

CREATION OF NODE RED SERVICE

TEAM ID	PNT2022TMID24852
PROJECT NAME	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
DATE	05/11/22

To create a web application, we need to create a Node-RED service.

Local Node Red Creation:

STEP 1:

- Search for Node Js in The Google
- Click on Download Link Shown Below the Nodejs
- Download the Windows Installer (.msi file): 64 Bit Or 32 Bit According To Your System

The screenshot shows the Node.js download page. It features two main sections: 'LTS Recommended For Most Users' and 'Current Latest Features'. Under 'LTS', there are links for 'Windows Installer' (node-v18.12.1-x64.msi), 'macOS Installer' (node-v18.12.1.pkg), and 'Source Code' (node-v18.12.1.tar.gz). Under 'Current', there are similar links. Below these, there are tables for 'Additional Platforms' including 'Docker Image', 'Linux on Power LE Systems', 'Linux on System z', and 'AIX on Power Systems'. At the bottom, there are links for 'Signed SHASUMS for release files (How to verify)', 'All download options', 'Installing Node.js via package manager', 'Previous Releases', 'Nightly builds', and 'Unofficial builds'.

Platform	Download Link
Windows Installer	node-v18.12.1-x64.msi
macOS Installer	node-v18.12.1.pkg
Source Code	node-v18.12.1.tar.gz

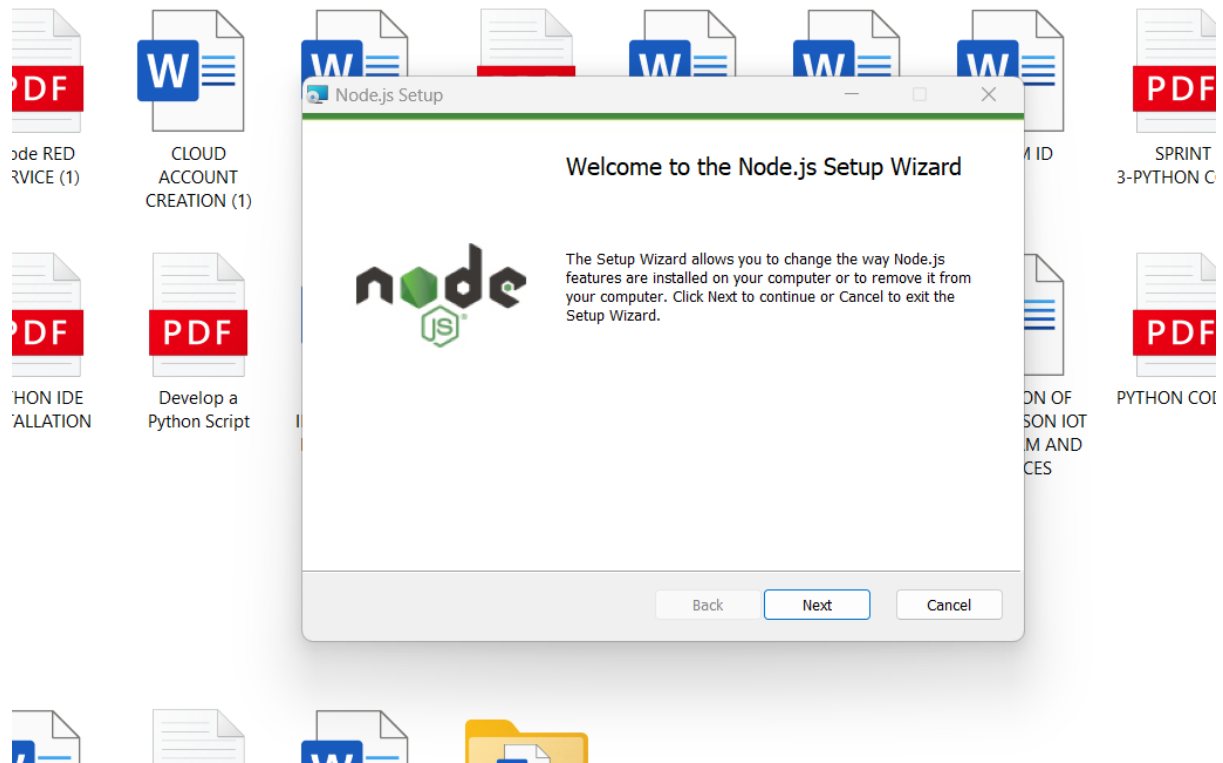
Platform	Download Link
32-bit	64-bit
32-bit	64-bit
64-bit / ARM64	
64-bit	ARM64
64-bit	
ARMv7	ARMv8
node-v18.12.1.tar.gz	

Platform	Download Link
Docker Image	Official Node.js Docker Image
Linux on Power LE Systems	64-bit
Linux on System z	64-bit
AIX on Power Systems	64-bit

- Signed SHASUMS for release files (How to verify)
- All download options
- Installing Node.js via package manager
- Previous Releases
- Nightly builds
- Unofficial builds

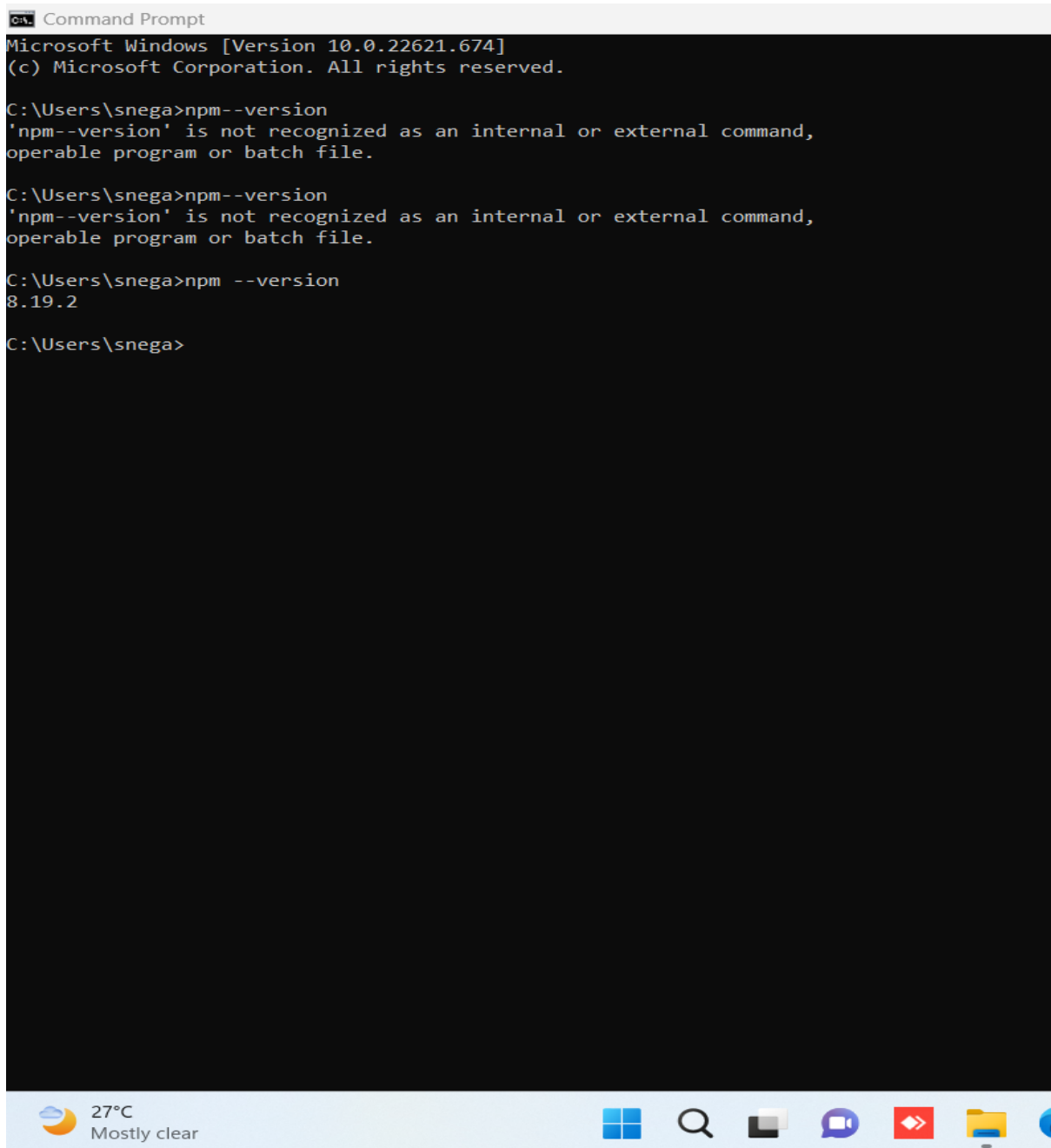
STEP 2:

- Right Click on The Downloaded .msi File and Extract It
- Open the File and Open Node.Exe



STEP 3:

- After Installation. Open Cmd (Command Prompt) From Windows Search
- Type `npm --version` and Enter. Output Will Show You Version Number



```
Command Prompt
Microsoft Windows [Version 10.0.22621.674]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sneha>npm--version
'npm--version' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\sneha>npm--version
'npm--version' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\sneha>npm --version
8.19.2

C:\Users\sneha>
```

The screenshot shows a Windows Command Prompt window. The title bar reads 'Command Prompt'. The window content shows the following text: 'Microsoft Windows [Version 10.0.22621.674] (c) Microsoft Corporation. All rights reserved.' The user is at the prompt 'C:\Users\sneha>'. They enter 'npm--version' and the output is an error message: ''npm--version' is not recognized as an internal or external command, operable program or batch file.' They enter the command again, and the same error message appears. Finally, they enter 'npm --version' (with two spaces) and the output is '8.19.2'. The prompt is now 'C:\Users\sneha>'. At the bottom of the screen, the Windows taskbar is visible, showing the weather as '27°C Mostly clear' and several application icons.

```

Microsoft Windows [Version 10.0.17763.1577]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ELCOT>npm --version
8.19.2

C:\Users\ELCOT>node-red
10 Nov 22:48:00 - [info]

Welcome to Node-RED
*****

10 Nov 22:48:00 - [info] Node-RED version: v3.0.2
10 Nov 22:48:00 - [info] Node.js version: v16.18.0
10 Nov 22:48:00 - [info] Windows_NT 10.0.17763 x64 LE
10 Nov 22:48:00 - [info] Loading palette nodes
10 Nov 22:48:17 - [info] Settings file : C:\Users\ELCOT\.node-red\settings.js
10 Nov 22:48:17 - [info] Context store : 'default' [module=memory]
10 Nov 22:48:17 - [info] User directory : C:\Users\ELCOT\.node-red
10 Nov 22:48:17 - [warn] Projects disabled : editorTheme.projects.enabled=false
10 Nov 22:48:17 - [info] Flows file : C:\Users\ELCOT\.node-red\flows.json
10 Nov 22:48:17 - [info] Creating new flow file
10 Nov 22:48:17 - [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.

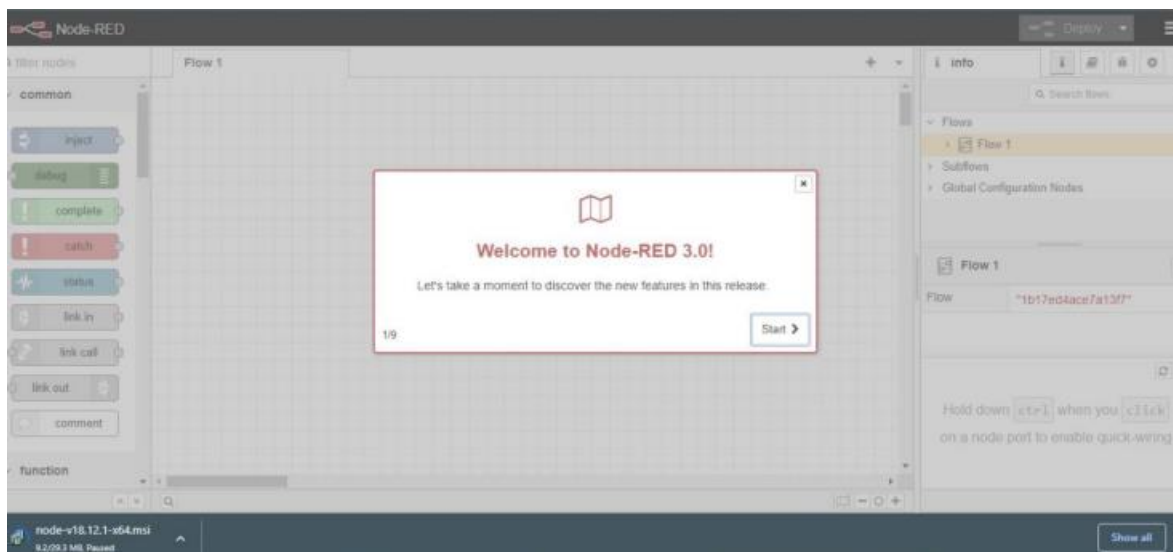
You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
-----

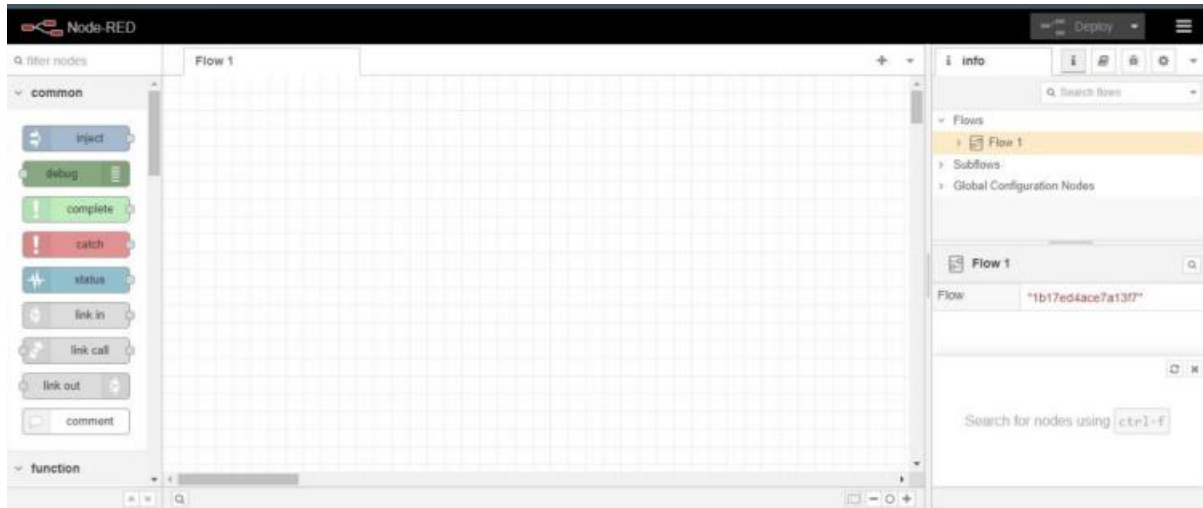
10 Nov 22:48:17 - [info] Server now running at http://127.0.0.1:1880/
10 Nov 22:48:17 - [warn] Encrypted credentials not found
10 Nov 22:48:17 - [info] Starting flows
10 Nov 22:48:17 - [info] Started flows

```

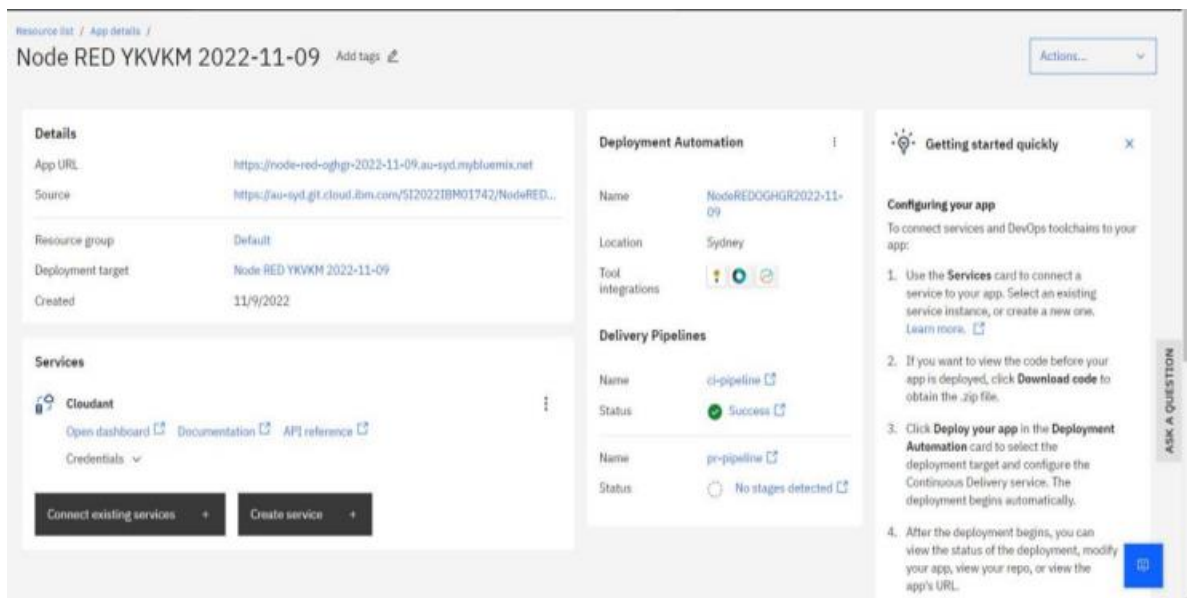
STEP 4:

- Type node-red in cmd and u will get the local server link, just open it.





NODE-RED INSTALLED USING IBM CLOUD ALSO



IBM App Development x Node-RED : node-red-oghgr-2f x https://node-red-oghgr-2022-11 x IBM Cloud Account x New Tab x

node-red-oghgr-2022-11-09.au-syd.mybluemix.net/red/#flow/985792d20721beff

Node-RED

Filter nodes

Flow 1

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- remove

Info

Search flows

Flows

- Flow 1

Subflows

Global Configuration Nodes

Flow 1

Flow "985792d20721beff"

You can remove the selected nodes or links with [delete](#)

```
graph LR; A[Return Node-RED!] --> B[msg.payload];
```