

IoT Challenge 2018- Product Owner/EVERYTHING Intro

16-17 Μαρτίου 2018

EVERYTHING Account

- <http://evrythng.com/>
- Create account
- Create project
 - Create products
 - Create Things
 - Objects of the Product Class



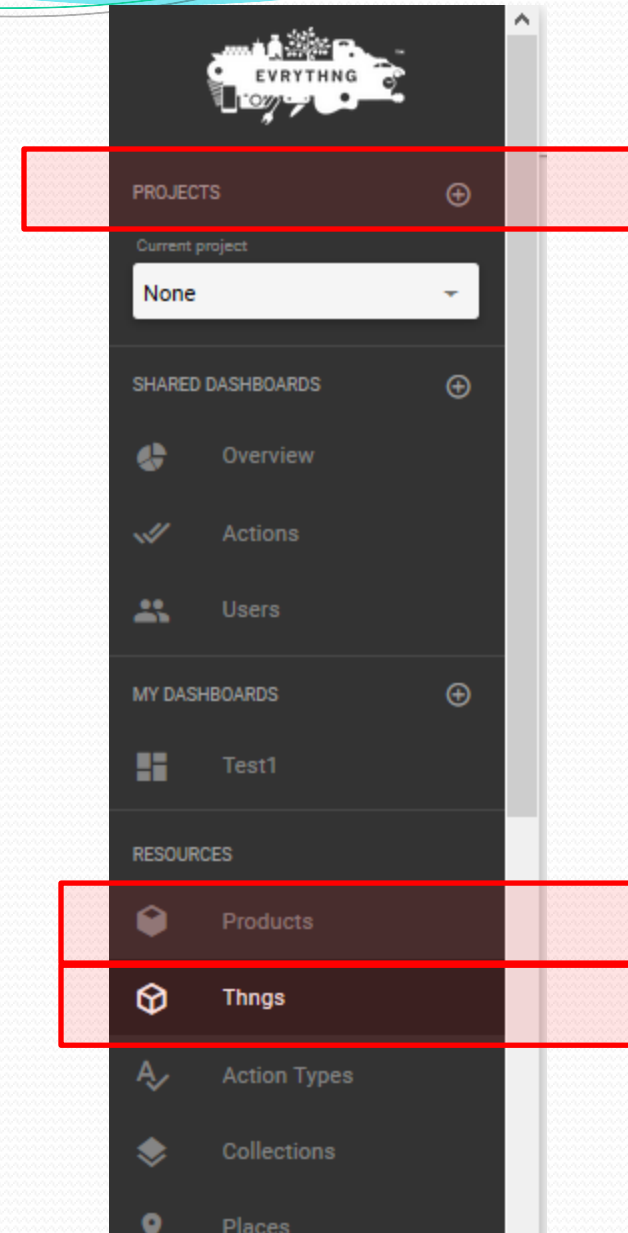
SOLUTIONS PLATFORM RESOURCES ABOUT US CONTACT US LOGIN

DIGITIZE YOUR PRODUCTS

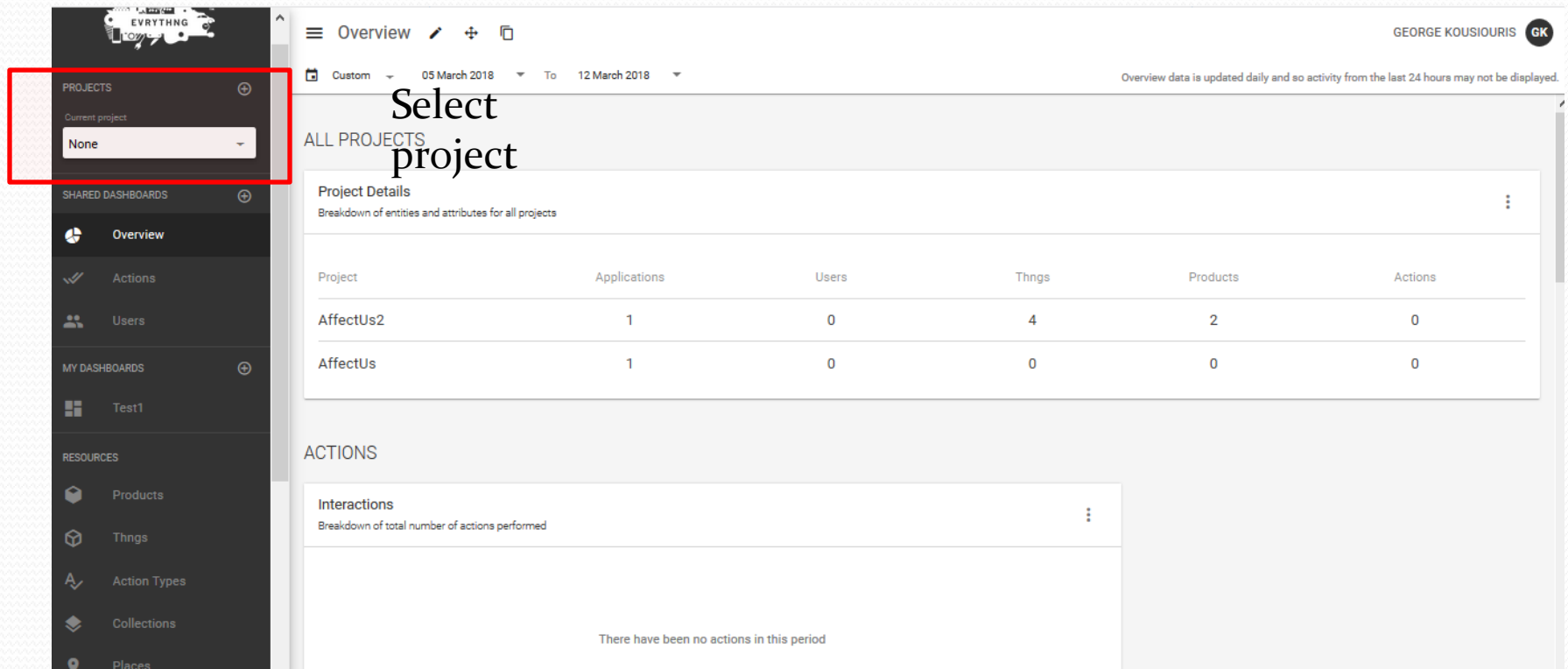
The EVERYTHING platform connects brands directly with consumers, and provides visibility and intelligence in the supply chain.



LEARN HOW TO GET CONNECTED



EVERYTHING Account



The screenshot shows the EVERYTHING Account dashboard. On the left is a dark sidebar with navigation options: PROJECTS, SHARED DASHBOARDS, MY DASHBOARDS, and RESOURCES. The 'PROJECTS' section is highlighted with a red box, and a red arrow points to the 'Current project' dropdown menu, which currently shows 'None'. The main content area is titled 'Overview' and shows a date range from '05 March 2018' to '12 March 2018'. Below this, there's a section for 'ALL PROJECTS' with a table of project details. The table has columns for Project, Applications, Users, Thngs, Products, and Actions. Two projects are listed: 'AffectUs2' and 'AffectUs'. Below the table, there's a section for 'ACTIONS' with a table of interactions. The table is currently empty, and a message at the bottom states 'There have been no actions in this period'.

Select project

Project Details
Breakdown of entities and attributes for all projects

Project	Applications	Users	Thngs	Products	Actions
AffectUs2	1	0	4	2	0
AffectUs	1	0	0	0	0

ACTIONS
Interactions
Breakdown of total number of actions performed

There have been no actions in this period

EVERYTHING Account

API Key is shown once clicked

The screenshot displays the EVERYTHING account interface. On the left, a dark sidebar contains the following sections:

- PROJECTS** (with a plus icon):
 - Current project: **AffectUs2** (highlighted with a red box)
 - Project Details (with a gear icon)
 - Applications** (with a code icon, highlighted with a red box)
- SHARED DASHBOARDS** (with a plus icon):
 - Overview (with a pie chart icon)
 - Actions (with a checkmark icon)
 - Users (with a group of people icon)
- MY DASHBOARDS** (with a plus icon)

The main content area shows the breadcrumb **AffectUs2 > Applications**. Below it is an **Add new** button with a plus icon (highlighted with a red box). A blue arrow points from the text "API Key is shown once clicked" to this button. Below the button is a table with the following structure:

Name / ID	Description	Default URL
Flow1_UI_link UHIUbC8qVBg8a9pRRaYCwrrqh		

EVERYTHING Account application role permissions

Application User Roles > Base Application User GEORGE KOUSIOU

Details
Created Never · Last updated Never

Name *
Base Application User

Description
The default base role for application users.

Visibility and Access
☒ No other roles can view and assign this role

Role access

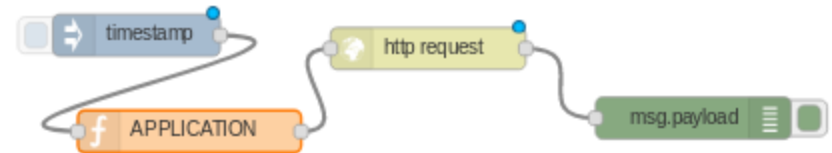
Path ⓘ	Create	Read	Update	Delete
/access\$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
/accesses	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
/auth/all/logout	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
/rateLimits\$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EVERYTHING APP Role

- Select project from dashboard
 - If none available you need to create it
- Select Applications tab
 - If none available you need to create one
- Assign role to Application
 - A role dictates the access rights and is configurable
 - There is a baseline role available
- Once created, the application will have generated an API key
- Copy API key and distribute it to the entities you want
 - For example to your node-RED flows for making HTTP calls to the EVERYTHING API or to the Product Owner UI

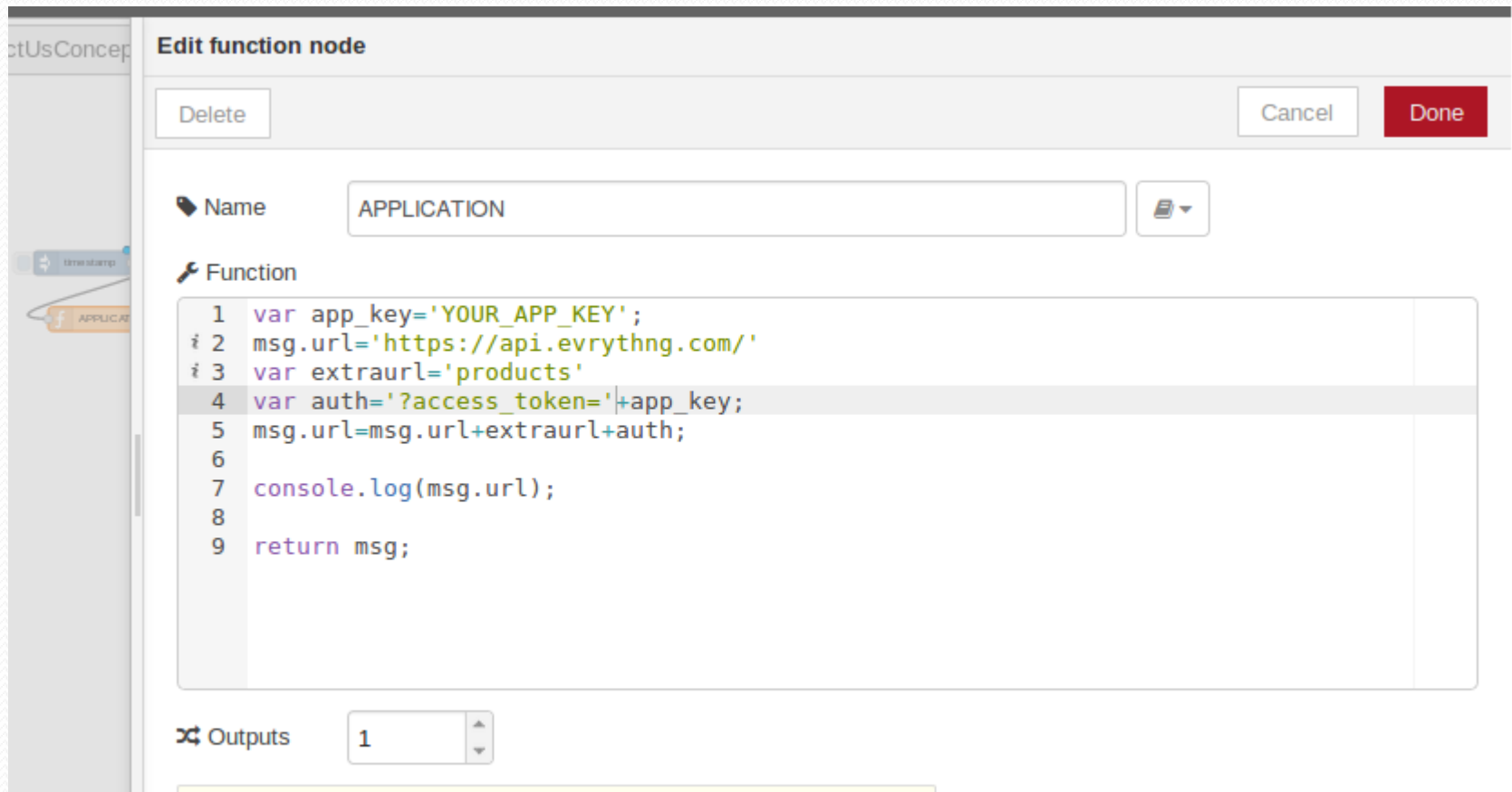
HTTP Calls to EVERYTHING

- Use the simple EVERYTHING Get flow
- Add your API key
- Fix the call parameters
 - Method
 - URL
 - Any inputs needed
- Details on available methods on:
 - <https://developers.evrythng.com/reference#standard-api-introduction>



HTTP Calls to EVERYTHING

- Function node example code

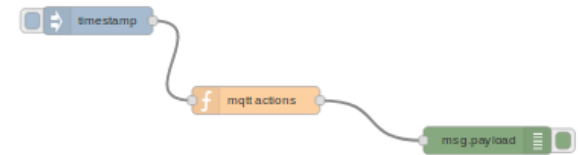


Example of returned JSON from EVERYTHING regarding product list

```
▼ 0:
  id: "UHdxGdtgegsatpwRwhD7ghyr"
  createdAt: 1513198582991
  customFields: {}
  updatedAt: 1513198582991
  brand: "siemens"
  ▼ properties:
    second: 55
    description: "second prod class"
    fn: "myprod2"
    name: "myprod2"
    identifiers: {}
  ▼ 1:
    id: "UnUbC8B7BXPwtpawRhGspr4d"
    createdAt: 1513184845111
    customFields: {}
    updatedAt: 1513184845111
    ▼ properties:
      dfdfdfd: 5
      sds: 88
      ssssssss: 22
      value: 25
    fn: "myprod1"
    name: "myprod1"
    identifiers: {}
```

Registration to get the scans

- You can use EVERYTHING mqtt flow
- Be sure to check endpoints you want to register to
 - <https://developers.evrythng.com/docs/publish>



Delete Cancel Done

Name mqtt actions

Function

```
1 const mqtt = context.global.mqtt;
2 const client = mqtt.connect('mqtt://mqtt.evrythng.com:8883', {
3   username: 'authorization',
4   password: 'YOUR_APP_KEY'
5 });
6
7 client.on('connect', () => {
8   console.log('Connected!');
9   msg.payload='Connected!';
10  client.subscribe('/actions/all');
11  node.send(msg);
12 });
13
14 client.on('message', (topic, message) => {
15   console.log(`${topic}: ${message}`);
16   msg.payload=`${topic}: ${message}`;
17   node.send(msg);
18 });
19
```

Product Owner UI

- Copy API key
- Edit notification endpoint and credentials if needed
- Define generic effects

≡ Enable Access and Declare Dependencies [Product Owner]

Instructions

Why?
In order for you to get included in the AffectUs extension, we need to have application role access (full details on what access rights are needed are included in <https://github.com/gkousiou/affectUs>). For this to happen, you need to create a new application in your EVERYTHING account and project, with the specific specified access rights in the defined role, and provide us the API key (details in <https://developers.everything.com/reference>)

Give AffectUs Application Role in your project	Define notification endpoint	Define Effect
<input type="text" value="Copy API key of Application Role here"/>	Protocol <input type="text"/>	InputProduct <input type="text"/>
<input type="text" value="Insert Owner ID"/>	Endpoint (e.g. myserver.com:8080 or NMA key) <input type="text"/>	<input type="checkbox"/> isAffectedBy
<input type="text" value="Password"/>	Endpoint User Account <input type="text"/>	types of events <input type="text"/>
<input type="checkbox"/> Create if not exists	Password <input type="text"/>	<input type="button" value="SUBMIT RELATIONSHIP"/>
<input type="button" value="SUBMIT"/> <input type="button" value="CANCEL"/>	<input type="button" value="SUBMIT"/> <input type="button" value="CANCEL"/>	

Product Owner UI back end

- Once received, the information is stored in the back-end database in order to maintain the product-api key mapping
 - This is needed in order to be able to retrieve product/thing based information on later stages
- Endpoint is where notifications need to be sent to the product owner

Product Owner UI back end

Integration with TIS-EVRYTHING

