



AIOT CLOUD CORP.

IoT Studio

User Manual

AIOT CLOUD CORP.

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FAQ



User Guides

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PREFACE

Disclaimer

The information in this document is subject to change without prior notice and does not represent commitment from AIOT CLOUD CORP. However, users may update their knowledge of any product in use by constantly checking its manual posted on our website: <https://www.aiotcloud.dev>. AIOT CLOUD CORP. shall not be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of any product, nor for any infringements upon the rights of third parties, which may result from such use. Any implied warranties of merchantability or fitness for any particular purpose is also disclaimed.

Acknowledgements

The IoT Studio is a trademark of AIOT CLOUD CORP. All other product names mentioned herein are registered trademarks of their respective owners.

Revision History

Version	Date	Description
v1.0	Oct 2022	1. New Release 2. Support Client/Server structure 3. Upgrade node-red 3.0.2

CHAPTER 1: USING THE IoT STUDIO

1.1 Introduction

The AIC IoT Studio is a kind of protocols integrated gateway builder suites for Operational Technology (OT) and Information Technology (IT) integration. It is powered by Node.js and IBM Node-RED, it is a web-based configuration tool to spur developers to swiftly build up IoT applications with simple clicks, drags, and drops of the integral functions or the ideas of innovation can come true sooner and the inventions can spread wider.

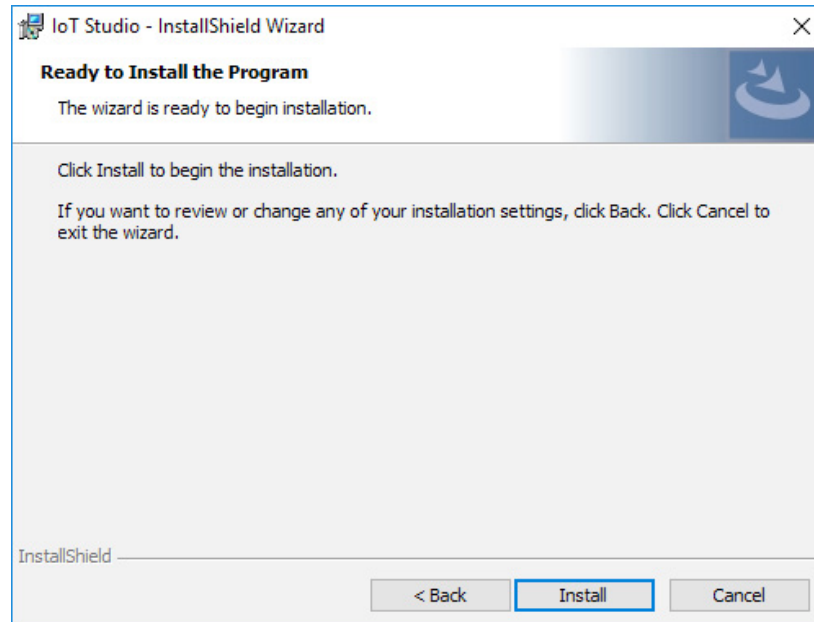
The Suites provide security management: SSL/Cert, account policies Dashboard for pairing a visual monitoring screen, and AIC Video Wall, It can create an enterprise war room.

Check the operating system requirement before installing the IoT Studio. The following are the supported operating systems:

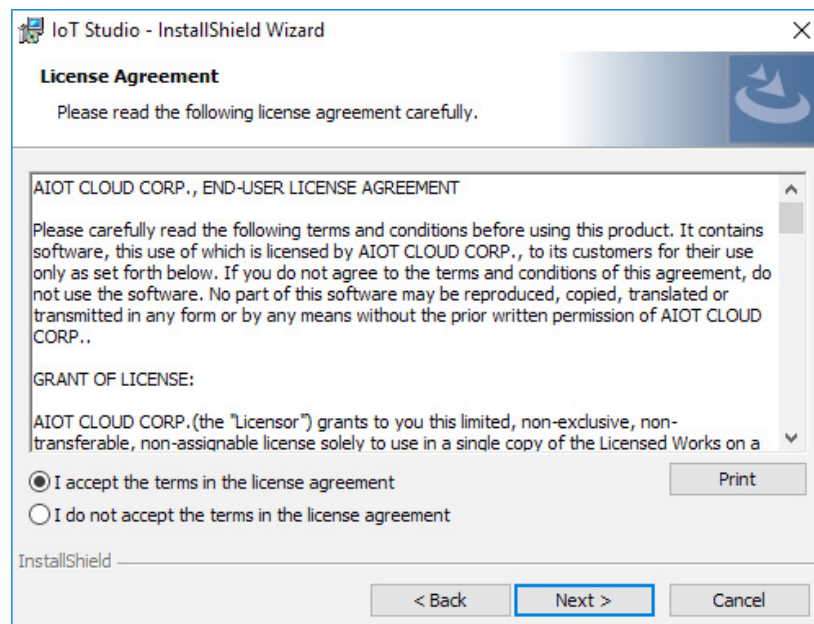
- Microsoft Windows 11, Windows 10, Windows 7 with Service Pack 1, Windows Embedded Standard 7 with Service Pack 1

1.2 Installing IoT Studio

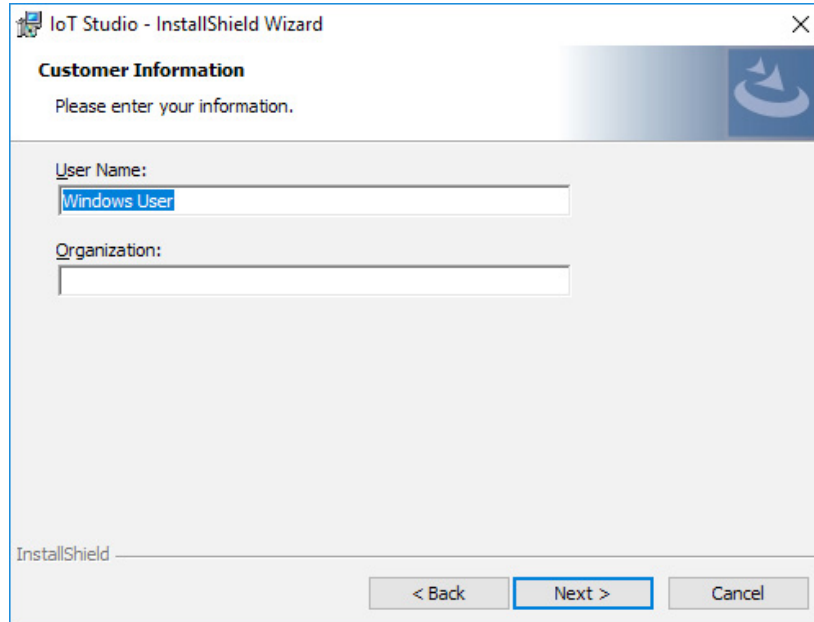
1. Double click on the filename of the IoT Studio setup file, the installation wizard will prepare the setup process.



2. Check the **I accept the terms in the license agreement** option, and click **Next** to proceed.

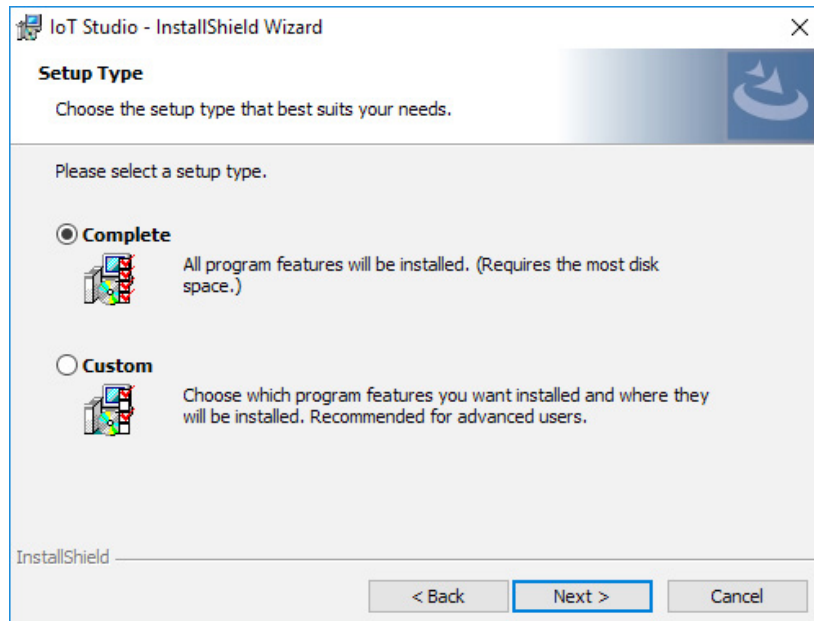


3. Enter the user information.



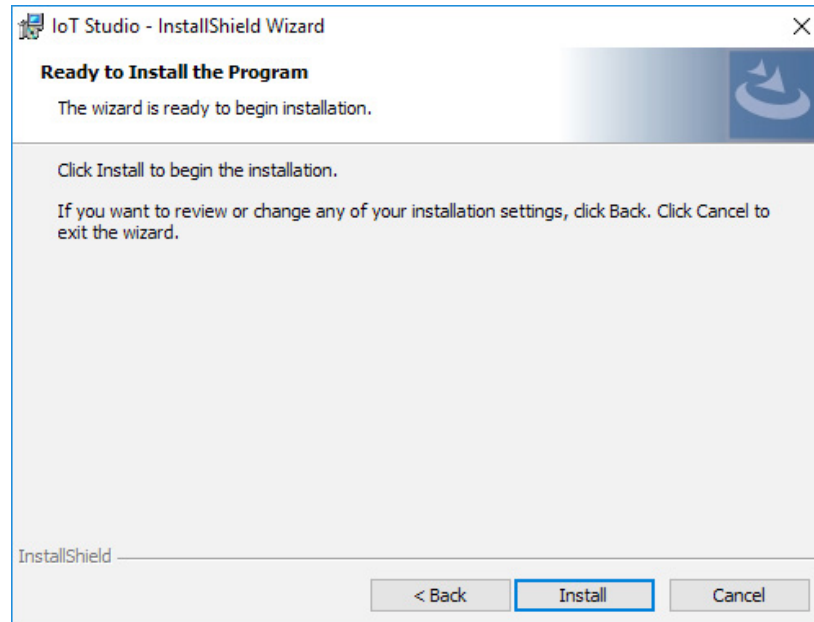
The screenshot shows the 'Customer Information' step of the IoT Studio - InstallShield Wizard. The window title is 'IoT Studio - InstallShield Wizard'. The main heading is 'Customer Information' with the instruction 'Please enter your information.' Below this, there are two text input fields: 'User Name:' containing 'Windows User' and 'Organization:' which is currently empty. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

4. Select **Complete**, click **Next** to proceed.

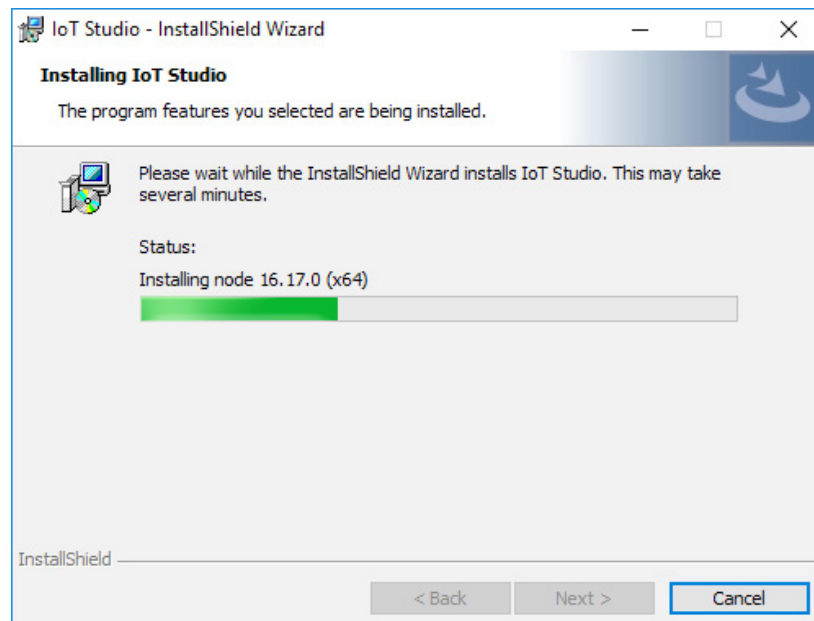


The screenshot shows the 'Setup Type' step of the IoT Studio - InstallShield Wizard. The window title is 'IoT Studio - InstallShield Wizard'. The main heading is 'Setup Type' with the instruction 'Choose the setup type that best suits your needs.' Below this, there is a sub-instruction 'Please select a setup type.' Two radio button options are presented: 'Complete' (selected) and 'Custom'. The 'Complete' option includes a small icon of a computer and the text 'All program features will be installed. (Requires the most disk space.)'. The 'Custom' option includes a similar icon and the text 'Choose which program features you want installed and where they will be installed. Recommended for advanced users.' At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

5. Click **Install** to begin the installation.

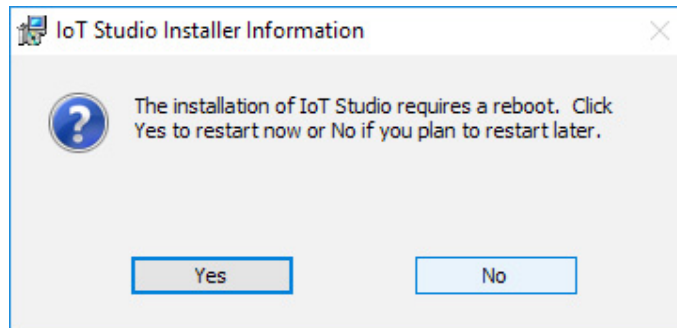


6. The installation will begin and may take a while.



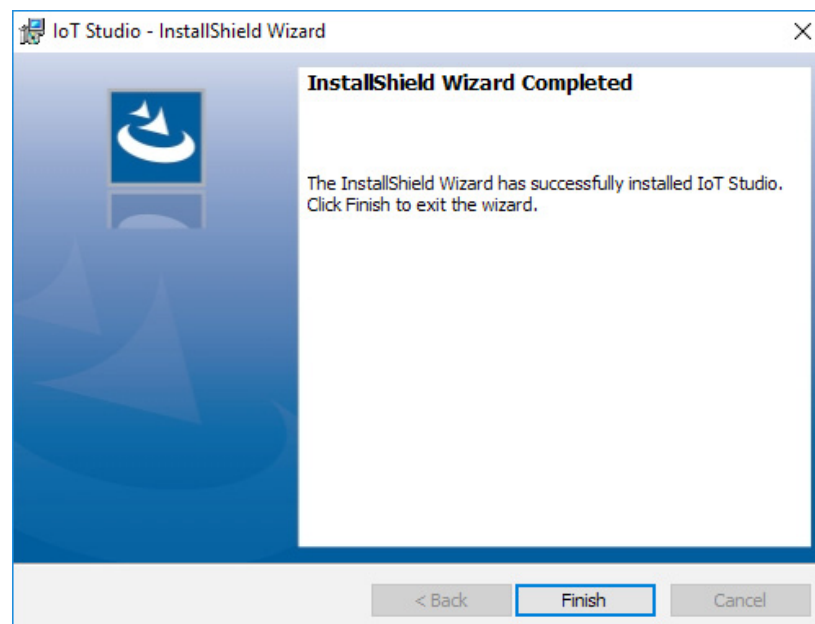


Note: Click **Yes** to reboot the system when the reminder dialog window appears on the screen.

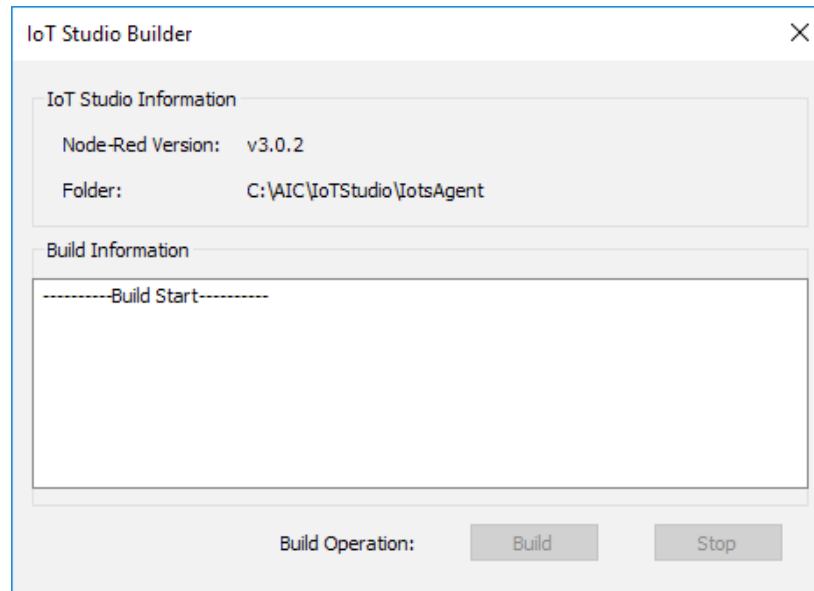



Note: Once the system is rebooted, the procedure will return to [step 3](#). Please login again to continue the installation.

7. Once the installation is completed, click **Finish** to exit.

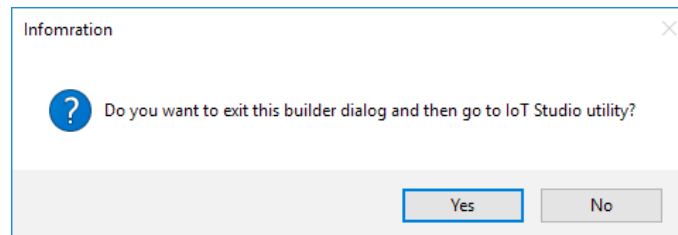


- The IoT Studio Builder will appear on the screen automatically. Click **Build** to build an IoT Studio.



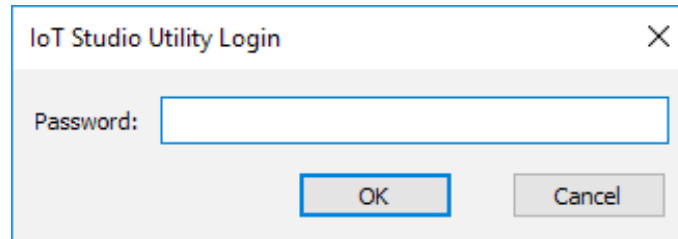
*Click the IoT Studio icon () to launch if the Builder application is not auto-run.

- When an IoT Studio has been created, click **Yes** to launch the IoT Studio Utility or click **No** to close the dialog window.



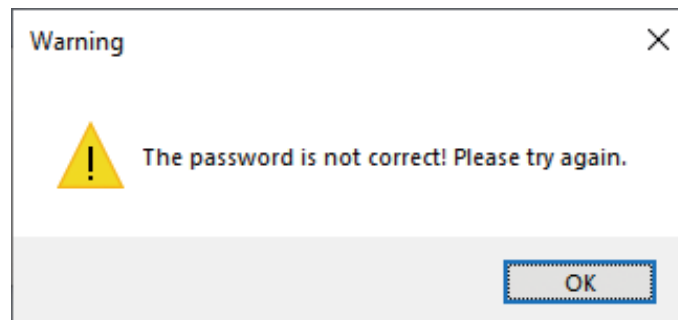
1.3 Launching IoT Studio

1. Once installed, you should be able to find the program named **AIC IoT Studio** in the **All Programs** list. Click on it to launch the utility.
2. Enter the password in the respective field and click **OK**.



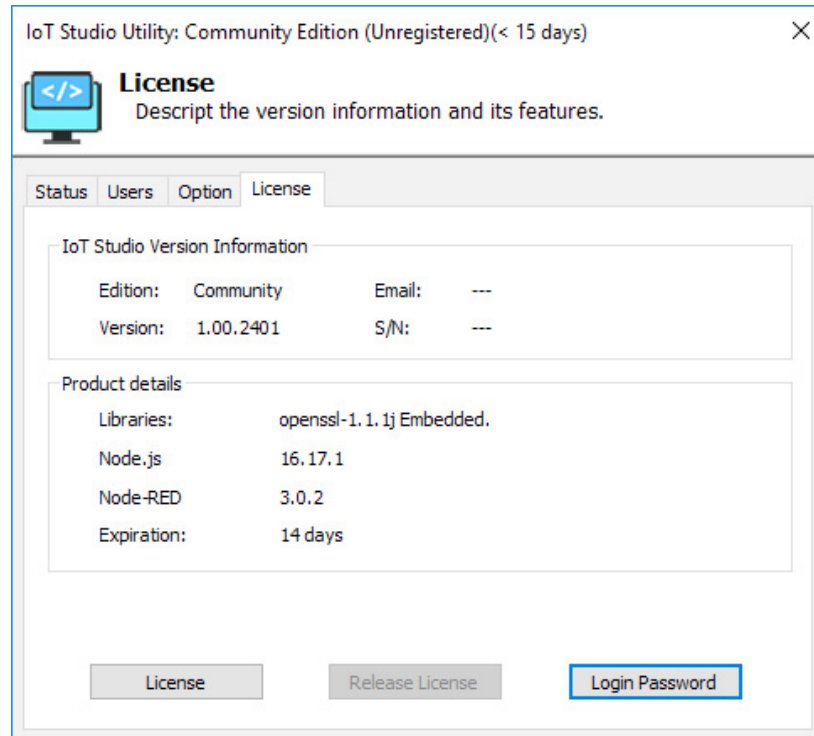
Note:

1. Use the default Password: *0000* to log in if you are logging in for the first time.
2. Remember to change the password frequently and keep it in a safe place to avoid hacking. Refer to [License](#) for setting the password.



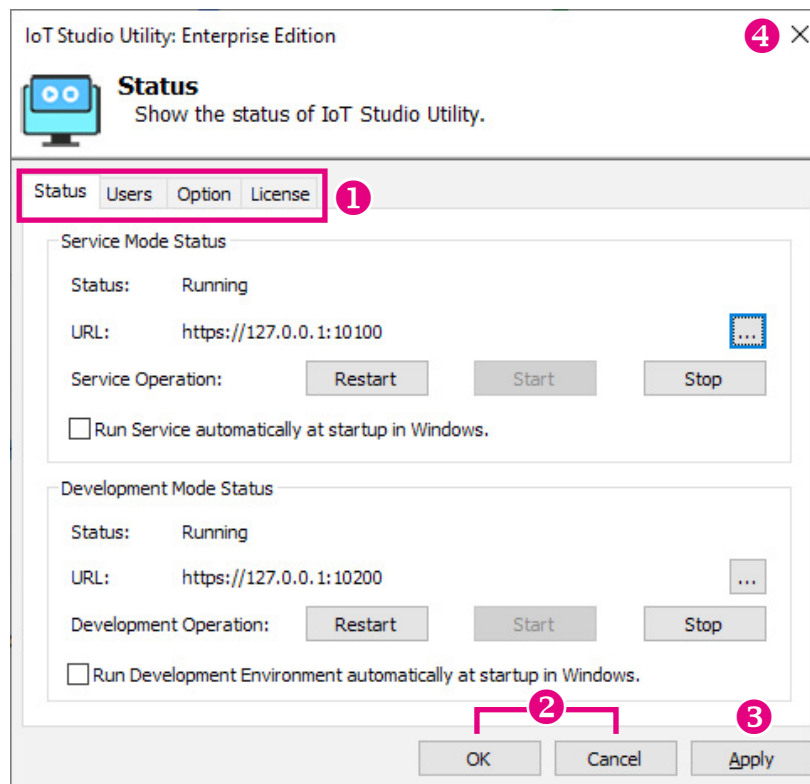
**A warning message will be prompted if an incorrect password is entered.*

3. The GUI of IoT Studio will be displayed on the screen.



CHAPTER 2: AIC IoT STUDIO BASICS

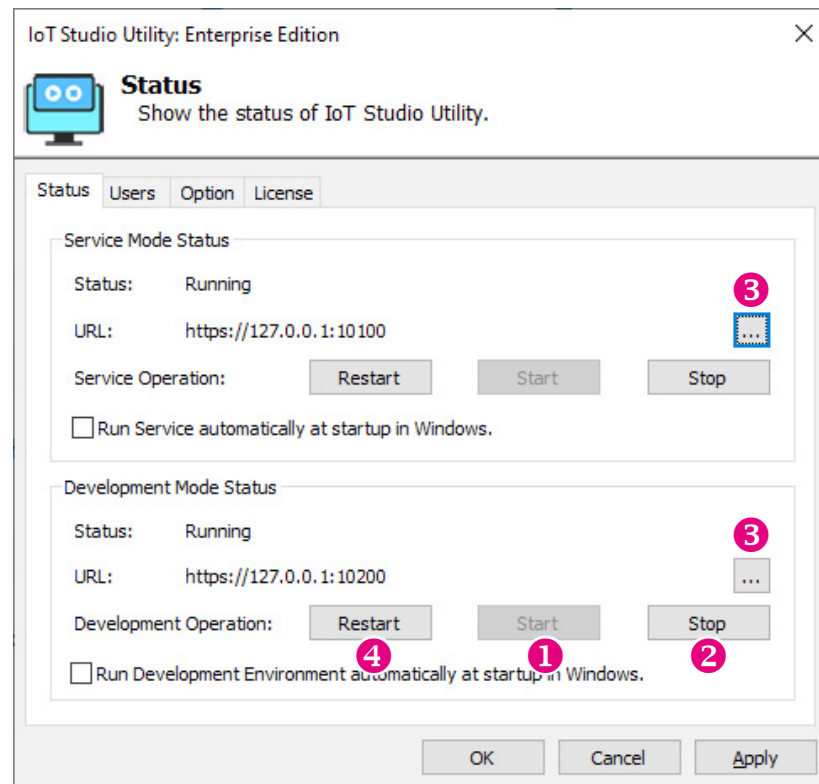
AIC IoT Studio consists 4 pages of information and menus for server status and configurable parameters. Simply click on the respective tab for further configuration purposes with AIC IoT Studio.



Item	Description
1	Menu Bar: Use the cursor to select the desired function menu for configuration.
2	Click OK or Cancel to hide the interface in the background.
3	Click Apply to make the configured parameters take effect. A message will prompt you with the option to restart the server.
4	Click on the X button to exit AIC IoT Studio.


2.1 Status

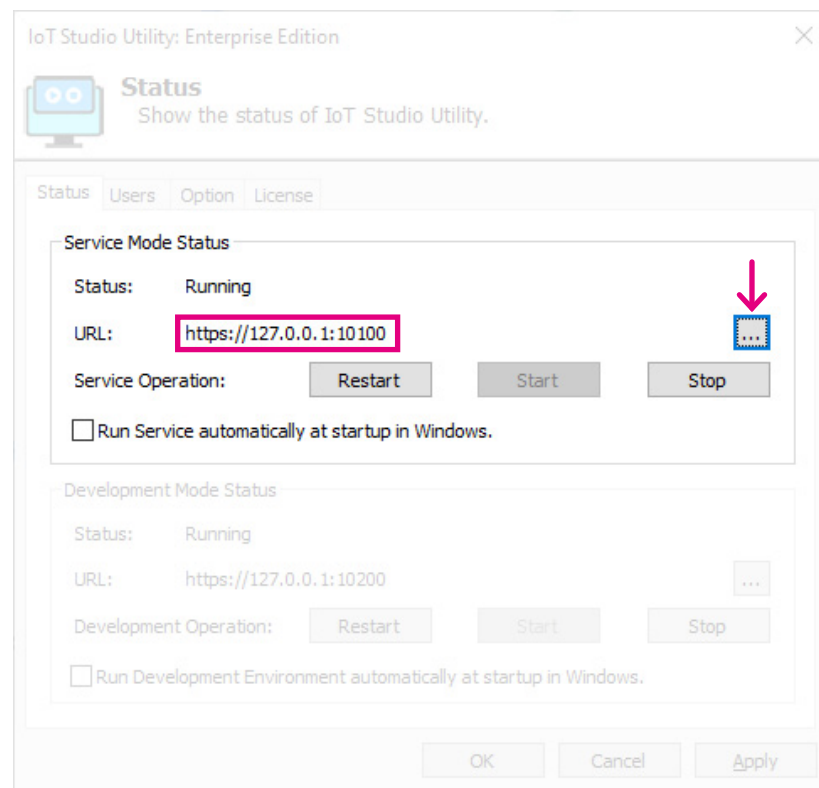
The Status page displays the brief information about the current server status. When the AIC IoT Studio is launched, the server operation is initially stopped by default. Once AIC IoT Studio is up and running, the connection addresses will be displayed respectively, allowing browser to use the addresses to connect the AIC IoT Studio.




Item	Description
1	Click Start to get the server running.
2	Click Stop to stop the server operation.
3	Move the cursor onto the connection address and right click to copy it.
4	Click Restart to stop and start the server operation.

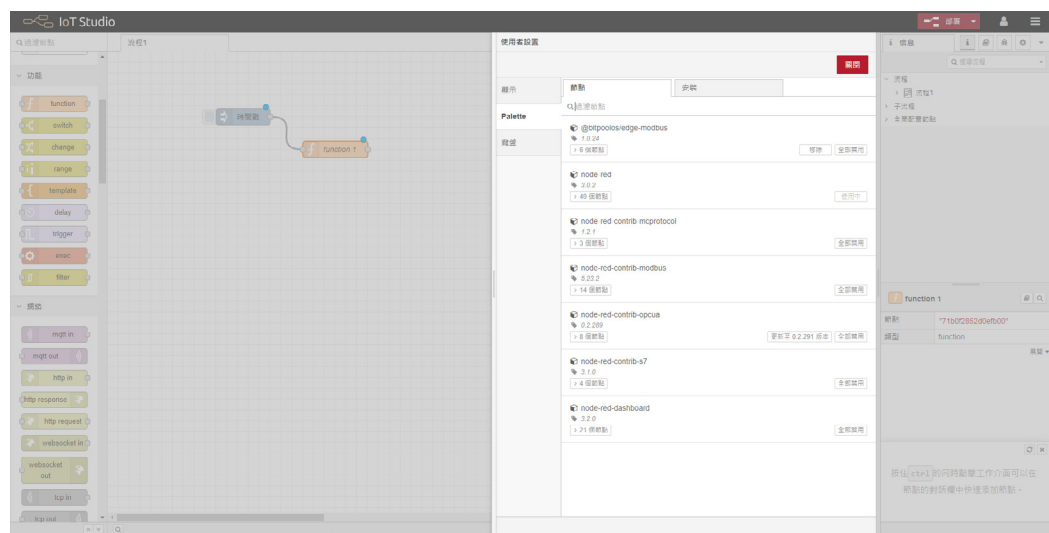
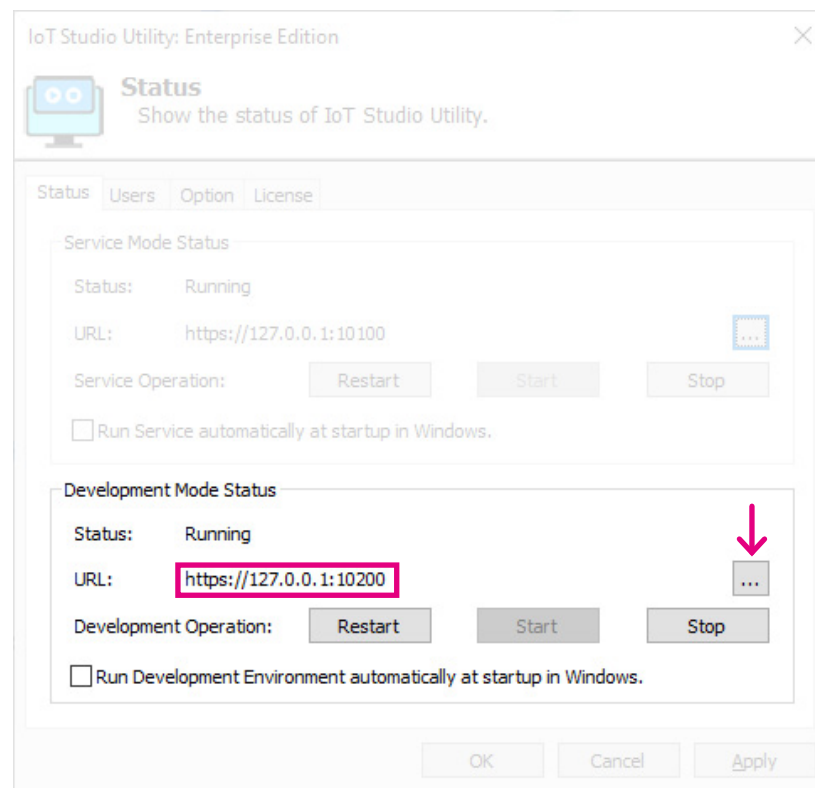
2.1.1 Service Mode

When all the configurations are ready, you can change the connection port number by clicking , or use the mouse right click to copy the URL address to a browser to deploy the Light-weight Service Run-time to the client device.



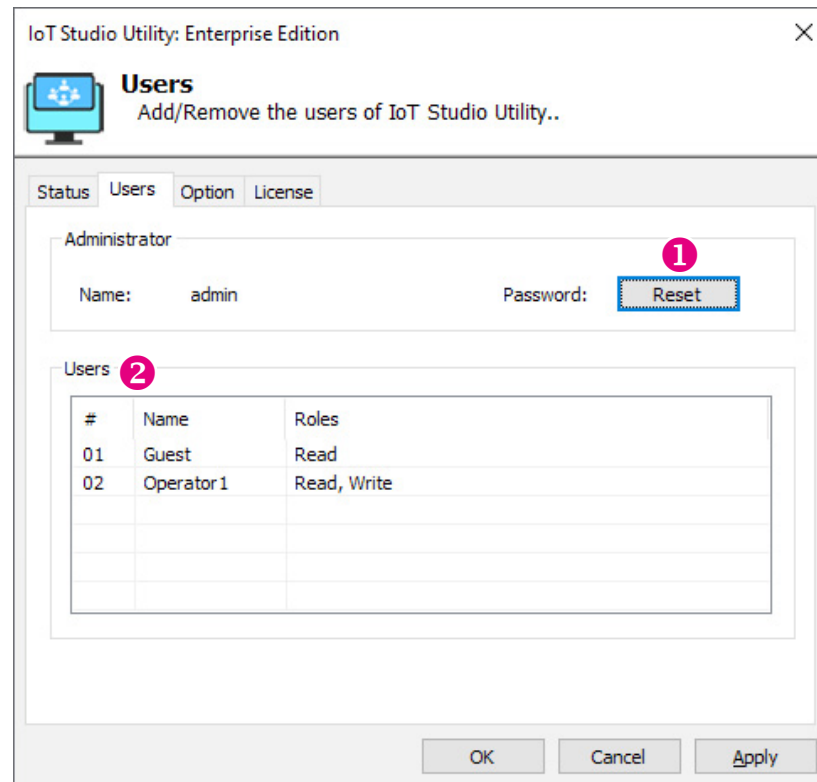
2.1.2 Development Mode

In Development Mode, you can use all the Node-Red palettes. You can change the connection port number by clicking , or use the mouse right click to copy the URL address to a browser to launch the development mode.

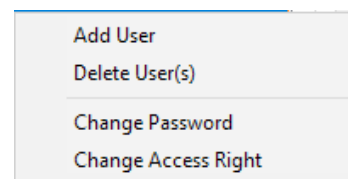


2.2 Users

The Users page displays user authentication settings. Connections to the AIC IoT Studio can be authenticated with the username/password.

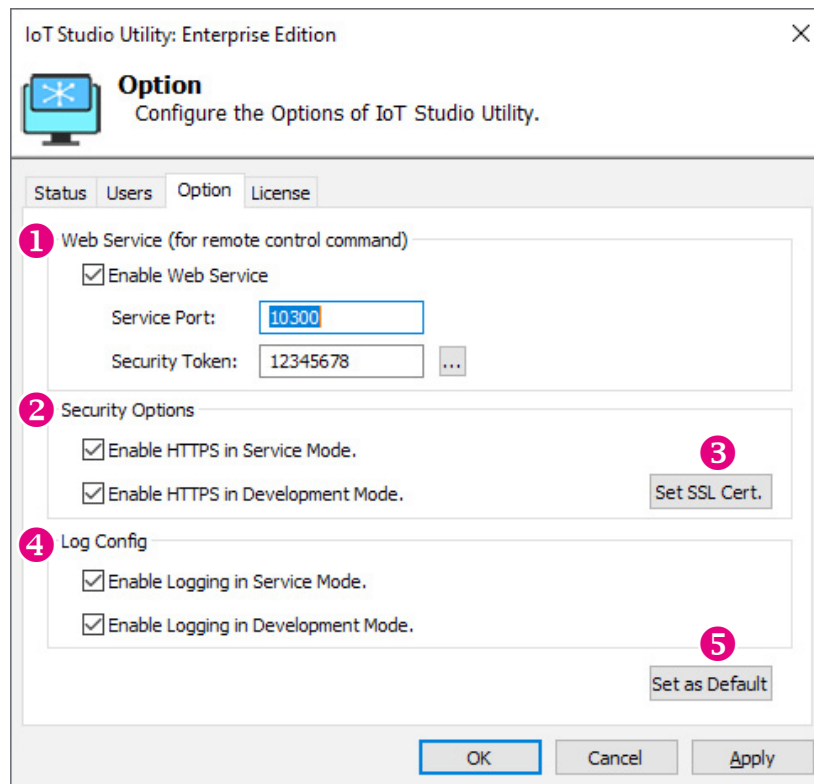


Item	Description
1	Click Reset to change the password of the Administrator .
2	<p>Server Users</p> <p>Right click on the table to Add a user, Delete one or multiple users, Change Password of a user, and Change Access Right of a user.</p> <p>Note: Press and hold the Shift key and click on the name of the user to select multiple users.</p> <p>Add User</p> <p>Select Add User in the pop-up window to add a new account. Enter the required information in the respective fields, and select the required Access Right option by selecting the respective checkboxes. Click OK when done.</p>



2.3 Option

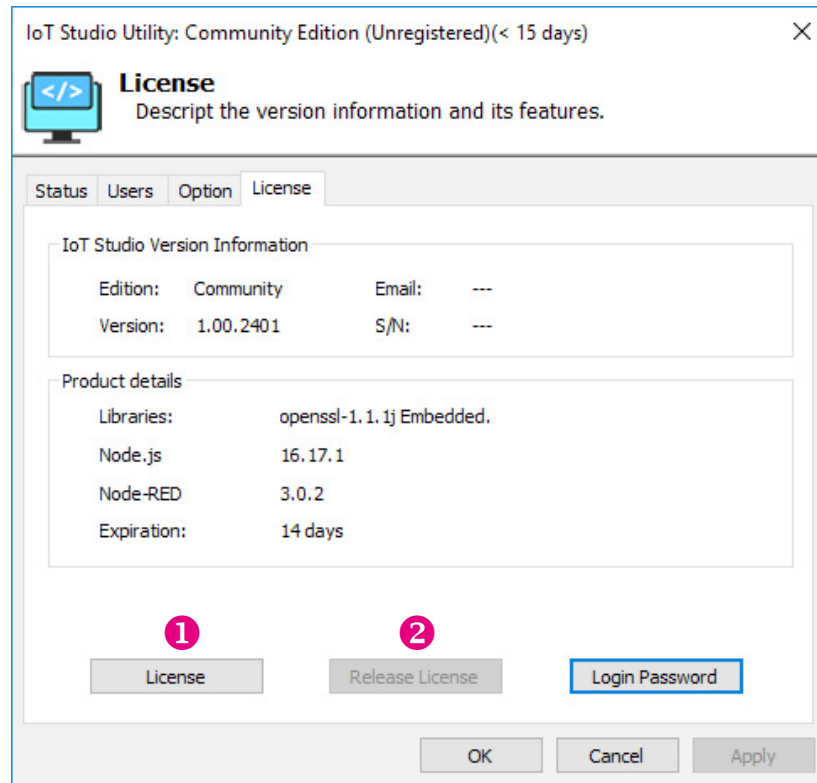
The Option page is designed for configuring the IoT Studio Utility.

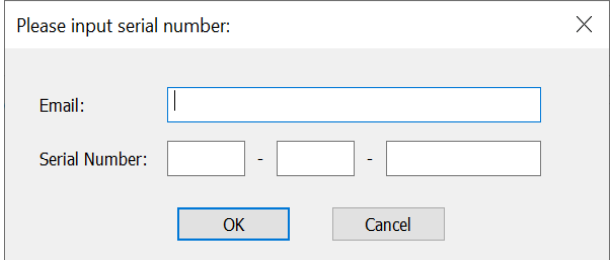
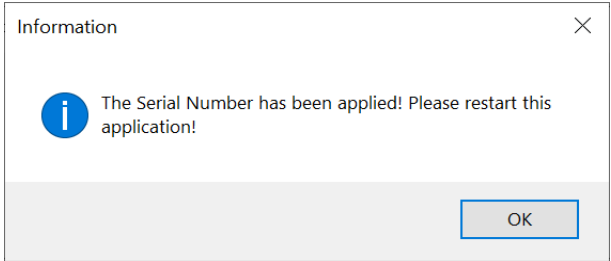


Item	Description
1	Web Service (for remote command) It is for remote control restful service command. You can enable the Web Service to assign the service port and security token.
2	Security Options It is enabling HTTPS for service mode and development mode.
3	SSL Cert. Click to change the SSL key.
4	Log Config It is for debugging and log information, you can enable for service mode and development mode.
5	Set as Default Restore to the default options.


2.4 License

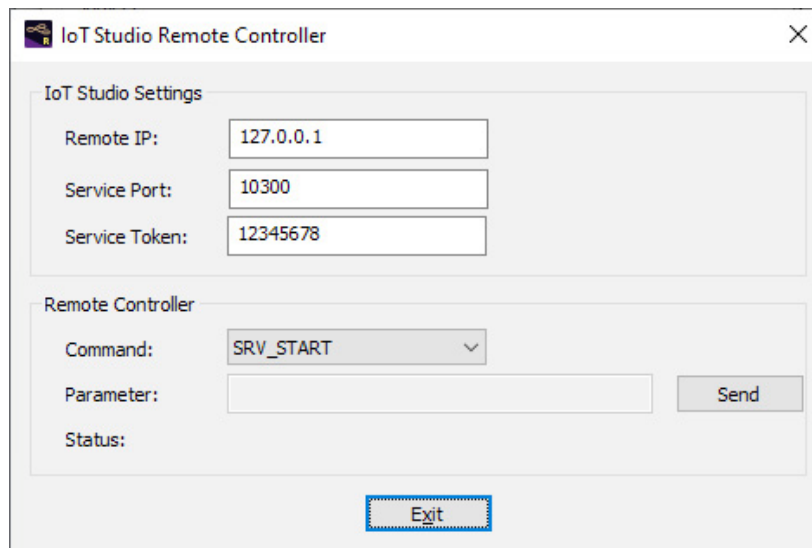
The License page displays the **AIC IoT Studio Version Information** and the **Product details**. Also, this page allows you to register the product key.



Item	Description
1	<p data-bbox="527 283 641 315">License</p> <p data-bbox="527 331 1344 409">Click License button to enter a valid license email and serial number. Click OK when done.</p> <div data-bbox="673 420 1279 678"></div> <p data-bbox="527 751 1279 829">A pop-up window appears to remind you to restart the application.</p> <div data-bbox="673 840 1279 1098"></div>
2	<p data-bbox="527 1117 748 1148">Release License</p> <p data-bbox="527 1159 1404 1236">Click it to release the license key on the current device, then you can use the license key in the other device.</p>


CHAPTER 3: IoT STUDIO REMOTE CONTROLLER

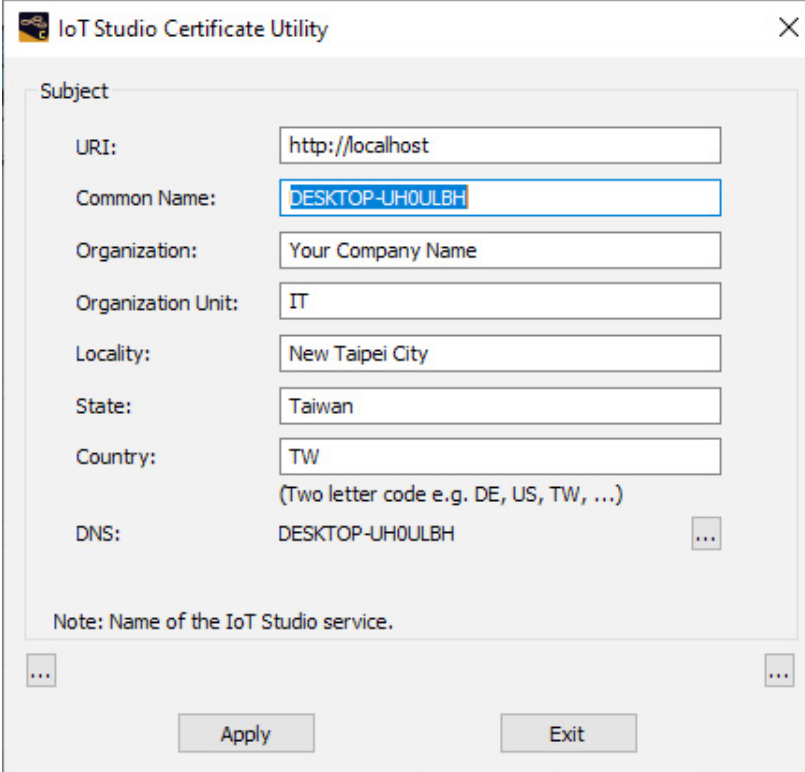
The IoT Studio offers remote control functions such as start or stop in both development and service mode. You can find the program named AIC IoT Studio\IoT Studio Remote () in the All Programs list, then click it to launch.



The screenshot shows the 'IoT Studio Remote Controller' application window. It is divided into two main sections: 'IoT Studio Settings' and 'Remote Controller'. The 'IoT Studio Settings' section contains three input fields: 'Remote IP' with the value '127.0.0.1', 'Service Port' with the value '10300', and 'Service Token' with the value '12345678'. The 'Remote Controller' section features a 'Command' dropdown menu set to 'SRV_START', an empty 'Parameter' text box, and a 'Send' button. Below these sections is an 'Exit' button.

CHAPTER 4: IoT STUDIO CERTIFICATE UTILITY

The IoT Studio provides security management: SSL/Cert, and account policies. You can find the program named AIC IoT Studio\IoT Studio Cert () in the All Programs list. Click it to launch.



The screenshot shows the "IoT Studio Certificate Utility" dialog box. It contains a "Subject" section with the following fields:

URI:	<input type="text" value="http://localhost"/>
Common Name:	<input type="text" value="DESKTOP-UH0ULBH"/>
Organization:	<input type="text" value="Your Company Name"/>
Organization Unit:	<input type="text" value="IT"/>
Locality:	<input type="text" value="New Taipei City"/>
State:	<input type="text" value="Taiwan"/>
Country:	<input type="text" value="TW"/> <small>(Two letter code e.g. DE, US, TW, ...)</small>
DNS:	<input type="text" value="DESKTOP-UH0ULBH"/> ...

Note: Name of the IoT Studio service.

Buttons: ... (bottom left), Apply, Exit, ... (bottom right)