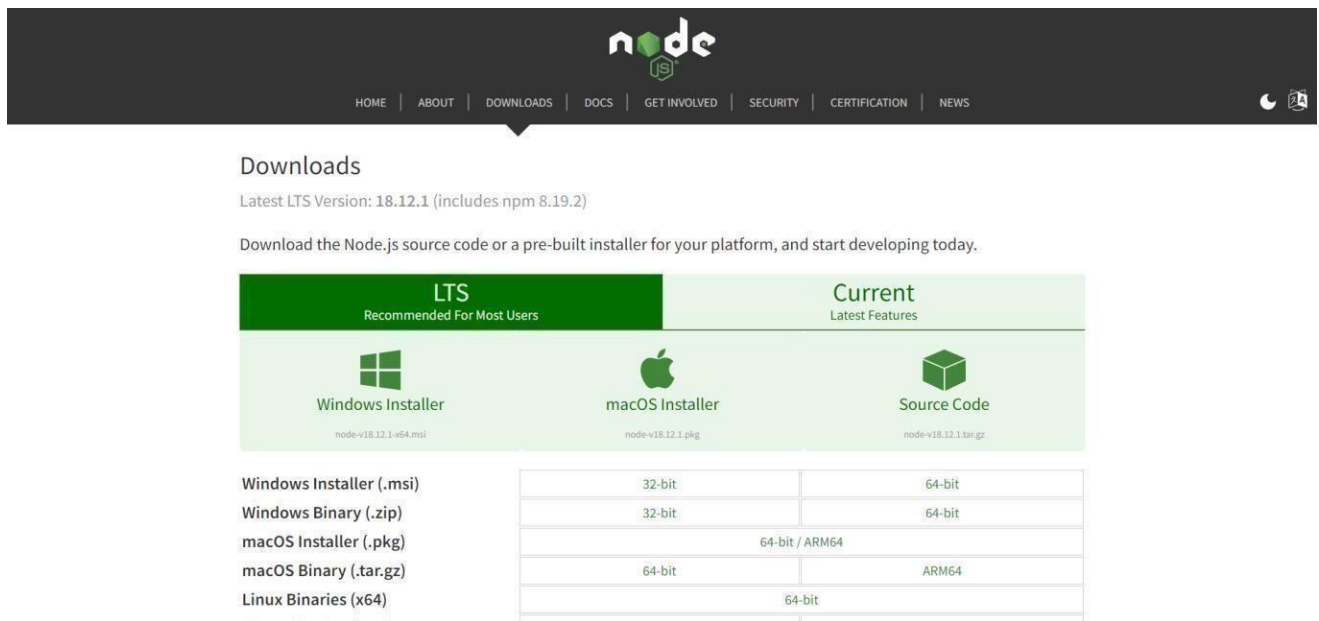


PROJECT DEVELOPMENT PHASE

SPRINT-2

Date	29 October 2022
Team ID	PNT2022TMID24112
Project Name	IoT based smart crop protection system for agriculture

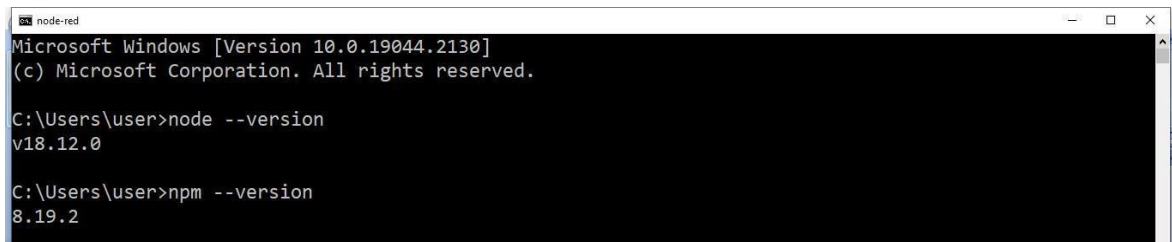
STEP1: Download and Install NODE JS.



The screenshot shows the Node.js Downloads page. At the top, the Node.js logo is centered, with navigation links: HOME, ABOUT, DOWNLOADS, DOCS, GET INVOLVED, SECURITY, CERTIFICATION, and NEWS. Below the logo, the text "Downloads" is followed by "Latest LTS Version: 18.12.1 (includes npm 8.19.2)". A message states: "Download the Node.js source code or a pre-built installer for your platform, and start developing today." Below this, there are two main tabs: "LTS Recommended For Most Users" and "Current Latest Features". Under the "LTS" tab, there are three options: "Windows Installer" (node-v18.12.1-x64.msi), "macOS Installer" (node-v18.12.1.pkg), and "Source Code" (node-v18.12.1.tar.gz). Below these, there are links for "Windows Installer (.msi)", "Windows Binary (.zip)", "macOS Installer (.pkg)", "macOS Binary (.tar.gz)", and "Linux Binaries (x64)". To the right, there is a table showing the available architectures for the LTS version.

32-bit	64-bit
32-bit	64-bit
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.



The screenshot shows a Windows command prompt window titled "node-red". The text inside the window is as follows:

```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>node --version
v18.12.0

C:\Users\user>npm --version
8.19.2
```

```
node-red
C:\Users\user>npm install -g --unsafe-perm node-red

changed 292 packages, and audited 293 packages in 2m

39 packages are looking for funding
  run `npm fund` for details

5 vulnerabilities (4 low, 1 moderate)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

C:\Users\user>node-red
10 Nov 12:46:26 - [info]

Welcome to Node-RED
=====
```

```
node-red
Run `npm audit` for details.

C:\Users\user>node-red
10 Nov 12:46:26 - [info]

Welcome to Node-RED
=====

10 Nov 12:46:26 - [info] Node-RED version: v3.0.2
10 Nov 12:46:26 - [info] Node.js version: v18.12.0
10 Nov 12:46:26 - [info] Windows_NT 10.0.19044 x64 LE
10 Nov 12:46:30 - [info] Loading palette nodes
10 Nov 12:46:33 - [info] Settings file : C:\Users\user\.node-red\settings.js
10 Nov 12:46:33 - [info] Context store : 'default' [module=memory]
10 Nov 12:46:33 - [info] User directory : \Users\user\.node-red
10 Nov 12:46:33 - [warn] Projects disabled : editorTheme.projects.enabled=false
10 Nov 12:46:33 - [info] Flows file : \Users\user\.node-red\flows.json
10 Nov 12:46:33 - [info] Creating new flow file
10 Nov 12:46:33 - [warn]

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

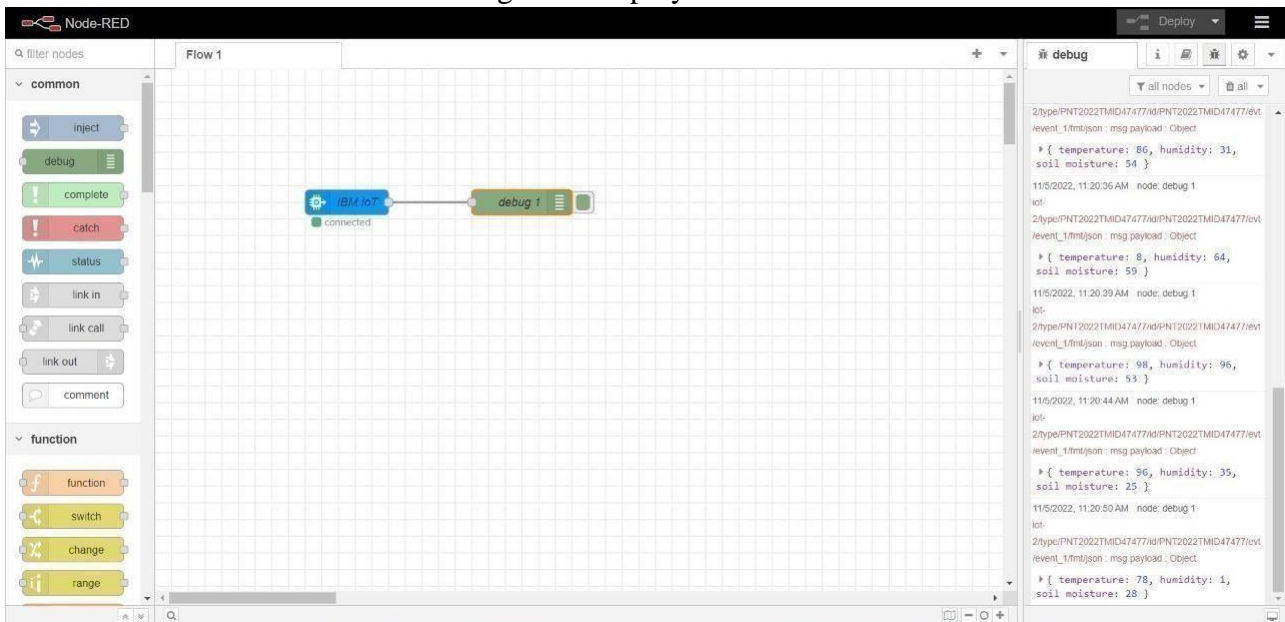
```
10 Nov 12:46:33 - [warn]
-----
Your flow credentials file is encrypted using a system-generated key.

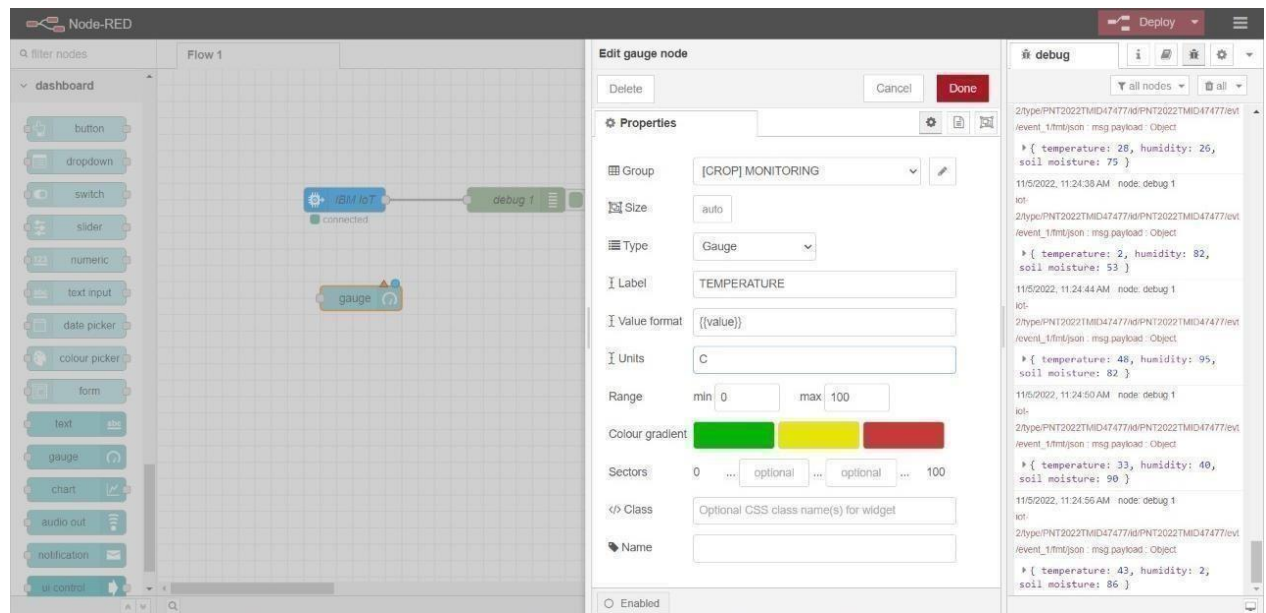
If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

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.
-----

10 Nov 12:46:33 - [warn] Encrypted credentials not found
10 Nov 12:46:33 - [info] Starting flows
10 Nov 12:46:33 - [info] Started flows
10 Nov 12:46:33 - [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).

