

Prerequisites

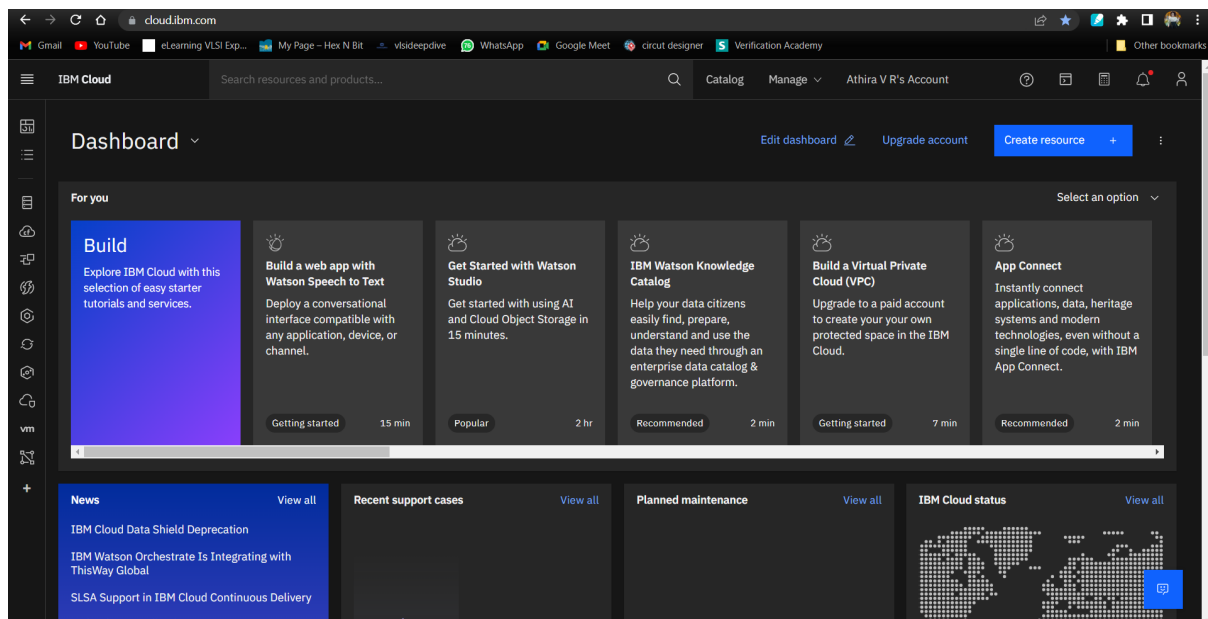
Date	16 November 2022
Team ID	PNT2022TMID47460
Project Name	Project - Industry-Specific Intelligent Fire Management System

Prerequisites:

To complete this project, the prerequisites are

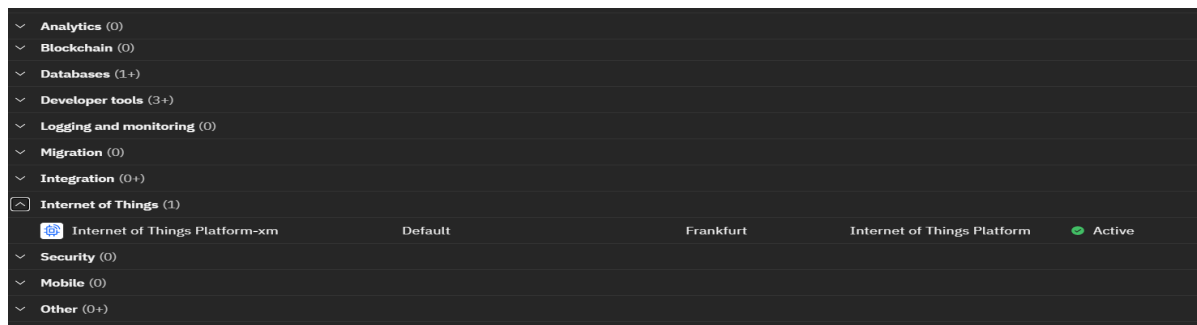
- IBM Cloud Services
 - * IBM Watson IoT Platform
 - * Node-RED Service
 - * Cloudant DB
- Software
 - * Python

IBM Cloud Services



IBM Watson IoT Platform

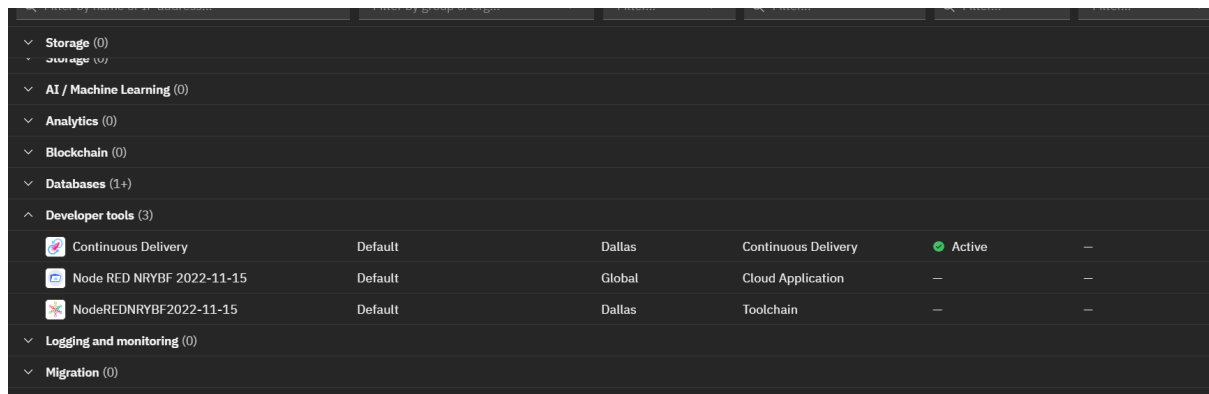
IBM Watson IoT platform acts as the mediator to connect the web application to IoT device, so create the IBM Watson IoT platform



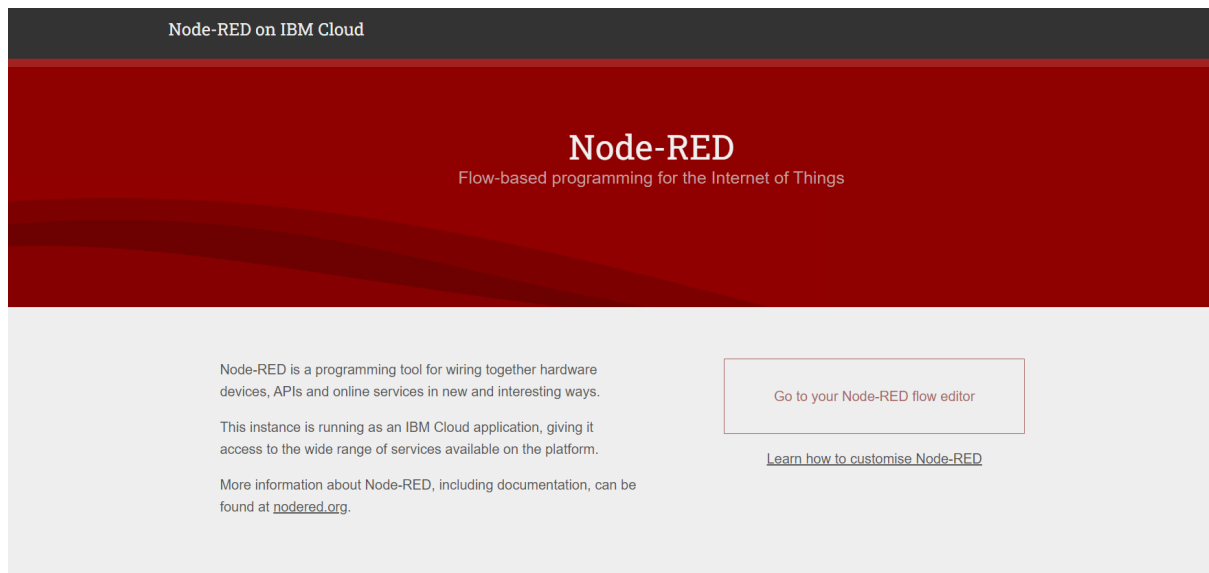
Analytics (0)					
Blockchain (0)					
Databases (1+)					
Developer tools (3+)					
Logging and monitoring (0)					
Migration (0)					
Integration (0+)					
Internet of Things (1)					
Internet of Things Platform-xm	Default	Frankfurt	Internet of Things Platform	Active	
Security (0)					
Mobile (0)					
Other (0+)					

Node-Red

To create a web application, we need to create a Node-RED service.



Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (1+)					
Developer tools (3)					
Continuous Delivery	Default	Dallas	Continuous Delivery	Active	—
Node RED NRYBF 2022-11-15	Default	Global	Cloud Application	—	—
NodeREDNRYBF2022-11-15	Default	Dallas	Toolchain	—	—
Logging and monitoring (0)					
Migration (0)					



Node-RED on IBM Cloud

Node-RED

Flow-based programming for the Internet of Things

Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways.

This instance is running as an IBM Cloud application, giving it access to the wide range of services available on the platform.


More information about Node-RED, including documentation, can be found at nodered.org.

[Go to your Node-RED flow editor](#)

[Learn how to customise Node-RED](#)

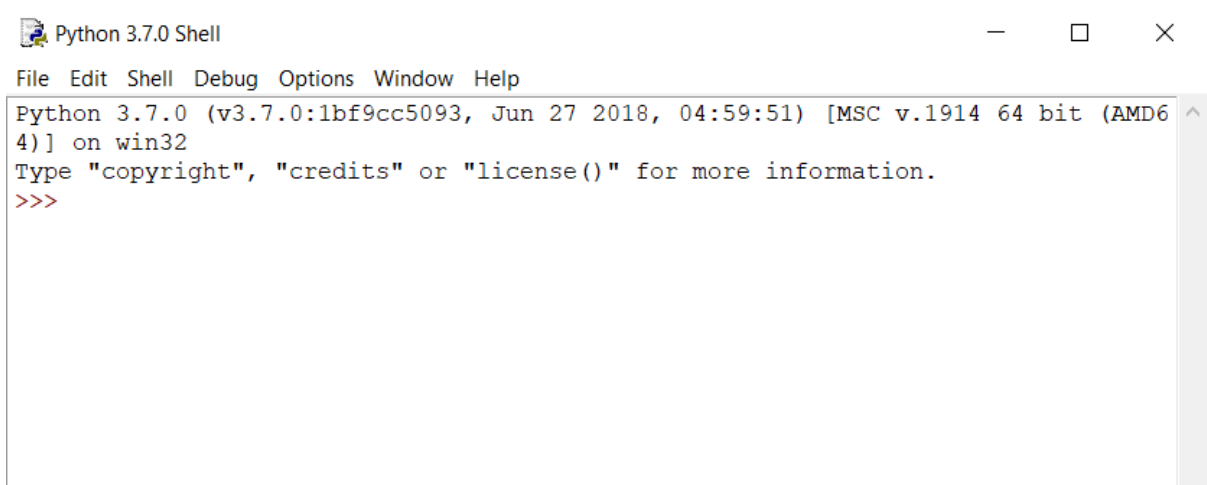
Cloudant DB

To store the sensor values, Cloud db is created.

Analytics (0)					
Blockchain (0)					
Databases (1)					
 Cloudant-x8	Default	London	Cloudant	Active	—

Python

To Develop a python script to publish random sensor data to the IBM IoT platform, we need to install Python 3.7.0 Shell



```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
```