

# Sprint-2

|              |                                                          |
|--------------|----------------------------------------------------------|
| Team ID      | PNT2022TMID44430                                         |
| Project Name | IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE . |

## STEP1: Download and Install NODE JS.

node

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### Downloads

Latest LTS Version: 18.12.1 (includes npm 8.19.2)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

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

Windows Installer (.msi)  
Windows Binary (.zip)  
macOS Installer (.pkg)  
macOS Binary (.tar.gz)  
Linux Binaries (x64)

|                |        |
|----------------|--------|
| 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.

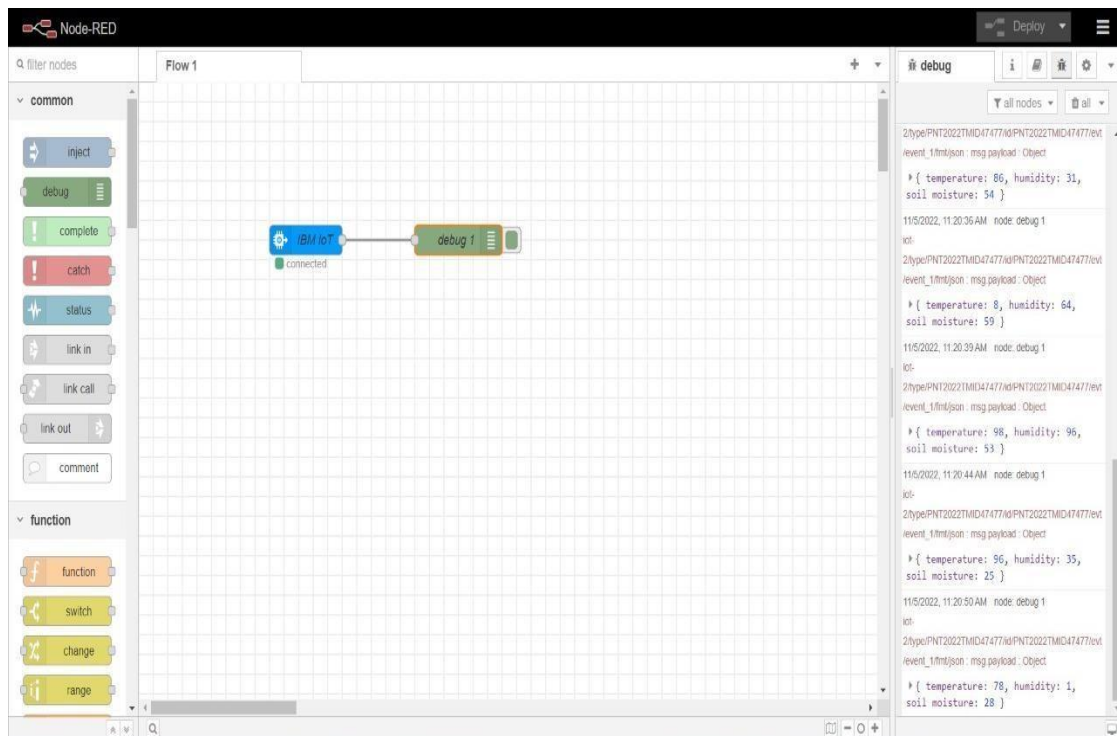
```
node-red
4 Nov 18:48:05 - [info] Node-RED version: v3.0.2
4 Nov 18:48:05 - [info] Node.js version: v18.12.0
4 Nov 18:48:05 - [info] Windows_NT 10.0.19044 x64 LE
4 Nov 18:48:26 - [info] Loading palette nodes
4 Nov 18:48:44 - [info] Settings file : C:\Users\ELCOT\.node-red\settings.js
4 Nov 18:48:45 - [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).

