

PROJECT DEVELOPMENT PHASE

SPRINT 2

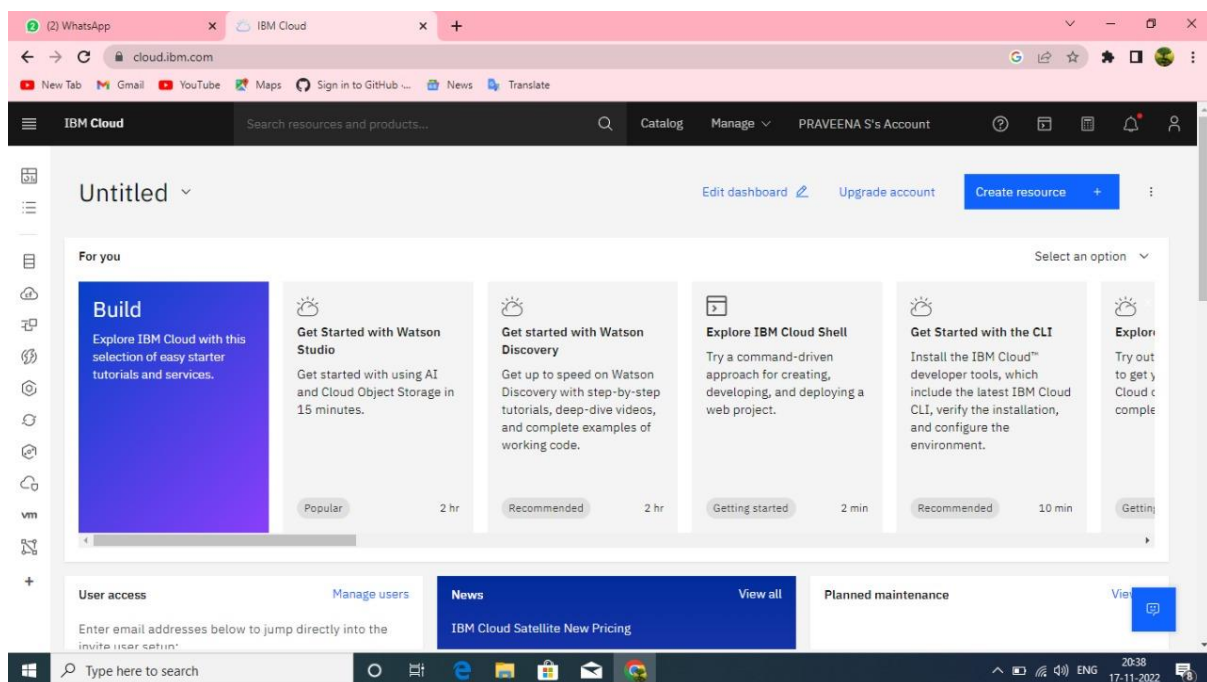
Date	16 November 2022
Team ID	PNT2022TMID13542
Project name	Hazardous area monitoring for industrial power plants by IoT
Maximum marks	2 marks

ANALYZE THE PREREQUISITES

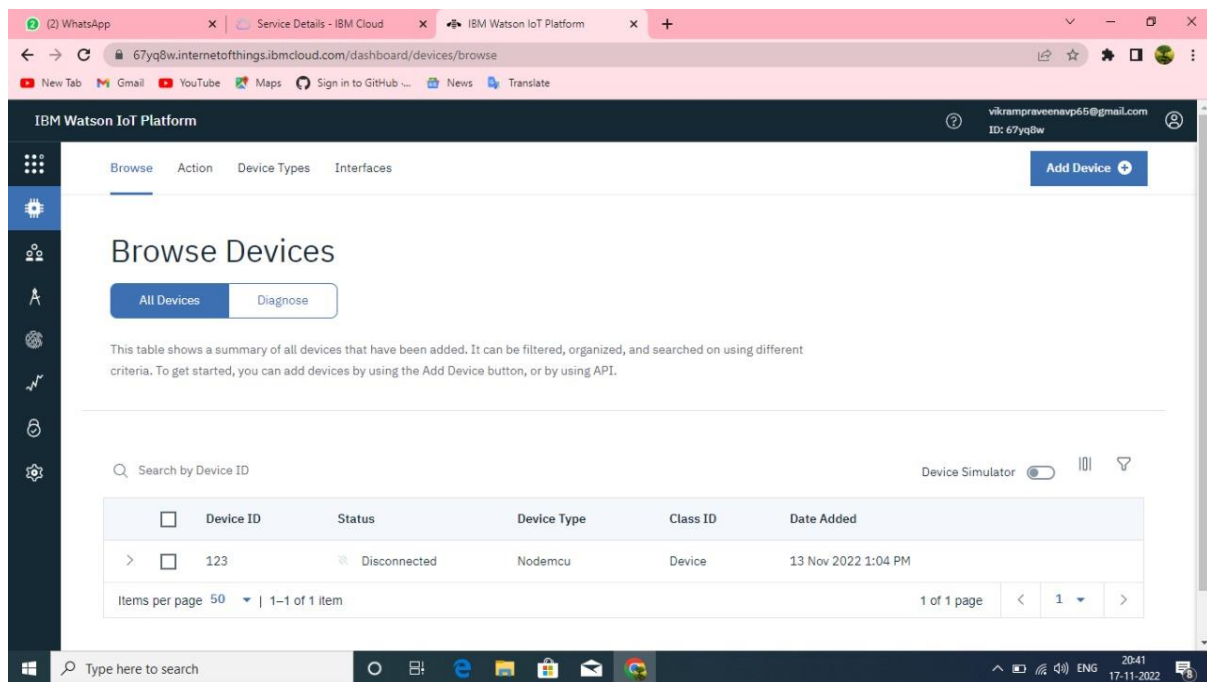
Needed prerequisites for real time river water quality monitoring and control system using Internet Of Things (IoT) were

- ❖ IBM Watson IoT Platform
- ❖ Node-RED Service
- ❖ Cloudant DB

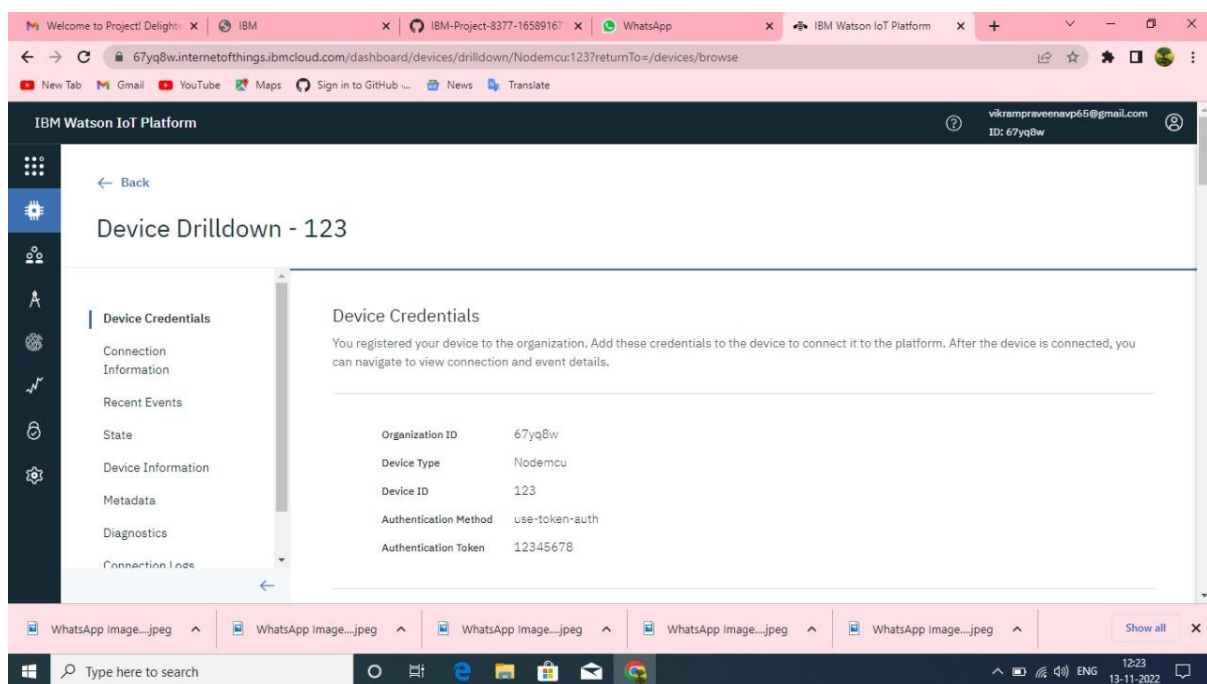
Creation of IBM cloud



Procedure for the creation of IBM IOT watson



Device creation



Generation of random values in IBM Watson

IBM Watson IoT Platform

67yq8w.internetofthings.ibmcloud.com/dashboard/devices/browse

Device ID: 123, Status: Disconnected, Device type: Nodemcu, Class ID: Device, Date Added: 13 Nov 2022 12:23 PM

Identity, Device Information, Recent Events, State, Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
eventflow	{"temperature":98}	json	a few seconds ago
eventflow	{"temperature":90}	json	a few seconds ago
eventflow	{"temperature":92}	json	a few seconds ago
eventflow	{"temperature":96}		
eventflow	{"temperature":94}		

1 Simulation running

NODE-RED

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](#)