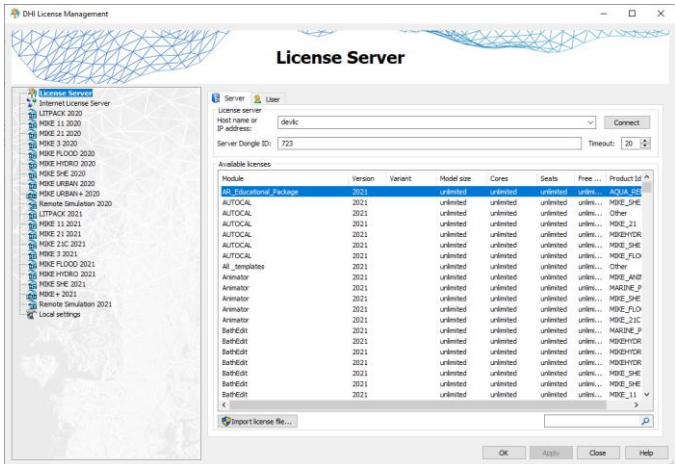
Installation step	Screen
Click Install	
Wait	
Click Finish	

Installation step	Screen
<p>If you have installed another language than English, Open MIKE+ to finish the language configuration.</p>	
<p>Go to the File menu, and select User preferences. Select the desired language, and close MIKE+.</p>	

4 DHI License File

The DHI license is handled through the DHI License Management software, which can be found under DHI License Administration in the Start Menu.

Important information: If you plan to use a local DHI license bound to a dongle, you must install the DHI License Manager before following the steps below. The installer for the DHI License Manager must be downloaded separately from the MIKE+ installer. This additional installation is however not required for an Internet license. For a network license installation, the DHI License Manager is required only on the server, but not on the client computers.

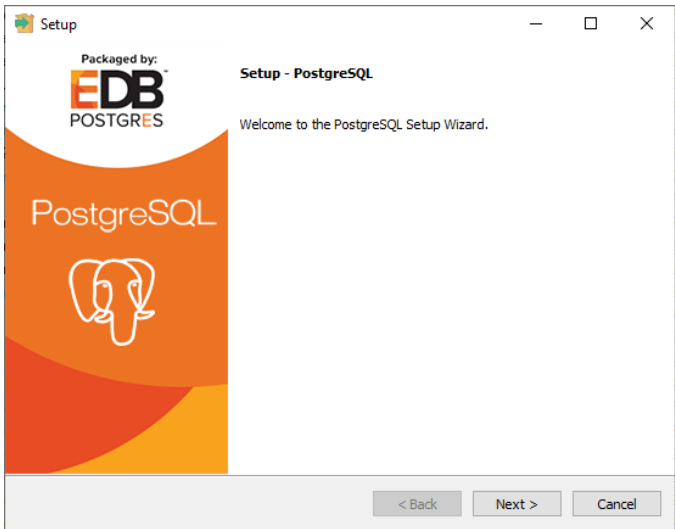
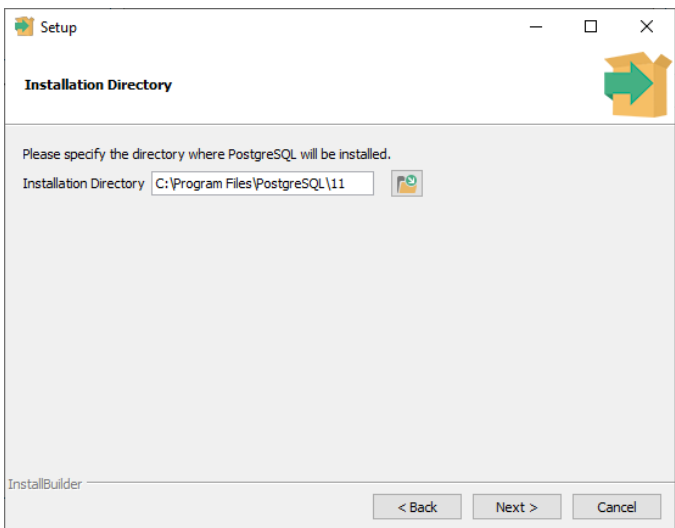
Installation step	Screen
Open the DHI License Management program in the start menu as Administrator	
<p>Three license types are available:</p> <ul style="list-style-type: none"> Internet License (no dongle) Server License, with license and dongle on a network server Server license, with license and dongle on local PC <p>Choose a license server installation if you have a license bound to a dongle, or Internet license otherwise. Refer to the documentation found with the Help button for more information.</p>	

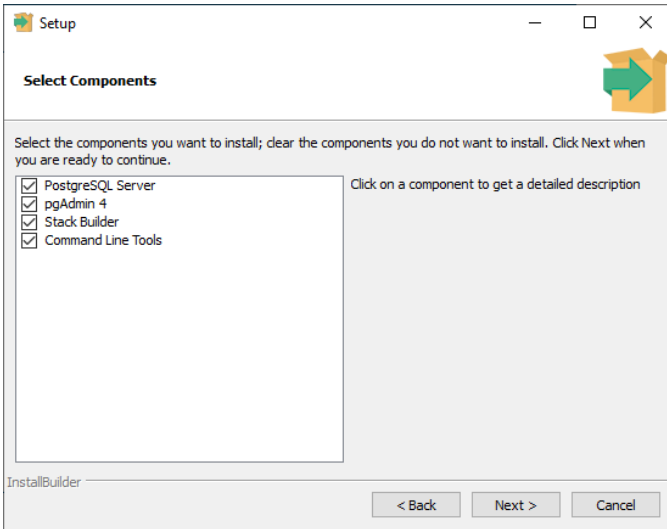
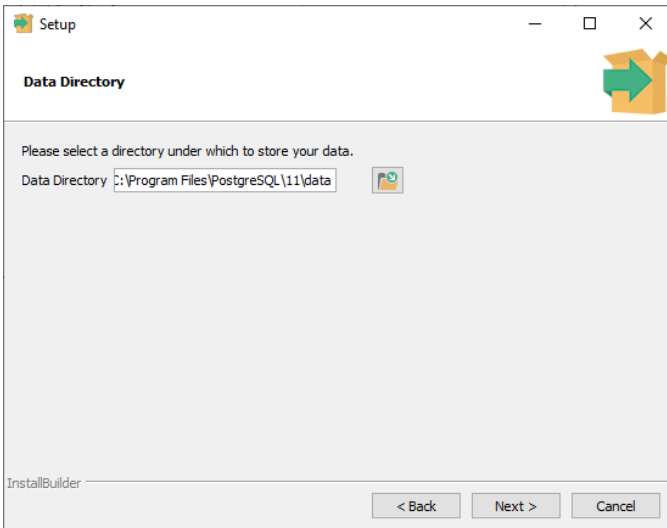
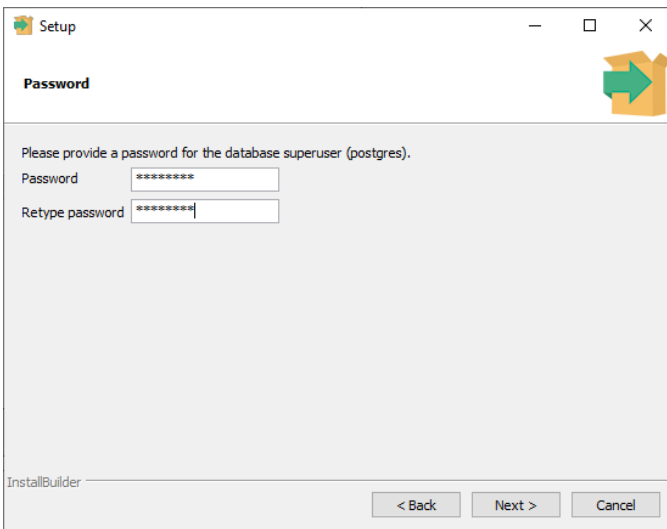
APPENDIX A: Install PostgreSQL and PostGIS

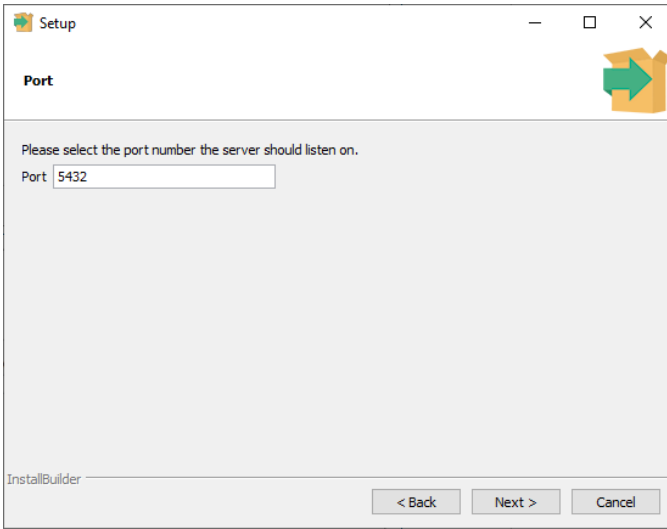
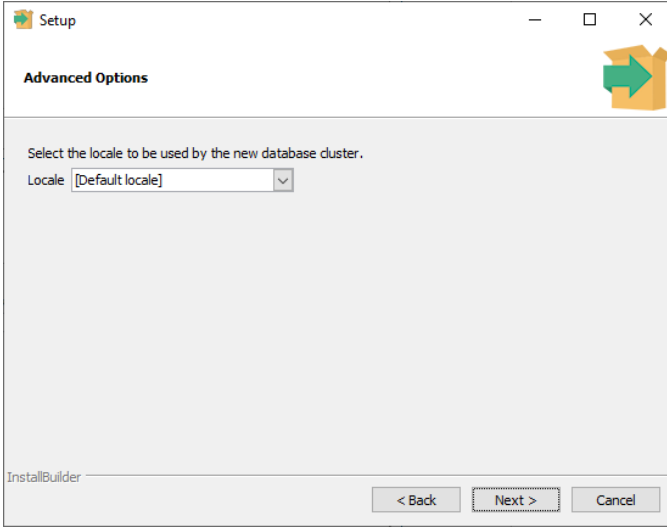
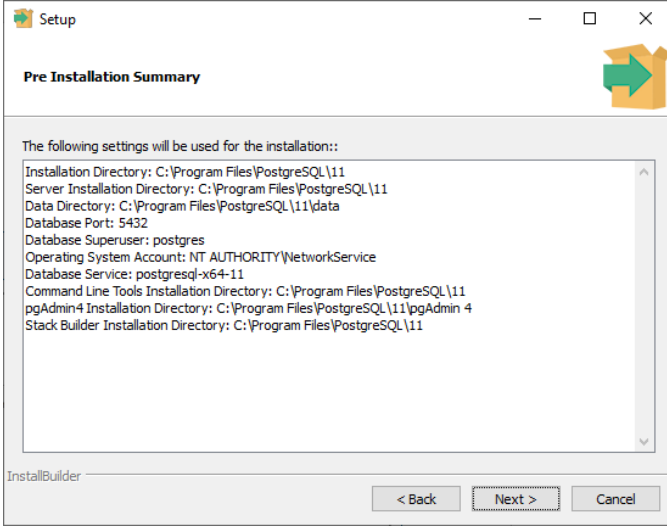
As mentioned in Chapter 2, it is possible to use a PostgreSQL database.

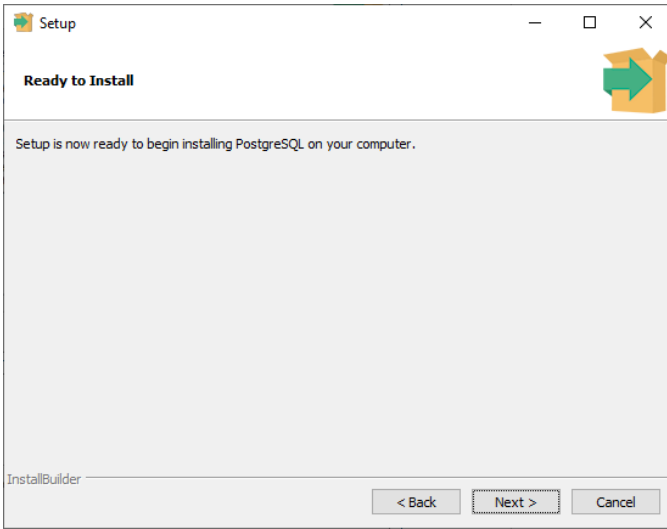
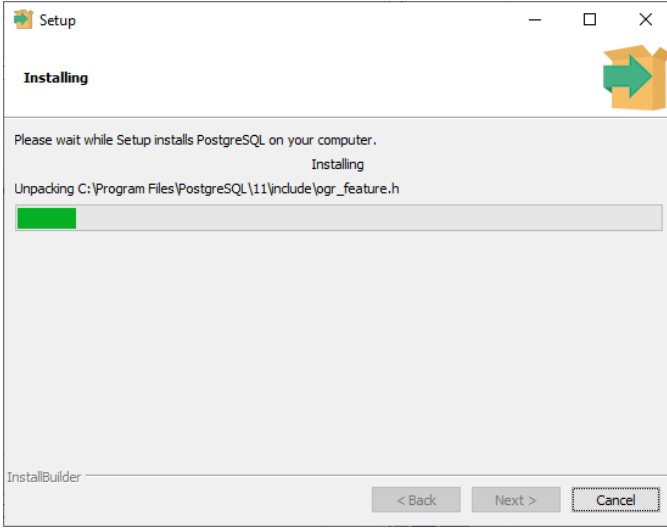
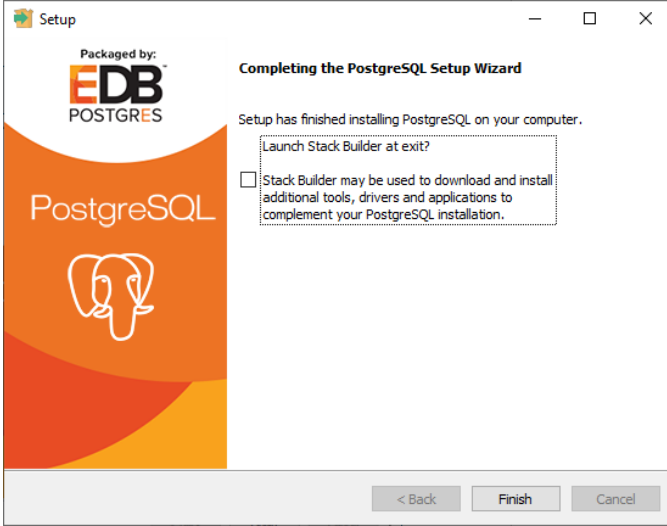
PostgreSQL Installation

The following table explains how to install a PostgreSQL database. The postgresql-xx.x-x-windows-x64.exe installer is located in the “Prerequisites” sub-folder of the MIKE+ installation.

Installation step	Screen
Run the database installation program e.g. postgresql-xx.x-x-windows-x64.exe	
Start of installation Click Next	 <p>The screenshot shows the 'Setup - PostgreSQL' window. It features the EDB PostgreSQL logo and the PostgreSQL elephant logo. The text reads: 'Welcome to the PostgreSQL Setup Wizard.' At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>
Accept the default installation folder Click Next	 <p>The screenshot shows the 'Setup - PostgreSQL' window at the 'Installation Directory' step. It includes a green arrow icon pointing right. The text says: 'Please specify the directory where PostgreSQL will be installed.' Below this, the 'Installation Directory' is set to 'C:\Program Files\PostgreSQL\11'. At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>

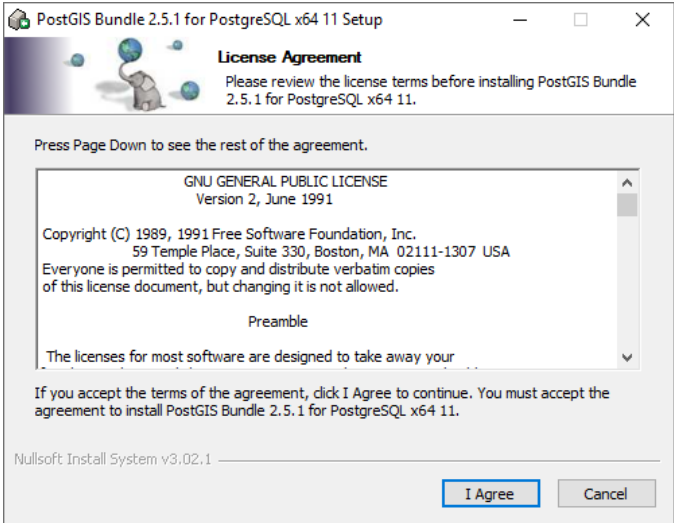
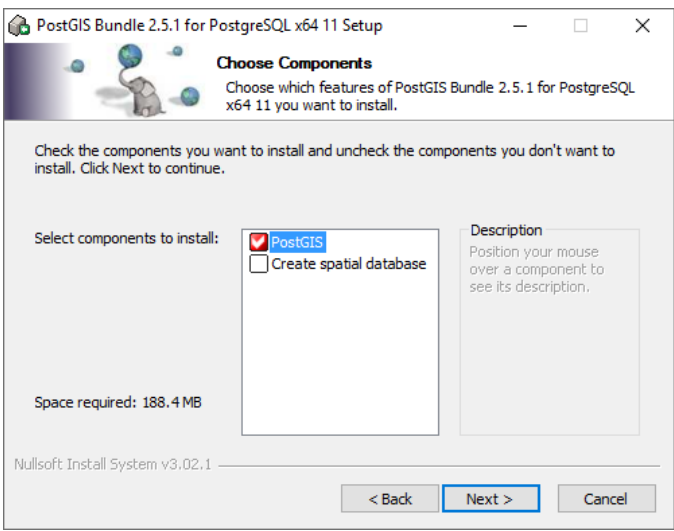
Installation step	Screen
<p>Accept the default selected components.</p> <p>Click Next</p>	
<p>Accept the default data folder.</p> <p>Click Next</p>	
<p>Type in a password for the postgres user (the administrator for the database server).</p> <p>Click Next</p>	

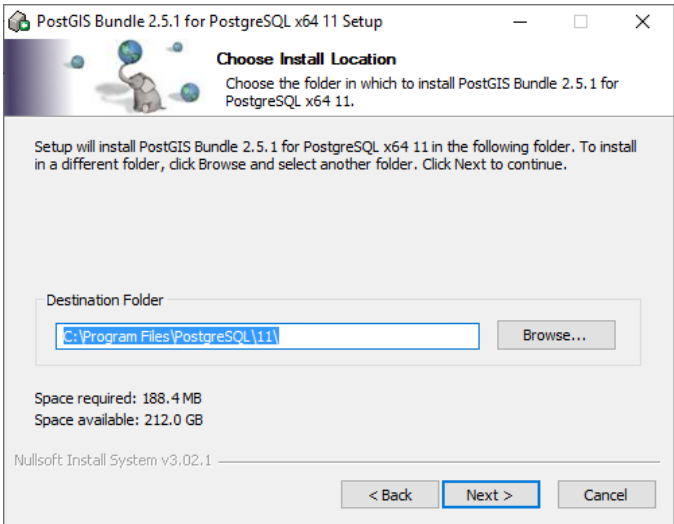
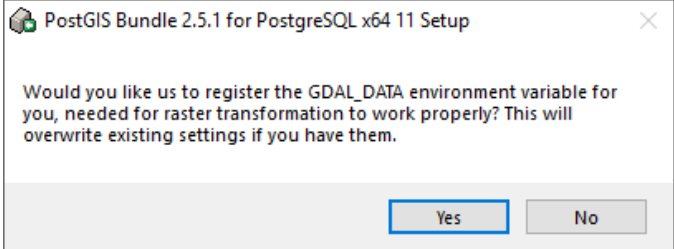
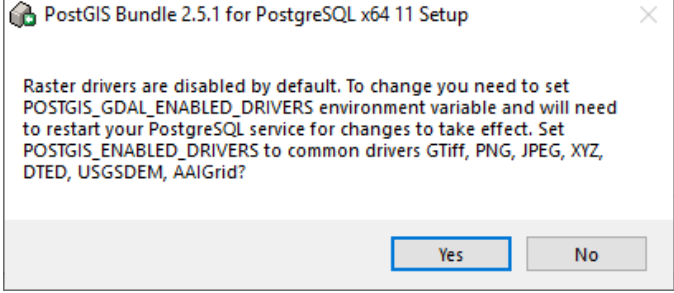
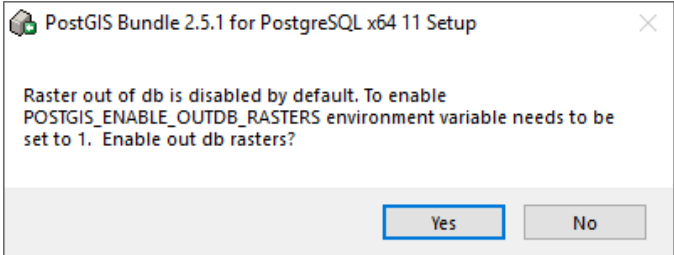
Installation step	Screen
<p>Accept the default port number (5432)</p> <p>Click Next</p>	 <p>Setup</p> <p>Port</p> <p>Please select the port number the server should listen on.</p> <p>Port 5432</p> <p>InstallBuilder</p> <p>< Back Next > Cancel</p>
<p>Leave the "Locale" as "Default Locale"</p> <p>Click Next</p>	 <p>Setup</p> <p>Advanced Options</p> <p>Select the locale to be used by the new database cluster.</p> <p>Locale [Default locale]</p> <p>InstallBuilder</p> <p>< Back Next > Cancel</p>
<p>Installation summary.</p> <p>Click Next</p>	 <p>Setup</p> <p>Pre Installation Summary</p> <p>The following settings will be used for the installation::</p> <p>Installation Directory: C:\Program Files\PostgreSQL\11 Server Installation Directory: C:\Program Files\PostgreSQL\11 Data Directory: C:\Program Files\PostgreSQL\11\data Database Port: 5432 Database Superuser: postgres Operating System Account: NT AUTHORITY\NetworkService Database Service: postgresql-x64-11 Command Line Tools Installation Directory: C:\Program Files\PostgreSQL\11 pgAdmin4 Installation Directory: C:\Program Files\PostgreSQL\11\pgAdmin 4 Stack Builder Installation Directory: C:\Program Files\PostgreSQL\11</p> <p>InstallBuilder</p> <p>< Back Next > Cancel</p>

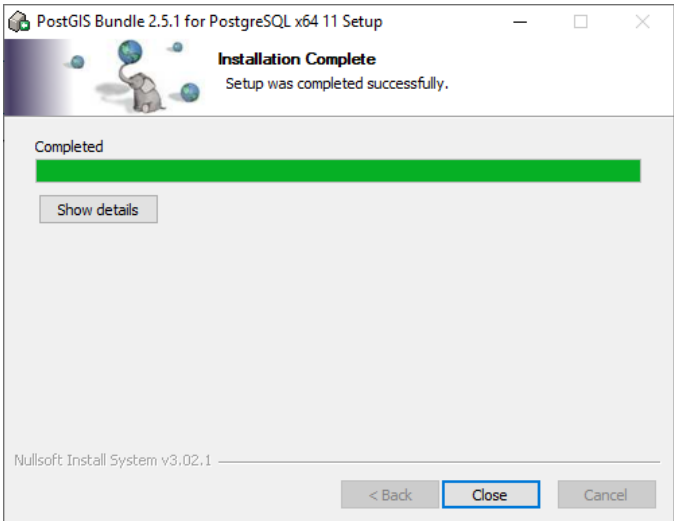
Installation step	Screen
Click Next	 <p>The screenshot shows the 'Setup' window with the title 'Ready to Install'. It states 'Setup is now ready to begin installing PostgreSQL on your computer.' There is a large green arrow icon pointing right. At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>
Installing	 <p>The screenshot shows the 'Setup' window with the title 'Installing'. It says 'Please wait while Setup installs PostgreSQL on your computer.' Below this, it says 'Installing' and 'Unpacking C:\Program Files\PostgreSQL\11\include\pggr_feature.h'. A green progress bar is visible. At the bottom, there are buttons for '< Back', 'Next >', and 'Cancel'.</p>
<p>The database server installation has finished</p> <p>Click off the “Launch Stack Builder at exit?” option and then click Finish</p>	 <p>The screenshot shows the 'Setup' window with the title 'Completing the PostgreSQL Setup Wizard'. It says 'Setup has finished installing PostgreSQL on your computer.' There is a checkbox labeled 'Launch Stack Builder at exit?' which is unchecked. Below it, a text box says 'Stack Builder may be used to download and install additional tools, drivers and applications to complement your PostgreSQL installation.' On the left, there is a large orange graphic with the PostgreSQL logo and the text 'PostgreSQL'. At the bottom, there are buttons for '< Back', 'Finish', and 'Cancel'.</p>

PostGIS Installation

The following table explains how to install PostGIS database extension. The postgis-bundle-pg11x64-setup-x.x.x-x.exe installer is located in the “Prerequisites” sub-folder of the MIKE+ installation.

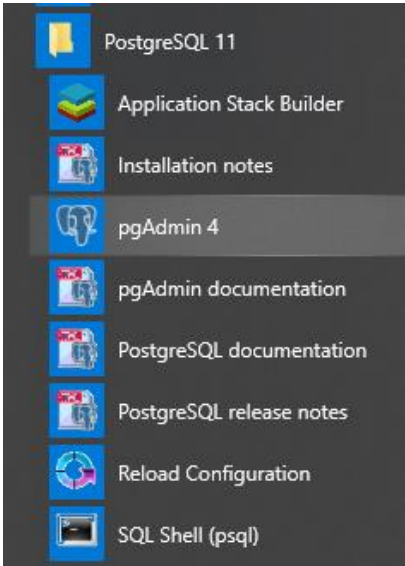

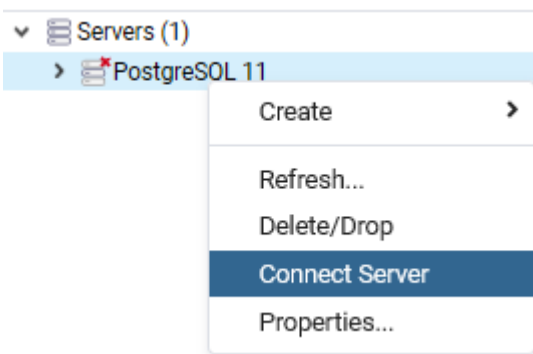
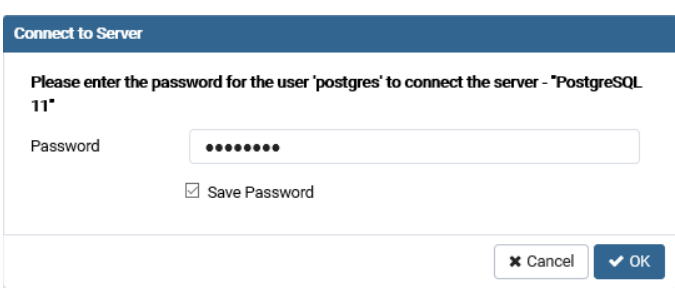
Installation step	Screen
Run the PostGIS installation program (e.g. postgis-bundle-pg11x64-setup-x.x.x-x.exe)	
Start of installation Click I Agree	 <p>The screenshot shows the 'License Agreement' window for PostGIS Bundle 2.5.1 for PostgreSQL x64 11. It displays the GNU General Public License (Version 2, June 1991) and asks the user to review the terms before installing. The 'I Agree' button is highlighted.</p>
Leave “Create spatial database” unchecked. Click Next	 <p>The screenshot shows the 'Choose Components' window for PostGIS Bundle 2.5.1 for PostgreSQL x64 11. It allows the user to select which features to install. The 'PostGIS' component is checked, and 'Create spatial database' is unchecked. The 'Next >' button is highlighted.</p>

Installation step	Screen
Accept the default folder. Click Next	 <p>The screenshot shows the 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup' window. The title bar says 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup'. The main content area has a heading 'Choose Install Location' and a sub-heading 'Choose the folder in which to install PostGIS Bundle 2.5.1 for PostgreSQL x64 11.' Below this, it says 'Setup will install PostGIS Bundle 2.5.1 for PostgreSQL x64 11 in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.' There is a text box for 'Destination Folder' containing 'C:\Program Files\PostgreSQL\11\'. To the right of the text box is a 'Browse...' button. Below the text box, it says 'Space required: 188.4 MB' and 'Space available: 212.0 GB'. At the bottom, there is a 'Nullsoft Install System v3.02.1' label and three buttons: '< Back', 'Next >', and 'Cancel'.</p>
Yes to the GDAL_Data environment variable Click Yes	 <p>The screenshot shows the 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup' window. The title bar says 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup'. The main content area has a heading 'Would you like us to register the GDAL_DATA environment variable for you, needed for raster transformation to work properly? This will overwrite existing settings if you have them.' Below the text, there are two buttons: 'Yes' and 'No'.</p>
Yes to both set of environment variables Click Yes	 <p>The screenshot shows the 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup' window. The title bar says 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup'. The main content area has a heading 'Raster drivers are disabled by default. To change you need to set POSTGIS_GDAL_ENABLED_DRIVERS environment variable and will need to restart your PostgreSQL service for changes to take effect. Set POSTGIS_ENABLED_DRIVERS to common drivers GTiff, PNG, JPEG, XYZ, DTED, USGSDEM, AAIGrid?' Below the text, there are two buttons: 'Yes' and 'No'.</p>  <p>The screenshot shows the 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup' window. The title bar says 'PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup'. The main content area has a heading 'Raster out of db is disabled by default. To enable POSTGIS_ENABLE_OUTDB_RASTERS environment variable needs to be set to 1. Enable out db rasters?' Below the text, there are two buttons: 'Yes' and 'No'.</p>

Installation step	Screen
<p>The installation has finished</p> <p>Click Close</p>	 <p>The screenshot shows a Windows-style window titled "PostGIS Bundle 2.5.1 for PostgreSQL x64 11 Setup". The window has a standard title bar with minimize, maximize, and close buttons. The main content area features a green progress bar at the top, which is fully filled. Below the progress bar, the text "Installation Complete" is displayed in a bold font, followed by "Setup was completed successfully." in a smaller font. A "Show details" button is located below the text. At the bottom of the window, there is a footer area that says "Nullsoft Install System v3.02.1". To the right of the footer, there are three buttons: "< Back", "Close" (which is highlighted with a blue border), and "Cancel".</p>

APPENDIX B: Advanced PostgreSQL Database management tool

The PostgreSQL database password provided during installation can be stored in the database for easy access in the future. It is an optional configuration.

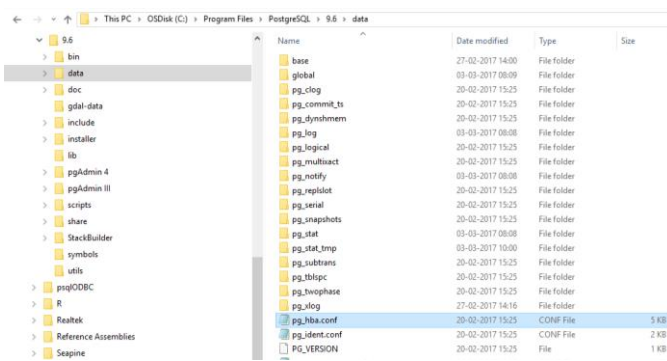
Installation step	Screen
Start the pgAdmin 4 database administration tool from the Windows Start menu	
An internet browser opens	
Right click the database server entry for localhost under the Servers node to access "Connect Server"	
<p>Provide the password for the postgres user and check on the "Store password" option</p> <p>Note: Clicking on "Store password" leads to a warning.</p> <p>Click OK on the warning dialog</p>	

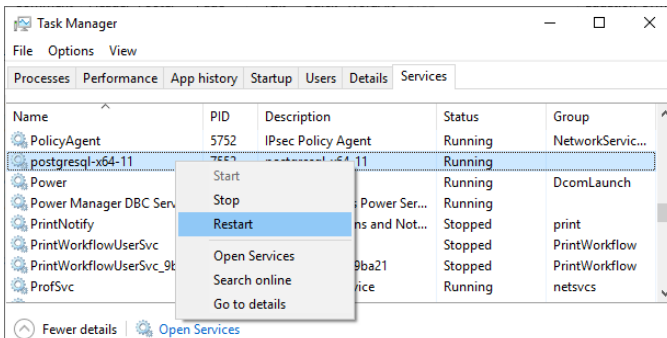
APPENDIX C: Configuring the PostgreSQL Database Server for remote access

IMPORTANT: This is only needed if the database server shall accept connection from remote computers.

The section describes how to configure the PostgreSQL database server for running in corporate mode.

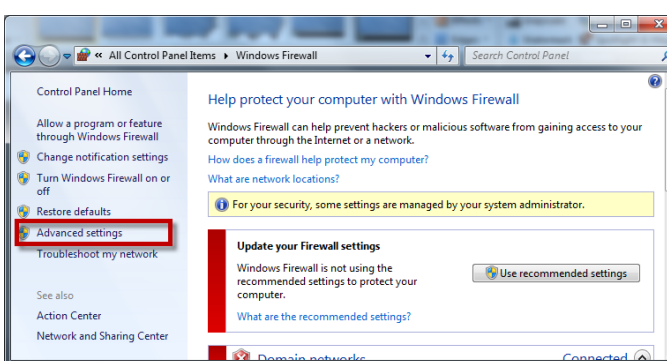
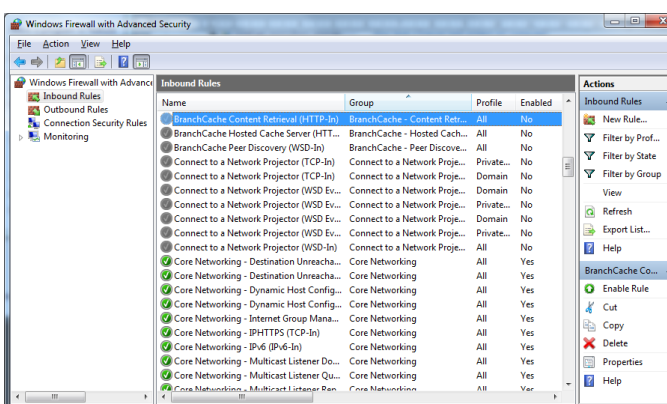
Start by enabling password save as shown in APPENDIX B.

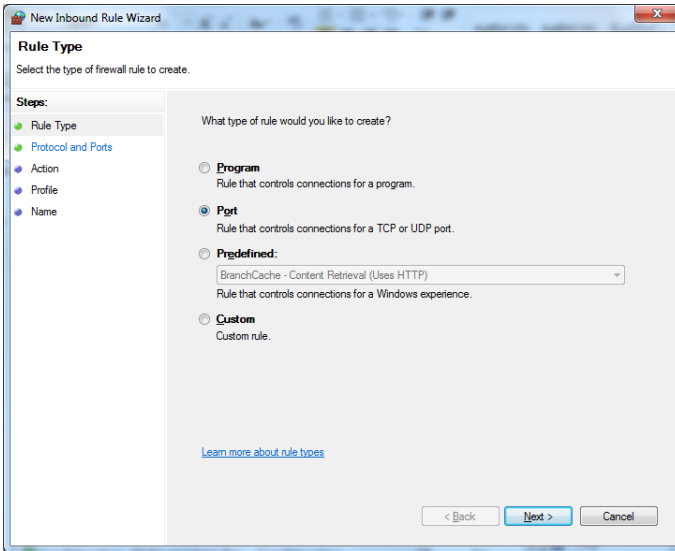
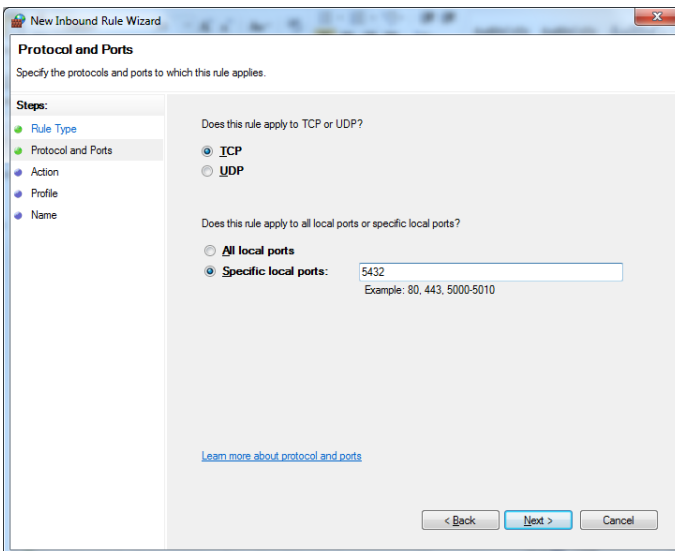
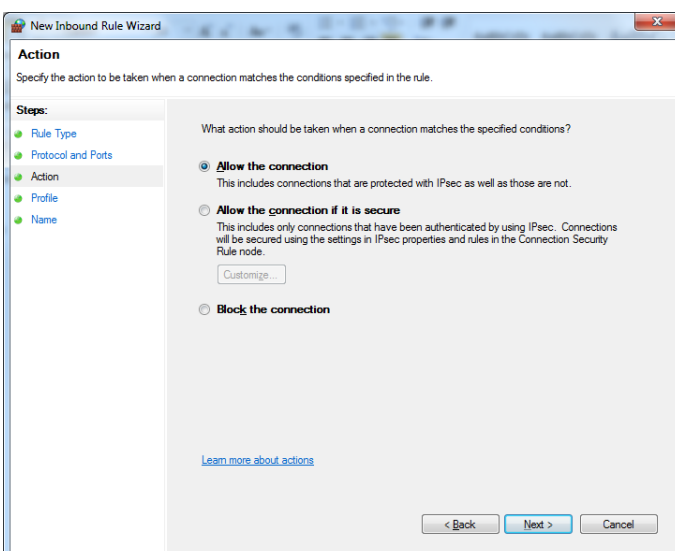
Installation step	Screen
<p>Locate the <code>pg_hba.conf</code> file in the data folder (C:\Program Files\PostgreSQL\11\data) and open it in an editor e.g. Notepad</p>	
<p>Insert new line(s) to open up for all non-local connections to database as shown on the right</p> <p>Open for IPv4:</p> <p>host all all 0.0.0.0/0 md5</p> <p>Open for IPv6:</p> <p>host all all ::0/0 md5</p> <p>Adjust spaces!</p> <p>Save the configuration.</p>	 <pre> # OPTIONS are a set of options for the authentication in the format # NAME=VALUE. The available options depend on the different # authentication methods -- refer to the "Client Authentication" # section in the documentation for a list of which options are # available for which authentication methods. # # Database and user names containing spaces, commas, quotes and other # special characters must be quoted. Quoting one of the keywords # "all", "sameuser", "samerole" or "replication" makes the name lose # its special character, and just match a database or username with # that name. # # This file is read on server startup and when the server receives a # SIGHUP signal. If you edit the file on a running system, you have to # SIGHUP the server for the changes to take effect, run "pg_ctl reload", # or execute "SELECT pg_reload_conf()". # # Put your actual configuration here # ----- # # If you want to allow non-local connections, you need to add more # "host" records. In that case you will also need to make PostgreSQL # listen on a non-local interface via the listen_addresses # configuration parameter, or via the -i or -h command line switches. # TYPE DATABASE USER ADDRESS METHOD # IPv4 local connections: host all all 127.0.0.1/32 md5 # IPv6 local connections: host all all ::1/128 md5 # Allow replication connections from localhost, by a user with the # replication privilege. host replication all 127.0.0.1/32 md5 host replication all ::1/128 md5 host all all 0.0.0.0/0 md5 host all all ::0/0 md5 </pre>

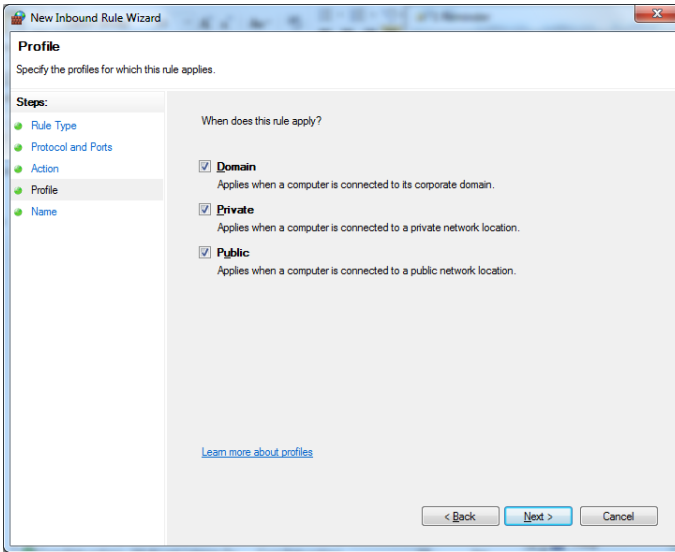
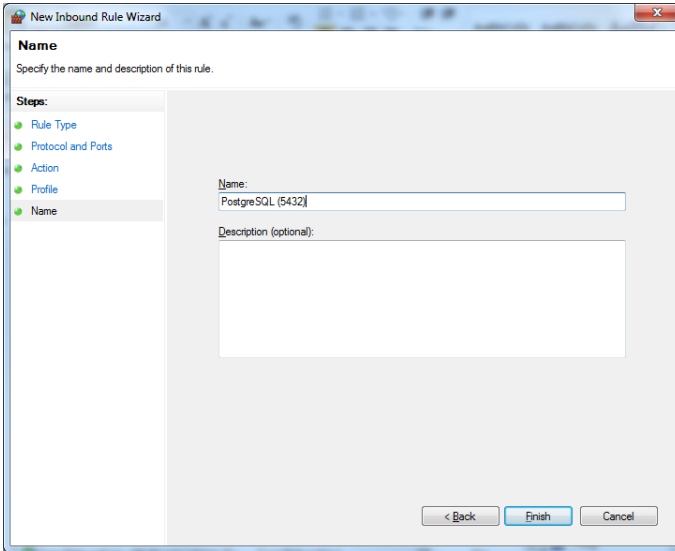
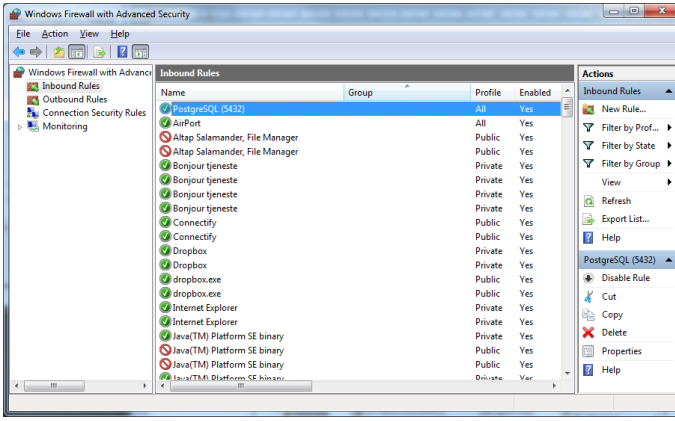
Installation step	Screen
Restart the services to apply the update.	

Configuring the Windows Firewall for remote access to PostgreSQL

The section describes how to configure the Windows firewall for PostgreSQL running in enterprise mode.

Installation step	Screen
<p>Open the Firewall applet in the Windows Control Panel</p> <p>Click Advanced Settings</p>	
<p>Select Inbound Rules</p> <p>Click New Rule in the Actions panel to the right</p>	

Installation step	Screen
Select Port Click Next	 <p>The 'New Inbound Rule Wizard' window is shown at the 'Rule Type' step. The 'Steps' list on the left includes Rule Type, Protocol and Ports, Action, Profile, and Name. The main area asks 'What type of rule would you like to create?'. The 'Port' option is selected, described as 'Rule that controls connections for a TCP or UDP port.' Other options are Program, Predefined (with a dropdown menu), and Custom.</p>
Select TCP, Specific local ports and enter 5432 (or the port number specified when installing PostgreSQL) Click Next	 <p>The 'New Inbound Rule Wizard' window is shown at the 'Protocol and Ports' step. The 'Steps' list on the left is updated. The main area asks 'Does this rule apply to TCP or UDP?' with 'TCP' selected. Below, it asks 'Does this rule apply to all local ports or specific local ports?' with 'Specific local ports:' selected. A text box contains '5432' with the example '80, 443, 5000-5010' below it.</p>
Select Allow the connection Click Next	 <p>The 'New Inbound Rule Wizard' window is shown at the 'Action' step. The 'Steps' list on the left is updated. The main area asks 'What action should be taken when a connection matches the specified conditions?'. The 'Allow the connection' option is selected, described as 'This includes connections that are protected with IPsec as well as those that are not.' Other options are 'Allow the connection if it is secure' and 'Block the connection'.</p>

Installation step	Screen
<p>Click on for all profiles</p> <p>Click Next</p>	
<p>Specify a rule name – e.g. “PostgreSQL (5432)” – and a description</p> <p>Click Finish</p>	
<p>The new rule is now added to the list of Inbound rules</p>	

APPENDIX D: Install ArcGIS Pro

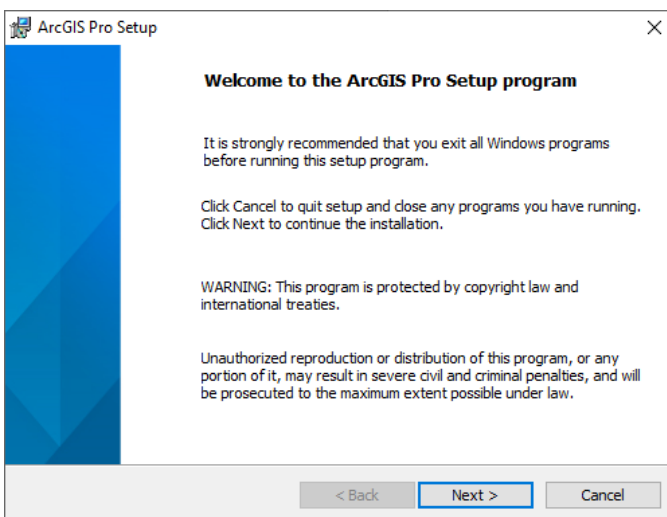
The ArcGIS Pro installation is carried out in two stages:


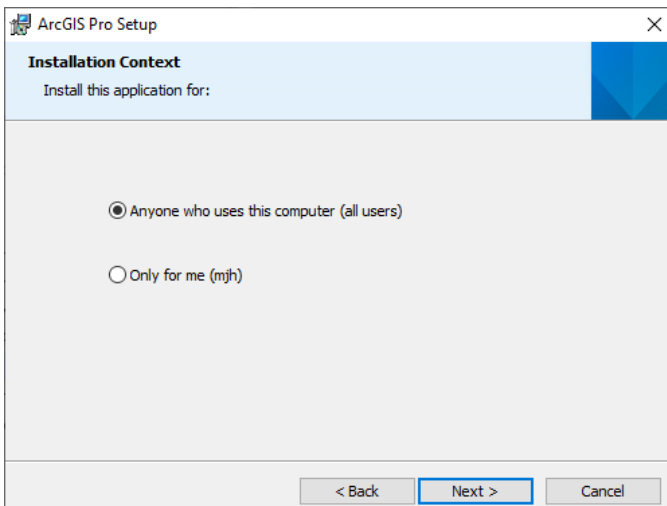
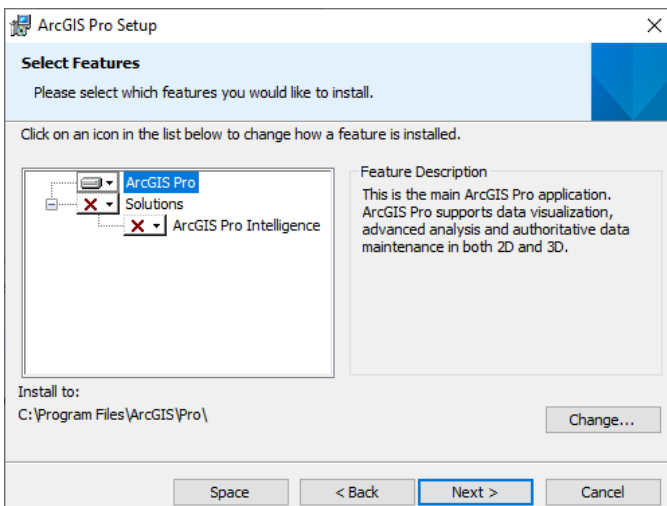
1. Installation of ArcGIS Pro;
2. Authorization of the license as named user (preferred option, applicable to single use as well as concurrent use licenses), or Concurrent license using EFL code or local license.

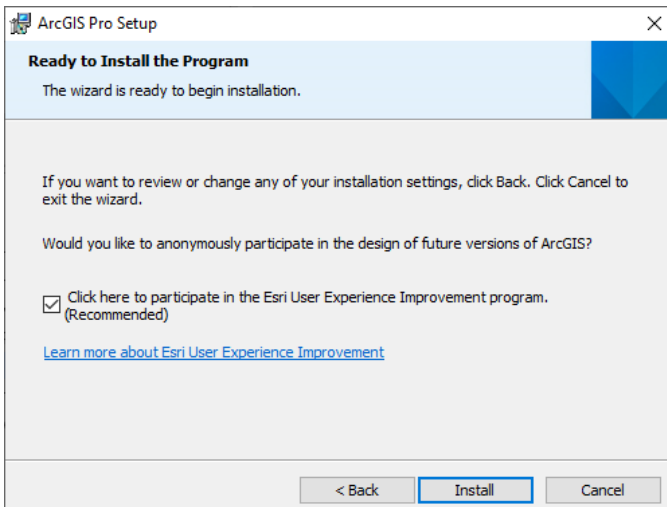
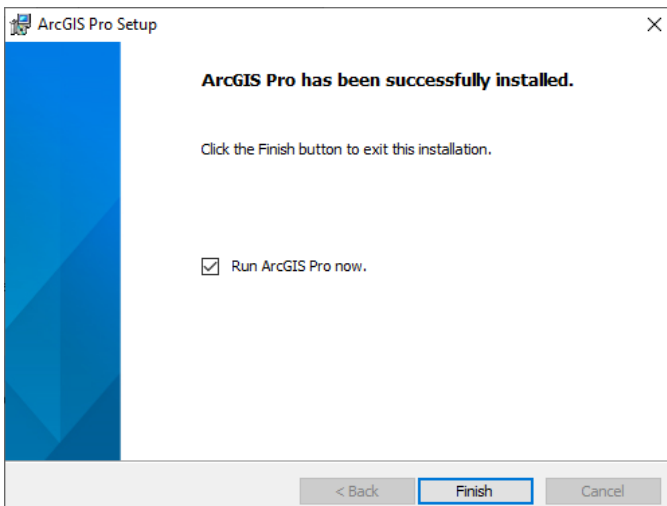
If you already have ArcGIS Pro 2.5 installed and authorised, please refer to the last chapter below for more details about the update process.

ArcGIS Pro Installation

The following table explains how to install ArcGIS Pro. The ArcGISPro.msi installer is located in the “Prerequisites” sub-folder of the MIKE+ installation.

Installation step	Screen
<p>Run the <i>ArcGISPro.msi</i> program file from the installation media/download folder, in the ‘ArcGIS Pro’ folder.</p> <p>Click Next</p>	

Installation step	Screen
<p>Select I accept the master agreement</p> <p>Click Next</p>	 <p>The screenshot shows the 'Master Agreement (E204CW)' window. It includes the text: 'Revised September 16, 2020', 'IMPORTANT-READ CAREFULLY', and a paragraph about the license agreement. There are two radio buttons: 'I accept the master agreement' (selected) and 'I do not accept the master agreement'. A 'Print' button is on the right. At the bottom, there is a link 'Agreement PDFs (all languages)', and '< Back', 'Next >', and 'Cancel' buttons.</p>
<p>Select Anyone who uses this computer (all users)</p> <p>Click Next</p>	 <p>The screenshot shows the 'Installation Context' window. It asks 'Install this application for:' and has two radio buttons: 'Anyone who uses this computer (all users)' (selected) and 'Only for me (mjh)'. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons.</p>
<p>Click Next</p>	 <p>The screenshot shows the 'Select Features' window. It asks 'Please select which features you would like to install.' and 'Click on an icon in the list below to change how a feature is installed.' There is a tree view with 'ArcGIS Pro' selected, and 'Solutions' and 'ArcGIS Pro Intelligence' are also visible. A 'Feature Description' box on the right describes the main application. At the bottom, it says 'Install to: C:\Program Files\ArcGIS\Pro\' and has a 'Change...' button. At the very bottom are 'Space', '< Back', 'Next >', and 'Cancel' buttons.</p>

Installation step	Screen
Click Install	
Click Finish	

Authorization with a named user license

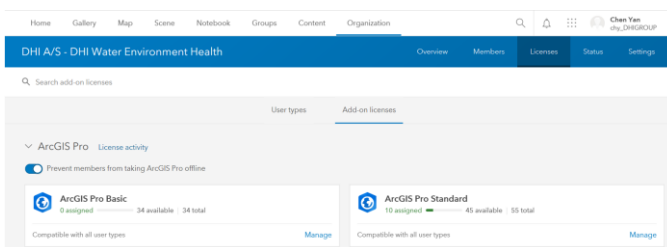
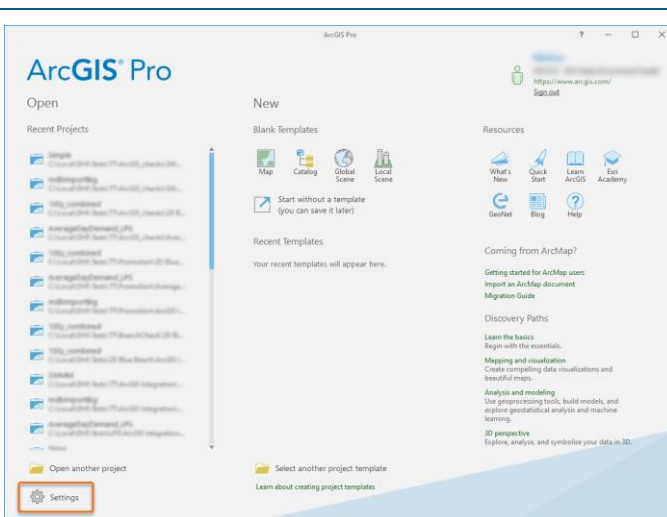
The named user license (single use as well as concurrent use) provides an easy procedure for authorization and no physical license server is needed. If you have a named user license of ArcGIS Pro software, please follow these instructions to authorize the product.

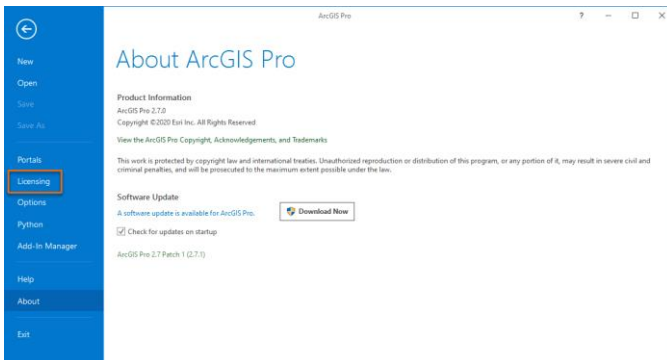
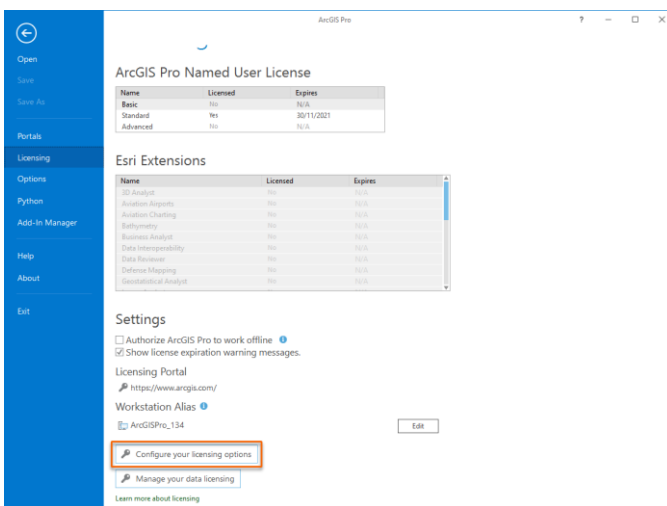
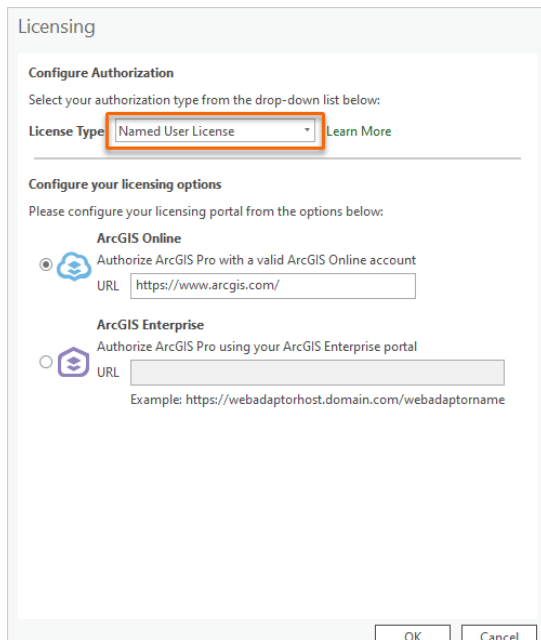
The authorization for ArcGIS Pro as named user license is done through ArcGIS online. You must have received an activation E-mail with a link. ArcGIS online can be used for ArcGIS Pro licensing, adding and removing members, sharing projects and maps based on the cloud solution.

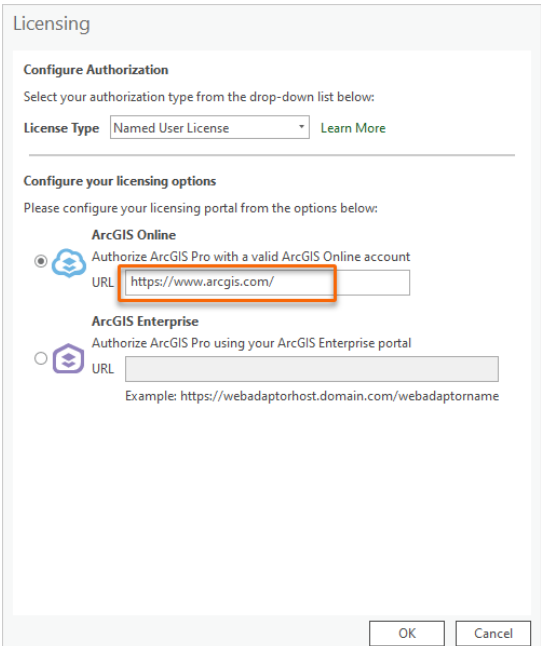
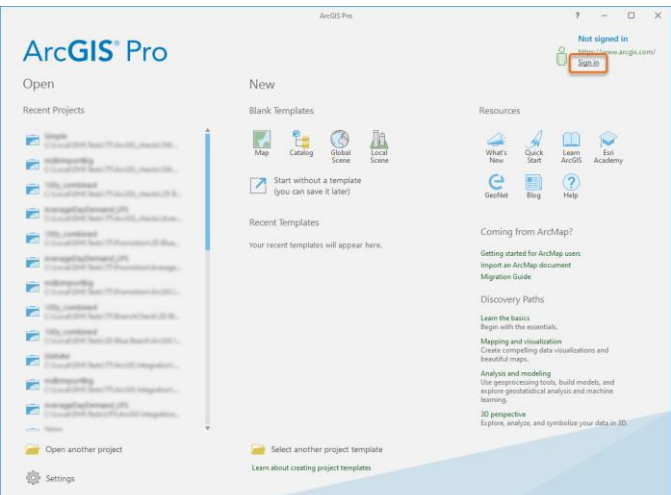
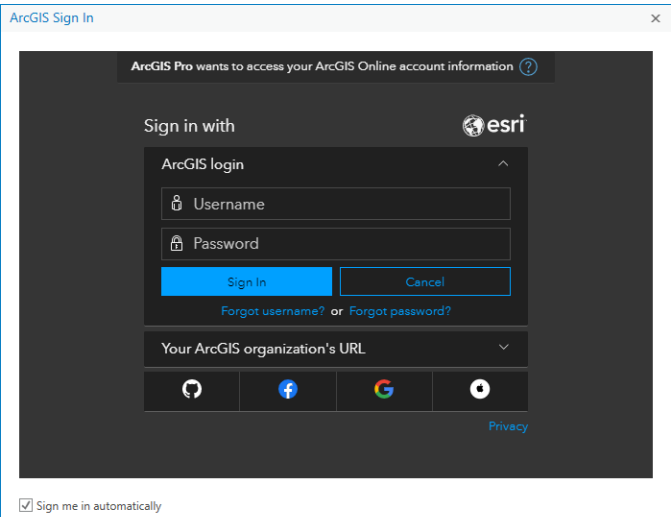
In general, 4 steps need to be done:

1. Click on the activation link (Please note the first user will automatically become the company admin)
2. Create an ArcGIS online for your company, following the on-screen instructions

3. Under the 'Organization' tab, click on 'Overview' and select 'Invite more company members' meanwhile assigning Pro license to the member
4. The member can now login to ArcGIS Pro using the created credential.

Installation step	Screen
<p>Click on the activation link and follow the indications to create the ArcGIS online for your organization</p> <p>To explore the functionality of ArcGIS online, click on 'Self-Help Resources'</p>	<p>Hello:</p> <p>Here is the information for activating your ArcGIS Online subscription.</p> <p>To activate your subscription, click the following link or copy it into your browser:</p> <p>https://www.arcgis.com/home/activate.html?activationcode=21c10c00938dbd50c2a5</p> <p>Review the terms of use.</p> <p>Your Subscription Information</p> <p>Keep the following subscription ID for your records and reference it if you need to contact us.</p> <p>Subscription ID: XXXXXXXXXX Customer number: XXXXXX Customer Name: DHI</p> <p>Self-Help Resources</p> <p>ArcGIS Online help ArcGIS Online forum ArcGIS Online videos ArcGIS Online blog</p>
<p>The first user clicking on the activation mail will be appointed as company admin automatically. The company admin then invites members to join ArcGIS online as well as assigning Pro license. The invitation letter must be activated within 14 days.</p>	<p>An invitation to join an ArcGIS Online organization, DHI A/S - DHI Water Environment Health.</p> <p>ArcGIS Notifications <notifications@arcgis.com> To: Chen Yan</p> <p>Chen Yan has invited you to join an ArcGIS Online Organization, DHI A/S - DHI Water Environment Health.</p> <p>Please click this link to finish setting up your account and establish your password to join the organization, DHI A/S - DHI Water Environment Health: https://www.arcgis.com/home/newuser.html?invitation=Add2e1852f0994d1088034</p> <p>This link will expire in 14 day(s).</p> <p>Note that your account has already been created for you with the username, Chen Yan.</p> <p>If you have difficulty signing in, please contact Chen Yan at Chen.Yan@dhiaqua.com. Be sure to include a description of the problem, the error message, and a screenshot.</p> <p>For your reference, you can access the home page of the organization here: https://portal.dhigroup.maps.arcgis.com</p> <p>Experience what's possible with ArcGIS Online for free hands-on lessons and other resources, visit Learn ArcGIS.</p>
<p>To assign ArcGIS Pro license to existing members, go to tab 'License' \ 'Manage'.</p> <p>You can follow below video for demonstration basics on ArcGIS online from here.</p>	
<p>Activate the named license on the local installation of ArcGIS Pro:</p> <p>Start ArcGIS Pro</p> <p>Click Settings</p>	

Installation step	Screen
Click Licensing	
Click Configure your licensing options	
Select the license type 'Named User License'	

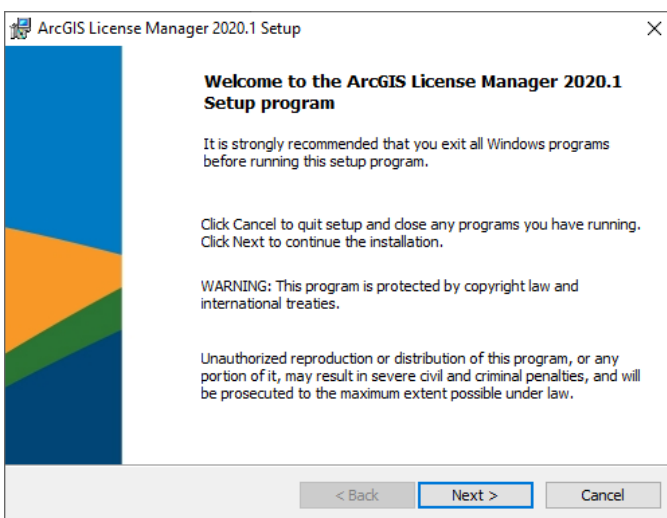

Installation step	Screen
<p>Select the license portal ArcGIS Online, with URL https://www.arcgis.com/</p> <p>Click OK</p>	 <p>The screenshot shows the 'Licensing' dialog box in ArcGIS Pro. Under 'Configure Authorization', 'License Type' is set to 'Named User License'. Under 'Configure your licensing options', 'ArcGIS Online' is selected. The 'URL' field is populated with 'https://www.arcgis.com/' and is highlighted with an orange rectangle. The 'OK' button is visible at the bottom right.</p>
<p>Go back to the start page</p> <p>Click Sign in</p>	 <p>The screenshot shows the ArcGIS Pro start page. In the top right corner, there is a 'Not signed in' notification with a 'Sign in' button highlighted by an orange rectangle. The main area displays various project templates and resources.</p>
<p>Enter your username and password</p>	 <p>The screenshot shows the 'ArcGIS Sign In' dialog box. It prompts the user to 'Sign in with' their ArcGIS Online account. Fields for 'Username' and 'Password' are provided, along with 'Sign In' and 'Cancel' buttons. Below these are links for 'Forgot username?' and 'Forgot password?'. At the bottom, there is a field for 'Your ArcGIS organization's URL' and a checkbox for 'Sign me in automatically'.</p>

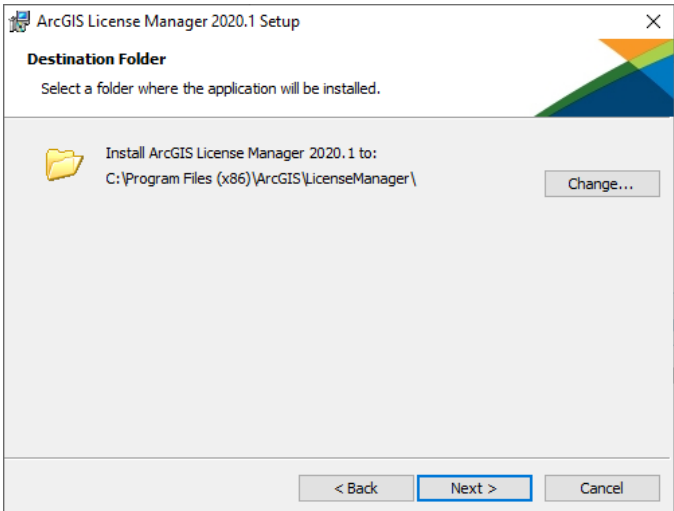
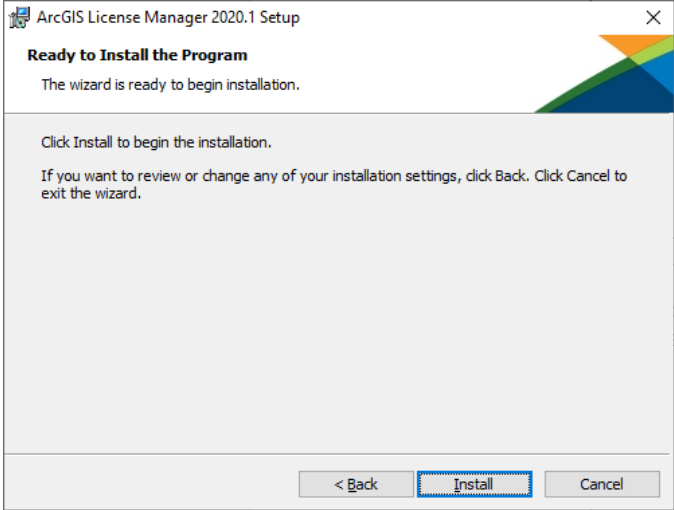
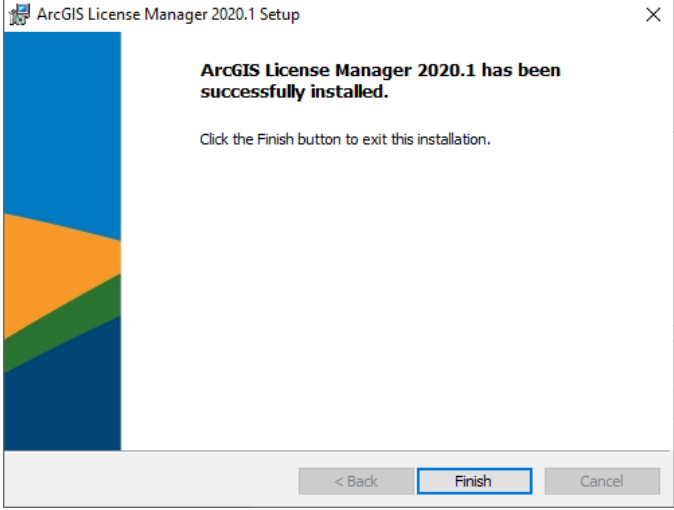
Authorization with a network license server and EFL code

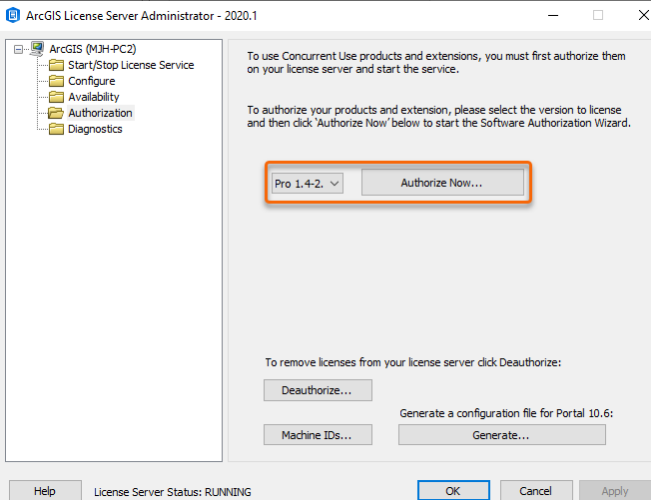
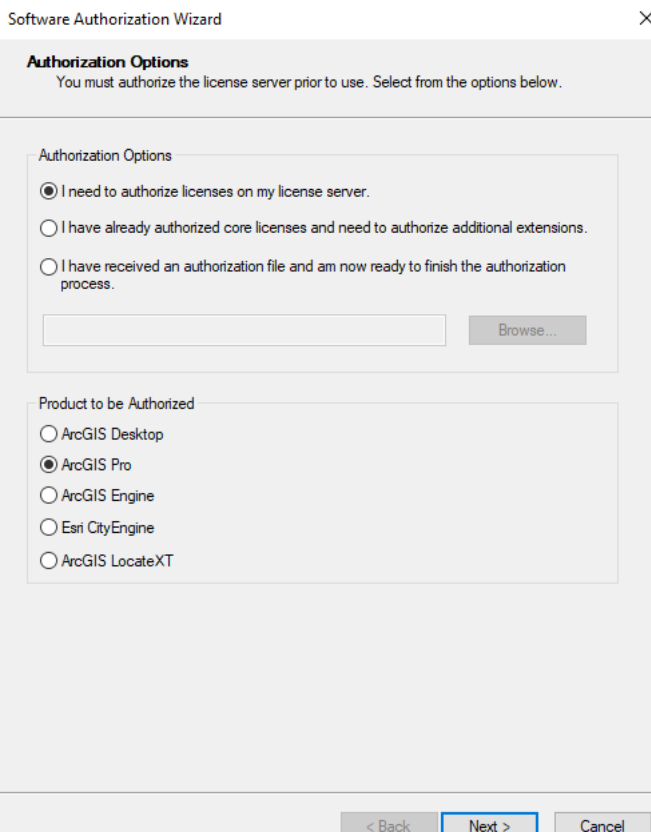
You have received a network license of ArcGIS Pro software with an ELF code (Concurrent use license, with format EFLXXXXXXXXX). Please follow these instructions to authorize the product.

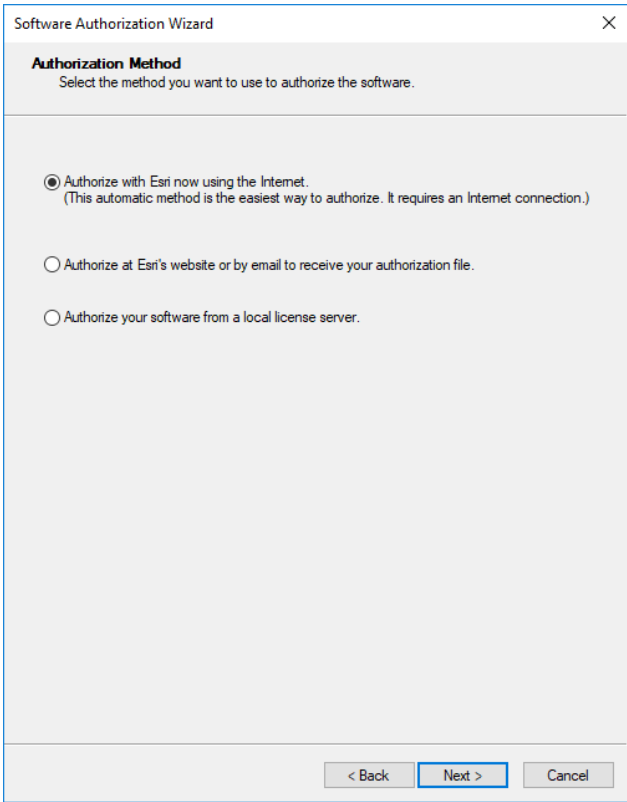
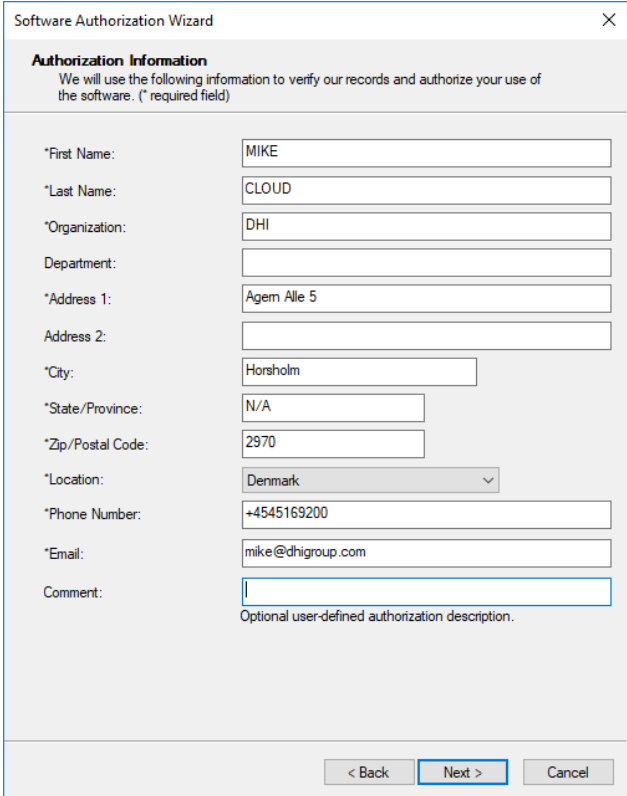
The ArcGIS License Manager in version 2020.1 or higher must be installed in order to make the licenses available. If you wish to use the software on your local PC without making it available in a network, you can install the license manager on the local PC. If you wish to use a setup where you use a local installation of ArcGIS Pro and acquire its license from a license server, you can install it on a server in your local network.

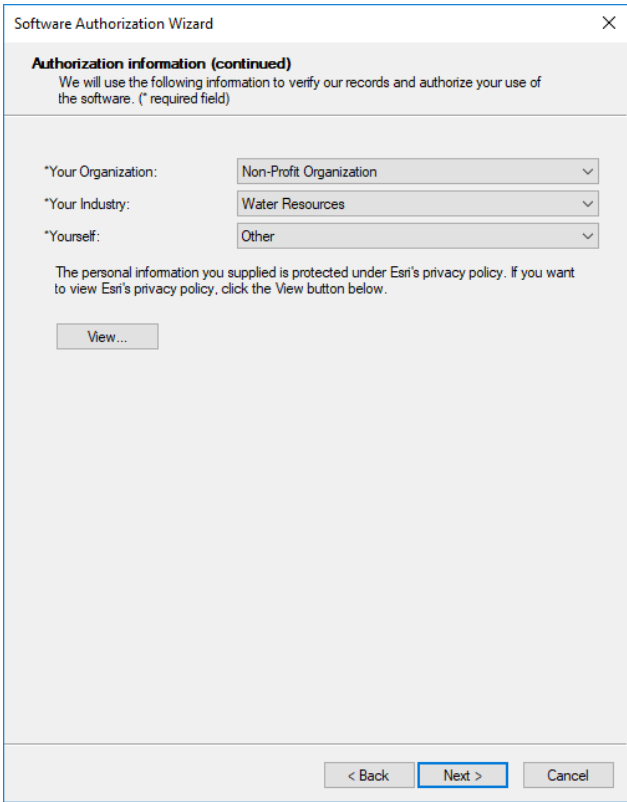
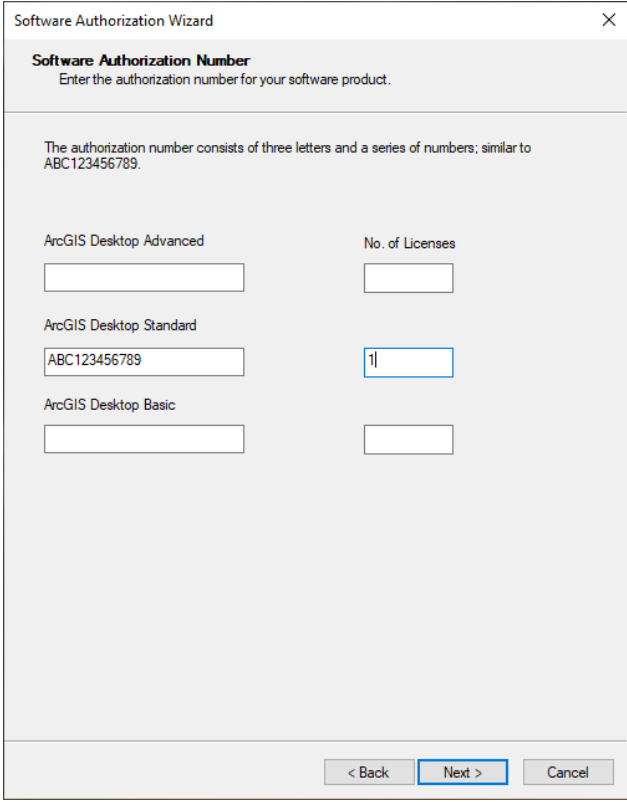
The corresponding installer is located in the “Prerequisites” sub-folder of the MIKE+ installation, under the folder ArcGIS License Manager 20XX.X. If you already have an older version installed, please install the newer version, then the older version will be overwritten. Detailed info can be found here: <https://pro.arcgis.com/en/pro-app/get-started/authorize-arcgis-pro-with-concurrent-use-licenses.htm>

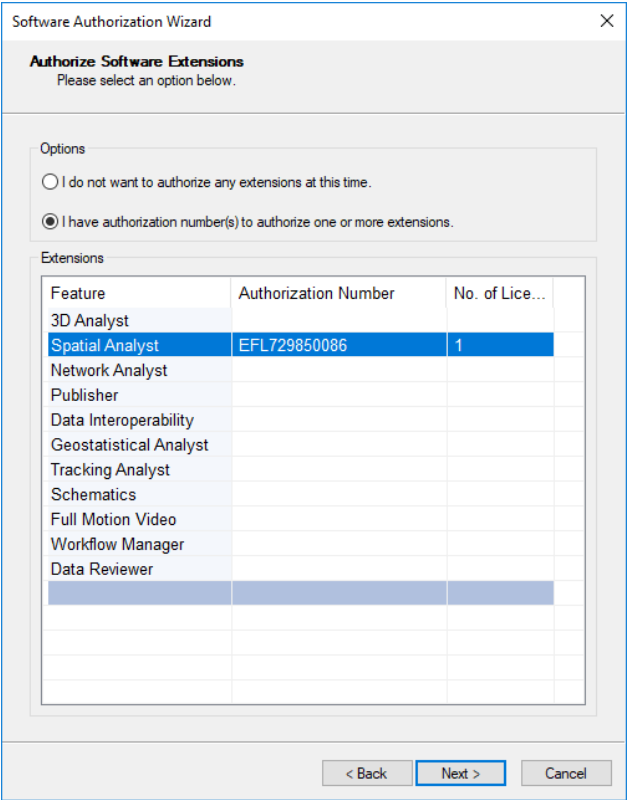
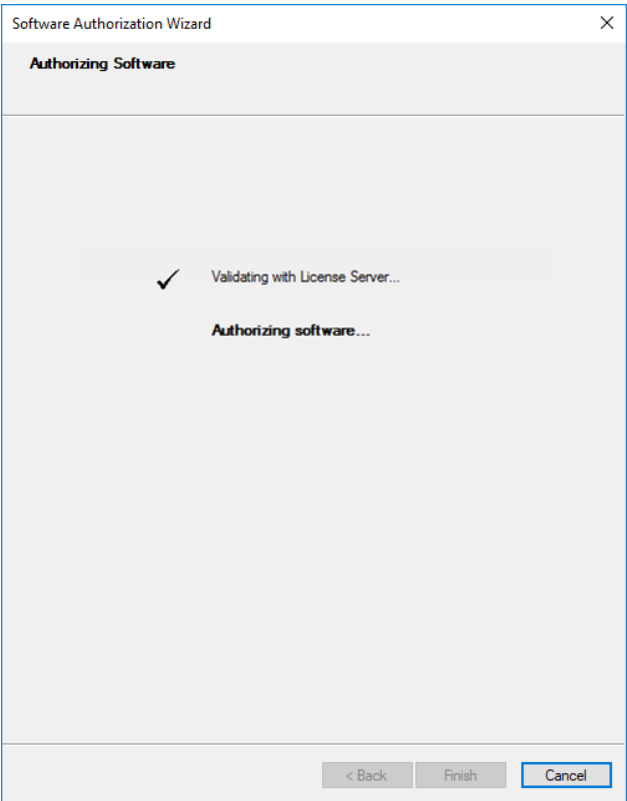
Installation step	Screen
<p>Run the <i>Setup.exe</i> program file from the installation media/download folder, in the ‘ArcGIS License Manager 20XX.X’ folder.</p> <p>Click Next</p>	 <p>The screenshot shows the 'Welcome to the ArcGIS License Manager 2020.1 Setup program' window. It includes a warning to exit all Windows programs before running the setup, instructions to click 'Next' to continue, and a copyright warning. The 'Next >' button is highlighted.</p>
<p>Select I accept the master agreement</p> <p>Click Next</p>	 <p>The screenshot shows the 'Master Agreement (E204CW)' window. It states 'Revised September 16, 2020' and 'IMPORTANT-READ CAREFULLY'. The text of the agreement is displayed, followed by two radio buttons: 'I accept the master agreement' (which is selected) and 'I do not accept the master agreement'. A 'Print' button is also visible. The 'Next >' button is highlighted.</p>

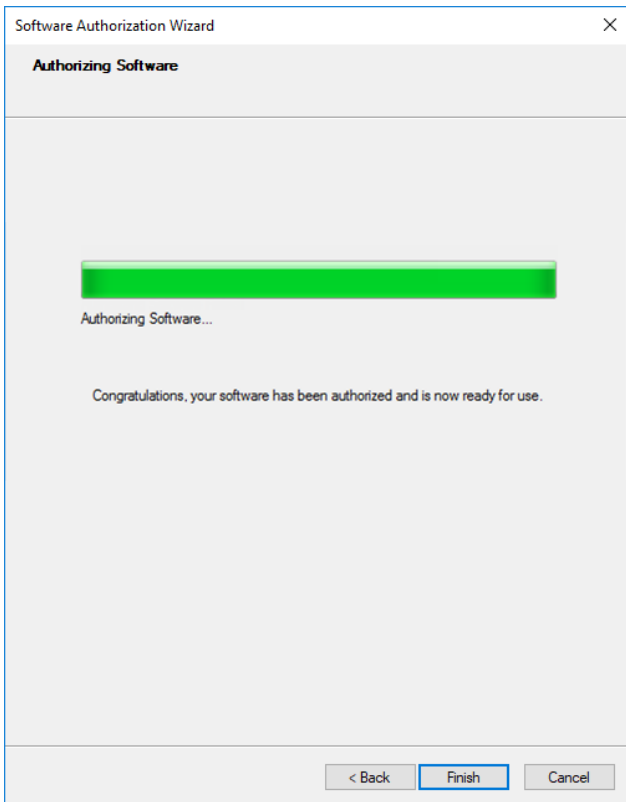
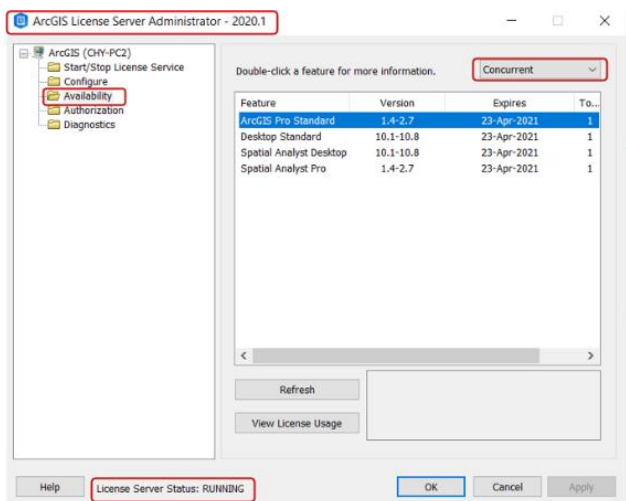
Installation step	Screen
Click Next	 <p>The screenshot shows the 'Destination Folder' screen of the ArcGIS License Manager 2020.1 Setup wizard. It prompts the user to 'Select a folder where the application will be installed.' The default path is 'C:\Program Files (x86)\ArcGIS\LicenseManager\'. A 'Change...' button is available to the right. At the bottom, there are '< Back', 'Next >', and 'Cancel' buttons. The 'Next >' button is highlighted with a blue border.</p>
Click Install The process may take several minutes	 <p>The screenshot shows the 'Ready to Install the Program' screen of the ArcGIS License Manager 2020.1 Setup wizard. It states 'The wizard is ready to begin installation.' and 'Click Install to begin the installation.' It also provides instructions: 'If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.' At the bottom, there are '< Back', 'Install', and 'Cancel' buttons. The 'Install' button is highlighted with a blue border.</p>
Click Finish	 <p>The screenshot shows the 'Successfully Installed' screen of the ArcGIS License Manager 2020.1 Setup wizard. It displays a large blue and orange graphic on the left and states 'ArcGIS License Manager 2020.1 has been successfully installed.' It also says 'Click the Finish button to exit this installation.' At the bottom, there are '< Back', 'Finish', and 'Cancel' buttons. The 'Finish' button is highlighted with a blue border.</p>

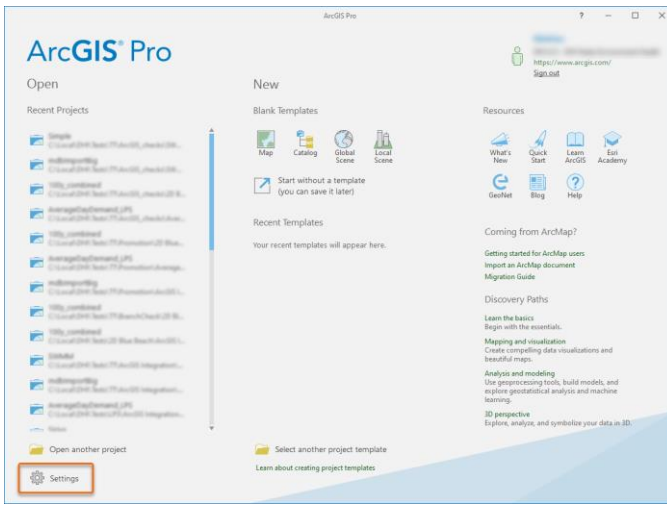
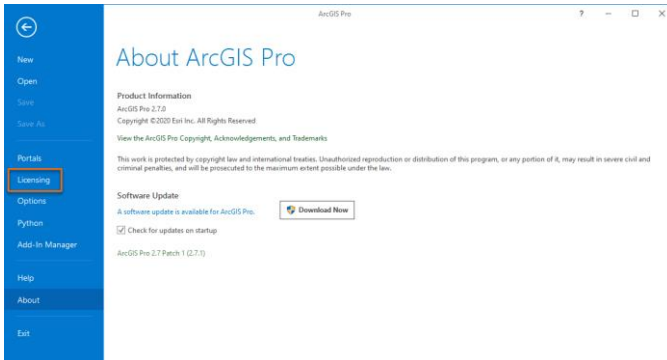
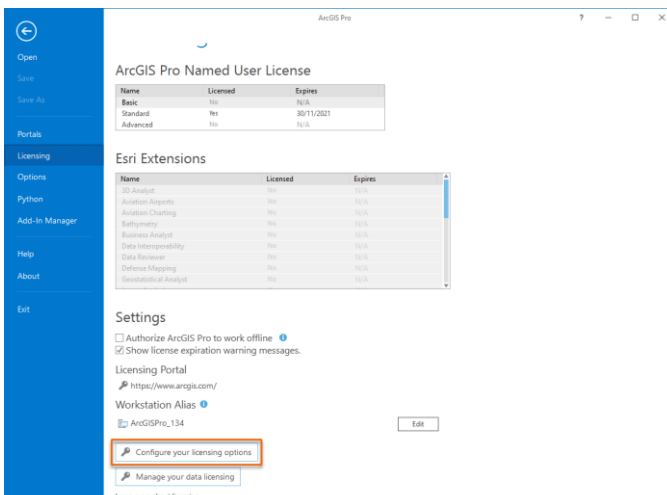
Installation step	Screen
<p>Select the version: Pro X.X-X.X</p> <p>Click Authorize now</p>	
<p>Select 'I need to authorize licenses on my license server'</p> <p>Select the product ArcGIS Pro</p> <p>Click Next</p>	

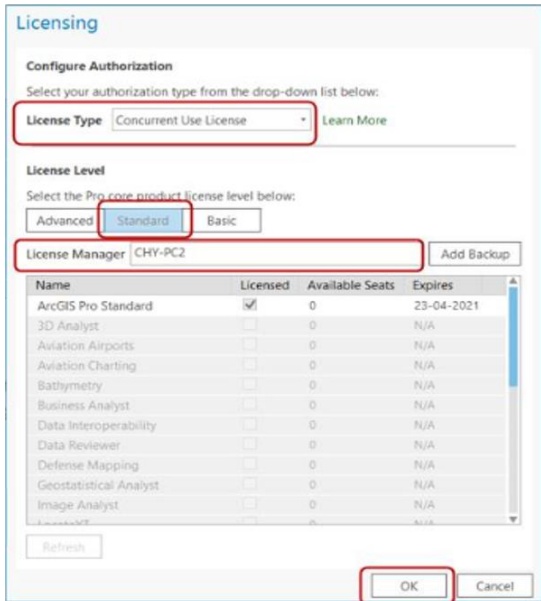
Installation step	Screen
<p>Select this option</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard' with a close button. The main heading is 'Authorization Method' with the instruction 'Select the method you want to use to authorize the software.' There are three radio button options: 'Authorize with Esri now using the Internet. (This automatic method is the easiest way to authorize. It requires an Internet connection.)', 'Authorize at Esri's website or by email to receive your authorization file.', and 'Authorize your software from a local license server.' The first option is selected. At the bottom are buttons for '< Back', 'Next >', and 'Cancel'.</p>
<p>Fill in the necessary information</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard' with a close button. The main heading is 'Authorization Information' with the instruction 'We will use the following information to verify our records and authorize your use of the software. (* required field)'. Below this are several form fields: '*First Name:' (MIKE), '*Last Name:' (CLOUD), '*Organization:' (DHI), 'Department:' (empty), '*Address 1:' (Agem Alle 5), 'Address 2:' (empty), '*City:' (Horsholm), '*State/Province:' (N/A), '*Zip/Postal Code:' (2970), '*Location:' (Denmark), '*Phone Number:' (+4545169200), '*Email:' (mike@dhigroup.com), and 'Comment:' (empty). At the bottom are buttons for '< Back', 'Next >', and 'Cancel'.</p>

Installation step	Screen
<p>Fill in the necessary information</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard'. Below the title bar, it says 'Authorization information (continued)'. The main text says: 'We will use the following information to verify our records and authorize your use of the software. (* required field)'. There are three dropdown menus: '*Your Organization:' with 'Non-Profit Organization' selected, '*Your Industry:' with 'Water Resources' selected, and '*Yourself:' with 'Other' selected. Below these is a paragraph: 'The personal information you supplied is protected under Esri's privacy policy. If you want to view Esri's privacy policy, click the View button below.' There is a 'View...' button. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.</p>
<p>Fill in your ArcGIS Authorization code starting with EFL and select the number of seats you would like to authorize (1 seat per purchased license)</p> <p>If you have already authorized some seats earlier, they cannot be authorized again unless you have de-authorized them</p> <p>Click Next</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard'. Below the title bar, it says 'Software Authorization Number'. The main text says: 'Enter the authorization number for your software product.' Below this is a paragraph: 'The authorization number consists of three letters and a series of numbers; similar to ABC123456789.' There is a table with two columns: 'ArcGIS Desktop Advanced' and 'No. of Licenses'. The first row has an empty text box for 'ArcGIS Desktop Advanced' and an empty text box for 'No. of Licenses'. The second row has 'ABC123456789' in the 'ArcGIS Desktop Standard' text box and '1' in the 'No. of Licenses' text box. The third row has an empty text box for 'ArcGIS Desktop Basic' and an empty text box for 'No. of Licenses'. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.</p>

Installation step	Screen																																																
<p>If you have purchased any ArcGIS extensions, you must also authorize these with an EFL code provided for the extension(s). Enter them as shown.</p> <p>If not, choose 'I do not want to authorize any extensions at this time'.</p> <p>Click Next.</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard'. The main heading is 'Authorize Software Extensions' with the instruction 'Please select an option below.' There are two radio button options: 'I do not want to authorize any extensions at this time.' (unselected) and 'I have authorization number(s) to authorize one or more extensions.' (selected). Below the options is a table titled 'Extensions'.</p> <table><thead><tr><th>Feature</th><th>Authorization Number</th><th>No. of Lice...</th></tr></thead><tbody><tr><td>3D Analyst</td><td></td><td></td></tr><tr><td>Spatial Analyst</td><td>EFL729850086</td><td>1</td></tr><tr><td>Network Analyst</td><td></td><td></td></tr><tr><td>Publisher</td><td></td><td></td></tr><tr><td>Data Interoperability</td><td></td><td></td></tr><tr><td>Geostatistical Analyst</td><td></td><td></td></tr><tr><td>Tracking Analyst</td><td></td><td></td></tr><tr><td>Schematics</td><td></td><td></td></tr><tr><td>Full Motion Video</td><td></td><td></td></tr><tr><td>Workflow Manager</td><td></td><td></td></tr><tr><td>Data Reviewer</td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table> <p>At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.</p>	Feature	Authorization Number	No. of Lice...	3D Analyst			Spatial Analyst	EFL729850086	1	Network Analyst			Publisher			Data Interoperability			Geostatistical Analyst			Tracking Analyst			Schematics			Full Motion Video			Workflow Manager			Data Reviewer														
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<p>The authorization process may take a couple of minutes</p>	 <p>The screenshot shows the 'Software Authorization Wizard' window. The title bar says 'Software Authorization Wizard'. The main heading is 'Authorizing Software'. The central area displays a checkmark icon followed by the text 'Validating with License Server...' and 'Authorizing software...'. At the bottom of the window are three buttons: '< Back', 'Finish', and 'Cancel'.</p>																																																

Installation step	Screen																				
<p>Click Finish</p>																					
<p>Select Availability from the menu, and you will see which licenses you have available</p> <p>Click OK</p>	 <table><tr><th>Feature</th><th>Version</th><th>Expires</th><th>To...</th></tr><tr><td>ArcGIS Pro Standard</td><td>1.4-2.7</td><td>23-Apr-2021</td><td>1</td></tr><tr><td>Desktop Standard</td><td>10.1-10.8</td><td>23-Apr-2021</td><td>1</td></tr><tr><td>Spatial Analyst Desktop</td><td>10.1-10.8</td><td>23-Apr-2021</td><td>1</td></tr><tr><td>Spatial Analyst Pro</td><td>1.4-2.7</td><td>23-Apr-2021</td><td>1</td></tr></table>	Feature	Version	Expires	To...	ArcGIS Pro Standard	1.4-2.7	23-Apr-2021	1	Desktop Standard	10.1-10.8	23-Apr-2021	1	Spatial Analyst Desktop	10.1-10.8	23-Apr-2021	1	Spatial Analyst Pro	1.4-2.7	23-Apr-2021	1
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Installation step	Screen
<p>Start ArcGIS Pro</p> <p>Click Settings</p>	 <p>The ArcGIS Pro start screen shows various options for opening or creating new projects. The 'Settings' icon in the bottom left corner is highlighted with a red box.</p>
<p>Click Licensing</p>	 <p>The 'About ArcGIS Pro' screen displays product information and a software update notification. The 'Licensing' option in the left-hand navigation pane is highlighted with a red box.</p>
<p>Click Configure your licensing options</p>	 <p>The 'ArcGIS Pro Named User License' screen shows license details and a list of extensions. The 'Configure your licensing options' link at the bottom is highlighted with a red box.</p>

Installation step	Screen
<p>Select the appropriate settings and specify the license manager's host name</p> <p>Click OK</p>	

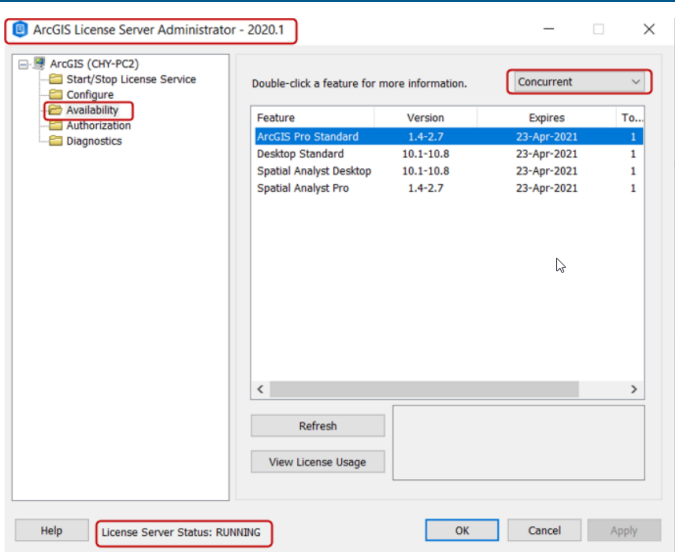
Update from ArcGIS Pro 2.5

The ArcGIS Pro setup package is designed to detect and update any existing installation of the same ArcGIS product. The update procedure may differ depending on the license type of your ArcGIS Pro license. If you are in doubt about which license type your organization is using, kindly contact DHI Customer Success team (mike@dhigroup.com) for assistance.

If you have a single use license or named user license:

1. Make sure ArcGIS Pro 2.5 is shut down. Do NOT de-authorize the license.
2. Download MIKE+ ArcGIS from our downloading page and browse to the folder named ArcGIS Pro 2.7. Then right click on the ArcGIS Pro 2.7 installer to start the installation (update).
3. Follow the on-screen instructions as described in the previous chapter to install ArcGIS Pro 2.7. The installation process will automatically replace the previously installed version of ArcGIS Pro.
4. Launch ArcGIS Pro. The product information now shows version 2.7 and the license information is retained as before.

If you have a network/concurrent use license: your current authorization will be preserved and reconfigured for ArcGIS Pro 2.7. Follow the instructions below:

Installation step	Screen
<p>On the server:</p> <ul style="list-style-type: none"> - Return all borrowed licenses to the server. Do not de-authorize the EFL code - Do NOT uninstall the previous version of ArcGIS License Administrator - Start the installation of ArcGIS License Administrator 2020.1: right-click the .exe file found in a separate folder after downloading MIKE+ ArcGIS and choose 'Run as administrator' - The installation process will automatically replace the old ArcGIS License Administrator 	
<p>On the client PC:</p> <p>Ensure that ArcGIS Pro is updated to version 2.7 and the License Manager you are connecting to points to the right server name.</p>	