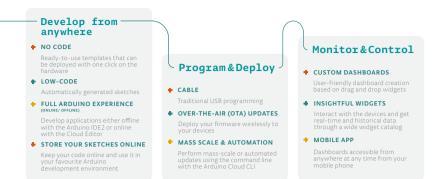


What Arduino Cloud is



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.

TRIGGERS: Events that can trigger an action based on a condition configured in the Cloud.

NOTIFICATIONS: A kind of action that consists of a message sent to the user when a trigger is activated.

OVER-THE-AIR (OTA) UPDATE: A software update

TEMPLATE: Self-contained ready-to-use project that includes the definition of the *device*, the *Thing* (variables and code) and the *dashboard* and can be deployed with Ledick on a physical baser.

IOT CLOUD REMOTE APP: Mobile app to control and monitor Arduino Cloud devices from a smartphone or tablet. The app is available for iOS and Android devices.

ARDUINO CREATE AGENT: It is a desktop application that allows users to connect your boards (connected physically to the PC) to the Arduino Cloud platform.

ARDUINO CLOUD API: Application programming interface to access Arduino Cloud functions via HTTP

DEVICE API: Send and recieve *variables* data.

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

ARDUINO CLOUD API CLIENTS: Libraries programmed in different languages to access the Arduino

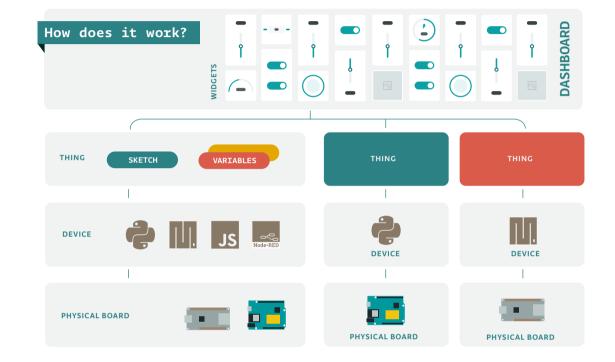
ARDUINO IOT CLOUD: The section inside the Arduino

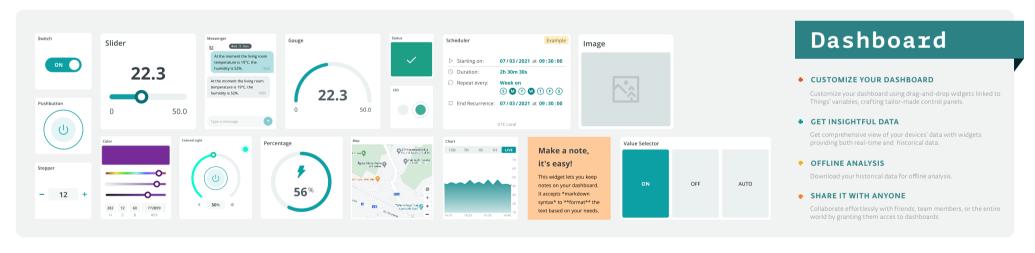
Supported hardware











Third party platform integration



TRIGGER ACTIONS ON THIRD PARTY PLATFORMS

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

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

FULL CONTROL IN YOUR HANDS Use your dashboards on the go, and control projects from anywhere in the world, using the free loT Cloud Remote app. YOUR PHONE AS AN IOT DEVICE Use the "Phone as a device" feature to connect your phone's sensors to the Arduino Cloud and turn your mobile phone into an loT device for your projects.



Create your devices



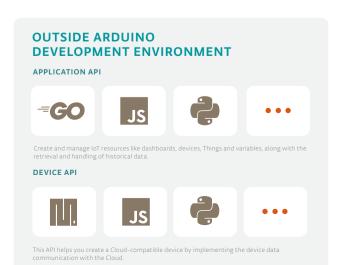
WITHIN ARDUINO DEVELOPMENT ENVIRONMENT

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.





Get started for free cloud.arduino.cc