

## TRAINING

GETTING STARTED  
WITH KUZZLE IOT

## 🕒 DURATION

- 3 days (21hrs)

## 📍 LOCATION

- On site

## 👤 PUBLIC

- IoT Developer

## 🗨️ LANGUAGES

- English
- French

## 🎯 SKILLS TO ACQUIRE

- Learn the role of a backend and its place in an IoT project
- Understand the different bricks of an IoT project and their interactions
- Getting started with the Kuzzle Backend (Admin Console + SDKs)
- Implementation on IoT platform

📖 SKILLS AND EXPERTISE  
PREREQUISITES

- Basic knowledge of NoSql database concepts
- Basic knowledge of Docker and Docker Compose
- Basic knowledge of web communication protocols (WebSocket and HTTP)
- Basic Knowledge of Javascript.

**Getting started with Kuzzle IoT :Train with the creators!**

In 3 days, on site, develop an application with Kuzzle IoT: We want to teach you how to harness the power of Kuzzle IoT and become a Kuzzle expert with real workshop and passionate trainers.

**DAY 1 - KUZZLE**

- Kuzzle Backend overview
- Kuzzle IoT and its ecosystem
- Kuzzle IoT API presentation
- User access controls, profiles, roles management
- Core Plugin development

**DAY 2 - API KUZZLE IOT VIA MQTT**

- Overview of controllers
- Use API in JSON with MQTT
- Authentication
- Subscribe and notifications in realtime
- numerical twins
- RPC - Remote Procedure Call
- Adding a route to decode a binary payload

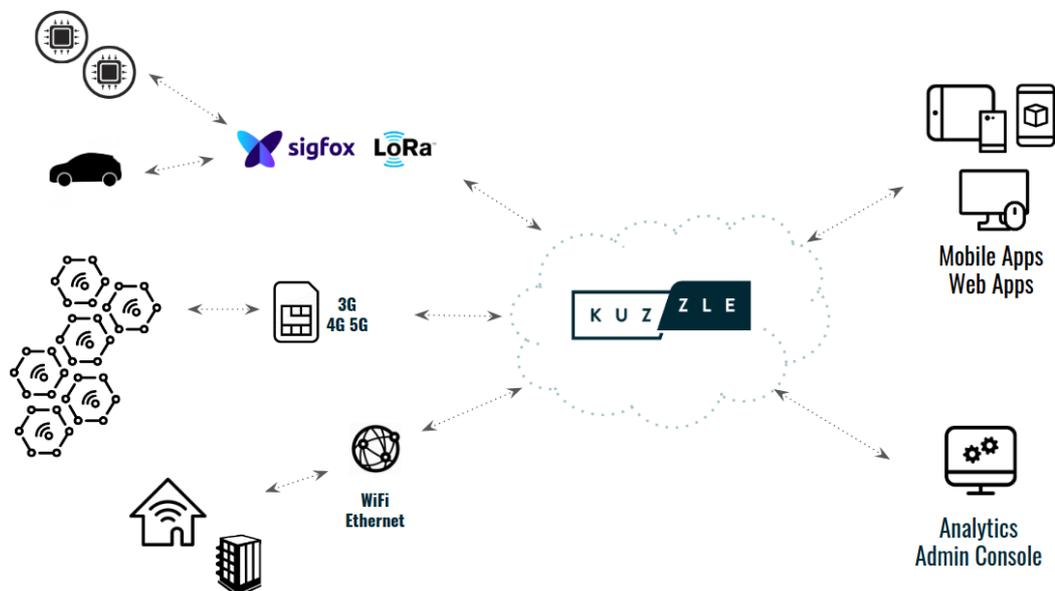
## DAY 3 - DEVOPS / USE CASE

- **IoT Architecture workshop** : Integration with connected devices to non IP networks (e.g: SigFox, Lora, Bluetooth Low Energy (BLE), and other bus owners).

### Use case depending on your IoT devices :

- 1 - Integrate a Wifi / 4G ( Microcontroller Wifi, Microcontroller + module 2/3/4G) device.
- 2 - SmartHome : BLE / Zigbee / ... <=> Gateway <=> Kuzzle
- 3 - GTB : Automate GTB <=> Kuzzle IoT
- 4 - Networks operated : Integrate a device on a Sigfox / LoraWAN network: Create a callback to push data in Kuzzle IoT, write a plugin Kuzzle IoT to decode binary frame.

- **Devops** : Deployment, monitoring, notifications and best practices for the deployment in production (deployment architecture, scripts, monitoring, etc.)
- Advanced using of the **Koncorde** notifications filters.
- Development of a custom authentication plugin (JWT, OAuth etc.)



## KUZZLE IOT?

Kuzzle IoT is an Open Source On-Premise and Multi-Cloud backend which accelerates IoT applications development.

The platform integrates advanced features such as security and authentication, real-time data and API management, geolocation or geo-fencing.

**LEARN MORE**  
[kuzzle.io](https://kuzzle.io)

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