# Proof Of Technology

## IBM Watson Internet of Things

### IBM IoT Platform

### Initialization for IBM Cloud free account

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# Architecture de l'environnement du workshop en binômes

## IBM Cloud user 1

Continuous Delivery

Git

IoT phone application

Cloudant

IoT Platform

## IBM Cloud user 2

Step 2 & 3 bis

Node-RED Starter

Node-RED

Cloudant

Watson services

# IBM Cloud account access

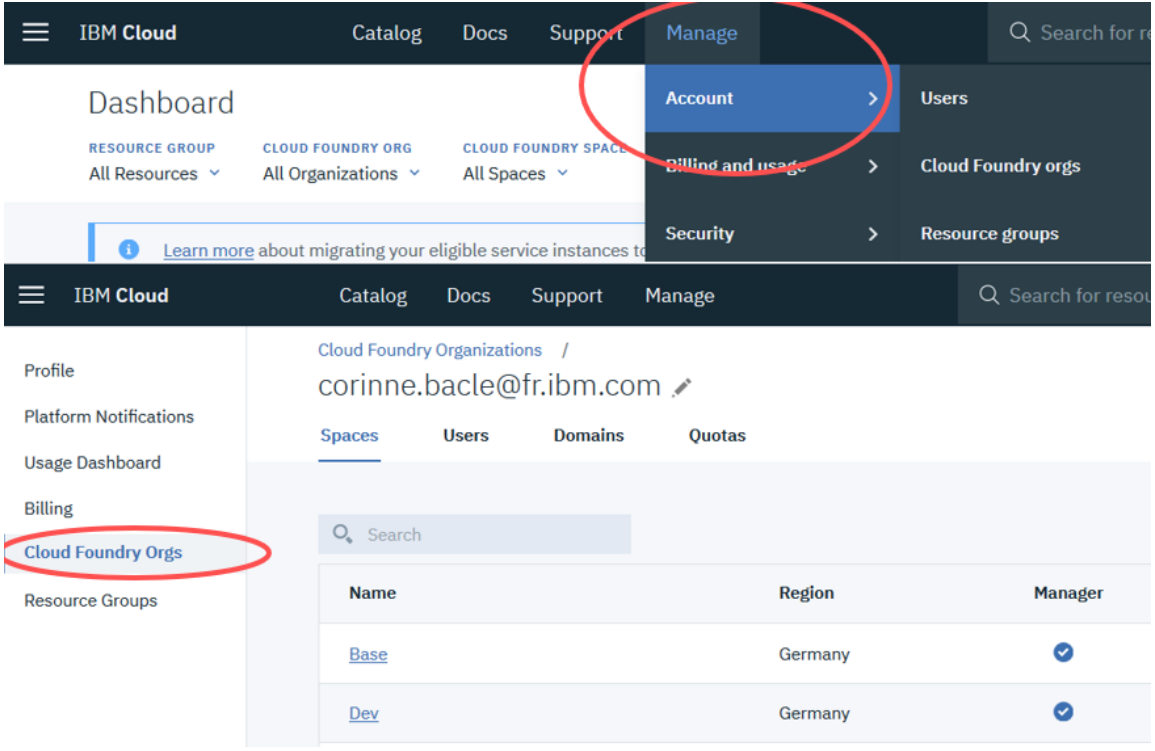
Create an IBM Cloud account: https://cloud.ibm.com/

(or use your existing one or  company account)

This is free: for an unlimited period but for limited number of services

# IBM Cloud account configuration

Check your account: create space and resource group if necessary



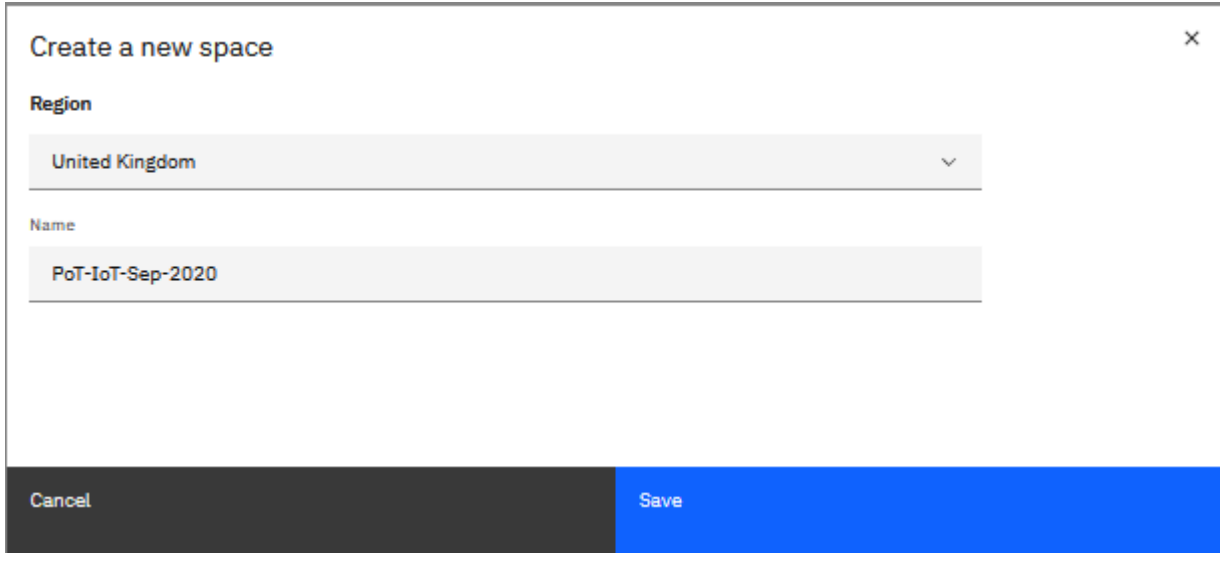
# IBM Cloud account configuration

Go to Cloud Foundry Orgs

Click on your name/email

Check if you have a Space in UK/Germany

Click on « Add a Space », Select a “region” : UK/Germany, add a “Name” : PoT-IoT-Date for example, then “save”

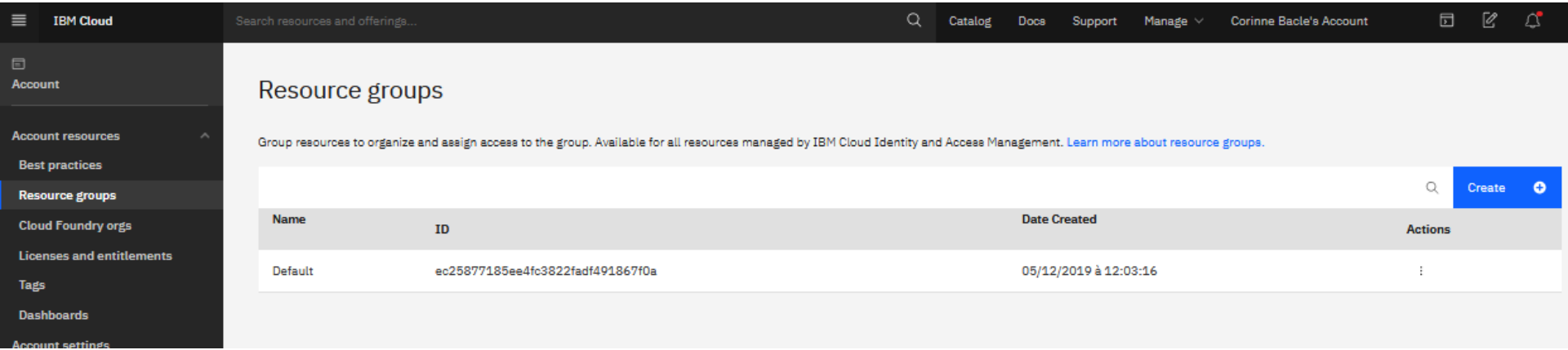


# IBM Cloud account configuration

Go to Resource Groups

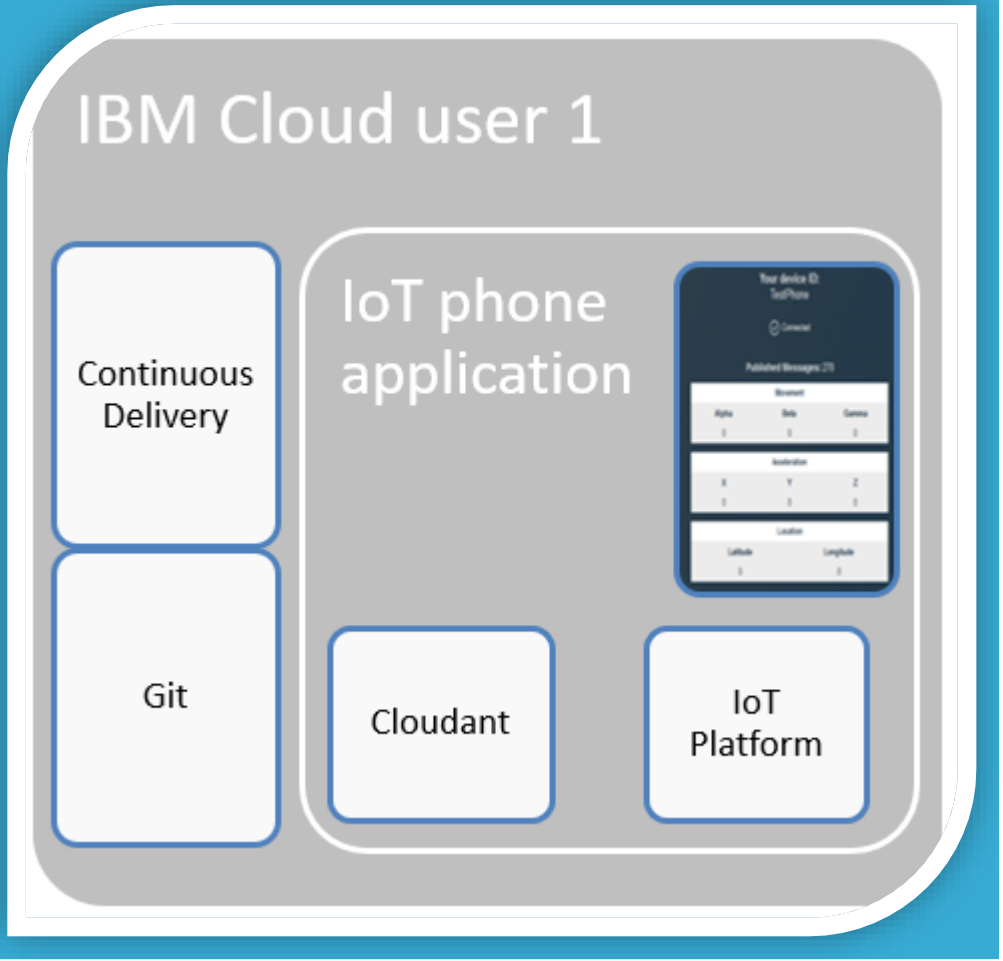
Check if you have one

If not, create one



## IoTPhone Application

# User 1



# Go to github

https://github.com/CorinneBacle/html5-phone

Download this documentation :

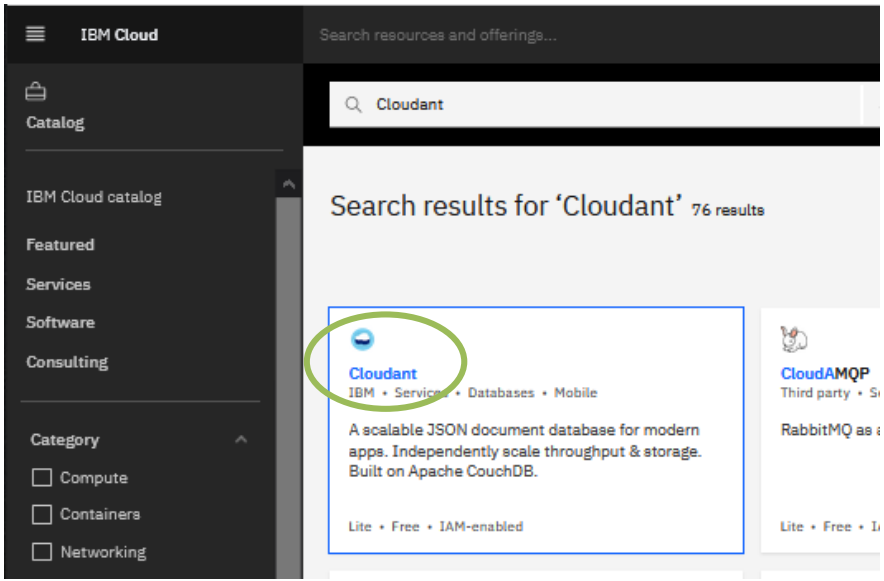
“Init binomes PoT IBM Watson IoTP CPT IBM Cloud Free 2020H2.pdf”

in directory Documentation

# Cloudant service creation

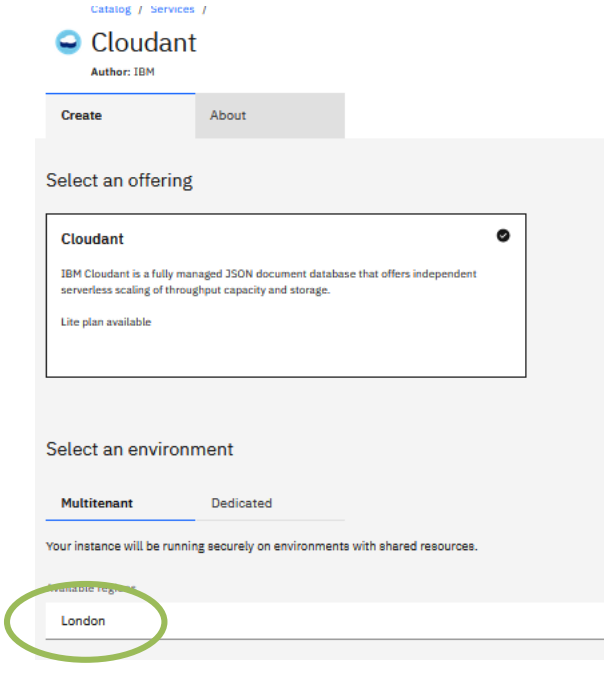
Click on IBM Cloud Catalog

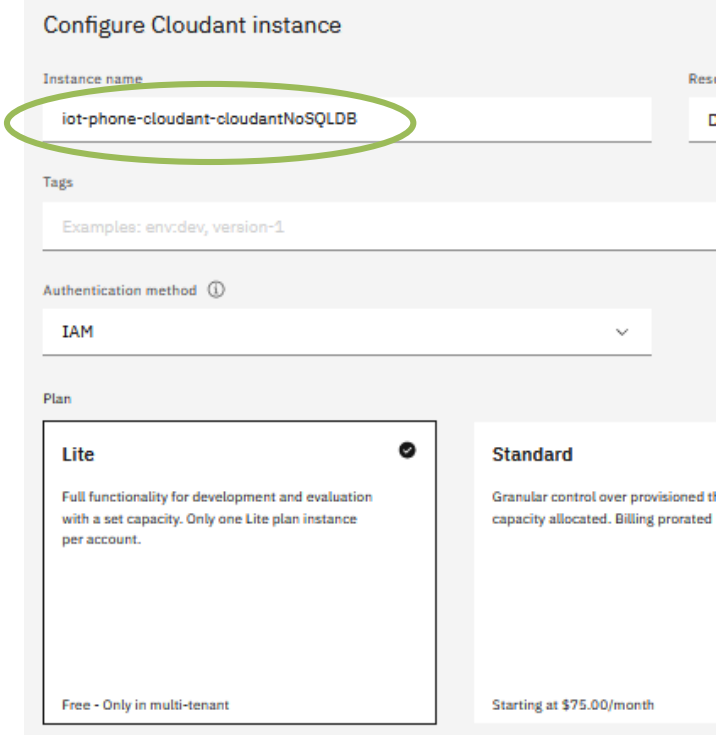
Search and select “Cloudant”



# Cloudant service creation

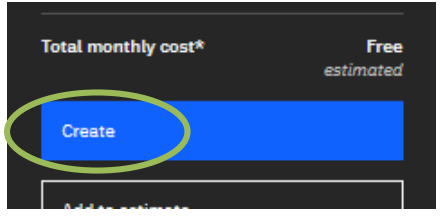
Select your region



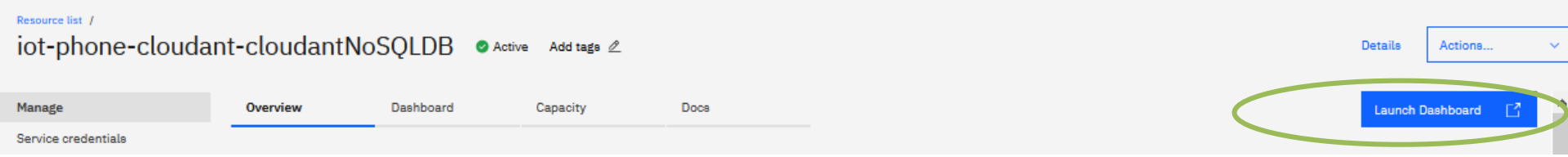




Enter the instance name :
**iot-phone-cloudant-cloudantNoSQLDB**

Then click “Create”



# Cloudant service configuration

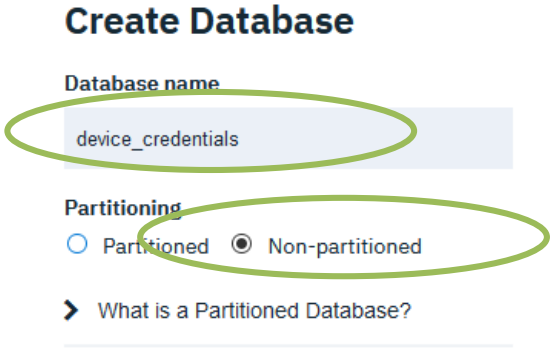



Click on the iot-phone-cloudant-cloudantNoSQLDB service then Click on Launch Dashboard

Then Create Database

Database name : device_credentials

Select: “Non-partitioned”

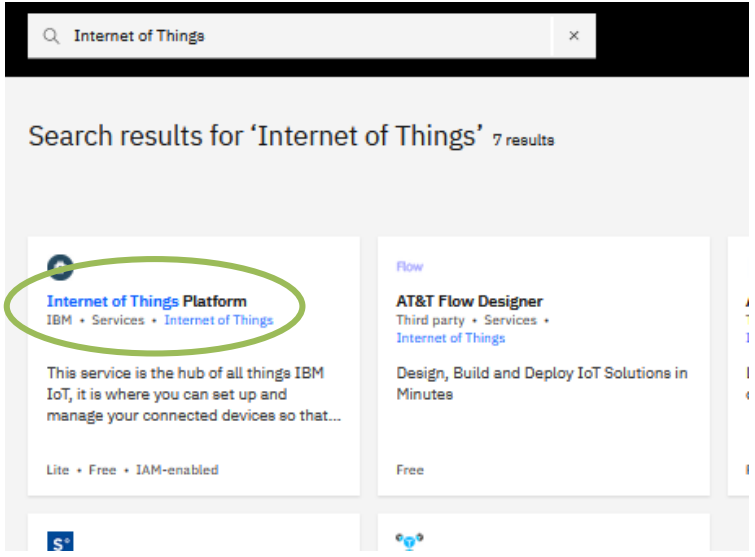



Then “Create”

# IoT service creation

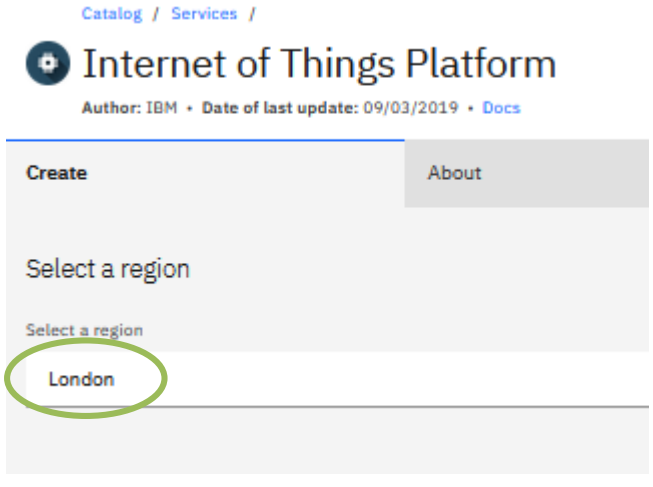
Click on IBM Cloud Catalog

Search and select “Internet of Things”



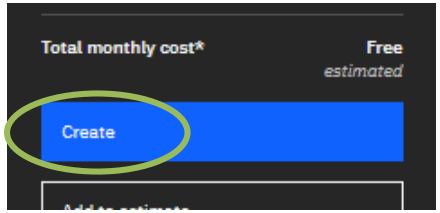
# IoT service creation

Select your region



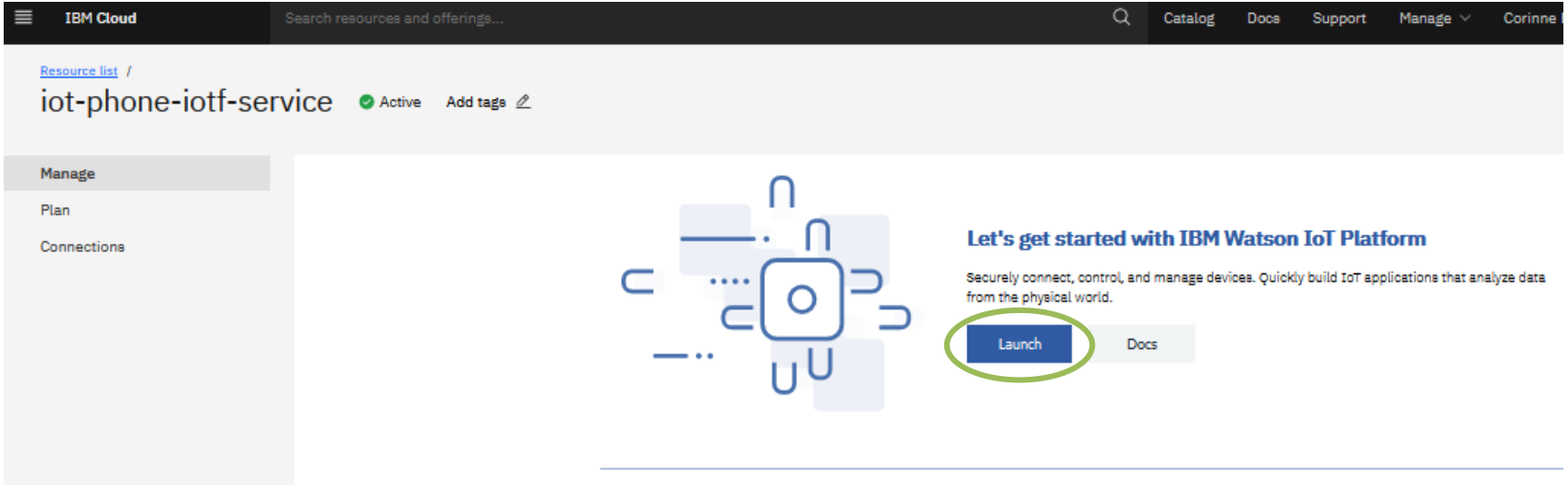
Enter the Service name :
**iot-phone-iotf-service**

Then click “Create”



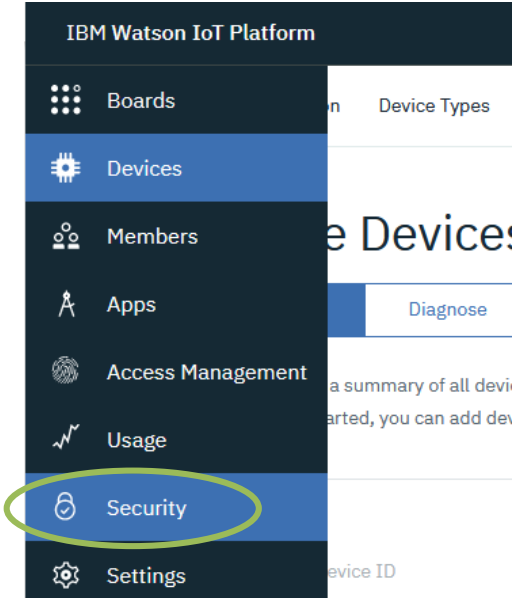
# IoT service configuration

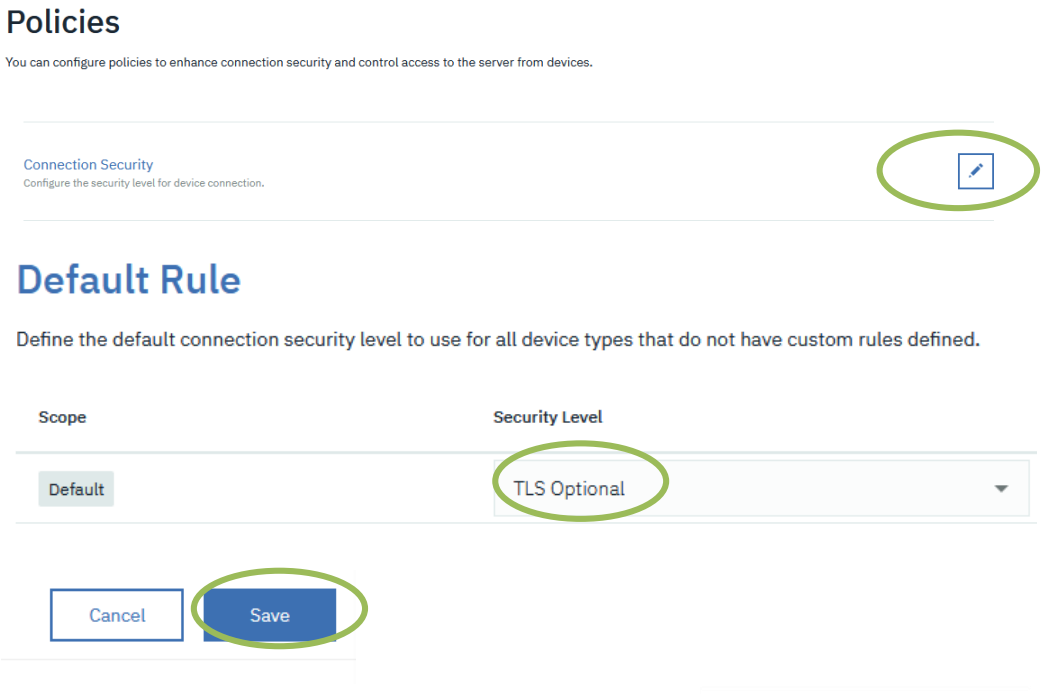
In the new window, click “Launch”



# IoT service configuration

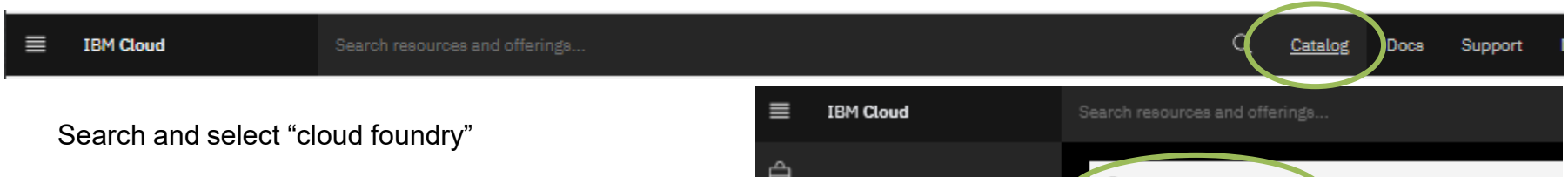
Select menu “Security” then “Connection Security” then “TLS Optional” then Save



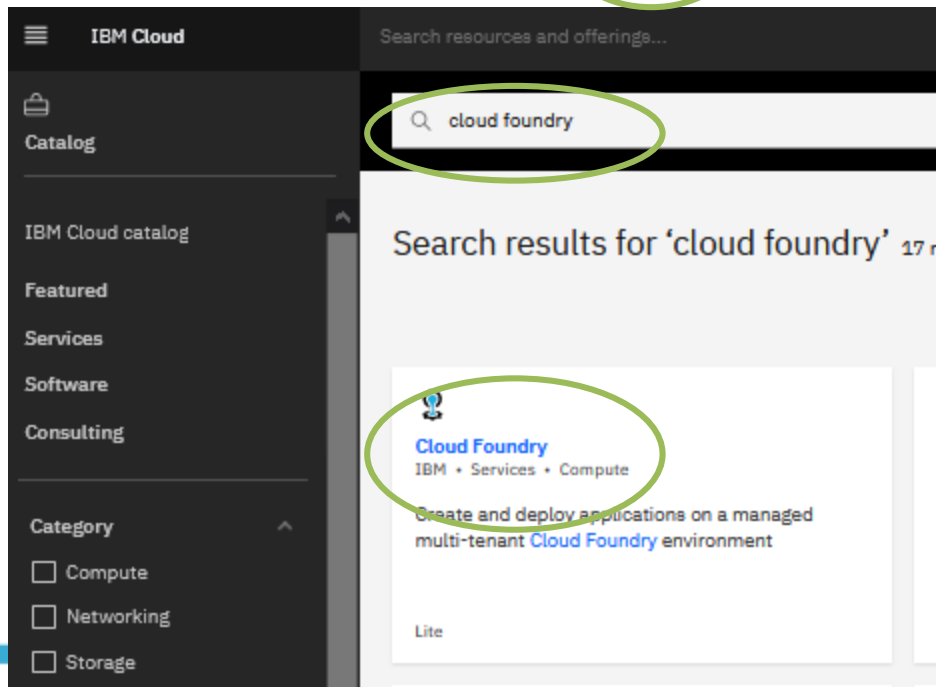



# Sample application creation

Click on IBM Cloud Catalog

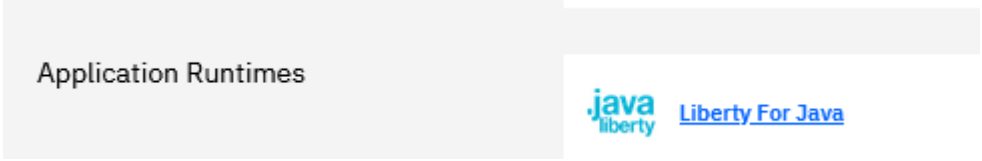



Search and select “cloud foundry”

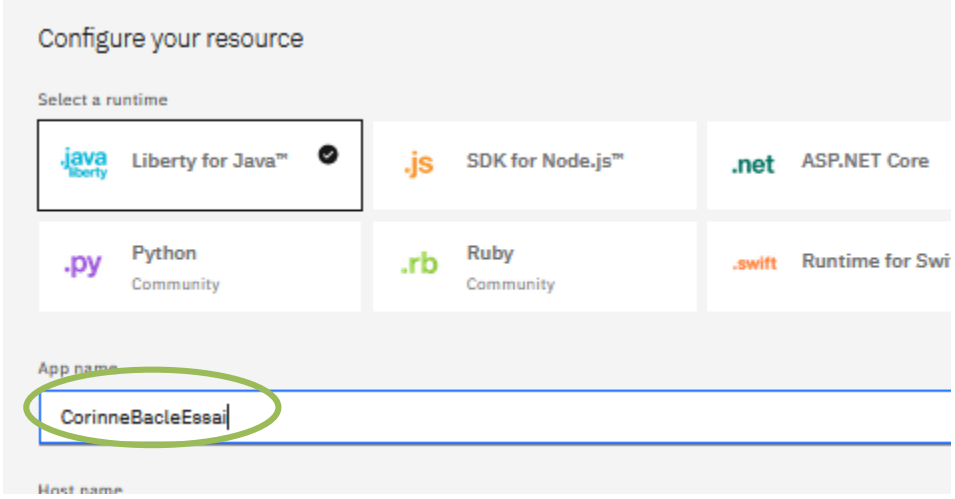


# Sample application connection creation

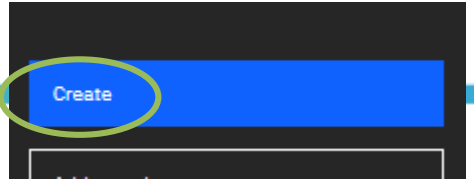
Click “Liverty For Java”




Select the region
Enter a unique name

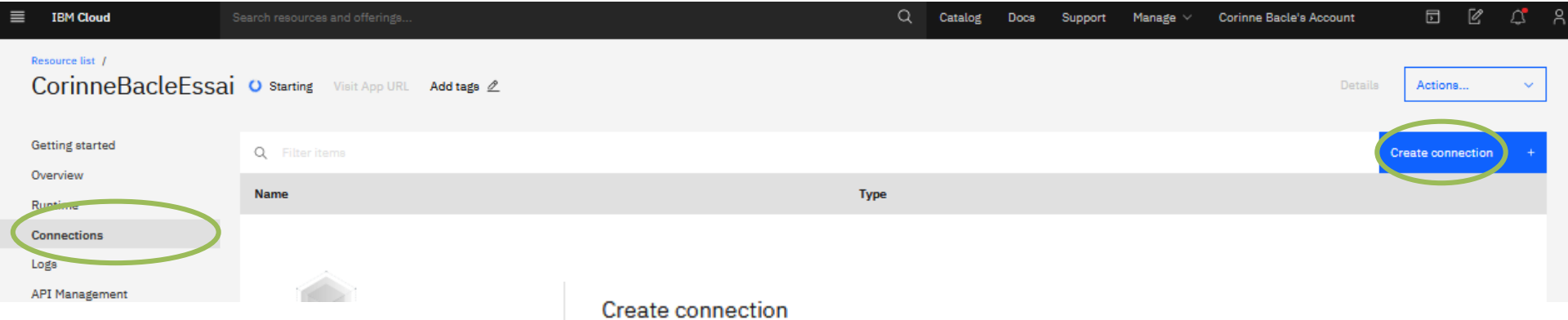


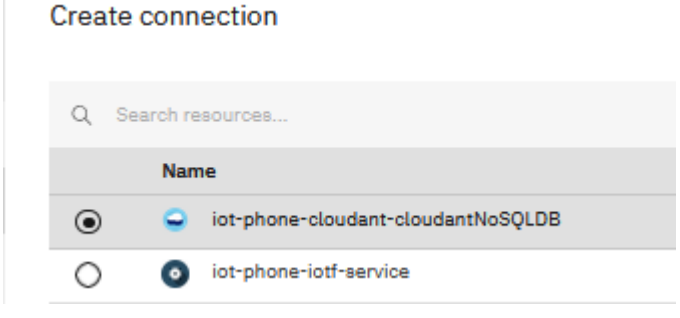

Then “Create”



# Sample application connection creation

Go to “Connections”

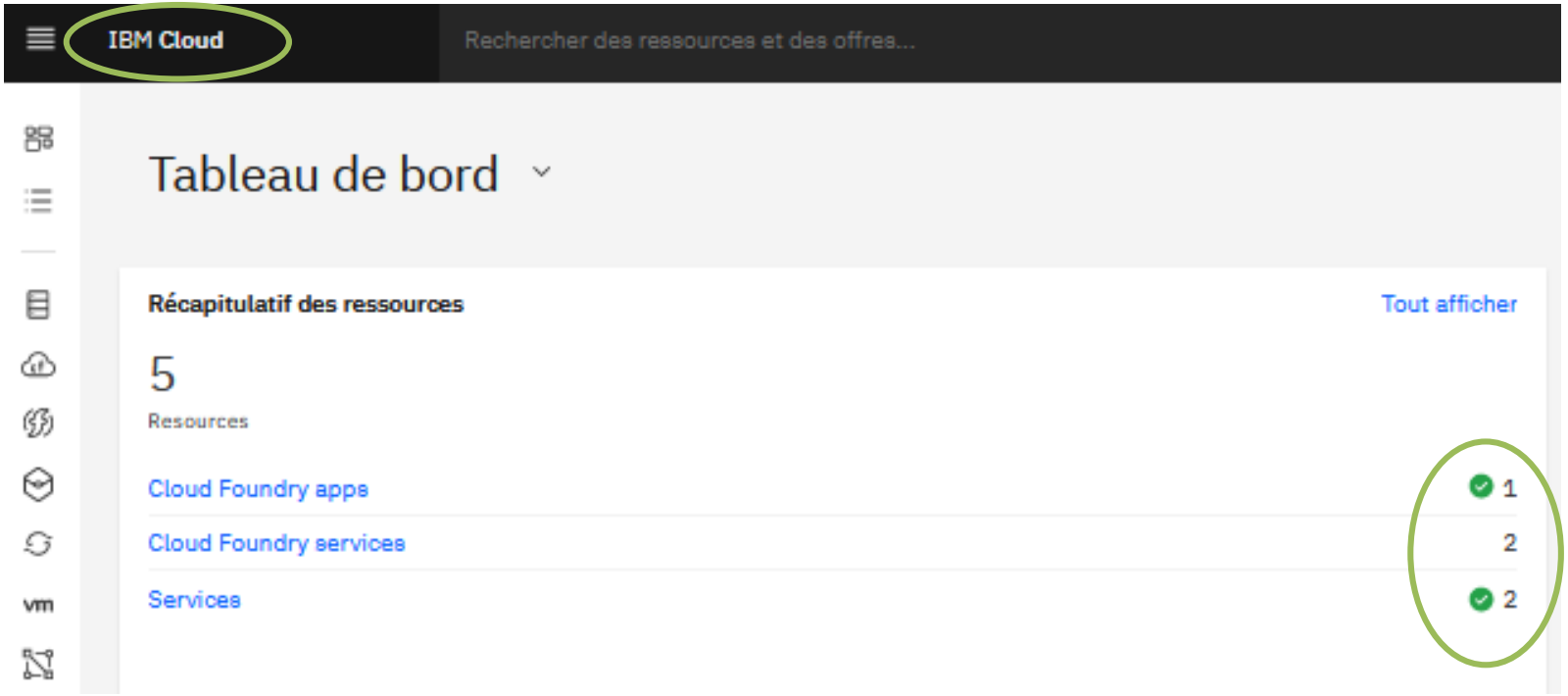



Select “Create connexion”
Select the IoT service
Select “Next”
Select “Writer” if requested
Then “Connect”
Then “Restage”

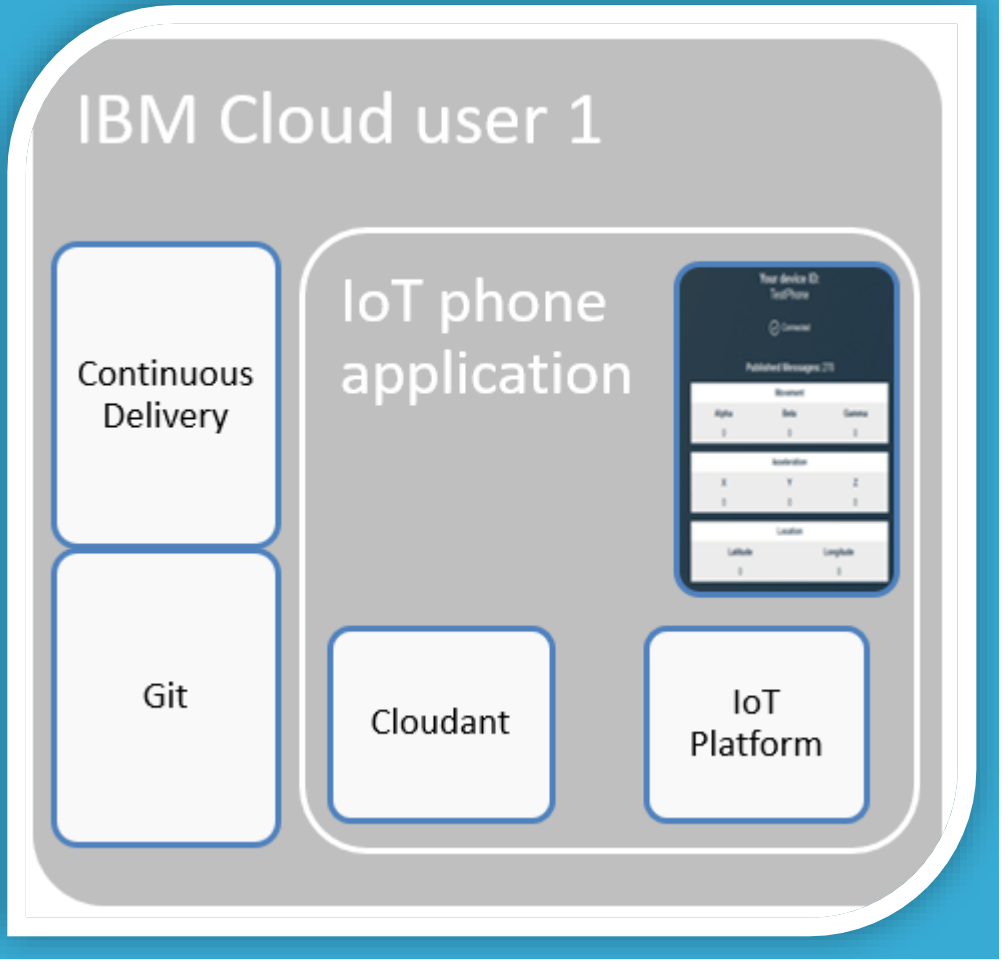
Do the same for the Cloudant service.

# Result


IBM Cloud
Rechercher des ressources et des offres...
Tableau de bord
Récapitulatif des ressources
Tout afficher
5
Resources
Cloud Foundry apps
1
Cloud Foundry services
2
Services
2
vm

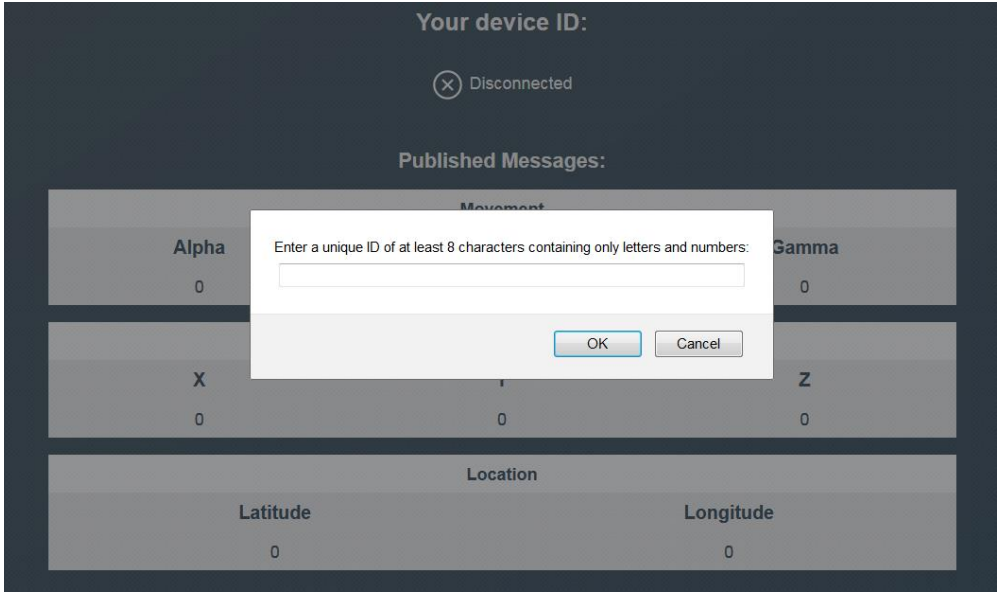
## IoTPhone Application

# User 1



# Create your own IoT Html 5 Phone application as user 1

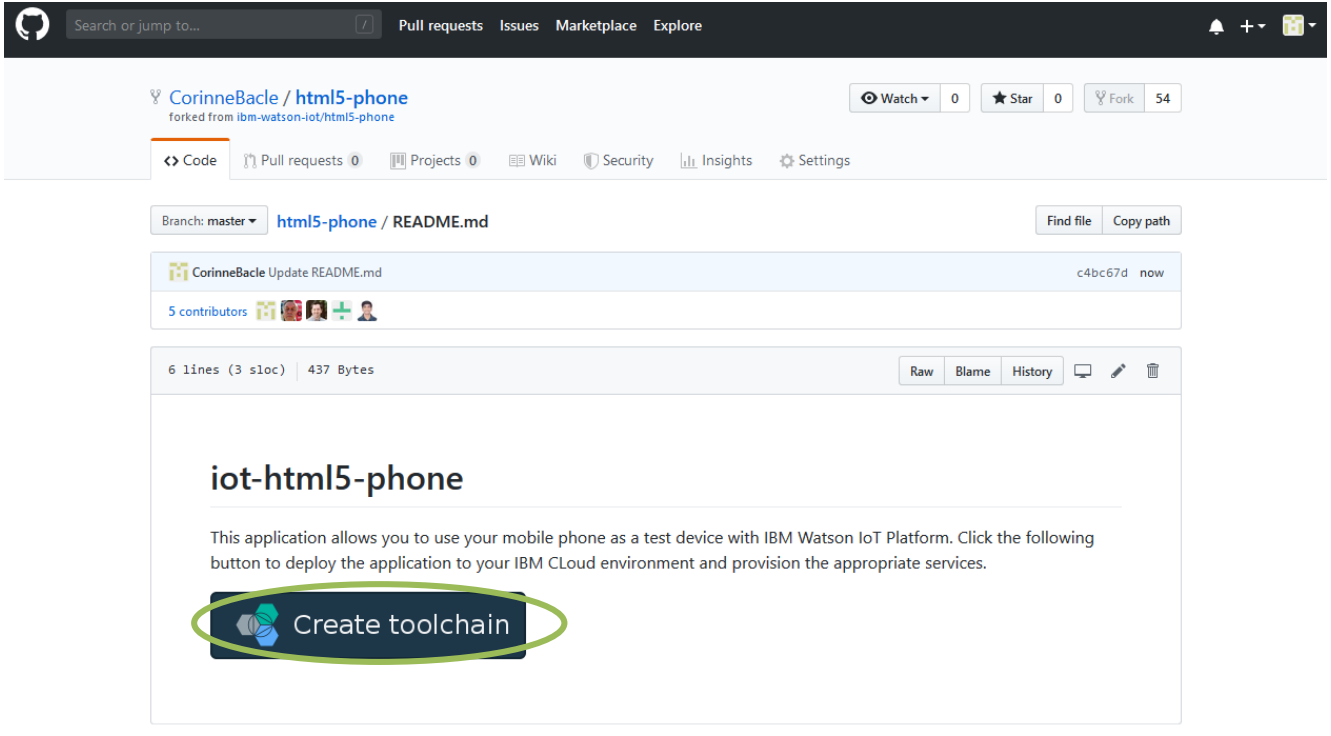
See next slides to create your own application




Log in https://cloud.ibm.com as **USER 1**

# Go to github

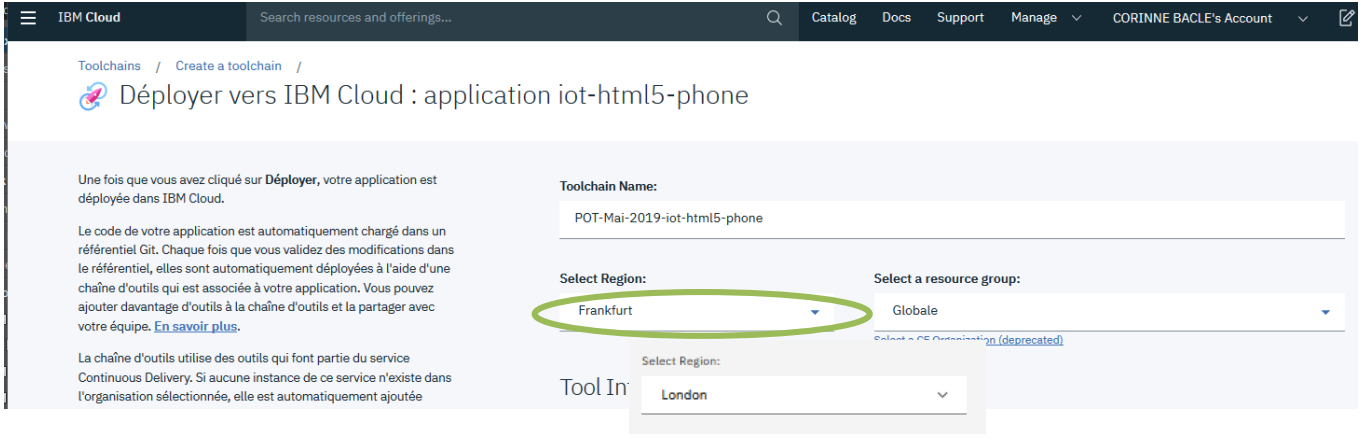
https://github.com/CorinneBacle/html5-phone

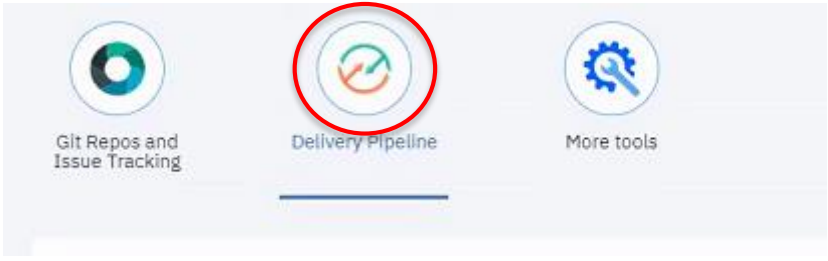


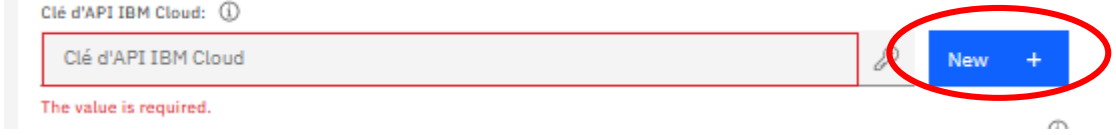

Go to the bottom and click Create toolchain

Select Region **Frankfurt** or **London** depending on where you have created your space in the previous steps

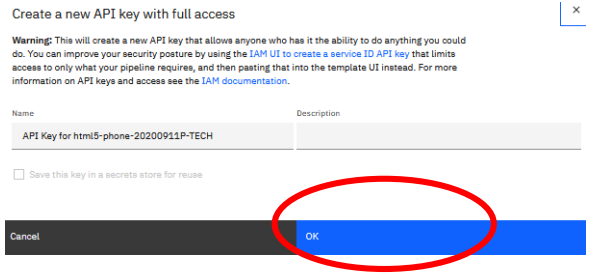
Change the application name with a shorter one



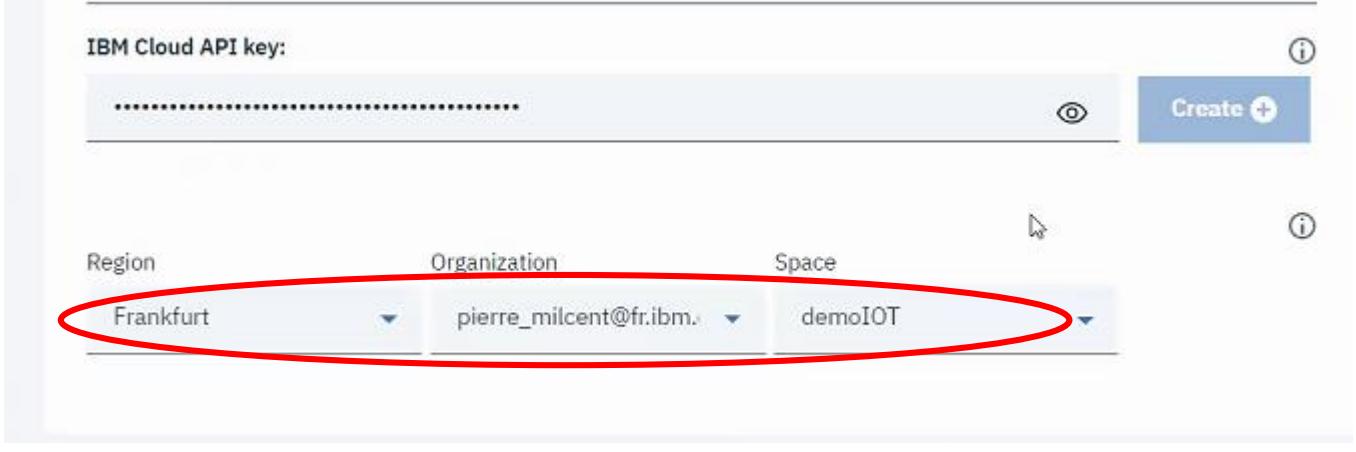



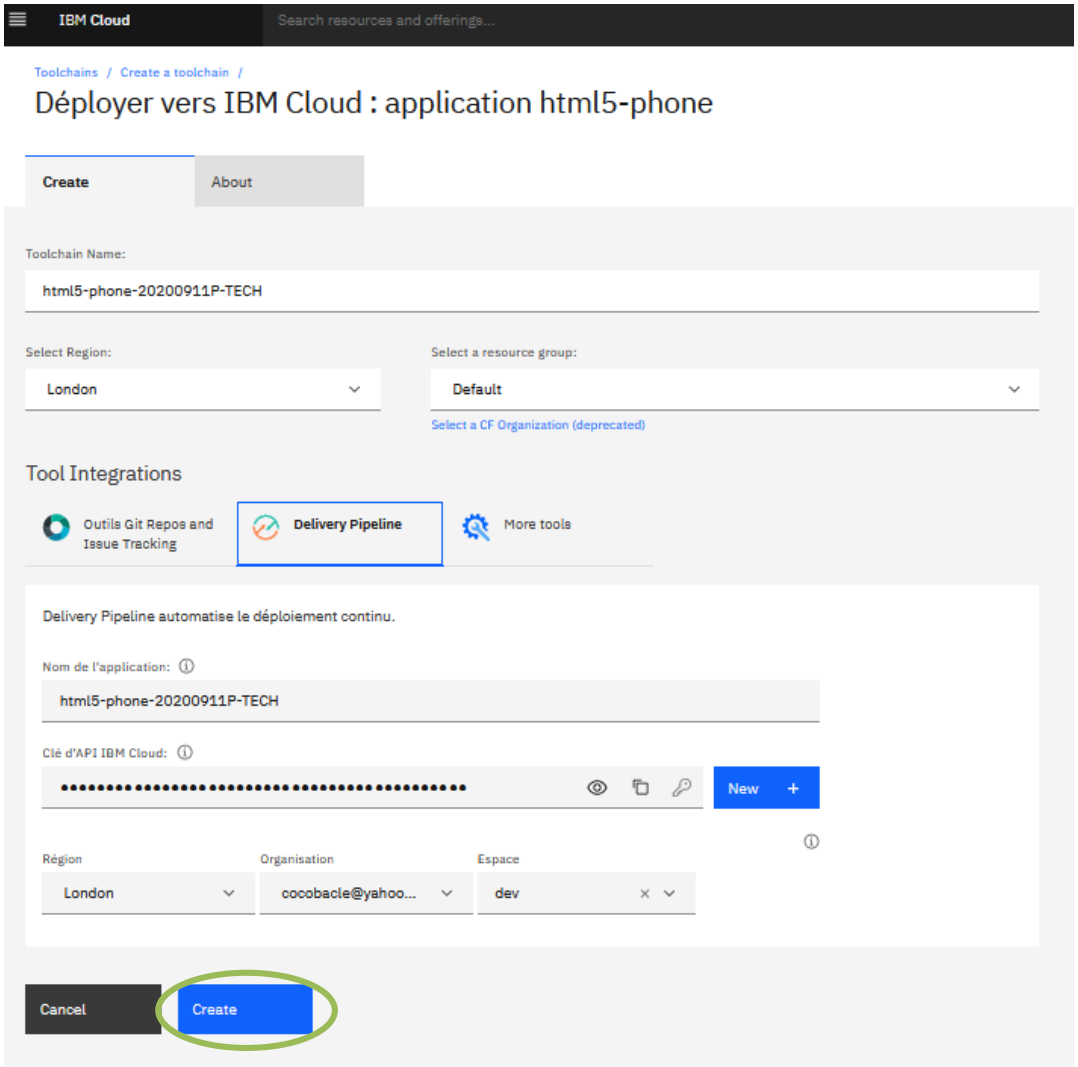



## Create the API Key

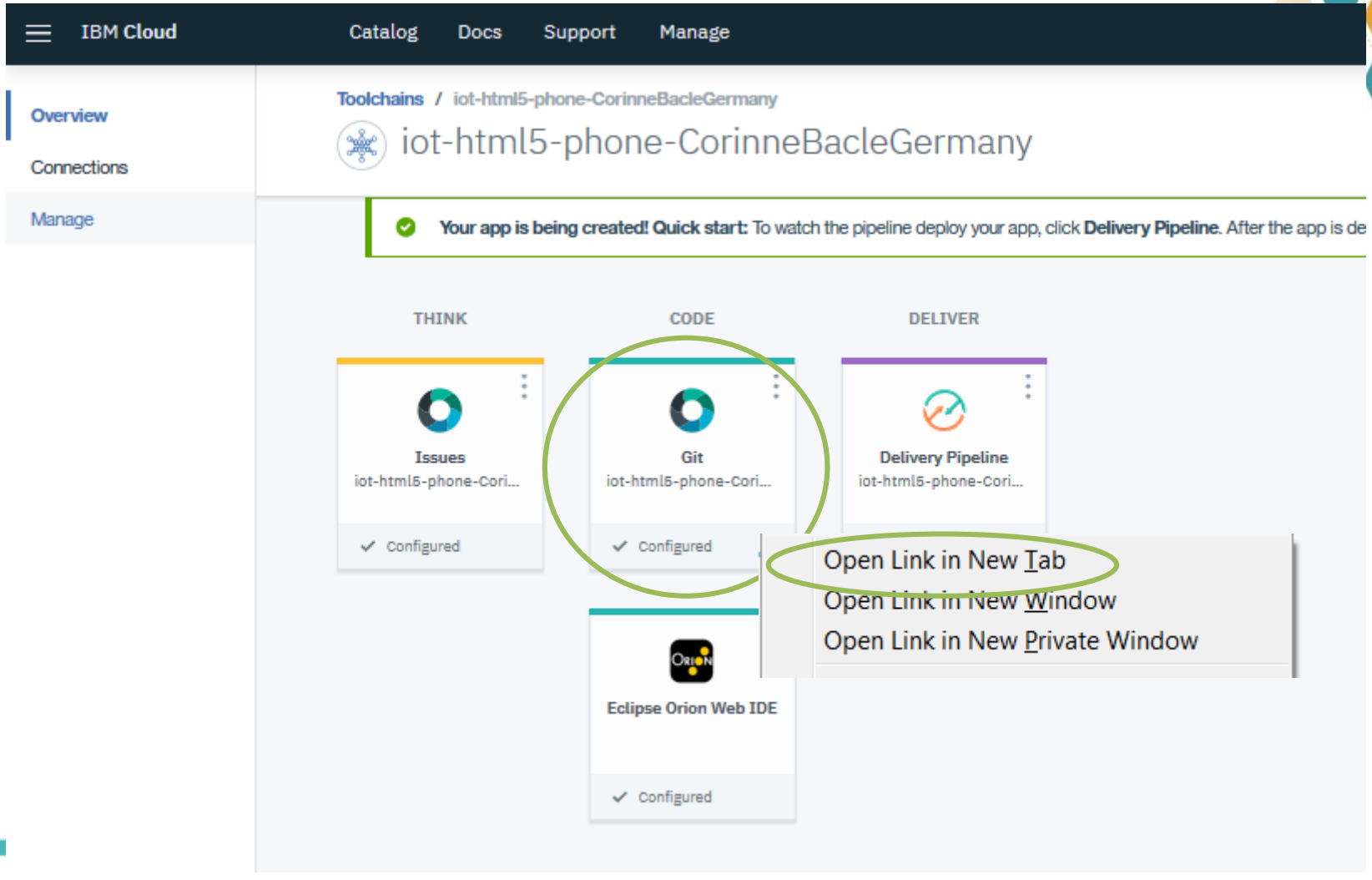



**Wait a little** to automatically get “Region” filled
Then Select your space
Then Deploy

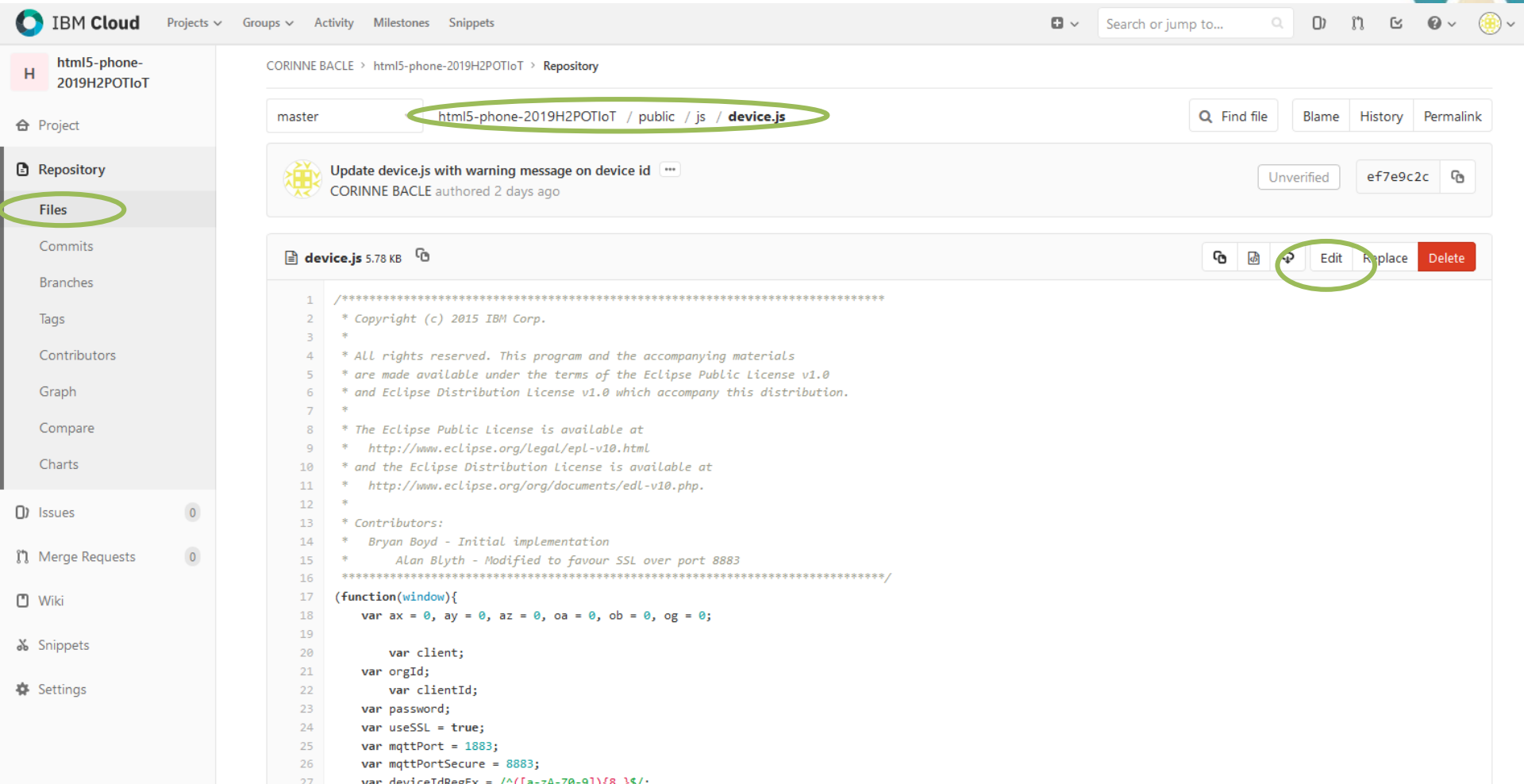




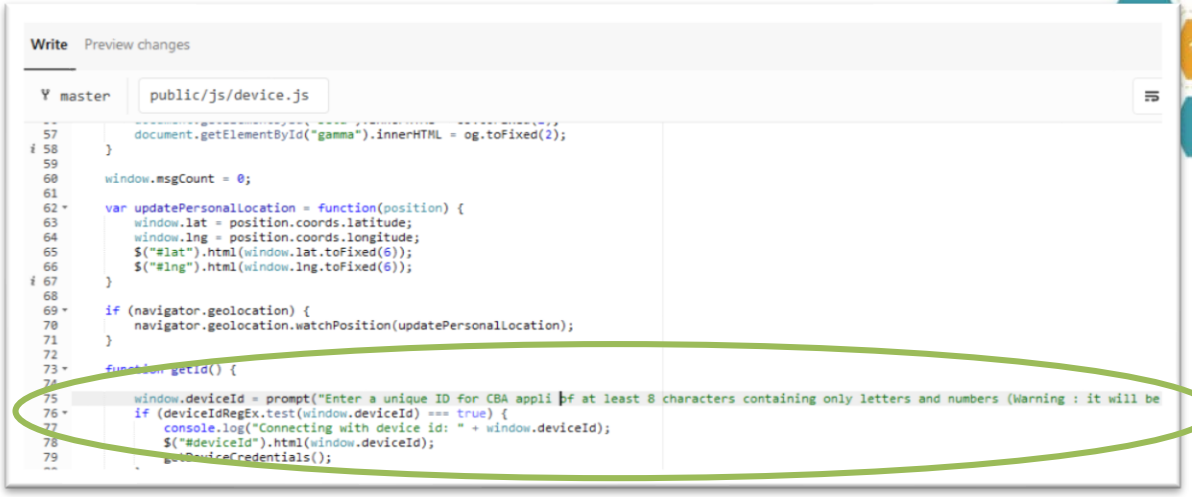

Then click “create”


IBM Cloud
Catalog
Docs
Support
Manage
Overview
Connections
Manage
Toolchains / iot-html5-phone-CorinneBacleGermany
iot-html5-phone-CorinneBacleGermany
Your app is being created! Quick start: To watch the pipeline deploy your app, click Delivery Pipeline. After the app is de
THINK
CODE
DELIVER
Issues
iot-html5-phone-Cori...
Configured
Git
iot-html5-phone-Cori...
Configured
Delivery Pipeline
iot-html5-phone-Cori...
Open Link in New Tab
Open Link in New Window
Open Link in New Private Window
Eclipse Orion Web IDE
Configured

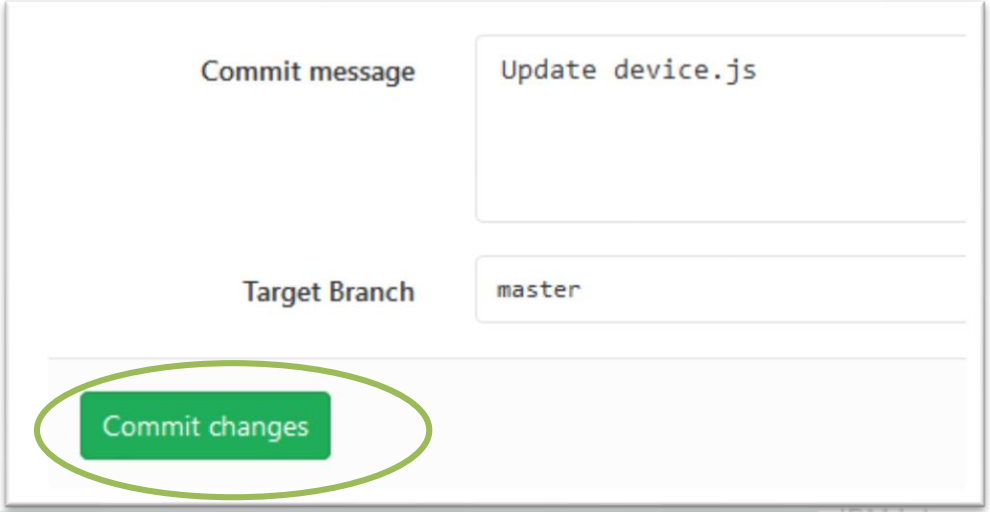
# Go to Repository / Files, It's your own code, you can modify it



For example change the prompt message:




then in the bottom :



# Option : changer l'image de fond

Modifier le fichier public/stylesheets/device.css partie body puis background-image

Voir une explication ici:

http://css.mammouthland.net/image-de-fond-background-css.php

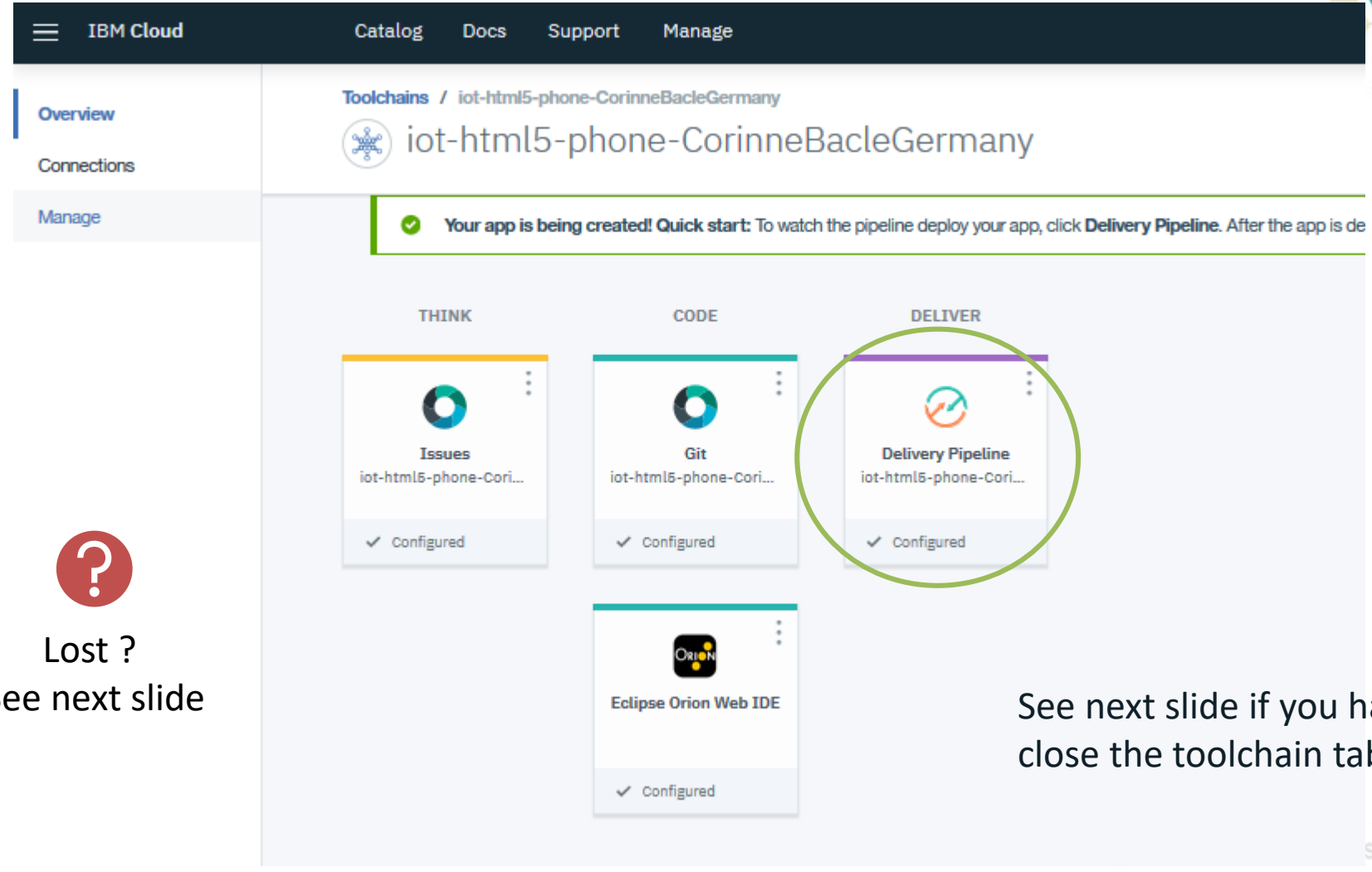
Remplacer

```
body {
background-image: linear-gradient(to bottom right, #2d3f4a, #1d3649);
margin: 0;
padding: 0;
}
```

Par

```
body {
color:black; background-color:white;
background-image:url(images/image_de_fond.png);
}
```

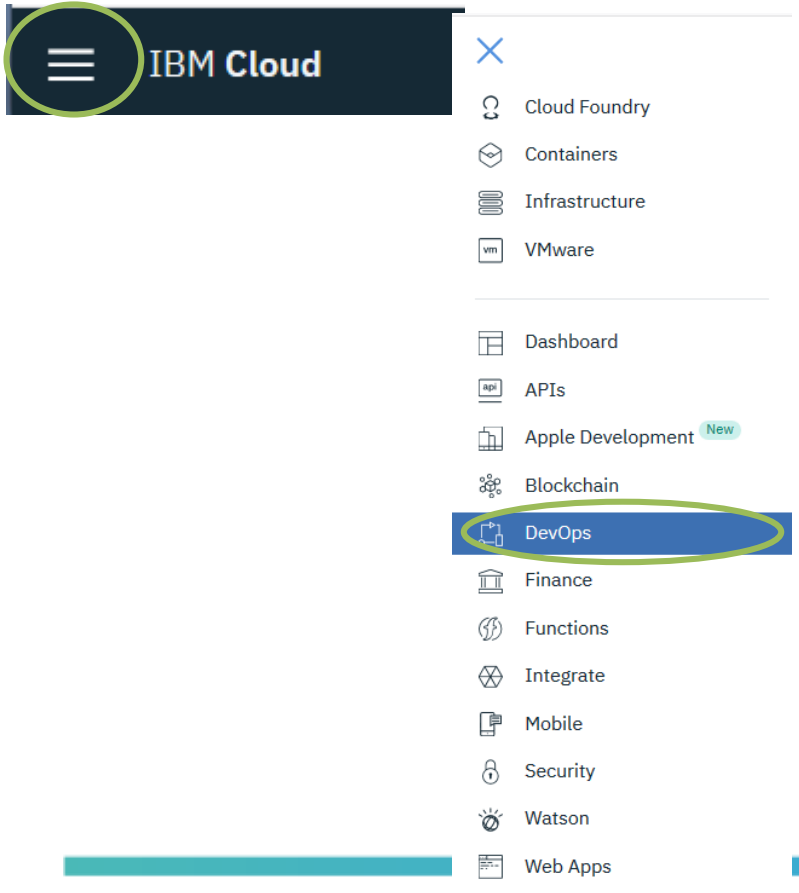
Et ajouter votre image dans un repertoire images à la racine avec le bon nom.

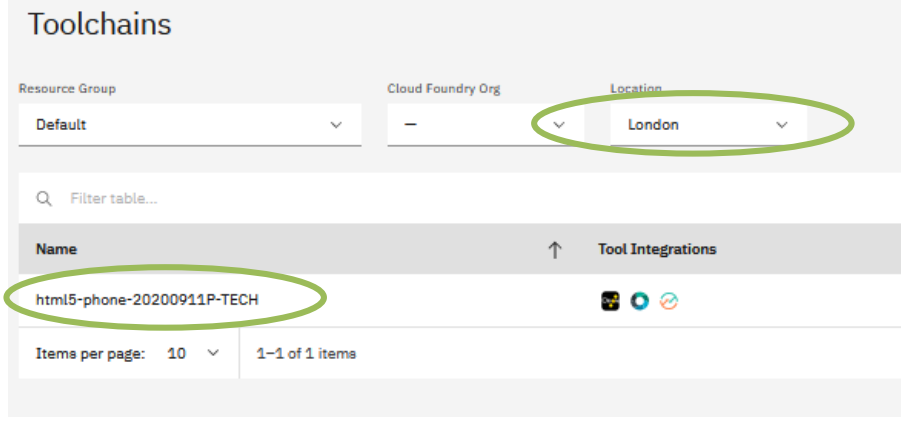



Lost ?
See next slide

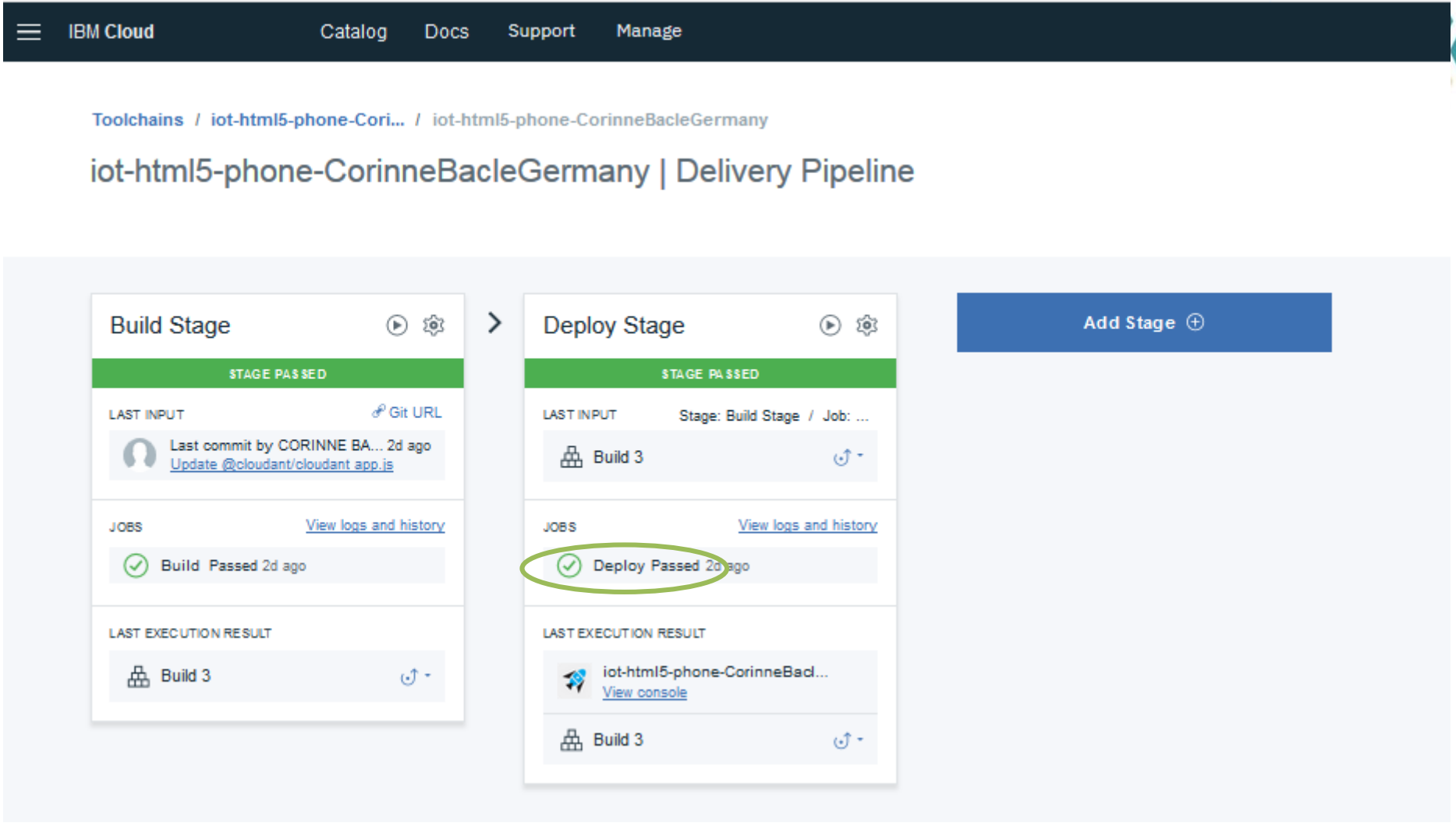
See next slide if you have close the toolchain tab

# How to find the toolchain if you have closed the tab:

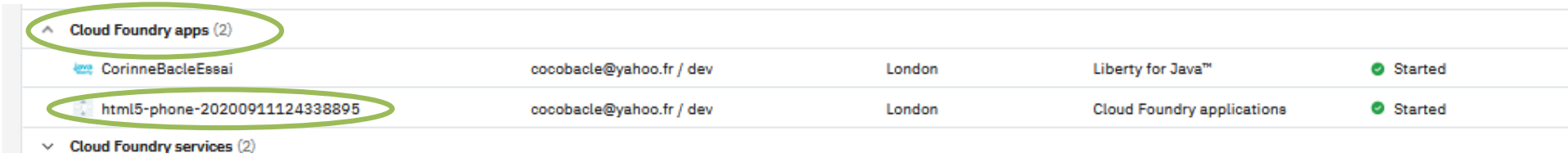


Check deployment status :



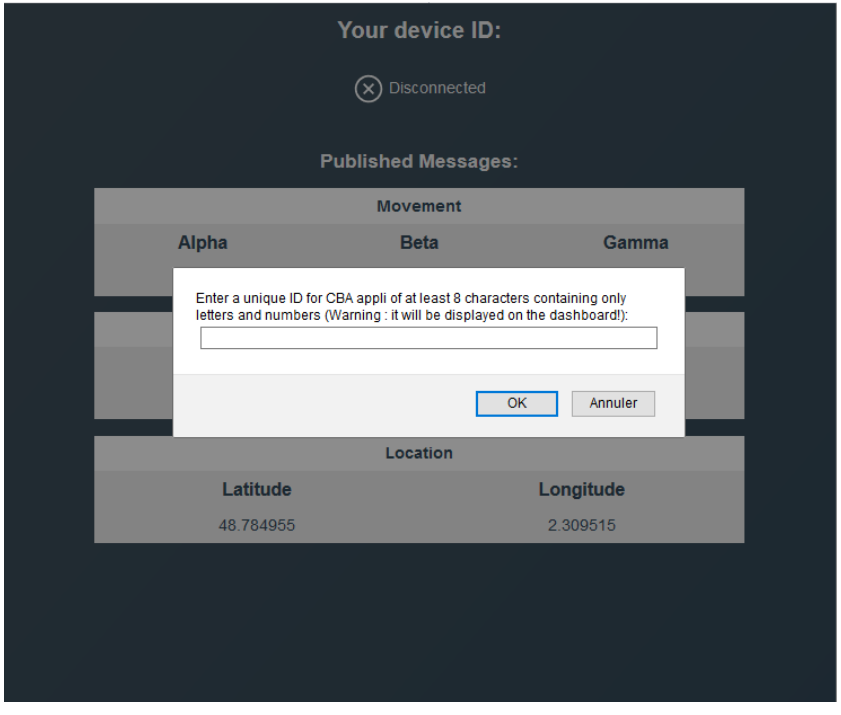
# Find the application: https://cloud.ibm.com/resources



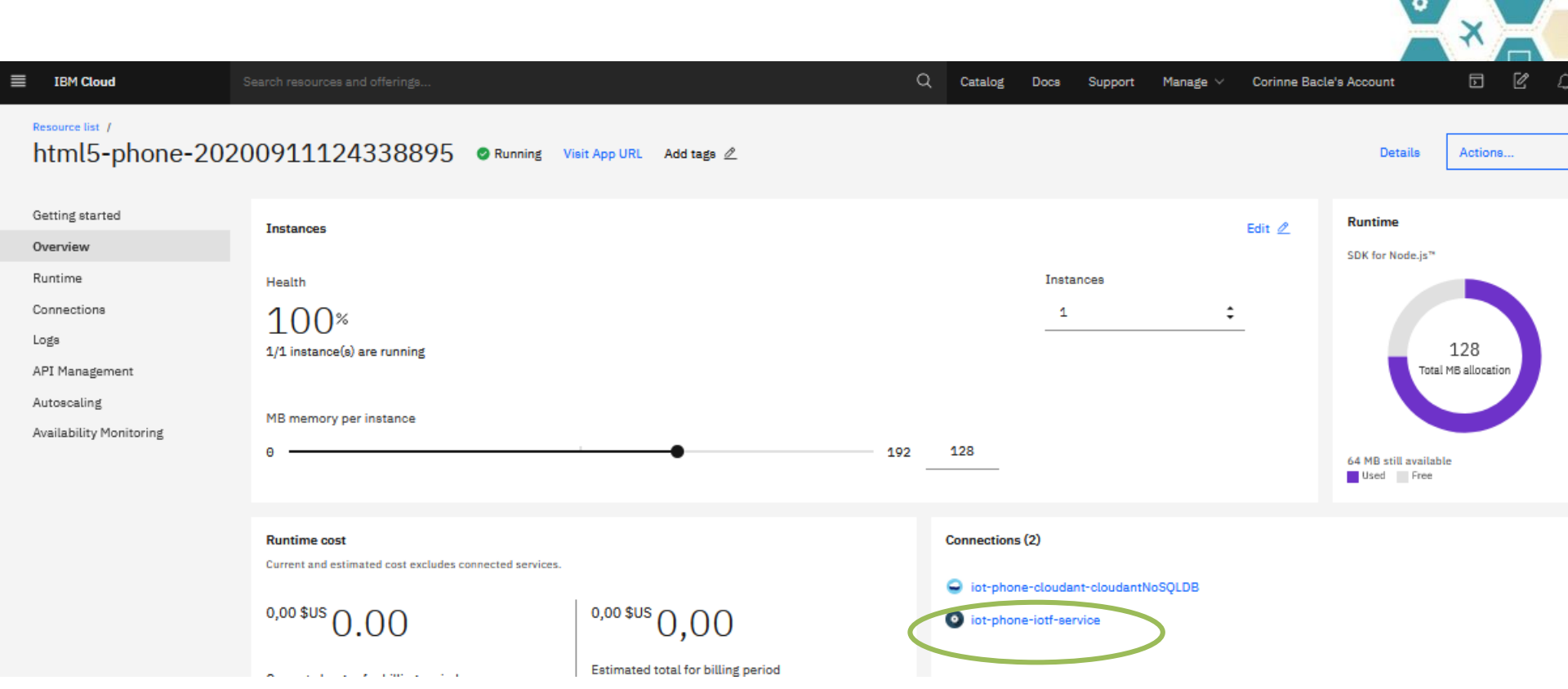
Use the link to view your app on your phone
You can create your own QR Code
If you enter a unique ID, don't let it open !!
Click Refresh to stop data transfert…

Si vous avez un IPhone : La version IOS ne permet pas d'accéder à l'accéléromètre et au gyroscope depuis Safari de façon simple.

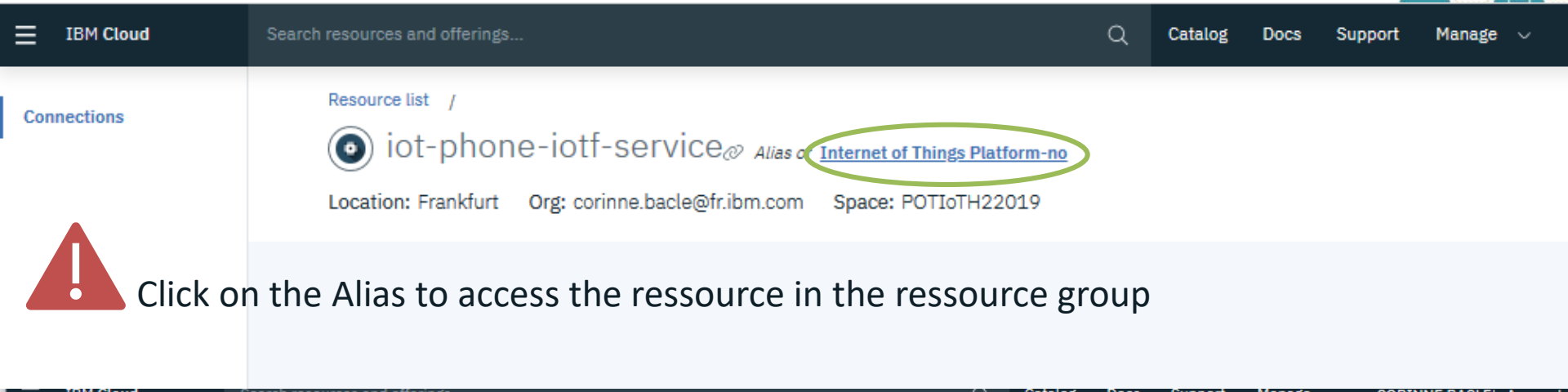
# Open the appli on your phone/tablet



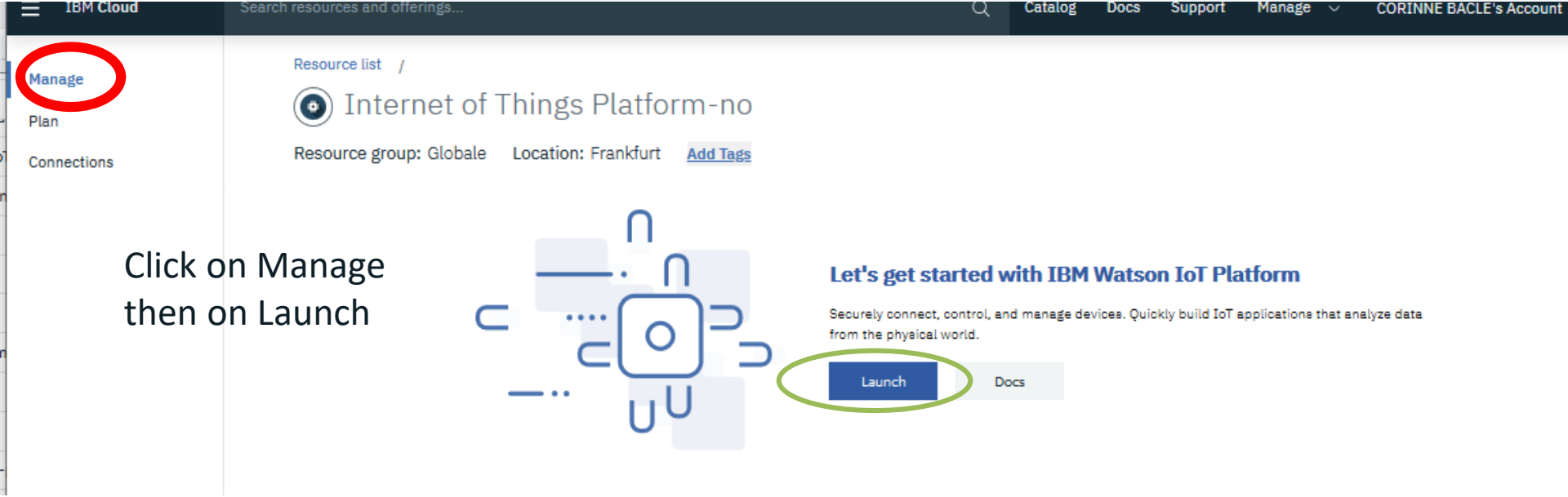

You can create your own QR Code
Using a free QR Code generator
If you enter a unique ID, don't let it open !!
Click Refresh to stop data transfert…



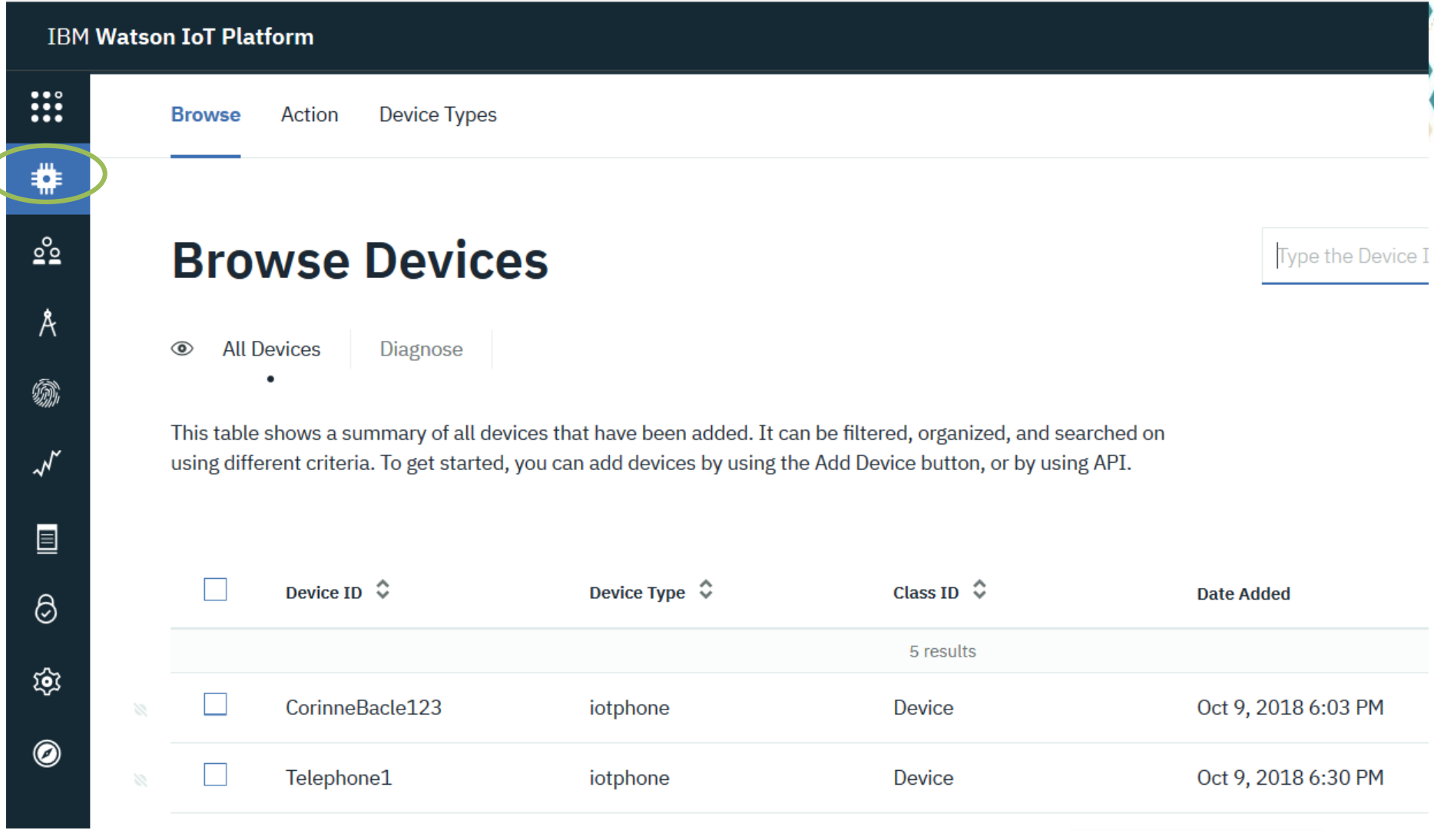

To access your IoTPlatform
Click on the connection
Then See next slide



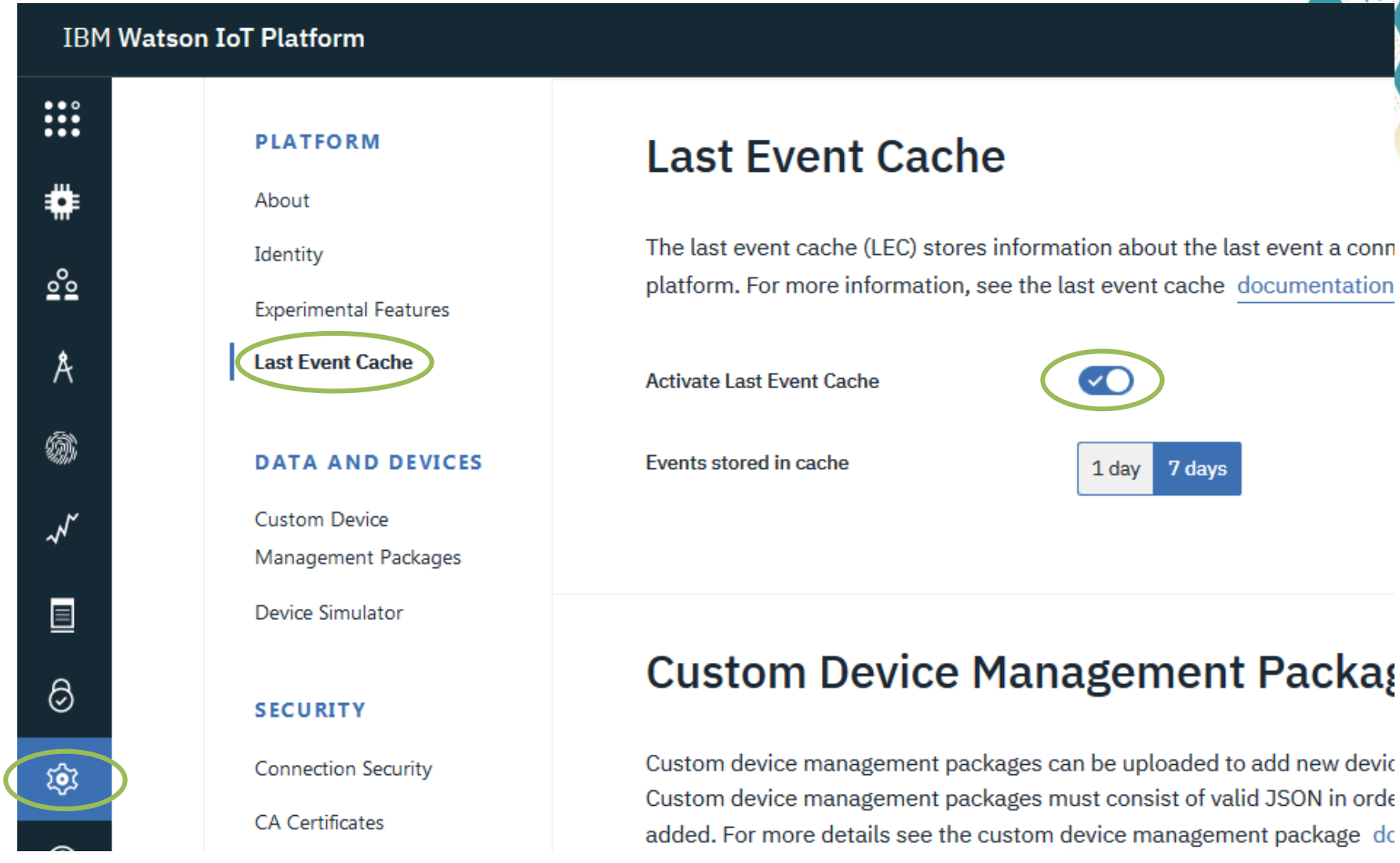

Click on the Alias to access the ressource in the ressource group




Click on Manage
then on Launch


IBM Watson IoT Platform
Browse
Action
Device Types
Browse Devices
Type the Device I
All Devices
Diagnose
This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.
Device ID
Device Type
Class ID
Date Added
5 results
CorinneBacle123
iotphone
Device
Oct 9, 2018 6:03 PM
Telephone1
iotphone
Device
Oct 9, 2018 6:30 PM

# Configure last event cache feature in the IoT Platform (for all)


IBM Watson IoT Platform
PLATFORM
About
Identity
Experimental Features
Last Event Cache
DATA AND DEVICES
Custom Device Management Packages
Device Simulator
SECURITY
Connection Security
CA Certificates
Last Event Cache
The last event cache (LEC) stores information about the last event a conn
platform. For more information, see the last event cache documentation
Activate Last Event Cache
Events stored in cache
1 day
7 days
Custom Device Management Packag
Custom device management packages can be uploaded to add new devic
Custom device management packages must consist of valid JSON in orde
added. For more details see the custom device management package do