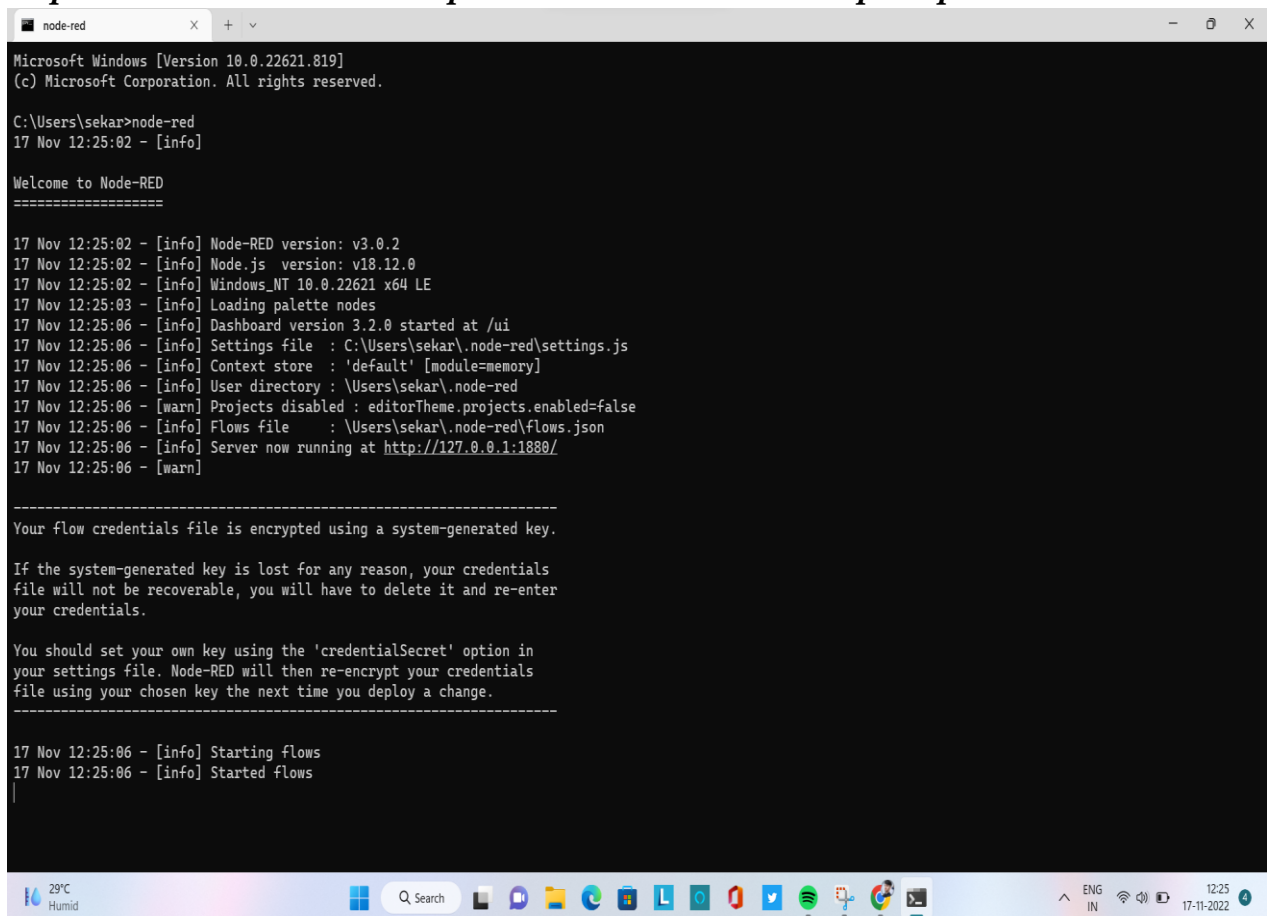


Create and Configure IBM Cloud Services

Create NODE RED Service

Date	1 November 2022
Team ID	PNT2022TMDT47477
Project Name	IoT BASED SMART CROP PRTECTION SYSTEM FOR AGRICULTURE

Step1: Install node red and open node red in command prompt



```
Microsoft Windows [Version 10.0.22621.819]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sekar>node-red
17 Nov 12:25:02 - [info]

Welcome to Node-RED
=====

17 Nov 12:25:02 - [info] Node-RED version: v3.0.2
17 Nov 12:25:02 - [info] Node.js version: v18.12.0
17 Nov 12:25:02 - [info] Windows_NT 10.0.22621 x64 LE
17 Nov 12:25:03 - [info] Loading palette nodes
17 Nov 12:25:06 - [info] Dashboard version 3.2.0 started at /ui
17 Nov 12:25:06 - [info] Settings file : C:\Users\sekar\.node-red\settings.js
17 Nov 12:25:06 - [info] Context store : 'default' [module=memory]
17 Nov 12:25:06 - [info] User directory : \Users\sekar\.node-red
17 Nov 12:25:06 - [warn] Projects disabled : editorTheme.projects.enabled=false
17 Nov 12:25:06 - [info] Flows file : \Users\sekar\.node-red\flows.json
17 Nov 12:25:06 - [info] Server now running at http://127.0.0.1:1880/
17 Nov 12:25:06 - [warn]

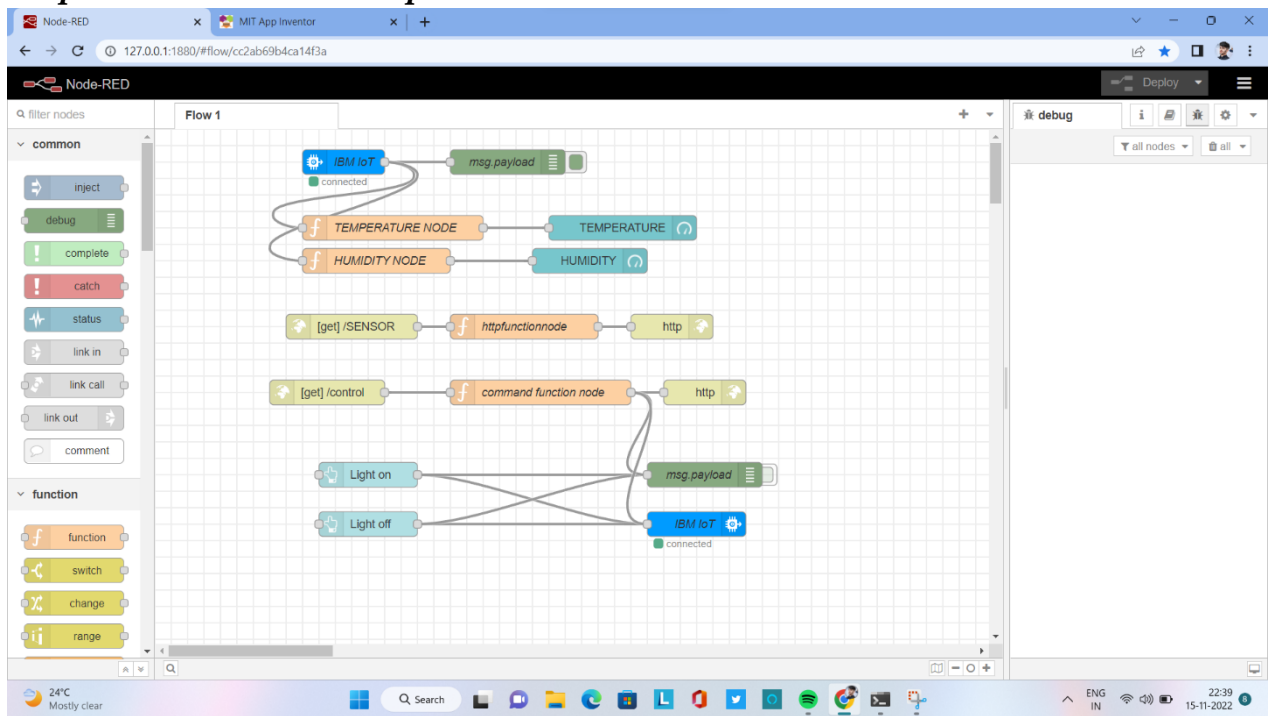
-----
Your flow credentials file is encrypted using a system-generated key.

If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
-----

17 Nov 12:25:06 - [info] Starting flows
17 Nov 12:25:06 - [info] Started flows
|
```

Step 2: Select IBM IoT input in node



The screenshot displays the IBM Watson IoT Platform interface. At the top, there's a navigation bar with "Browse", "Action", "Device Types", and "Interfaces". A search bar labeled "Search by Device ID" is present. The main content area shows a table of devices. One device, "PNT2022TMD47477", is selected, and its details are shown below. The "Recent Events" tab is active, displaying a stream of simulated sensor data (temperature, humidity, soil moisture) in JSON format. A notification at the bottom right states "1 Simulation running".

Event	Value	Format	Last Received
event_1	{"temperature":4,"humidity":17,"soil moisture":3}	json	a few seconds ago
event_1	{"temperature":37,"humidity":58,"soil moisture":....}	json	a few seconds ago
event_1	{"temperature":12,"humidity":94,"soil moisture":....}	json	a few seconds ago
event_1	{"temperature":6,"humidity":11,"soil moisture":9...}	json	a few secor