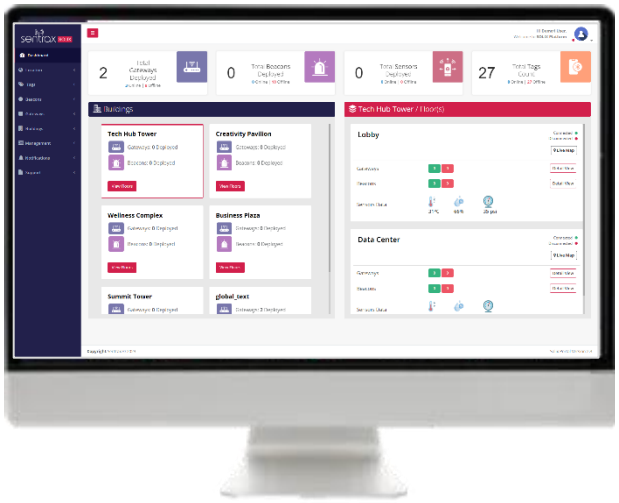
sentrax



VERSION 1.0

On-Premises Solix User Guide

HW System Requirements:

- CPU Information
  - Model: Intel NUC Kit NUC7CJYH (Celeron J4005, UHD 600) Mini PC
- Memory
  - Size: 8GiB
- Network Interfaces
  - Ethernet Socket
  - WiFi Access Point
- Storage:
  - Size: 40GiB
- Operating System:
  - Ubuntu 22.04.3 LTS

1.1. Solix Installation:

Before proceeding with the installation of Solix On-Premise, ensure that you have downloaded the docker-compose file and that the following ports are not in use on your server machine: **4000, 5500, 8771, 3306, 1883, 9001.**

Please note that the installation steps provided below are tailored for **Ubuntu 22.04**.

1. Connect to the Server: Utilize **WinSCP** to establish a connection to your server**.**
2. Navigate to the Home Directory: Use the following command to navigate to the home directory on your server:

```
cd /home
```

3. Create a new directory where you will copy the downloaded docker-compose file:

```
mkdir solix
```

4. Copy the downloaded docker file to the directory on your server**.**

In our example, it is /home/solix

```
/home/solix
```

You should be able to see your docker-compose file in the directory.

5. Navigate to the directory:

```
cd /home/solix
```

6. Create environment file for your license key:

nano .env

7. Now, paste your license key in the environmental file (make sure the format is the same as below):

LICENSE_KEY=your-license-key-here

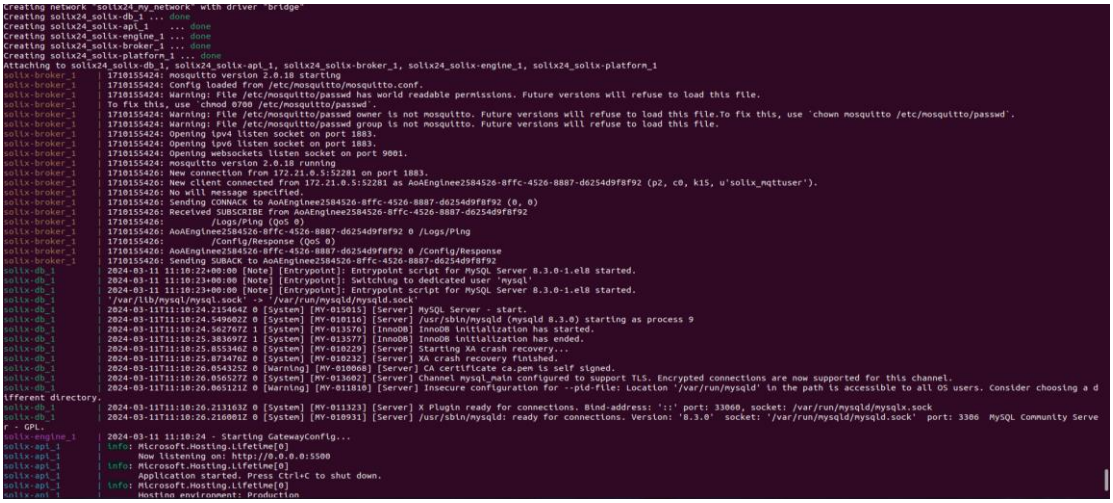
Save your file by pressing **CTRL+S** and exit the file terminal by pressing **CTRL+X**.

8. Run the docker-compose file in your terminal in the directory you copied your docker-compose file to, in our example its /home/solix**:**

docker-compose up (to see the docker logs)

docker-compose up -d (to run the docker in the background)

9. After the installation is done, Solix should be accessible in several minutes.



Note: If you intend to utilize your own mosquito broker, you can modify the **config.ini** file located inside the **engine** folder, which you downloaded alongside the docker-compose file.

a) Navigate to the **engine** folder.

cd /home/solix/engine

b) Edit the **config.ini** file.

nano config.ini

```
[MQTT]
BROKER = solix-broker
USERNAME = solix_mqttuser
MQTT_PORT = 1883
PASSWORD = Solix_mqttPW4
GATEWAY_TOPIC = /device/filtered/staticangles
```

GATEWAY_TOPIC represents the topic through which your gateways stream angles data. Make necessary adjustments as per your requirements.

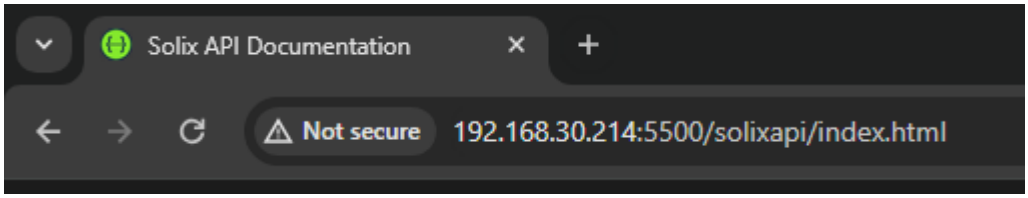
1.2. Setting up Solix:

Before proceeding, please note that setting up **Solix** requires familiarity with **API requests** and **developer knowledge**.

Now that the **Solix** is up and running, you need to first add your Gateway and Tag data and create Client and User IDs in order to use the **Solix Platform**.

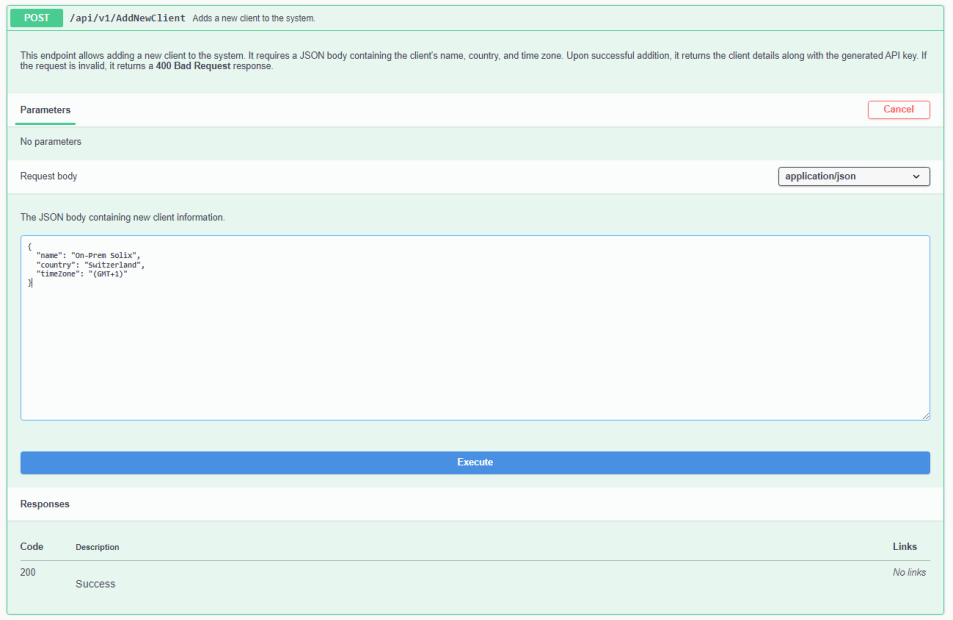
1. Access Solix API Documentation:

a) Visit the Solix API Documentation by entering your Linux server IP followed by port **5500** and endpoint /**solixapi**.



2. Create an Admin Client:

a) Navigate to the **POST API /api/v1/AddNewClient** under the **ClientAPI** section.
b) Click on **Try it out** and input your credentials.
c) **Execute** the request.



d) Upon receiving Success Response **200**, save the generated **apikey** and **id** in a file. These credentials will serve as your main **ClientId** and **APIKey** for further API calls.

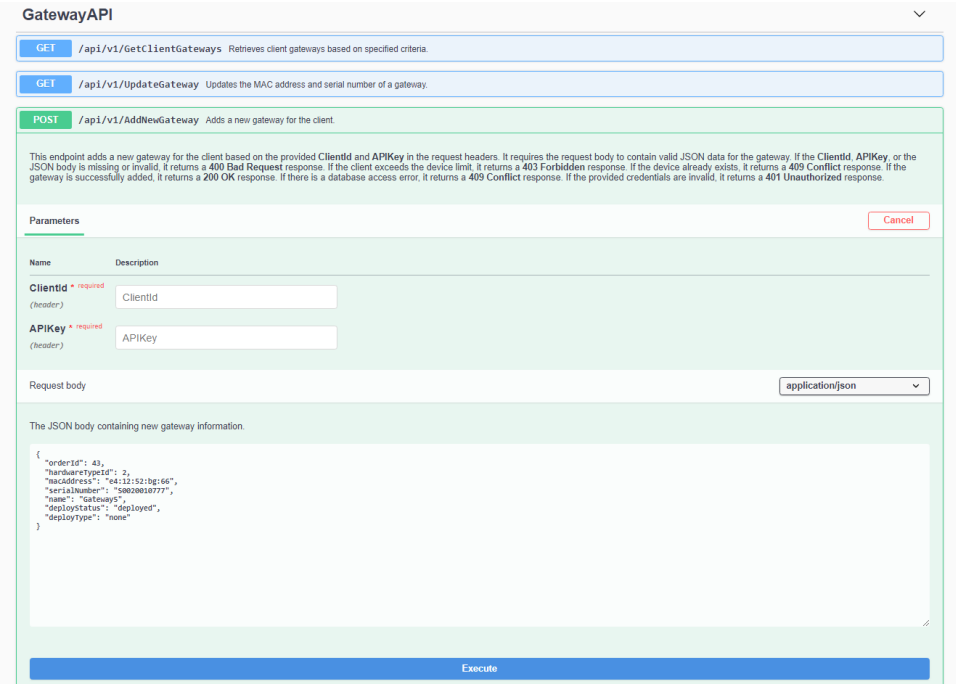

```
{
  "Message": "Success",
  "Data": [
    {
      "id":1,
      "name": "On-Prem Solix",
      "apikey": "CZq/B+NpXw8DlXhvqzcrYWuvc5SRsL++CTPwBcYkc88="
    }
  ]
}
```


e) Proceed to the **GET API /api/v1/GetHWID** under the **ClientAPI** section and note the IDs of your TOW-1 Tag, LON-2 Gateway, and TOK-1 Tag.


```
{
  "Message": "Success",
  "Data": [
    {
      "id": 1,
      "name": "Pinix TOW-1",
      "productType": "Tag"
    },
    {
      "id": 2,
      "name": "Zenix LON-2",
      "productType": "Gateway"
    },
    {
      "id": 3,
      "name": "Pinix TOK-1",
      "productType": "Tag"
    }
  ]
}
```

3. Add Gateway Data:

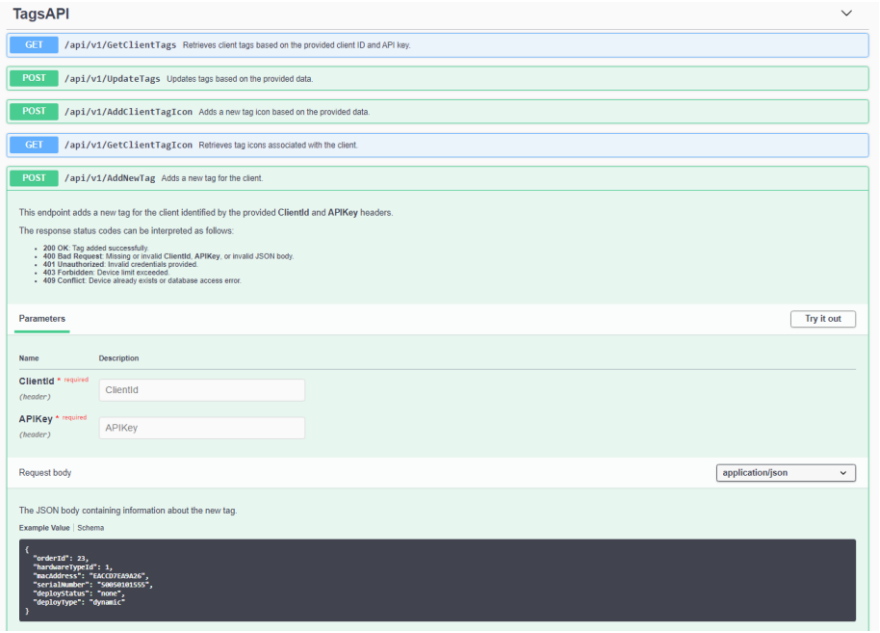
a) Access the **POST API /api/v1/AddNewGateway** under the **GatewayAPI** section.



b) Fill the headers with the **ClientId** and **APIKey** you noted earlier in **step #2c.**
c) Input Gateway **MAC**, **Serial**, and replace **hardwareTypeId** with the **LON-2 Id** you noted earlier in **step #2e** which in our example is **2.**
d) Execute the request to add your gateway to the Solix Platform.

4. Add Tag Data:

a) Navigate to the **POST API /api/v1/AddNewTag** under the **TagsAPI** section.

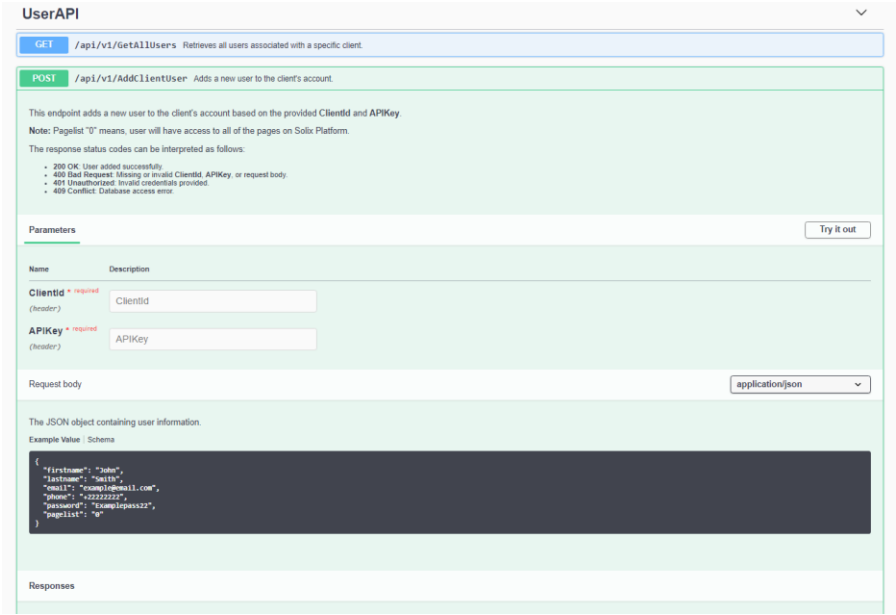


a) Fill the headers with the **ClientId and APIKey** you noted earlier in **step #2c.**Input Tag **MAC, Serial** and replace **hardwareTypeId** with the appropriate ID **(TOK-1 or TOW-1)** you noted earlier in **step #2e** which in our example is **1 for TOW-1 and 3 for TOK-1.**

b) Execute the request to add your tag to the Solix Platform.

5. Add Client User:

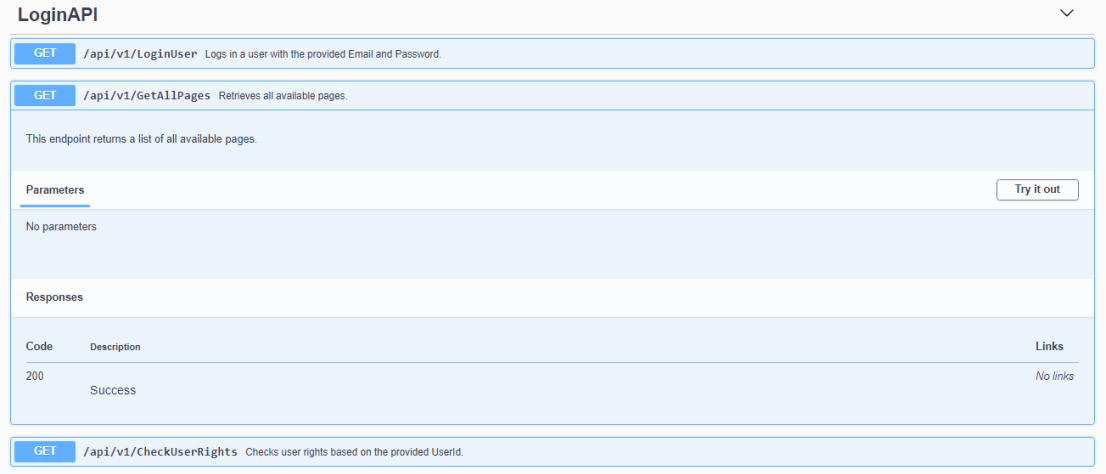
a) Go to the **POST API /api/v1/AddClientUser** under the **UserAPI** section.



b) Fill the headers with the **ClientId and APIKey** you noted earlier in **step #2c.**

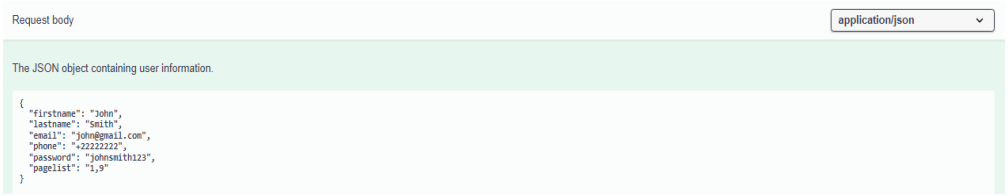
c) Use **pagelist** to control user access to specific pages on Solix Platform.

d) **Pagelist 0** will give user access to all the pages on Solix Platform, if you want to restrict users to have limited page access, head over to the **GET API /api/v1/GetAllPages** under **LoginAPI** section.



a) **Execute it** and you should see **Success Response 200** with the list of all the pages on Solix Platform.

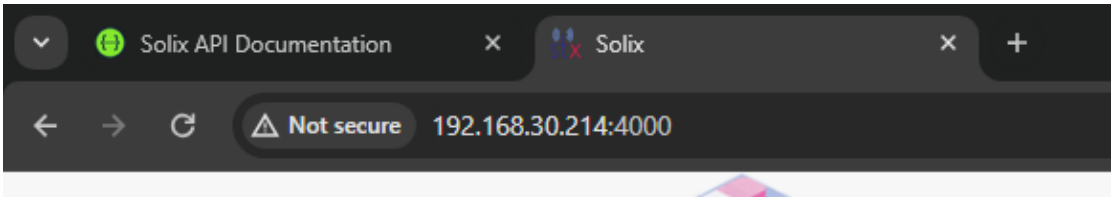
b) Back to the **UserAPI** section, add the **Id** of the pages you want the user to have access to in **pagelist,** in our example we would like them to see only the **Live Map and Gateway Summary page.** Our response body should be **pagelist 1,9**:



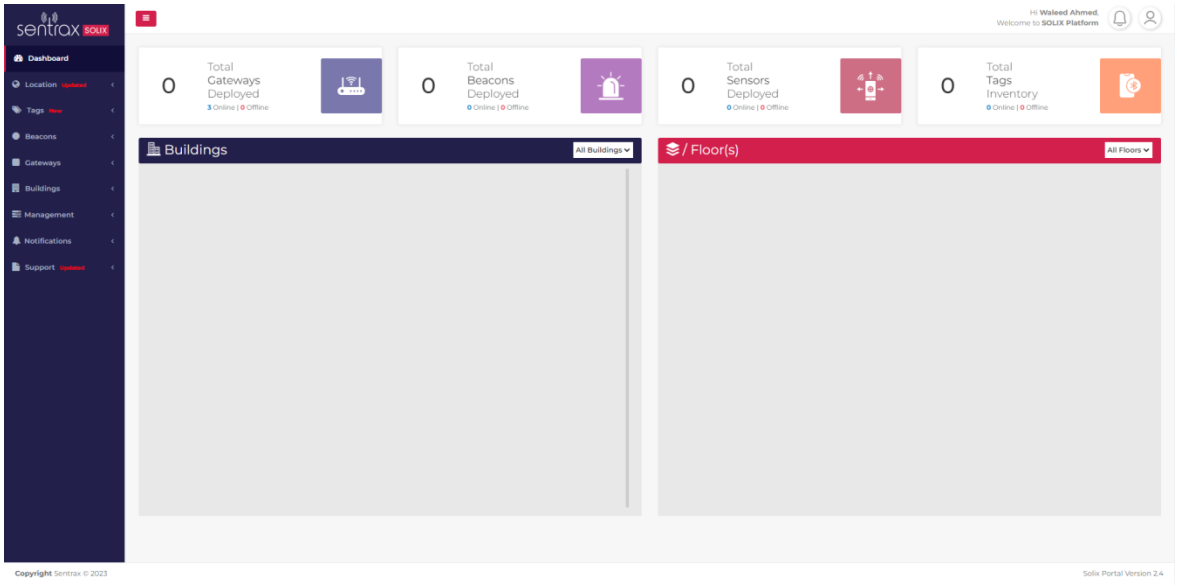
c) **Execute it** and you should see **Success Response 200**, user has been added to your Solix Platform.

6. Access Solix Platform:

a) Login to Solix Platform using the URL of your server IP and port **4000**.

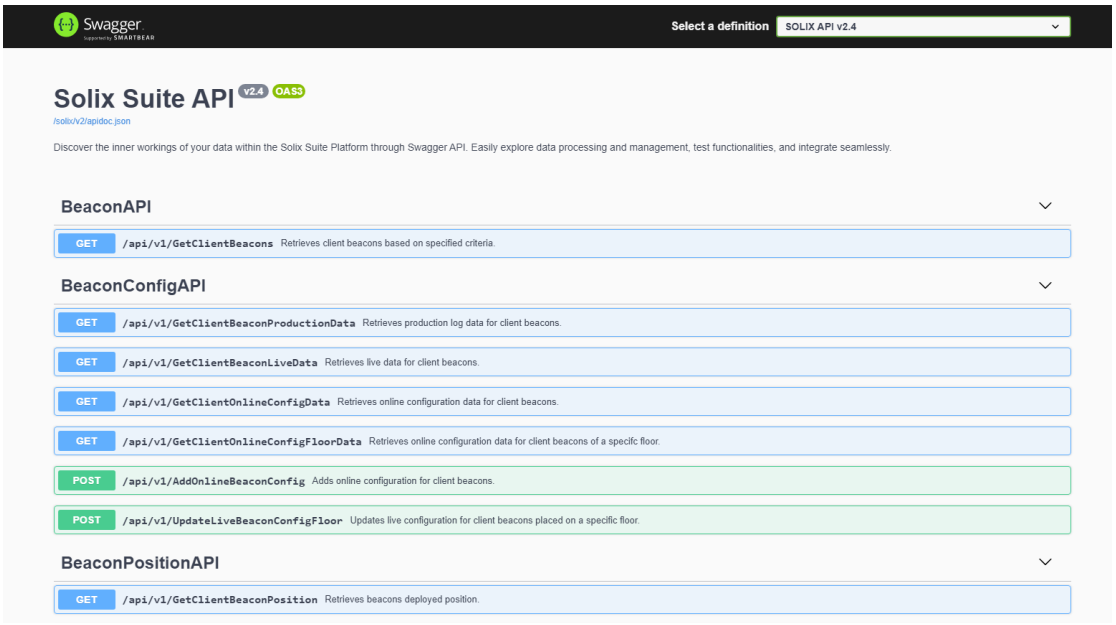


b) Enter the **Email** and **Password** of the newly created **ClientUser** to access the Dashboard.



7. Additional Resources:

a) You can find the **Solix User Guide** and **Data sheet** under the **Support** drop-down in the navigation bar.
b) You can visit the **Solix API Documentation** by URL of your server IP, port **5500** and endpoint **/solixapi**



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