


## SPRINT 2

DATE	15 november 2022
TEAM ID	PNT2022TMID41353
PROJECT NAME	IOT BASED SMART CROP PROTECTION FOR AGRICULTURE
MAXIMUM MARK	20 MARKS

**STEP 1:** Download and install NODE JS.

[HOME](#) | [ABOUT](#) | [DOWNLOADS](#) | [DOCS](#) | [GET INVOLVED](#) | [SECURITY](#) | [CERTIFICATION](#) | [NEWS](#)


### 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**  
Recommended For Most Users

**Current**  
Latest Features

  
**Windows Installer**  
node-v18.12.1-x64.msi

  
**macOS Installer**  
node-v18.12.1.pkg

  
**Source Code**  
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	

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**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]

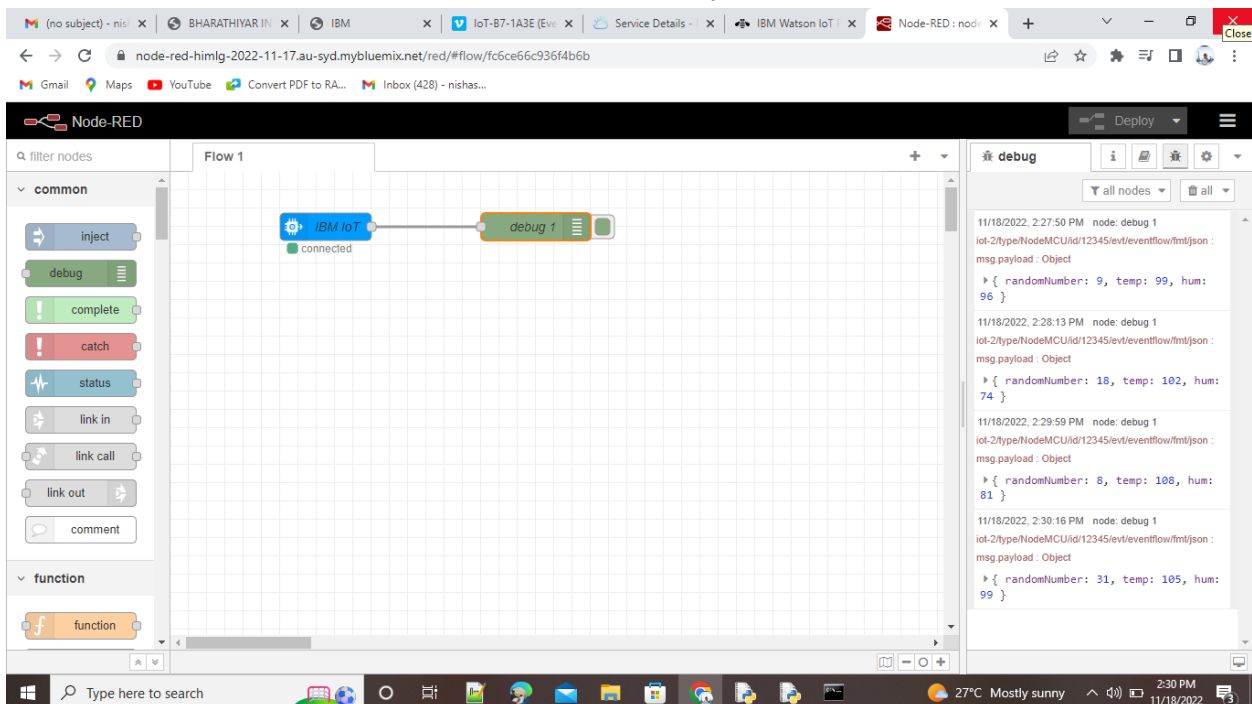
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Your flow credentials file is encrypted using a system-generated key.

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/
```

**STEP 3:** Connect IBM IOT in an and debug 1 and deploy.



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STEP 4: Edit gauge node(Here the gauge nodes are named as Temperature, Humidity and soil moisture).

The screenshot displays the Node-RED web interface in a browser. The top navigation bar includes a 'Deploy' button. On the left, a sidebar shows a 'gauge' node in the 'dashboard' palette. The main workspace, titled 'Flow 1', contains a flow with an 'IBM IoT' node (labeled 'connected') connected to a 'debug 1' node. Below this, a 'gauge' node is visible. The right-hand 'debug' console shows a log of messages from the 'debug 1' node, each containing a JSON object with random data: { randomNumber: 31, temp: 105, hum: 99 }, { randomNumber: 47, temp: 92, hum: 95 }, { randomNumber: 12, temp: 92, hum: 83 }, { randomNumber: 99, temp: 107, hum: 83 }, and { randomNumber: 12, temp: 93, hum: 67 }. The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying '27°C Mostly sunny' and the date '11/18/2022'.