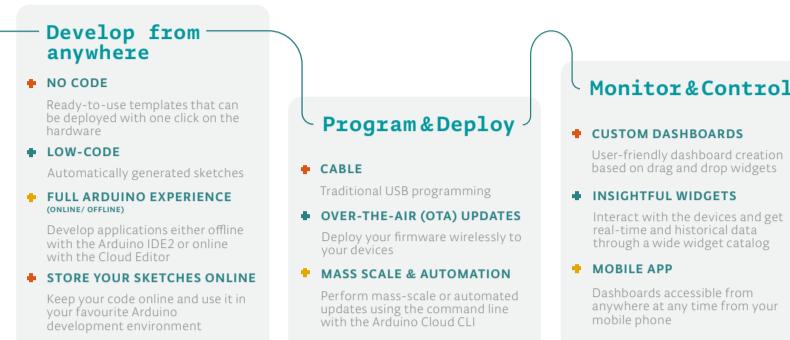
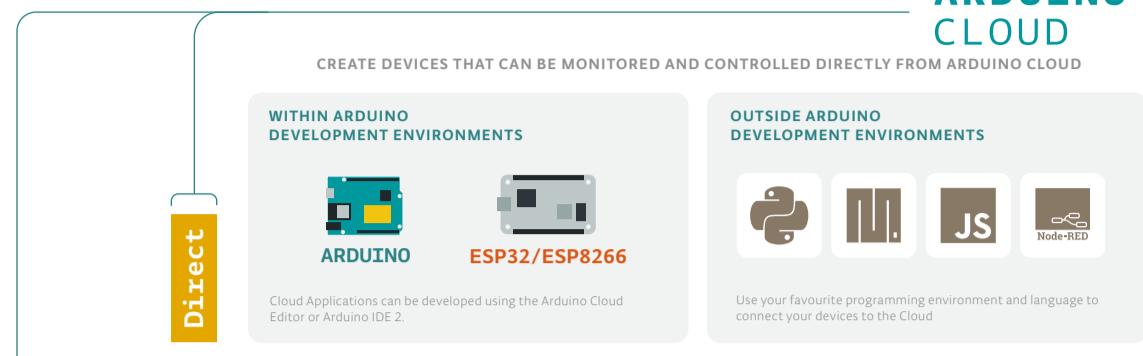


## What Arduino Cloud is



## Supported hardware



## Glossary

**PHYSICAL BOARD**: A physical microcontroller board that can be connected to Arduino Cloud.

**KIT**: A product that contains several components. Typically a microcontroller board plus sensors, buttons, etc.

**DEVICE**: The abstraction that handles the information necessary to connect to a physical device.

**THING**: Virtual representations of the application running on a **device**. They include the code (sketch), the variables that will be stored in the Cloud and network configuration.

**VARIABLE (PROPERTY)**: A variable/property in Arduino Cloud is a piece of data that is associated with a **Thing**. **Things** can have many **variables/properties**, such as temperature, humidity, light level, or the state of a switch.

**SKETCH**: A program or code written in the Arduino programming language specifically designed to be run on an Arduino or ESP-based microcontroller. They consist of a set of instructions that tell the board what actions to perform and how to interact with external components, sensors and devices.

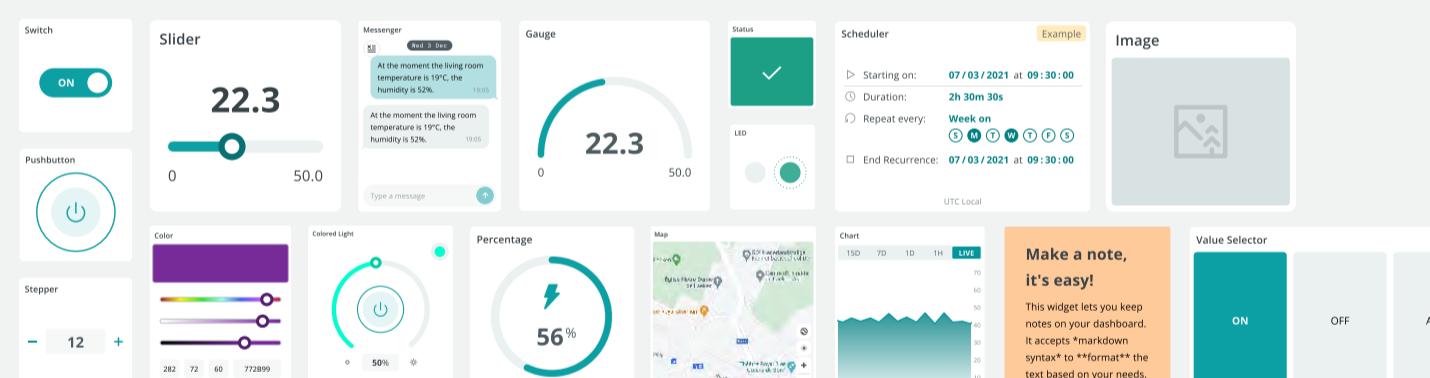
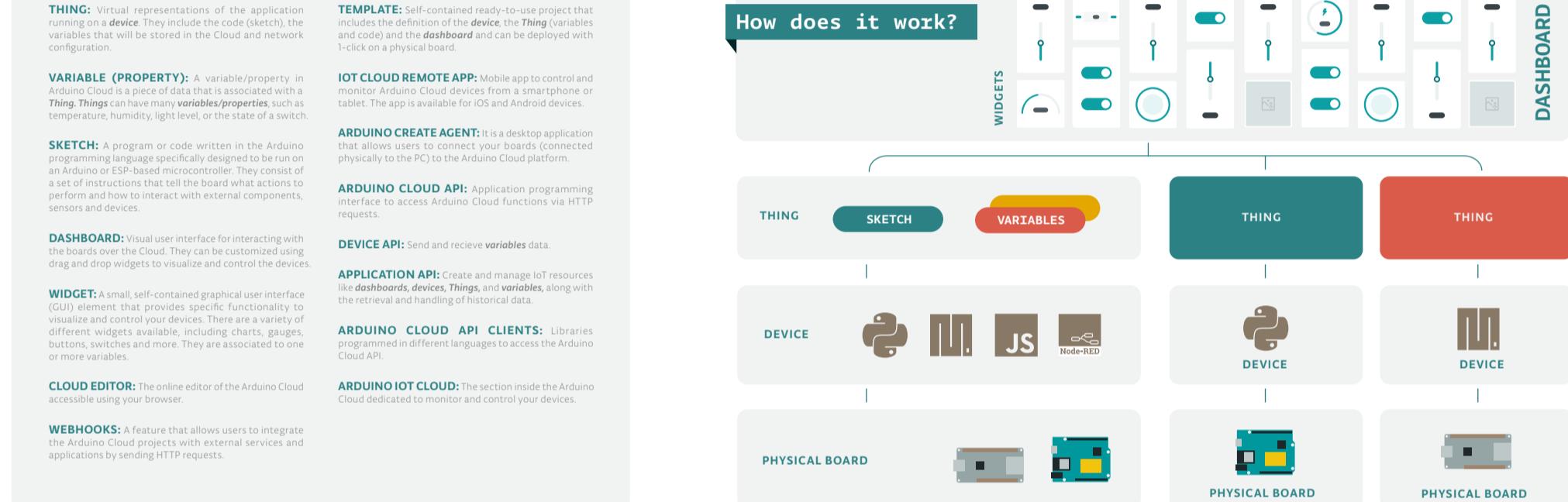
**DASHBOARD**: Visual user interface for interacting with the boards over the Cloud. They can be customized using drag and drop widgets to visualize and control the devices.

**WIDGET**: A small, self-contained graphical user interface (GUI) element that provides specific functionality to visualize and control your devices. There are a variety of different widgets available, including charts, gauges, buttons, switches and more. They are associated to one or more variables.

**CLOUD EDITOR**: The online editor of the Arduino Cloud accessible using your browser.

**WEBHOOKS**: A feature that allows users to integrate the Arduino Cloud projects with external services and applications by sending HTTP requests.

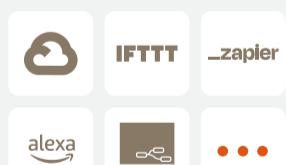
## How does it work?



## Dashboard

- CUSTOMIZE YOUR DASHBOARD**: Customize your dashboard using drag-and-drop widgets linked to Things' variables, crafting tailor-made control panels.
- GET INSIGHTFUL DATA**: Get comprehensive view of your devices' data with widgets providing both real-time and historical data.
- OFFLINE ANALYSIS**: Download your historical data for offline analysis.
- SHARE IT WITH ANYONE**: Collaborate effortlessly with friends, team members, or the entire world by granting them access to dashboards.

## Third party platform integration



### TRIGGER ACTIONS ON THIRD PARTY PLATFORMS

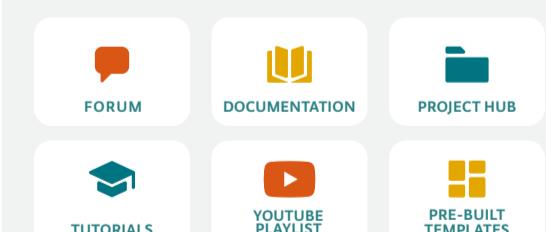
Connect your Arduino Cloud devices to external platforms such as IFTTT, Zapier and Google Services using webhooks and unlock endless possibilities.

Seamlessly integrate your IoT devices with over 2 000 apps, enabling tasks like receiving phone notifications, automating social media updates, streamlining data logging to external files, creating calendar events, or sending e-mail alerts.

## IoT Remote App



## Resources



## Create your devices



### WITHIN ARDUINO DEVELOPMENT ENVIRONMENT

#### DEVELOP OFFLINE

Use Arduino IDE 2 to have the traditional offline Arduino development experience. Sync your sketches with the Cloud to never lose your code.

#### DEVELOP ONLINE FROM ANYWHERE

Develop from anywhere with the Arduino Cloud Editor. Benefit from the zero-touch configuration to get focus only on your code.

## OUTSIDE ARDUINO DEVELOPMENT ENVIRONMENT

#### APPLICATION API



Create and manage IoT resources like dashboards, devices, Things and variables, along with the retrieval and handling of historical data.

#### DEVICE API



This API helps you create a Cloud-compatible device by implementing the device data communication with the Cloud.



Get started for free  
[cloud.arduino.cc](http://cloud.arduino.cc)