

## SPRINT-2

Date	31 OCTOBER 2022
TEAM ID	PNT2022TMID50380
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 Downloads page. At the top is a dark navigation bar with the Node.js logo and links: HOME, ABOUT, DOWNLOADS, DOCS, GET INVOLVED, SECURITY, CERTIFICATION, and NEWS. Below the navigation bar, the 'Downloads' section is highlighted. It states 'Latest LTS Version: 18.12.1 (includes npm 8.19.2)' and provides instructions to download the source code or a pre-built installer. Two main tabs are visible: 'LTS Recommended For Most Users' (active) and 'Current Latest Features'. Under the 'LTS' tab, there are three options: 'Windows Installer' (with a Windows logo), 'macOS Installer' (with an Apple logo), and 'Source Code' (with a cube icon). Below these, a list of download links is provided: 'Windows Installer (.msi)', 'Windows Binary (.zip)', 'macOS Installer (.pkg)', 'macOS Binary (.tar.gz)', and 'Linux Binaries (x64)'. To the right of the links is a table showing the available architectures for the Windows and macOS installers.

Windows Installer	
32-bit	64-bit
32-bit	64-bit

macOS Installer	
64-bit / ARM64	
64-bit	ARM64
64-bit	

STEP2: 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]

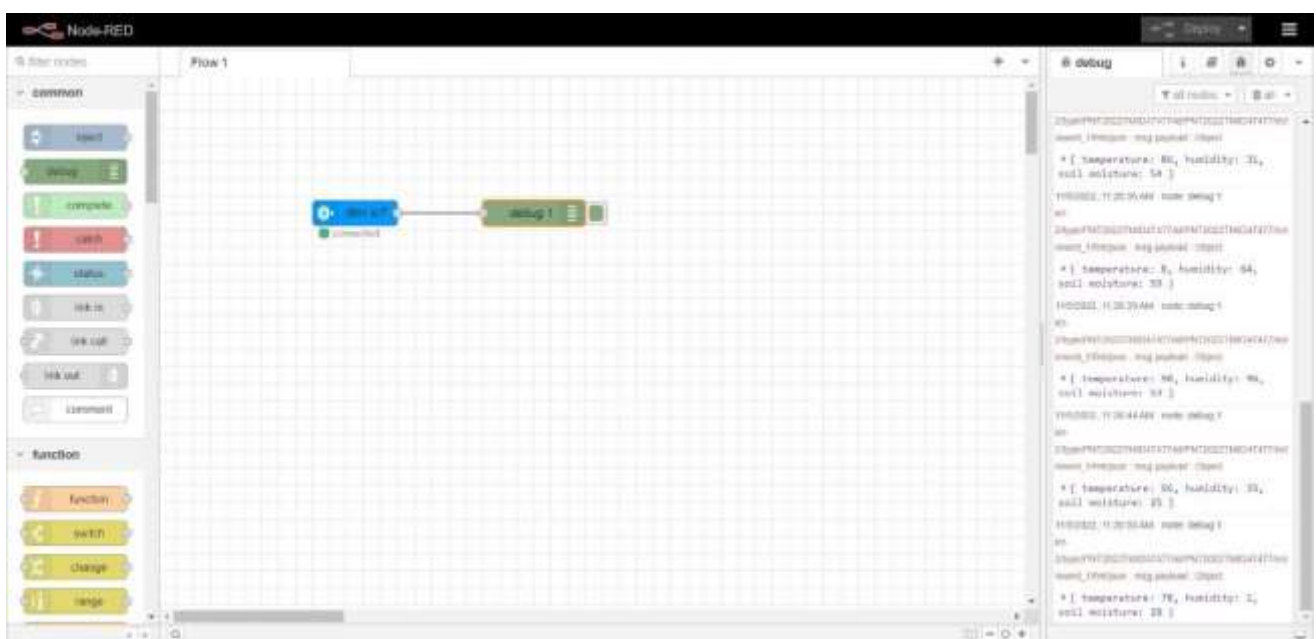
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Your flow credentials file is encrypted using a system-generated key.

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).

