

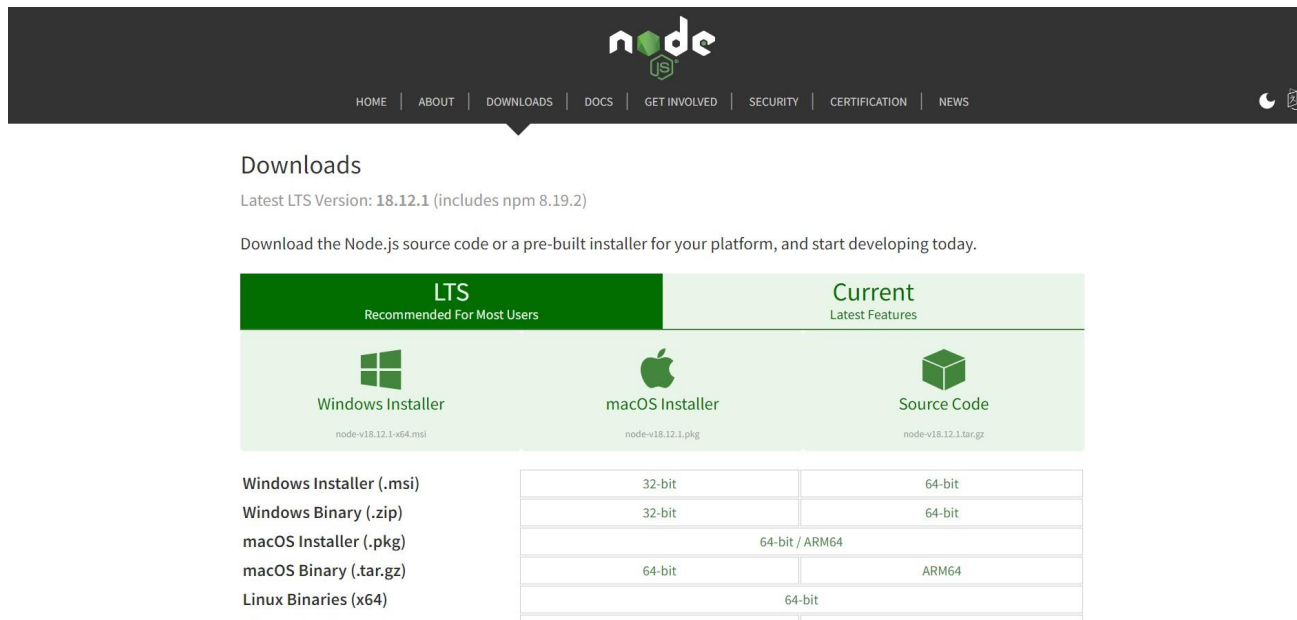
PROJECT DEVELOPMENT PHASE

Project Delivery Sprint 2

| | |
|---------------|---------------------------|
| Date | 11 November 2022 |
| Team ID | PNT2022TMID09965 |
| Project Name | Project Delivery Sprint 2 |
| Maximum Marks | 8 Marks |

Project Development - Delivery of Sprint – 2:

STEP 1: Download and Install NODE JS.



The screenshot shows the Node.js Downloads page. At the top, there's a dark navigation bar with the Node.js logo and links for HOME, ABOUT, DOWNLOADS, DOCS, GET INVOLVED, SECURITY, CERTIFICATION, and NEWS. Below this, the 'Downloads' section is highlighted. It states 'Latest LTS Version: 18.12.1 (includes npm 8.19.2)' and provides instructions to download the source code or a pre-built installer. Two main tabs are visible: 'LTS Recommended For Most Users' (active) 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, a list of download links is provided: 'Windows Installer (.msi)', 'Windows Binary (.zip)', 'macOS Installer (.pkg)', 'macOS Binary (.tar.gz)', and 'Linux Binaries (x64)'. To the right of this list is a table showing the available architectures for each platform.

| Platform | Architecture | Download Link |
|----------|--------------|----------------------------------|
| Windows | 32-bit | node-v18.12.1-x86.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-linux-x64.tar.gz |
| | ARM64 | node-v18.12.1-linux-arm64.tar.gz |

STEP 2: Setup node.js and configure command prompt for error check.open node-red from the generated link.

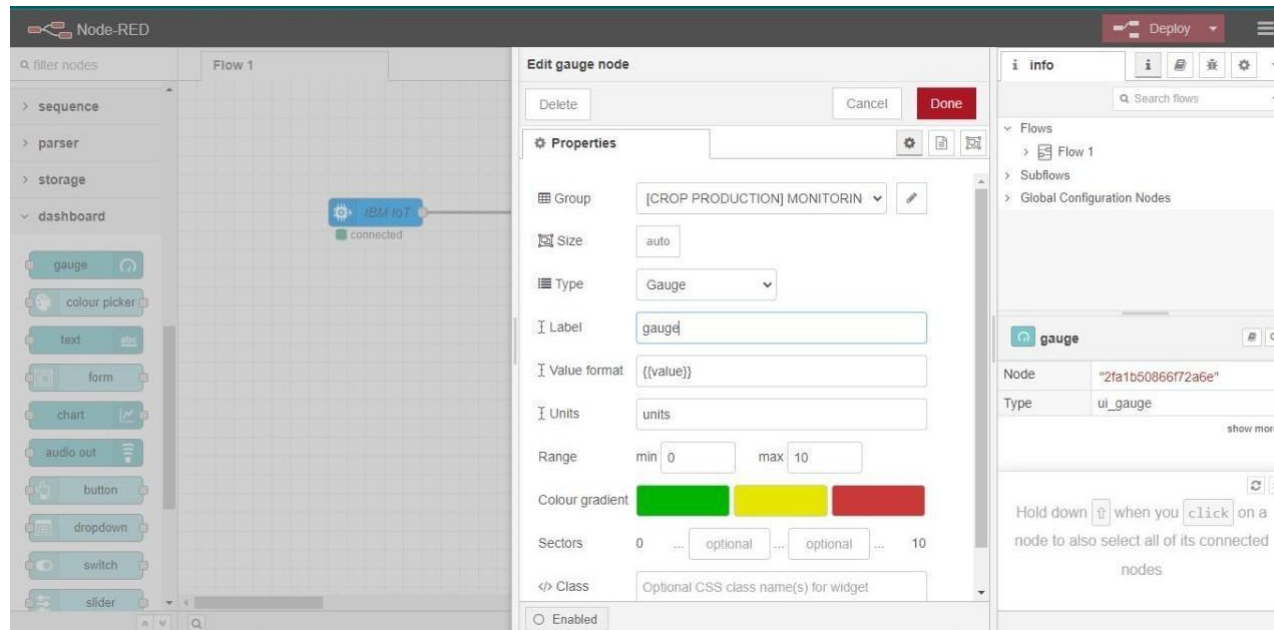
```
node-red
4 Nov 18:48:05 - [info] Node-RED version: v3.0.2
4 Nov 18:48:05 - [info] Node.js version: v18.12.0
4 Nov 18:48:05 - [info] Windows_NT 10.0.19044 x64 LE
4 Nov 18:48:26 - [info] Loading palette nodes
4 Nov 18:48:44 - [info] Settings file : C:\Users\ELCOT\.node-red\settings.js
4 Nov 18:48:45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

-----
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.



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

Node-RED

Deploy

filter nodes

Flow 1

dashboard

button

dropdown

switch

slider

numeric

text input

date picker

colour picker

form

text

gauge

chart

audio out

notification

ui control

IBM IoT

connected

debug 1

gauge

Delete

Cancel

Done

Properties

Group

Size

Type

Label

Value format

Units

Range

Colour gradient

Sectors

Class

Name

Enabled

[CROP] MONITORING

auto

Gauge

TEMPERATURE

{{value}}

C

min 0 max 100

0 optional optional 100

Optional CSS class name(s) for widget

debug

all nodes

all

2/type/PNT2022TMD47477Ad/PNT2022TMD47477/evi

event_1.html:msg.payload: Object

{ temperature: 28, humidity: 26, soil moisture: 75 }

11/5/2022, 11:24:38 AM node debug 1

id:

2/type/PNT2022TMD47477Ad/PNT2022TMD47477/evi

event_1.html:msg.payload: Object

{ temperature: 2, humidity: 82, soil moisture: 53 }

11/5/2022, 11:24:44 AM node debug 1

id:

2/type/PNT2022TMD47477Ad/PNT2022TMD47477/evi

event_1.html:msg.payload: Object

{ temperature: 48, humidity: 95, soil moisture: 82 }

11/5/2022, 11:24:50 AM node debug 1

id:

2/type/PNT2022TMD47477Ad/PNT2022TMD47477/evi

event_1.html:msg.payload: Object

{ temperature: 33, humidity: 40, soil moisture: 90 }

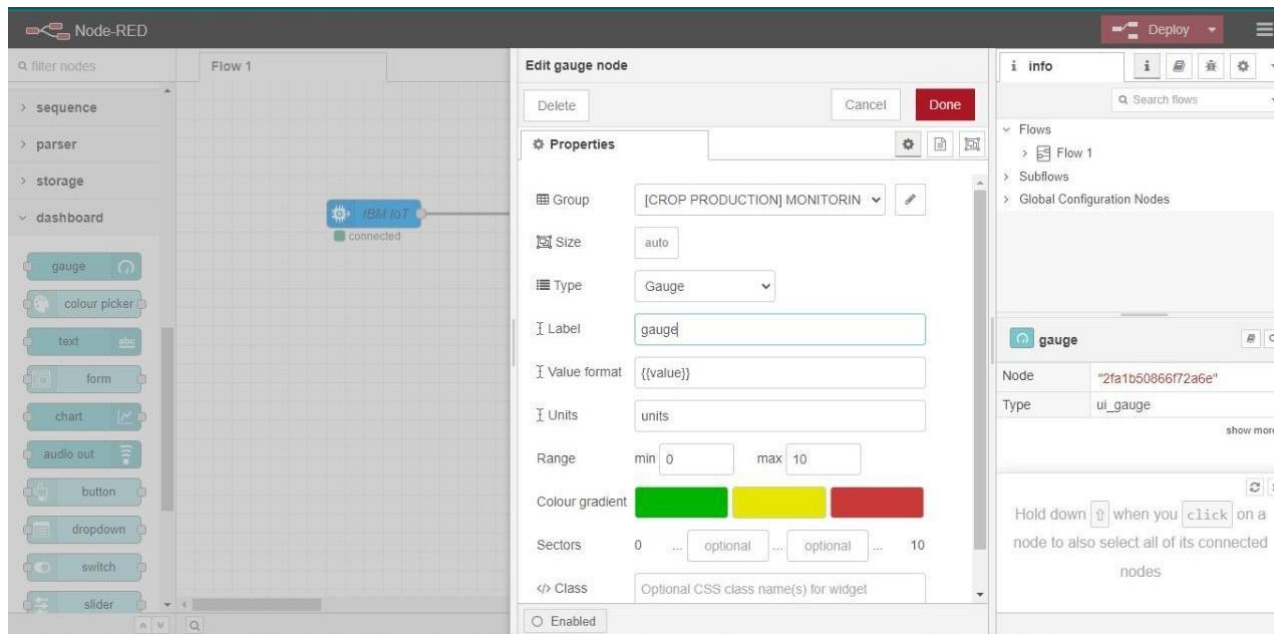
11/5/2022, 11:24:56 AM node debug 1

id:

2/type/PNT2022TMD47477Ad/PNT2022TMD47477/evi

event_1.html:msg.payload: Object

{ temperature: 43, humidity: 2, soil moisture: 86 }



STEP 5: Start debugging the program.