

Sprint -2

Date	31 OCTOBER 2022
Team id	PNT2022TMID32051
Project Name	IoT Based smart crop Protection system for agriculture
Maximum mark	20 marks

STEP1: Download and Install NODE JS.

The screenshot shows the Node.js download page in a web browser. The page title is "Downloads" and the URL is "nodejs.org/en/download/". It indicates the latest LTS version is 18.12.1 (including npm 8.19.2). The page offers two main download paths: "LTS" (Recommended For Most Users) and "Current" (Latest Features). Under "LTS", there are links for Windows Installer (node-v18.12.1-x64.msi), macOS Installer (node-v18.12.1.pkg), and Source Code (node-v18.12.1.tar.gz). Under "Current", there are links for Windows Installer, macOS Installer, and Source Code. Below these, a table lists download links for various operating systems and architectures. At the bottom, there is a section for "Additional Platforms" with links for Docker Image and Linux on Power LE Systems.

LTS		Current	
Recommended For Most Users		Latest Features	
Windows Installer	macOS Installer	Source Code	
node-v18.12.1-x64.msi	node-v18.12.1.pkg	node-v18.12.1.tar.gz	

Windows Installer (.msi)	32-bit	64-bit
Windows Binary (.zip)	32-bit	64-bit
macOS Installer (.pkg)	64-bit / ARM64	
macOS Binary (.tar.gz)	64-bit	ARM64
Linux Binaries (x64)	64-bit	
Linux Binaries (ARM)	ARMv7	ARMv8
Source Code	node-v18.12.1.tar.gz	

Additional Platforms

Docker Image	Official Node.js Docker Image
Linux on Power LE Systems	64-bit

STEP 2: Setup node.js and configure command prompt for error check.open node-red from the generated link.

```
node-red
4 Nov 18:48:05 - [info] Node-RED version: v3.0.2
4 Nov 18:48:05 - [info] Node.js version: v18.12.0
4 Nov 18:48:05 - [info] Windows_NT 10.0.19044 x64 LE
4 Nov 18:48:26 - [info] Loading palette nodes
4 Nov 18:48:44 - [info] Settings file : C:\Users\ELCOT\.node-red\settings.js
4 Nov 18:48:45 - [info] Context store : 'default' [module=memory]
4 Nov 18:48:45 - [info] User directory : \Users\ELCOT\.node-red
4 Nov 18:48:45 - [warn] Projects disabled : editorTheme.projects.enabled=false
4 Nov 18:48:45 - [info] Flows file : \Users\ELCOT\.node-red\flows.json
4 Nov 18:48:45 - [info] Creating new flow file
4 Nov 18:48:45 - [warn]

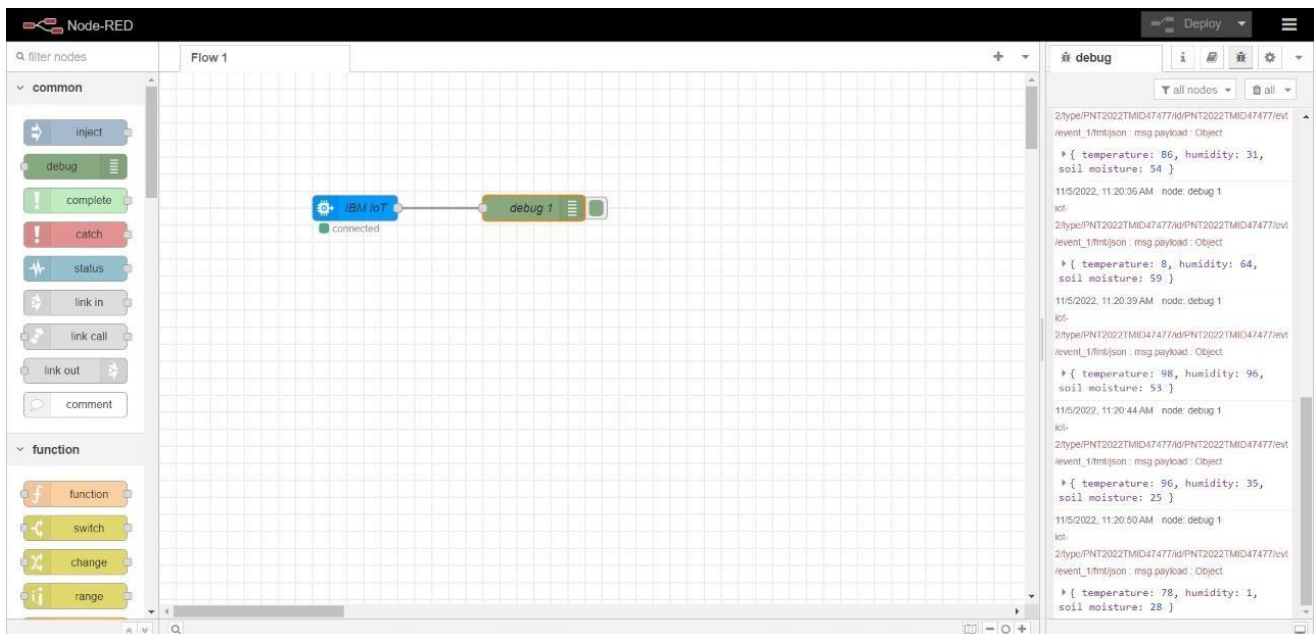
-----
Your flow credentials file is encrypted using a system-generated key.

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.
-----

4 Nov 18:48:45 - [warn] Encrypted credentials not found
4 Nov 18:48:45 - [info] Starting flows
4 Nov 18:48:46 - [info] Started flows
4 Nov 18:48:46 - [info] Server now running at http://127.0.0.1:1880/
```

STEP3: Connect IBM IOT in and Debug 1 and Deploy.



STEP4: Edit gauge node (Here the gauge nodes are named as Temperature, Humidity and Soil moisture).

