


SPRINT-2

Date	5 November 2022
TEAMID	PNT2022TMID48639
ProjectName	IoTBasedsmartcropProtectionsystemforagriculture
Maximummark	20marks

STEP1:DownloadandInstallNODEJS.



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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
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	

STEP2:Setupnode.jsandconfigurecommandpromptforerrorcheck.opennode-redfromthegeneratedlink.

```
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]

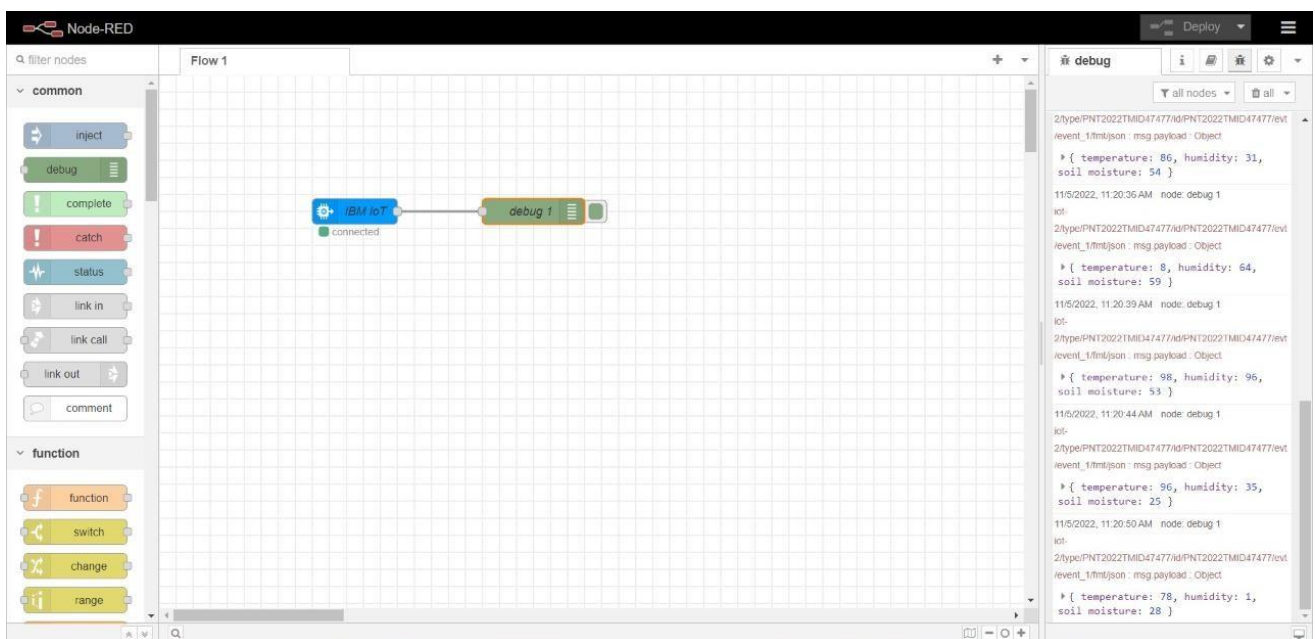
-----
Your flow credentials file is encrypted using a system-generated key.

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 IBMIoTinandDebug1andDeploy.



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

The screenshot shows the Node-RED interface with the 'Edit gauge node' dialog open. The gauge is named 'gauge' and is part of the '[CROP PRODUCTION] MONITORIN' group. The range is set from 0 to 10, and the units are 'units'. The color gradient is green, yellow, and red. The 'Info' panel on the right shows the node ID '2fa1b50866f72a6e' and the type 'ui_gauge'.

The screenshot shows the Node-RED interface with the 'Edit gauge node' dialog open. The gauge is named 'TEMPERATURE' and is part of the '[CROP] MONITORING' group. The range is set from 0 to 100, and the units are 'C'. The color gradient is green, yellow, and red. The 'debug' panel on the right shows the data being received from the IoT node, including temperature, humidity, and soil moisture values.