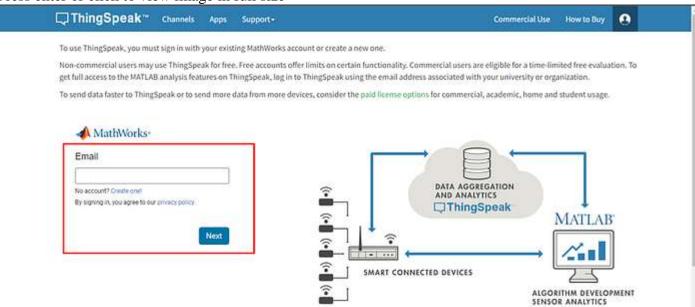
Step 1

To get these credentials, first, create a channel in ThingSpeak. Login or Create an account in MathWorks.

Press enter or click to view image in full size



Step 2

Click on **New Channel**.

Press enter or click to view image in full size

ThingSpeak Channels Apps - Divices Support Commercial Use How to Buy

My Channels

New Channel

Search by tag

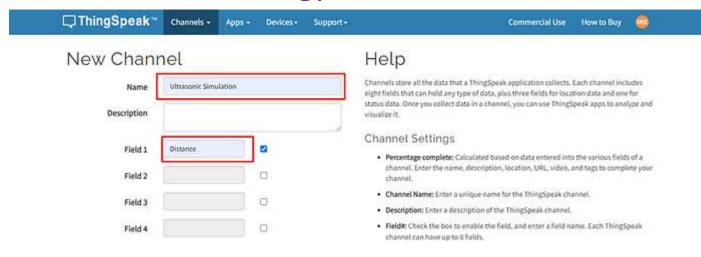
Collect data in a ThingSpeak channel from a device, from another channel, or from the web.

Click New Channel to create a new ThingSpeak channel.

Step 3

Fill in the necessary blocks including Project Name and Column Names. As this project is about ultrasonic simulation, the project name is **Ultrasonic Simulation** and it has only one attribute **Distance**, so the field name is the distance where distance measures (values) will be stored.

Press enter or click to view image in full size



Step 4

Scroll down and Click on Save changes.

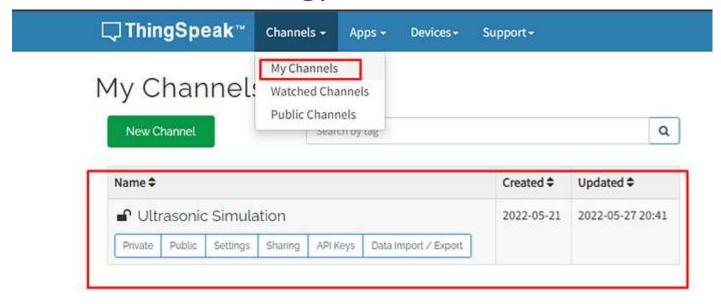
Press enter or click to view image in full size ☐ ThingSpeak** Channels -Apps -Support -Commercial Use How to Buy You can get data into a channel from a device, website, or another ThingsSpeak channel. You Elevation can then visualize data and transform it using ThingSpeak Apps. See Get Started with ThingSpeak" for an example of measuring dew point from a weather Show Channel station that acquires data from an Arduino* device. Location Learn More-0.0 Latitude Longitude 0.0 Show Video ■ YouTube http:// Video URL Show Status Save Channel

Step 5

To see your channel, Click on **Channels > My channels > Ultrasonic**

Simulation.

Press enter or click to view image in full size



Step 6

The **Channel ID** will be given below the Project Name.

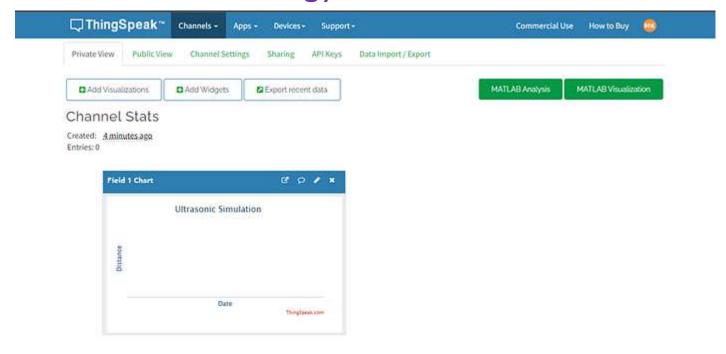
Press enter or click to view image in full size



Step 7

Scroll down the page and see the graph where distance will be visualized during the simulation.

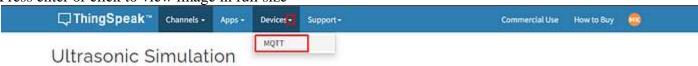
Press enter or click to view image in full size



Step 8

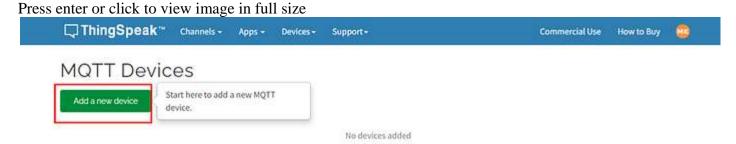
Now to get the credentials of MQTT, create the MQTT Device. Click on **Devices > MQTT.**

Press enter or click to view image in full size



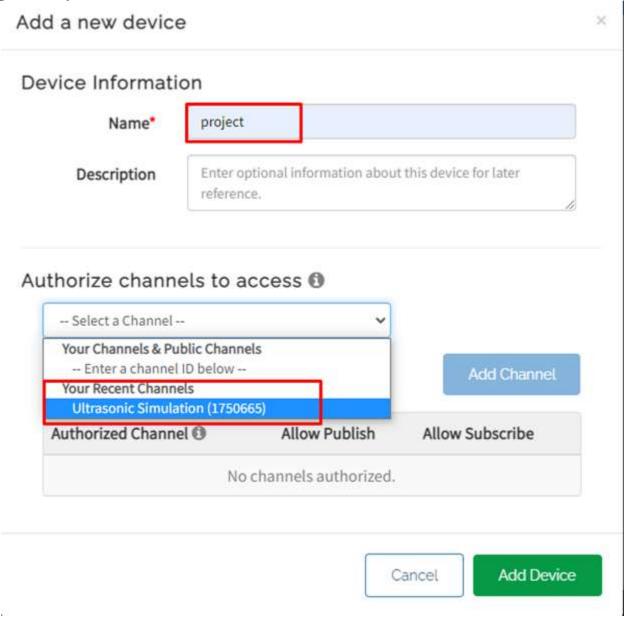
Step 9

Click on Add a new device.



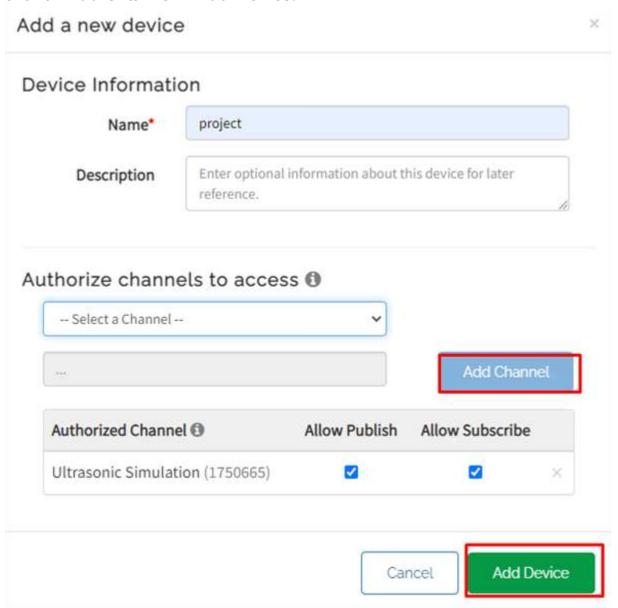
Step 10

The dialogue box will pop up, enter the name of the MQTT device and select a previously created channel.



Step 11

Click on Add Channel > Add Device.



Step 12

The dialogue box will pop up where the credentials of MQTT will be given. Click on **Download Credentials.**

New Device Added

Device Information

ThingSpeak has added a new MQTT device and authorized it to access the channels you selected.

Device Name: project

MQTT Credentials

Use these MQTT credentials to publish and subscribe to ThingSpeak channels. Learn More



A ThingSpeak does not store a copy of your device's MQTT password.

Download or copy it to keep it safe.

Download Credentials -