

SPRINT-3

Date	07 November 2022
TEAM ID	PNT2022TMID15011
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 website's 'Downloads' section. It highlights the 'LTS' (Recommended For Most Users) and 'Current' (Latest Features) versions. Below this, there are three main download options: 'Windows Installer', 'macOS Installer', and 'Source Code'. Each option has a corresponding icon and a link to the download. Below these options, there is a table listing the available binaries for each platform.

Platform	Architecture	Download Link
Windows	32-bit	node-v18.12.1-x64.msi
	64-bit	node-v18.12.1-x64.msi
macOS	64-bit	node-v18.12.1.pkg
	ARM64	node-v18.12.1.pkg
Linux	64-bit	node-v18.12.1.tar.gz
	ARM64	node-v18.12.1.tar.gz

STEP2: Setup node.js and configure command prompt for error check .open node-red from the generated link.

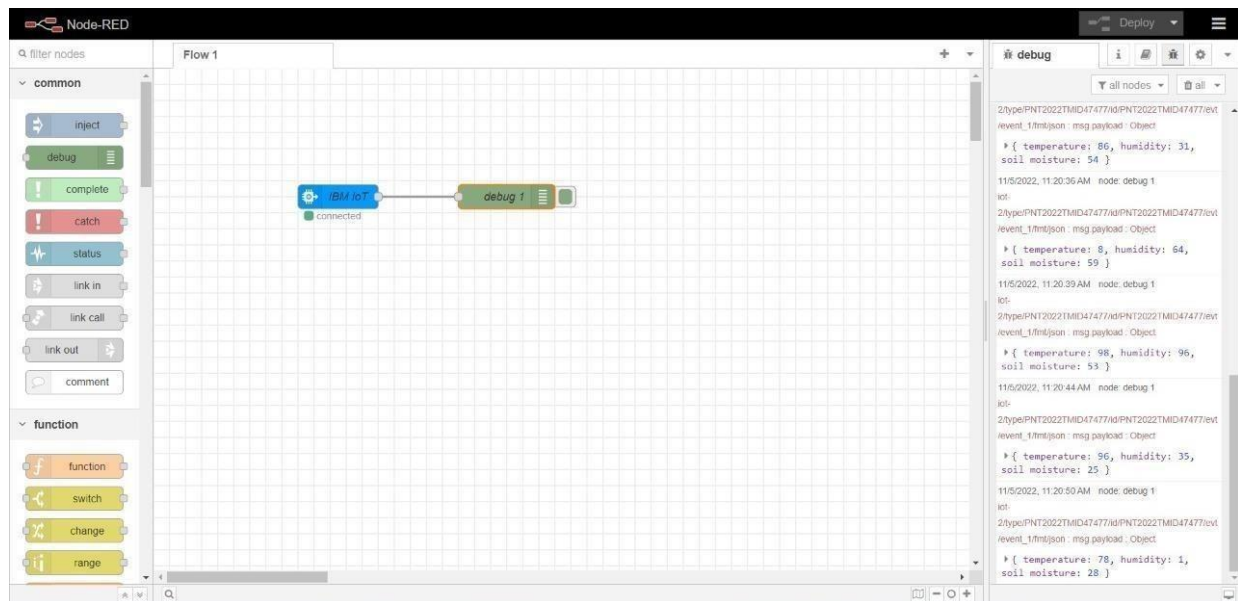
```
node-red
4 Nov 18:48:05 - [info] Node-RED version: v3.0.2
4 Nov 18:48:05 - [info] Node.js version: v18.12.0
4 Nov 18:48:05 - [info] Windows_NT 10.0.19044 x64 LE
4 Nov 18:48:26 - [info] Loading palette nodes
4 Nov 18:48:44 - [info] Settings file : C:\Users\ELCOT\.node-red\settings.js
4 Nov 18:48:45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

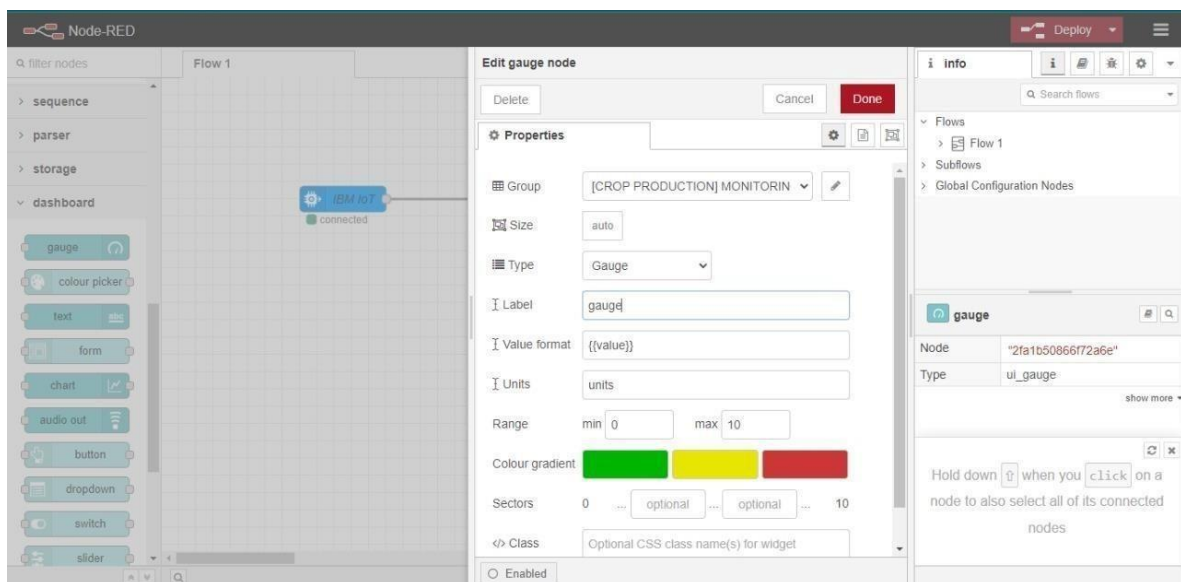
If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.

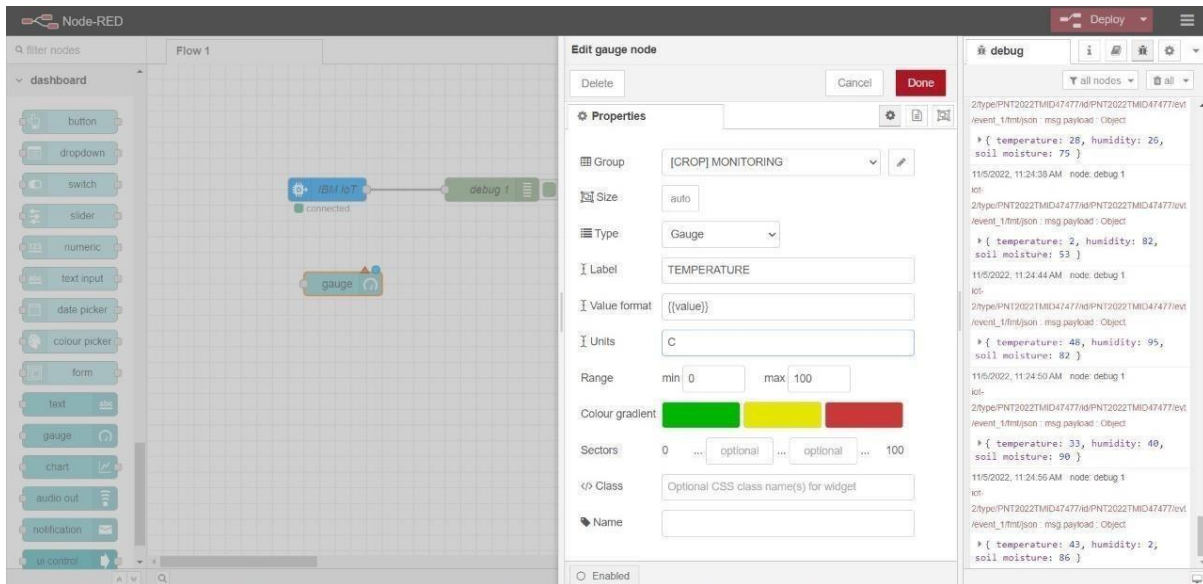
You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
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4 Nov 18:48:45 - [warn] Encrypted credentials not found
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.



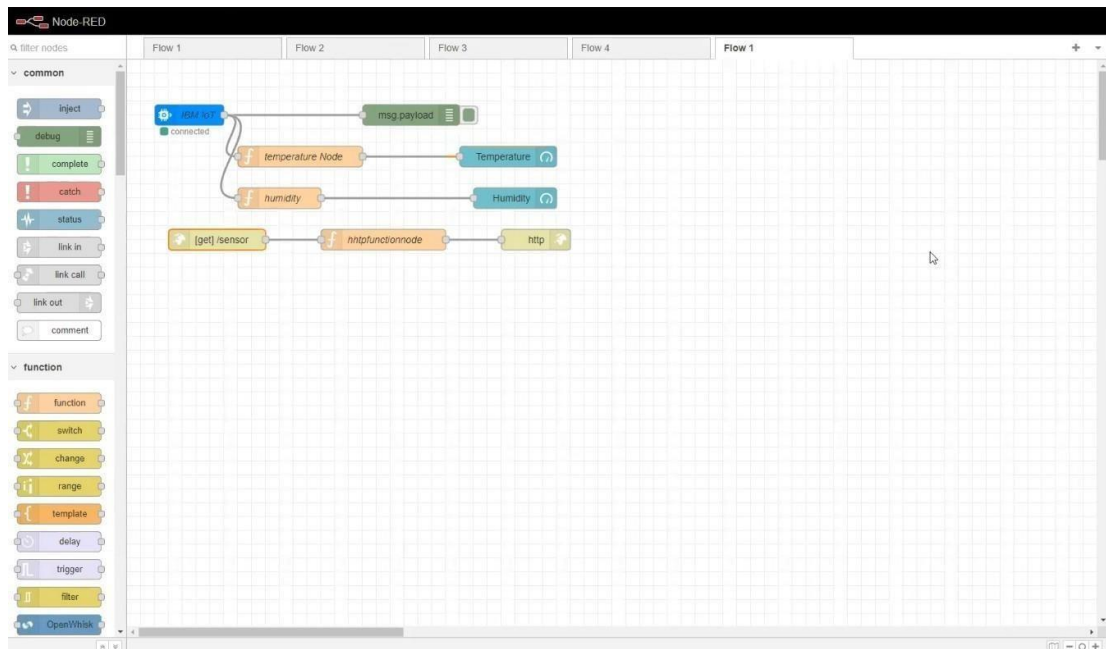
STEP4: Edit gauge node (Here the gauge nodes are named as Temperature, Humidity and Soil moisture).



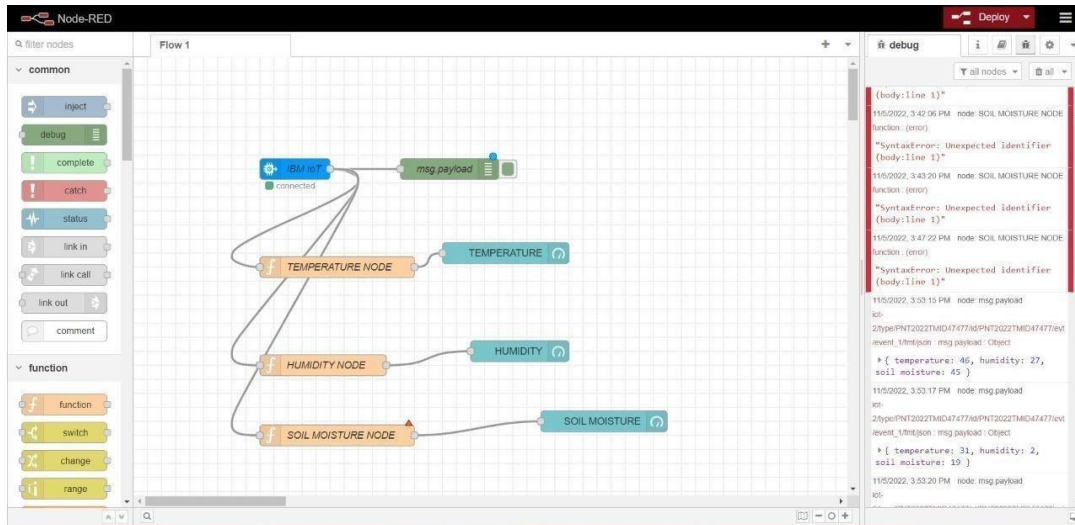


SIMULATION:

STEP1: Simulated program to get the random values.



STEP2: Generate debug message from IBM Watson IoT Platform and connect the nodes.



STEP3: Generate the some output from recent events.

