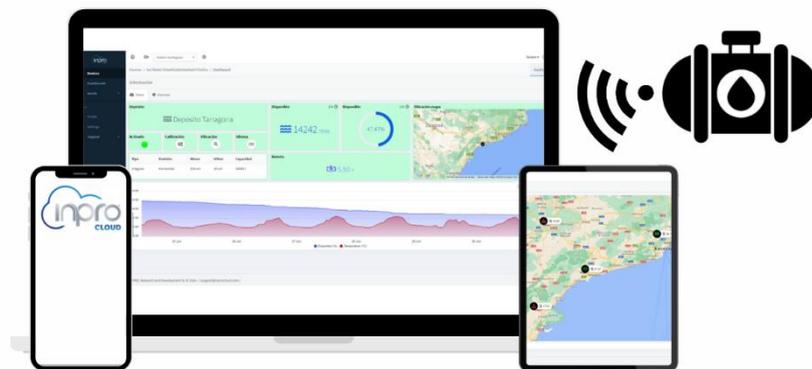


# INPRO CLOUD PLATFORM

## INPRO IoT

*Internet of things*

SMART INDUSTRY SOLUTIONS



## USER MANUAL



Version 2.1  
July 2024

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## 1. WHAT IS INPRO CLOUD?

Inpro presents its **Inpro Cloud** platform. A solution for the remote management and monitoring of device and sensor networks.



### Characteristics:

- SaaS (software as a service) service mode.
- Multilanguage platform: Spanish, English, German, French and German.
- Multi-device access from any device: PC, Tablet, Smartphone.
- Multi-user: allows you to define resource distribution levels.
- Device monitoring.
- Data visualization.
- Alerts and notification configuration.

### Technical requirements

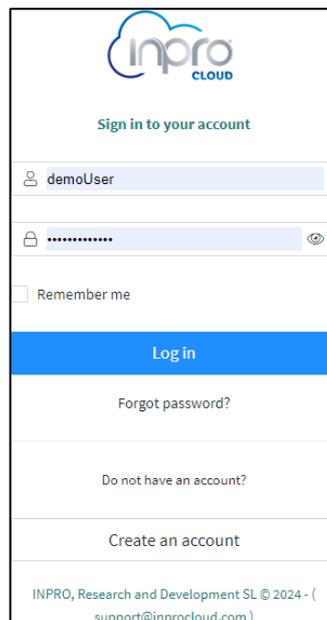
- Web browser: Chrome, Firefox, IE8 or higher.

## 2. ACCESS TO THE INPRO CLOUD PLATFORM

The **Inpro Cloud** platform is accessible from the web using any device with access to a web browser. To access it we just need to go to the following url address in our browser: <https://inprocloud.com> and once we have accessed the platform, it will ask us to authenticate us with username and password.

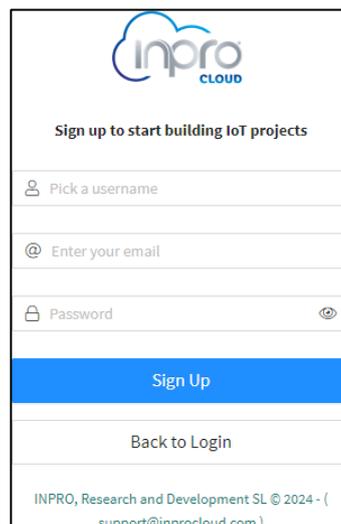
### 2.1. LOGIN

To log in it is necessary to enter the username and password of your account. By clicking on the "Log in" button, if the data entered are correct, you will be logged in to the platform.



The screenshot shows the login interface for Inpro Cloud. At the top is the Inpro Cloud logo and the text "Sign in to your account". Below this are two input fields: the first for the username, which contains "demoUser", and the second for the password, which is masked with dots and has an eye icon to toggle visibility. There is a "Remember me" checkbox below the password field. A prominent blue "Log in" button is centered below the inputs. Underneath the button are three links: "Forgot password?", "Do not have an account?", and "Create an account". At the bottom of the form, there is a footer with the text "INPRO, Research and Development SL © 2024 - (support@inprocloud.com)".

If this is the first time we connect, we must create an account by clicking on the "Create an account" button:



The screenshot shows the sign-up interface for Inpro Cloud. At the top is the Inpro Cloud logo and the text "Sign up to start building IoT projects". Below this are three input fields: the first for the username with the placeholder "Pick a username", the second for the email with the placeholder "Enter your email", and the third for the password, which is masked with dots and has an eye icon to toggle visibility. A prominent blue "Sign Up" button is centered below the inputs. Underneath the button is a link "Back to Login". At the bottom of the form, there is a footer with the text "INPRO, Research and Development SL © 2024 - (support@inprocloud.com)".

We must enter a username (**without spaces or special characters, except for \_**), an e-mail address and a password (**must contain at least 8 characters**). By clicking on "Sign up", the account will be created, and we will be notified by an email that we must accept in order to activate the account definitively.

### 2.2. DEVICE REGISTRATION WITH ACTIVATION CODE

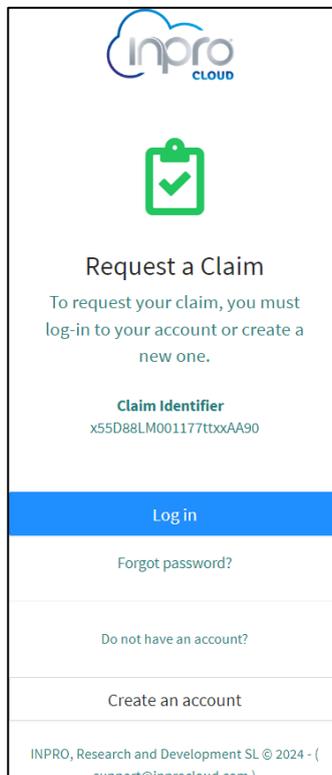
If you do not have access to the QR code, and your organization has provided you with an activation code, once you have logged in to the platform, by clicking on the icon  (located in the upper header, see section 3.1), the following form will appear:



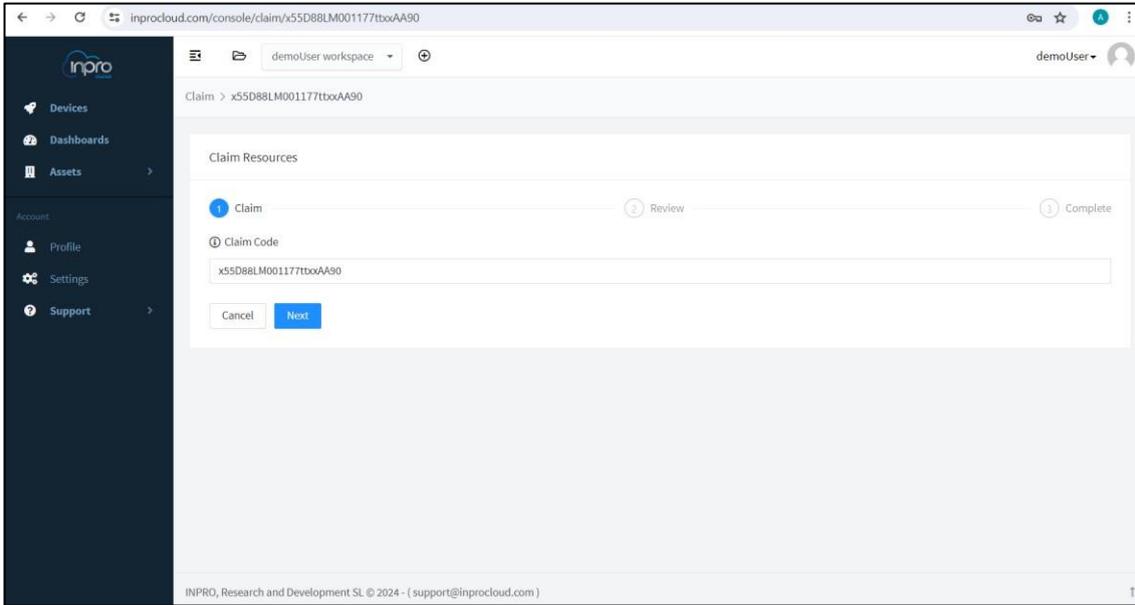
We must enter the activation code in the "Claim Code" field. The following steps are common to the QR method.

### 2.3. QR-CODED DEVICE REGISTRATION

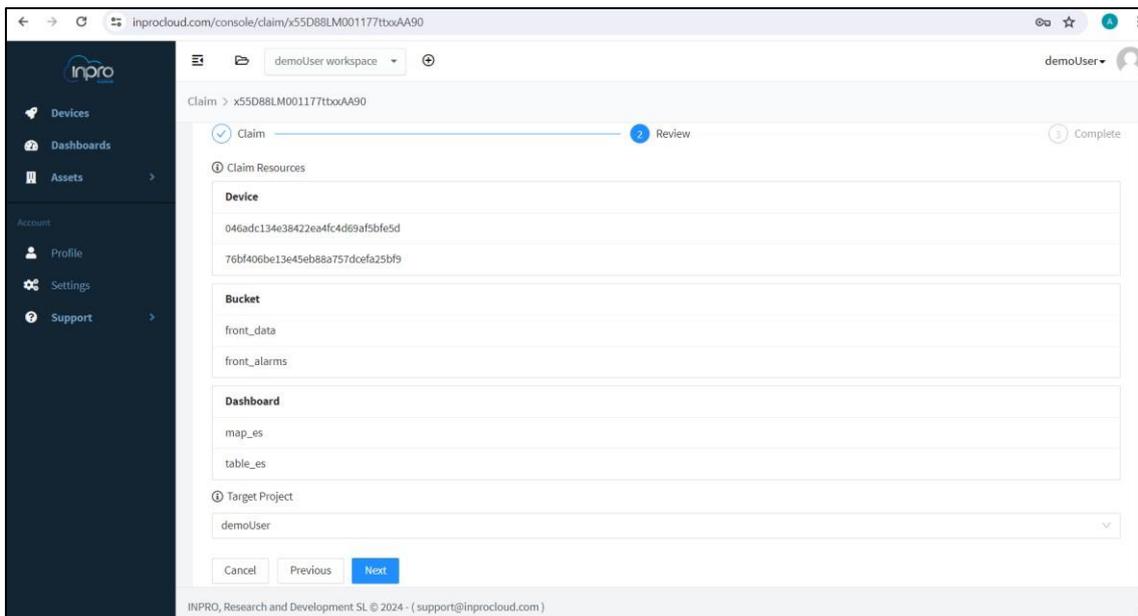
To register the device on the platform it is necessary to read the QR on the product box with the cell phone camera. The web browser will open with the address of the platform and you will be asked to log in by clicking on the "Log in" button or, if you do not have an account, create one by clicking on "Create an account" (see section 2.1).



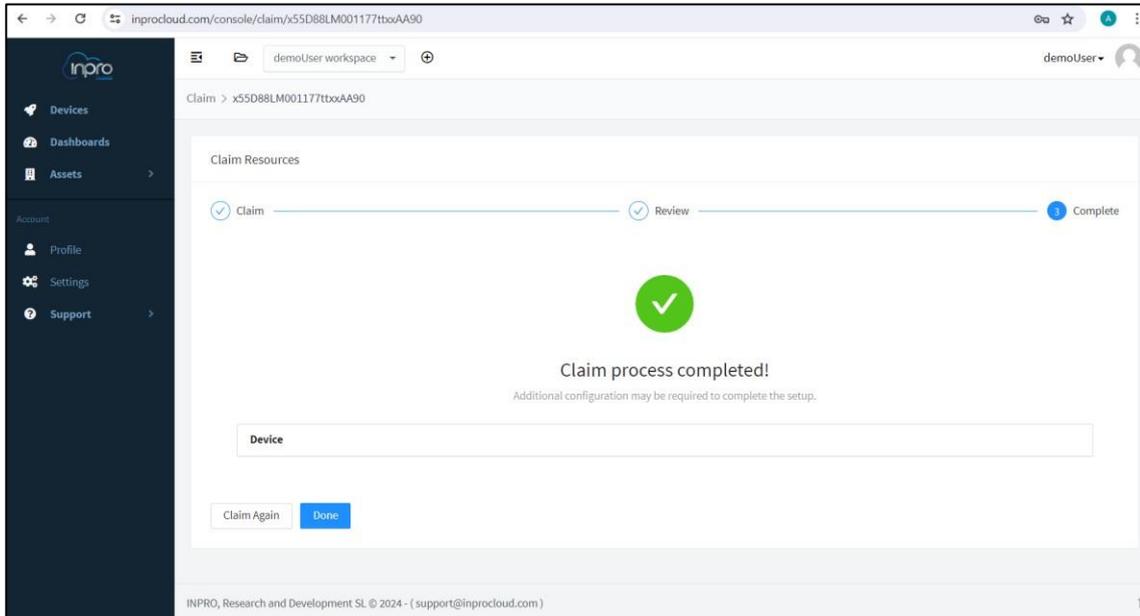
Once logged in, the registration form with the activation code will be loaded:



To proceed with the process, click on "Next", and the following screen will show the resources to be registered for information purposes:



By clicking again on "Next", if everything has gone correctly, the resource registration process will be finished.

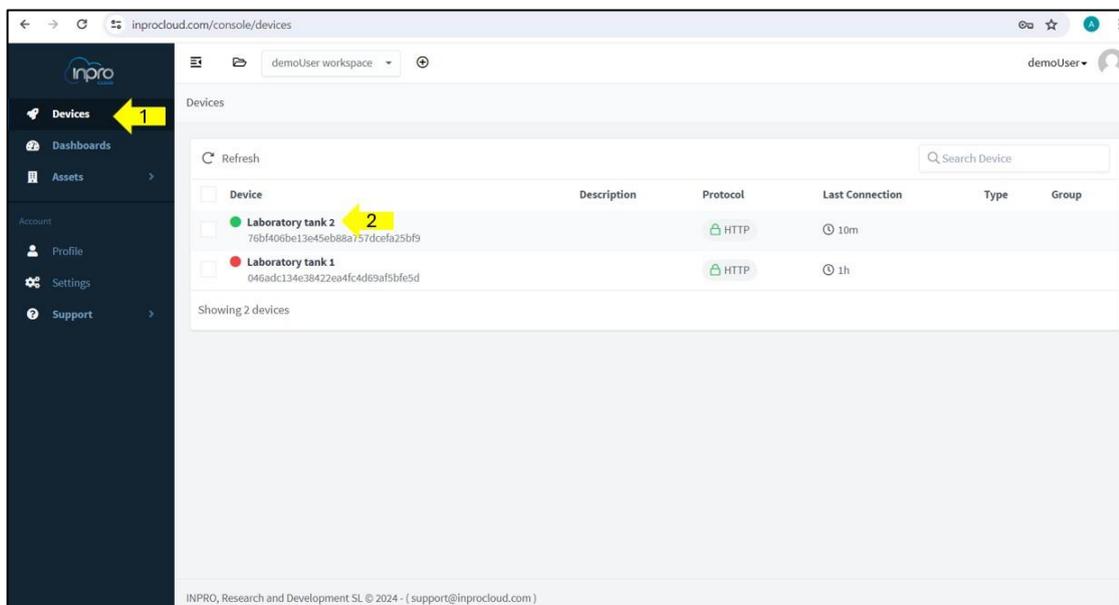


Finally, click on "Done" to finish the process and the next step is to calibrate the device.

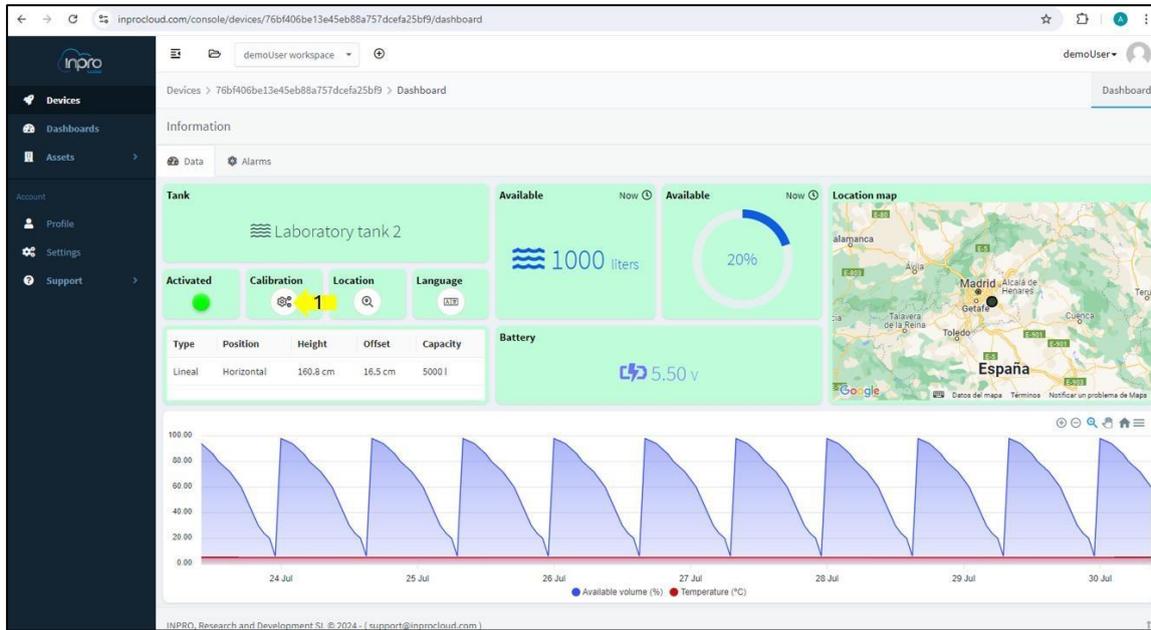
### 2.4. DEVICE CALIBRATION

La calibración del dispositivo es necesaria para poder recibir datos fiables y correctos. En caso de no calibrarlo, los datos que el dispositivo envía no son correctos.

To calibrate the device, go to "Devices" in the side menu and click on the device to be calibrated:

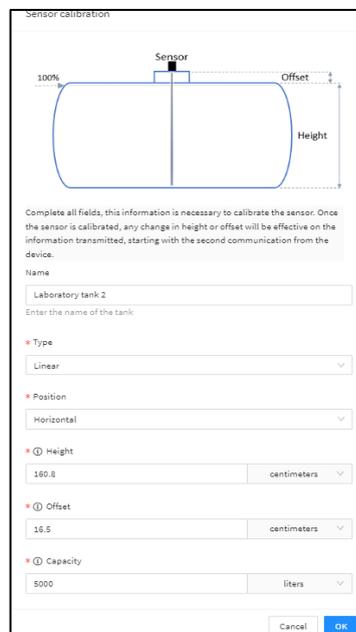


On the device dashboard, click on the button with the gear icon:



In the calibration form we have to enter the following information:

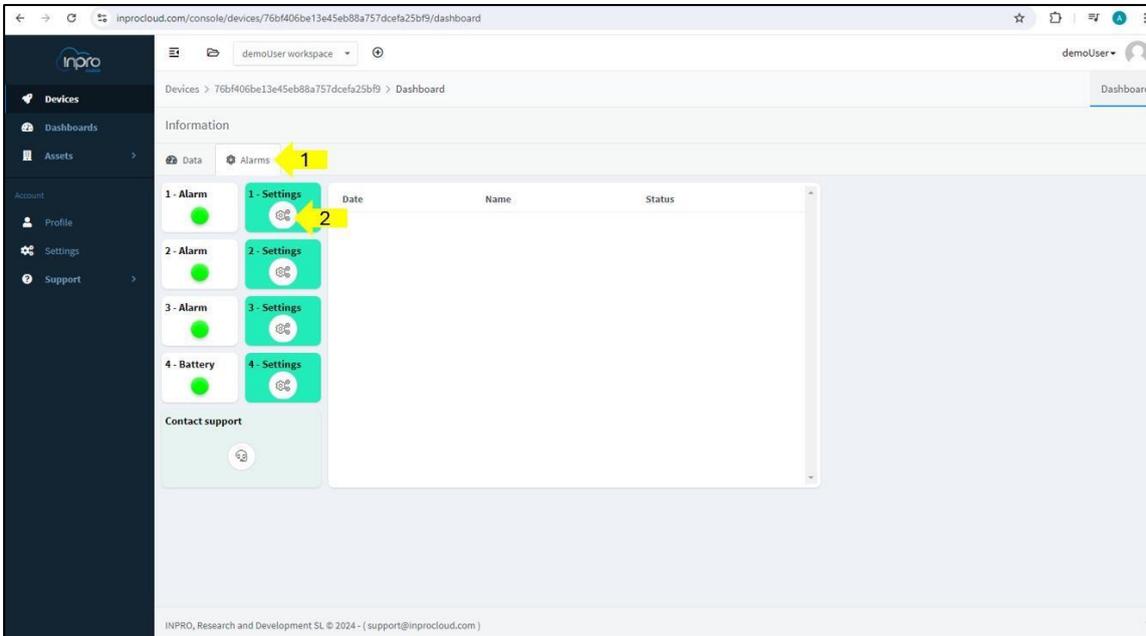
- **Tank name:** used to identify the device.
- **Type:** can be linear or irregular. For example, a rectangular tank is of linear type, and a cylindrical tank is of irregular type. In case the irregular type has been chosen, a cm-volume relational table can be added in the form, otherwise the default one is used.
- **Position:** it can be vertical or horizontal.
- **Height:** tank height in centimeters.
- **Offset:** distance between the sensor and the maximum liquid level.
- **Capacity:** maximum tank volume in liters.



Once the fields have been filled in, by clicking on "OK", the information is transferred to the system and your configuration is saved.

## 2.5. ALARM CONFIGURATION

In order to have email notifications, it is necessary to configure the device alarms. The settings can be found in the "Alarms" tab:



Click on the gear icon to open the configuration form:

Alarm 1 volume configuration

**\* Enabled**

Yes

If enabled, the device will generate the alarm.

**\* Type**

Low limit

**\* Threshold (%)**

10

Enter the setpoint that triggers the alarm.

**\* Notification**

Yes

If enabled, at least one valid email is required.

**\* Emails**

email

The alarms can be configured as high or low limit, as needed, configure the limit (setpoint) over which we want the alarm to be generated and can also be notified, enabling first the notification and as a last step adding at least one valid email. To save the configuration, click on the "OK" button.

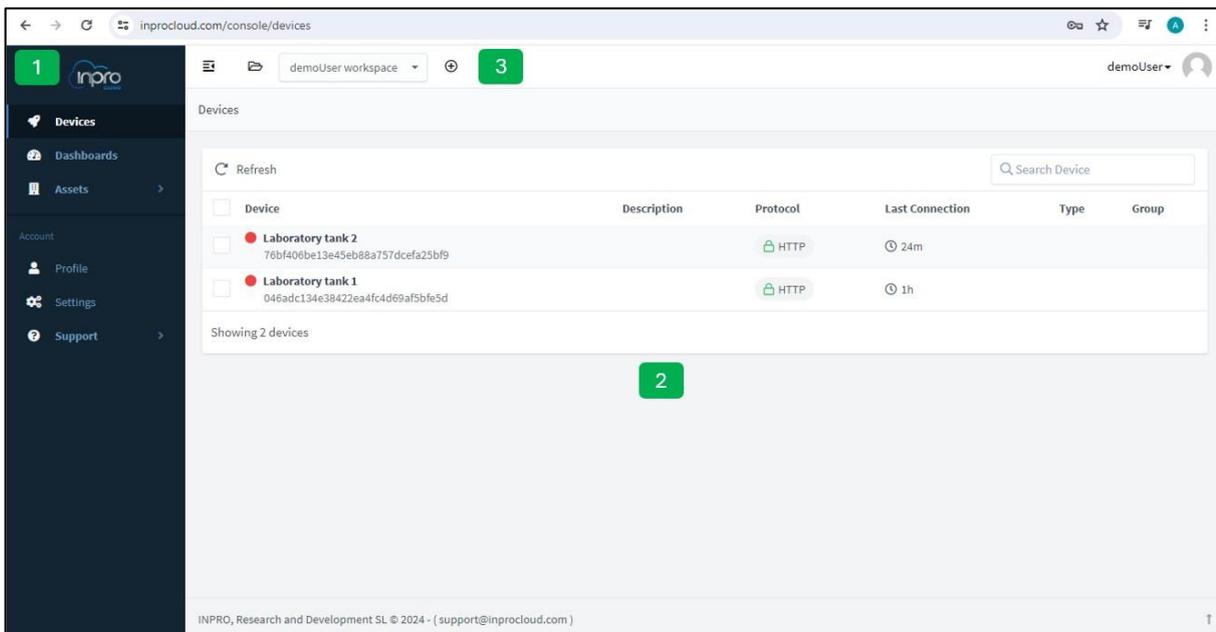
The first 3 alarms are generated in the device, i.e. every 15 minutes they check the measurements to see if the limits have been exceeded. If they have been exceeded, they send the alarm to the server and it will be displayed on the corresponding led, in addition to the summary table.

The fourth alarm can be configured for the device battery. This alarm is checked at every communication of the device with the server.

### 3. FUNCIONALITIES

#### 3.1. MAIN SCREEN

Once logged in, the workspace that will be displayed is as follows:



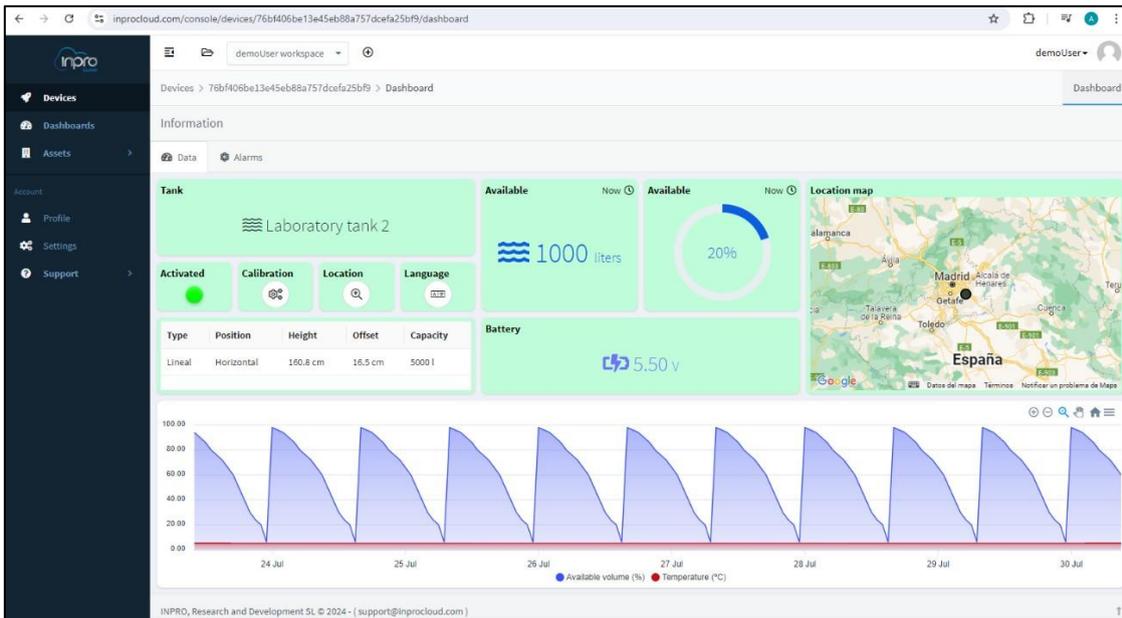
There are 3 zones, as shown in the image:

- 1- **Side menu:** the options to which you have access are shown.
- 2- **Content:** shows the content of the selected option (explained in the side menu section).
- 3- **Header:** shows other functionalities such as resource registration.⊕

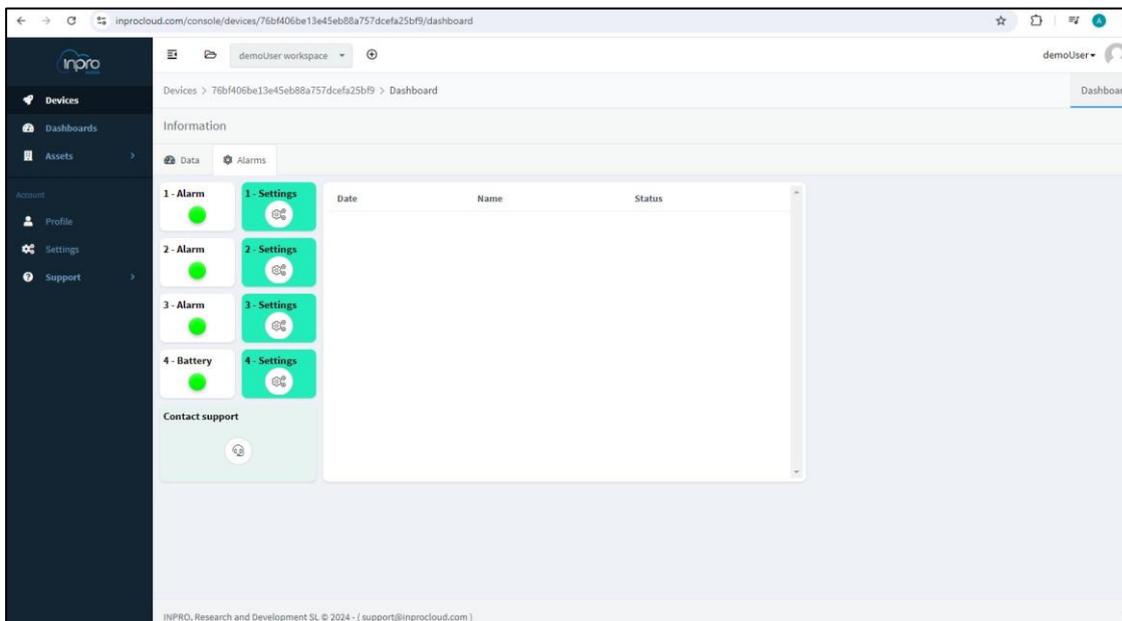
### 3.2. SIDE MENU

#### Devices

When this option is selected, the devices to which the user has access are loaded. Clicking on the device will load the dashboard with the device data:



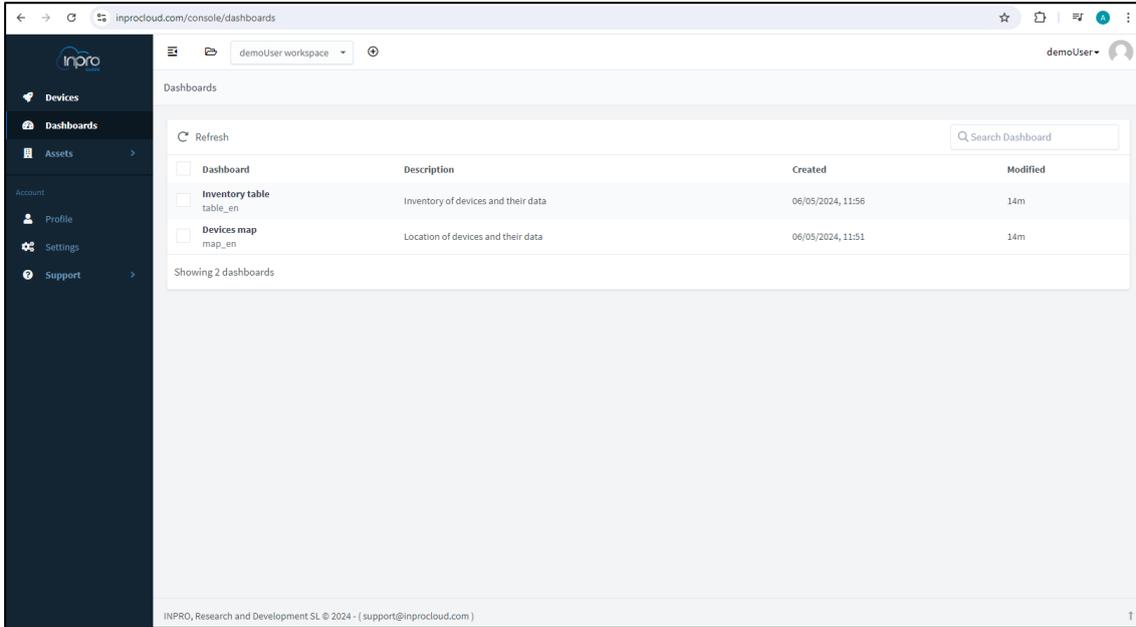
**Data Tab**



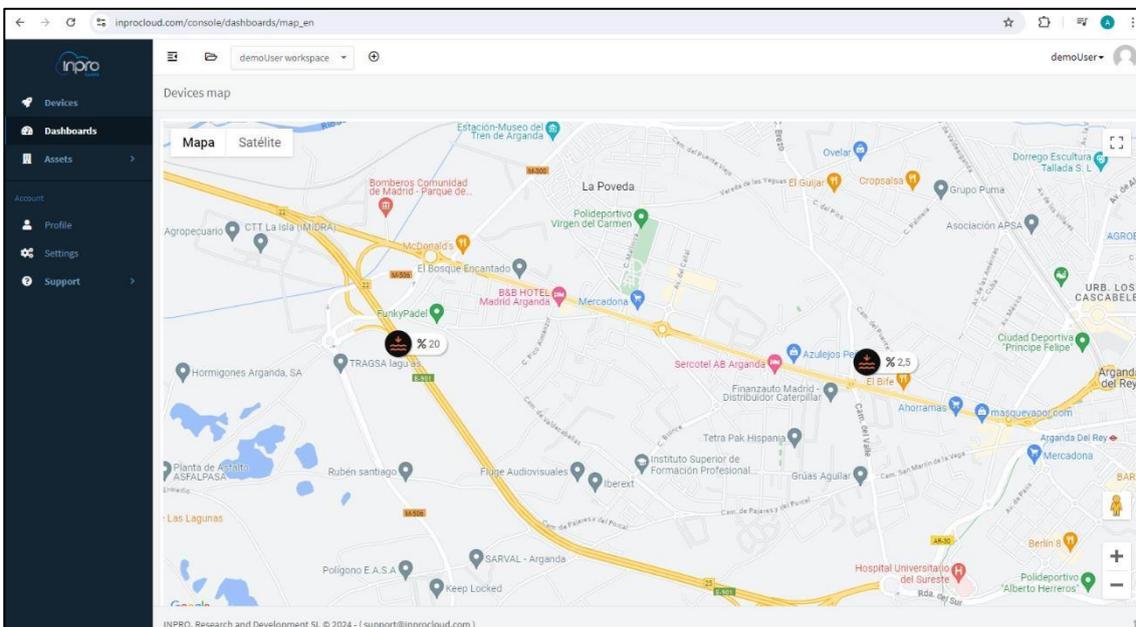
**Alarms Tab**

## Dashboards

Selecting this option will load the dashboards to which the user has access. By default, the map and table boards are enabled.



## General

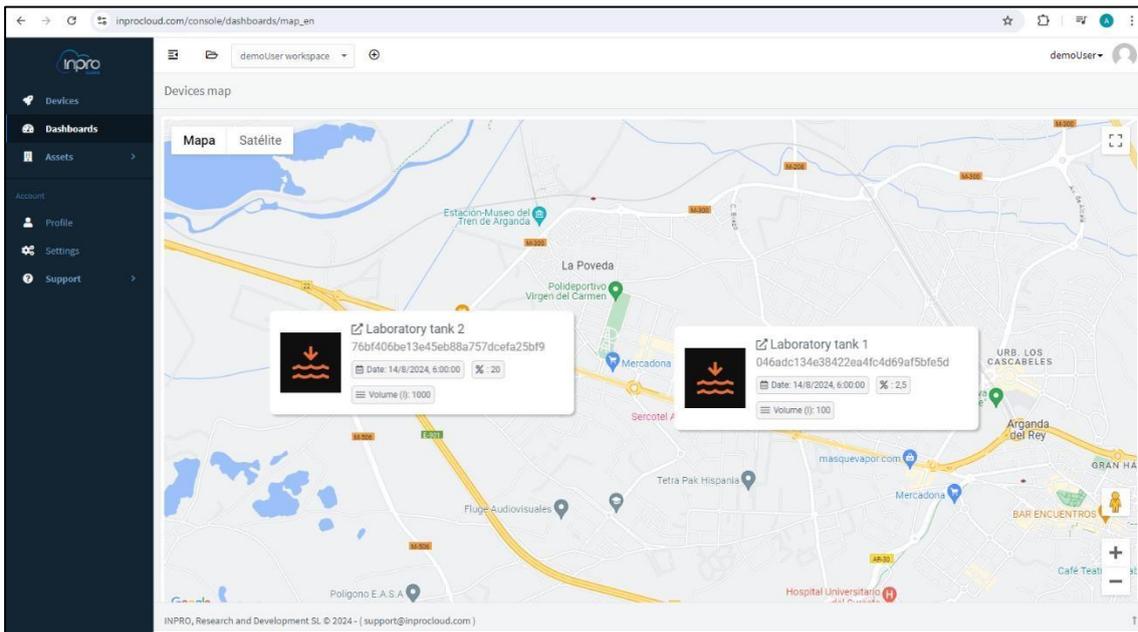


## Map Board

By clicking on , a new tab will open in the browser with the device's dashboards, giving access to all the information.

The icons are configured, by default, taking into account the following percentages:

- Volume below 35% the icon changes to  indicating low volume.
- Volume between 35% and 70%, the icon  indicates stable volume.
- Volume greater than 70%, the icon  indicates high volume.



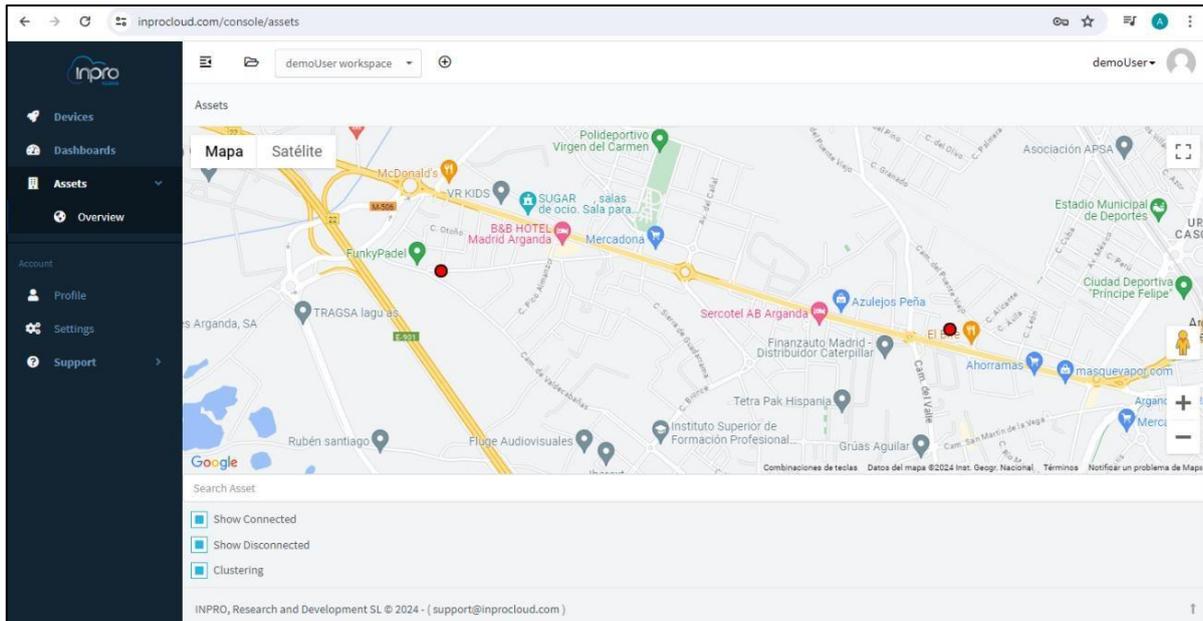
Map board with extra information

Date	Device	Volume (liters)	Available (%)	Battery (V)
14/8/2024, 6:00:00	Laboratory tank 1	100	2,5	5,1
14/8/2024, 6:00:00	Laboratory tank 2	1000	20	5,5

Inventory table

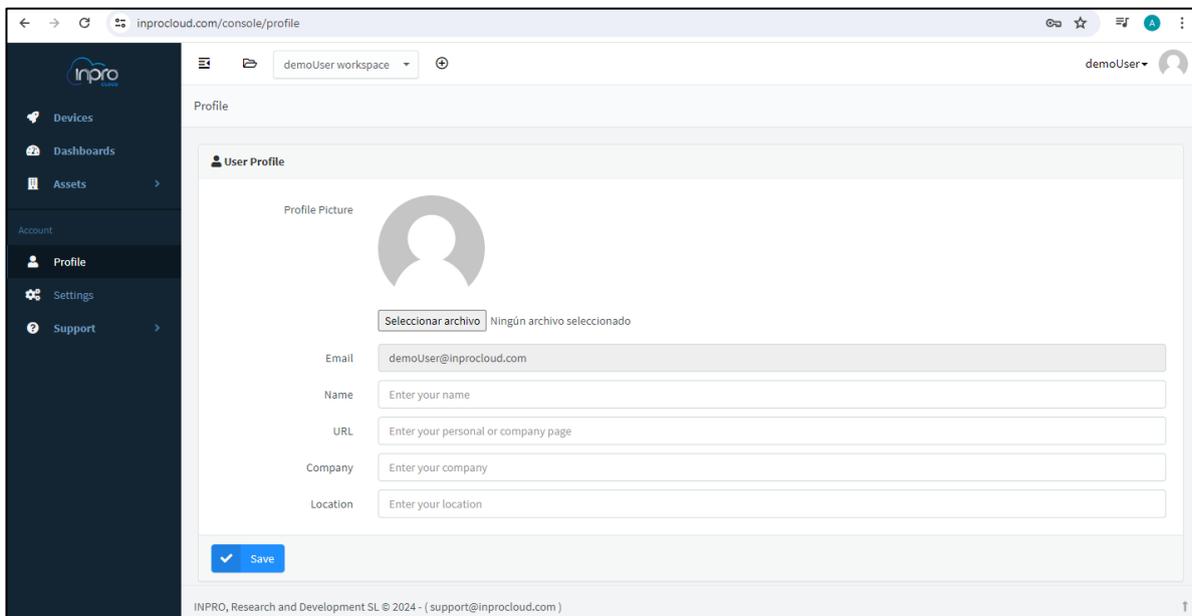
## Assets

By selecting this option, the assets and their location are shown on a map, using a range of colors that reflect the device's connection to the platform, i.e. red = disconnected and green = connected.



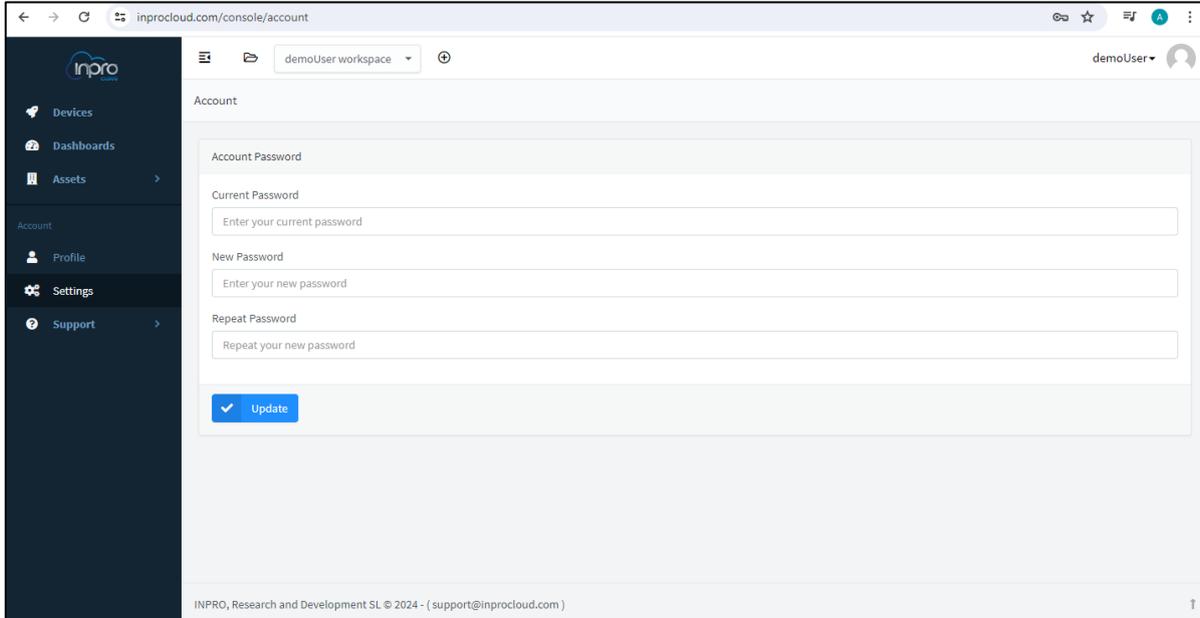
## Profile

By selecting this option, the user profile information will be loaded. A profile picture, name, URL, company and location can be configured.



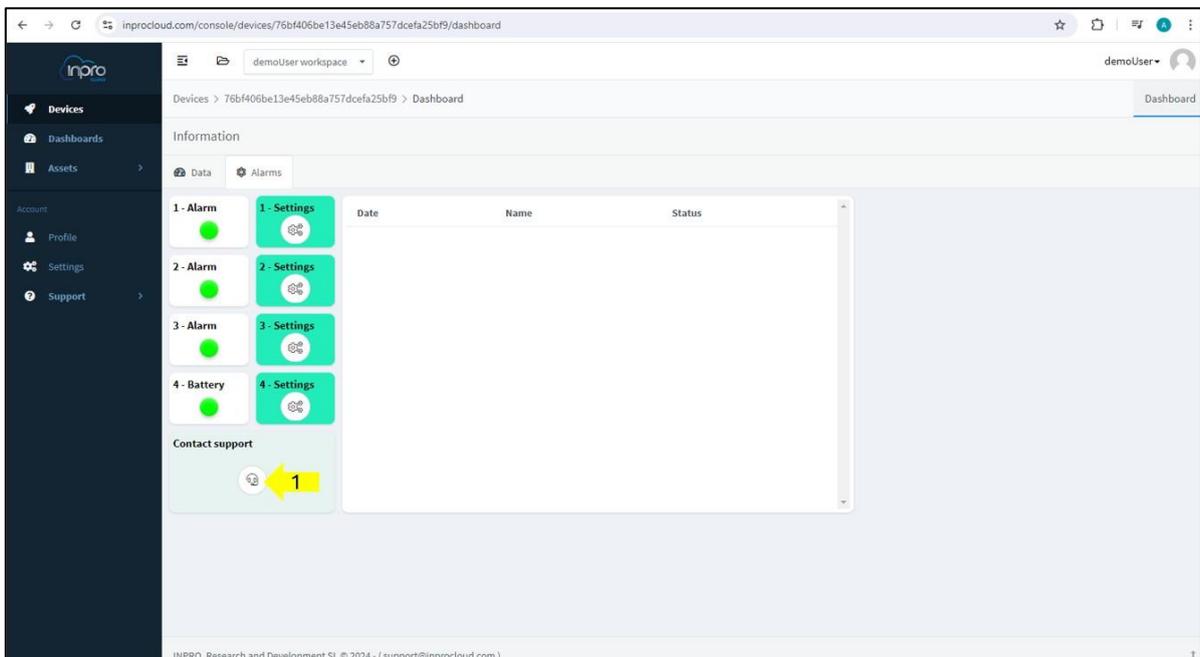
### Configuration

By selecting this option, the user will be able to change the password, knowing the password (in case of not knowing the password, in the login screen, there is the option "Forgot password?").

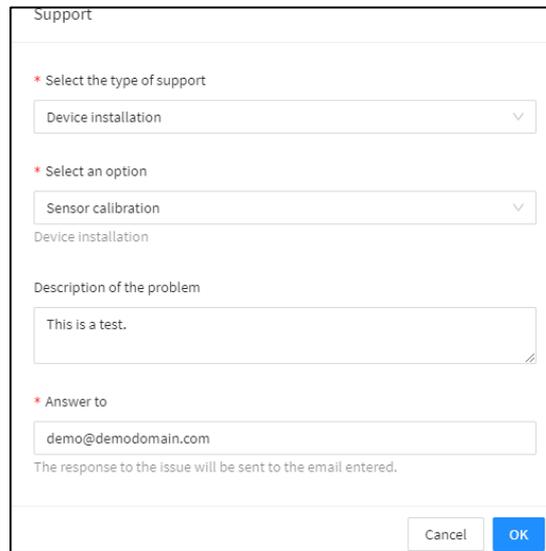


## 4. SUPPORT

Contact support can be accessed through the device dashboard and under the "Alarms" tab.



By clicking on the support icon, a form will open, which must be filled in by the user explaining the problem:



The screenshot shows a 'Support' form with the following fields and options:

- Select the type of support:** A dropdown menu with 'Device installation' selected.
- Select an option:** A dropdown menu with 'Sensor calibration' selected. Below it, 'Device installation' is listed as an option.
- Description of the problem:** A text area containing 'This is a test.'
- Answer to:** A text field containing 'demo@demodomain.com'. Below it, a note states: 'The response to the issue will be sent to the email entered.'

At the bottom right, there are 'Cancel' and 'OK' buttons.

Finally, if we click on "OK" the information will be sent to the server and a ticket with the query will be created. The user should receive an email confirming that the ticket has been opened.

In case you are unable to log in, please write an email to [support@inprocloud.com](mailto:support@inprocloud.com), explaining the problem you are experiencing.

# INPRO CLOUD PLATFORM



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