

SPRINT-2

CREATION OF NODE-RED SERVICE

TEAM ID	PNT2022TMID44357
PROJECT DOMAIN	INTERNET OF THINGS
PROJECT TITLE	IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
DATE	05 NOVEMBER 2022

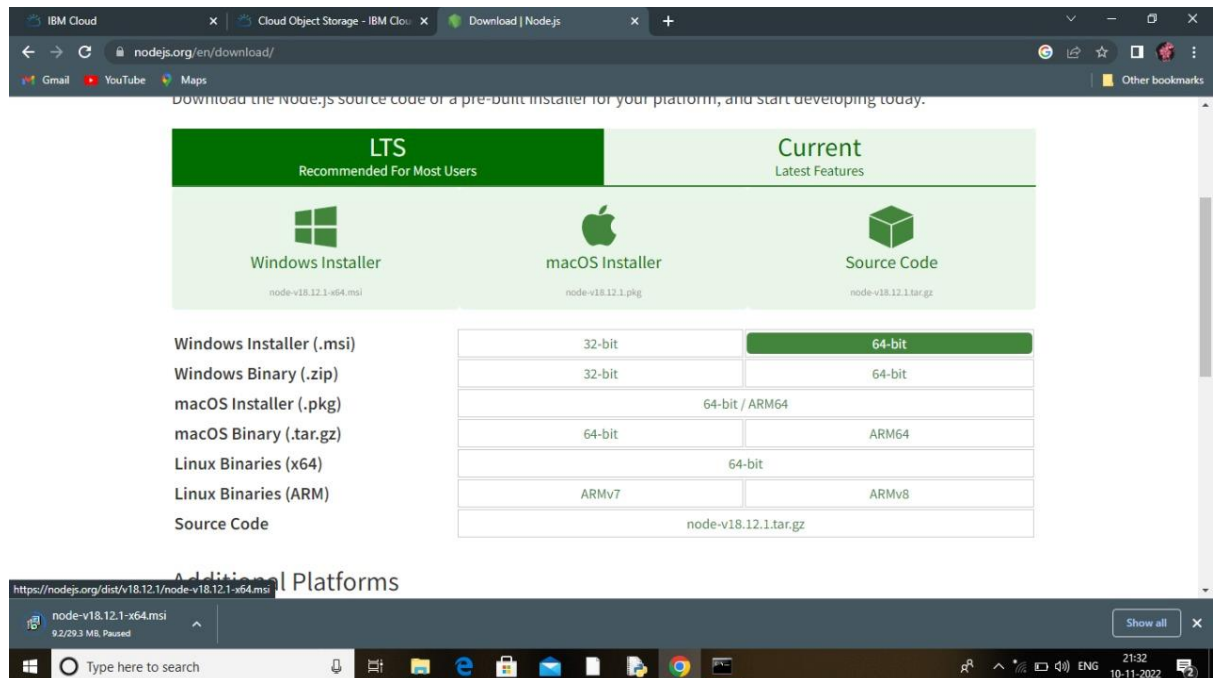
To create a web application , we need to create a Node-RED service.

Local Node Red Creation:

STEP 1:

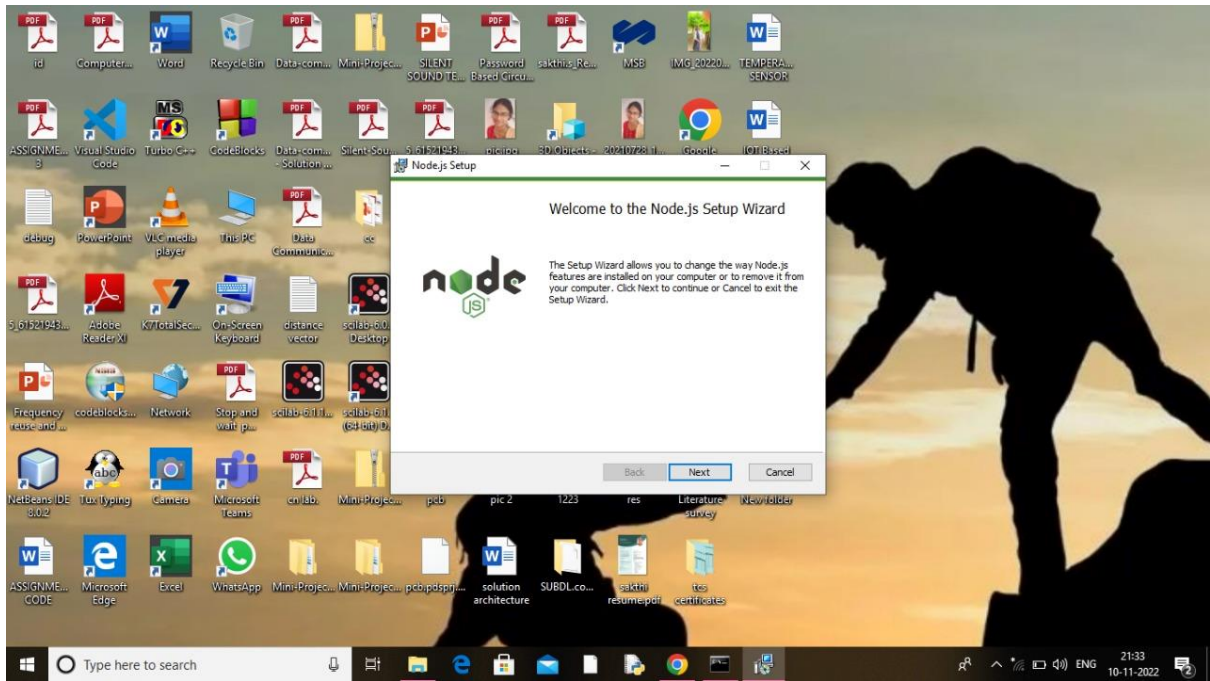
- Search for Node js in The Google
- Click on Download Link Shown Below the Nodejs
- Download the Windows Installer(.msi file): 64 Bit Or 32 Bit

According To Your System



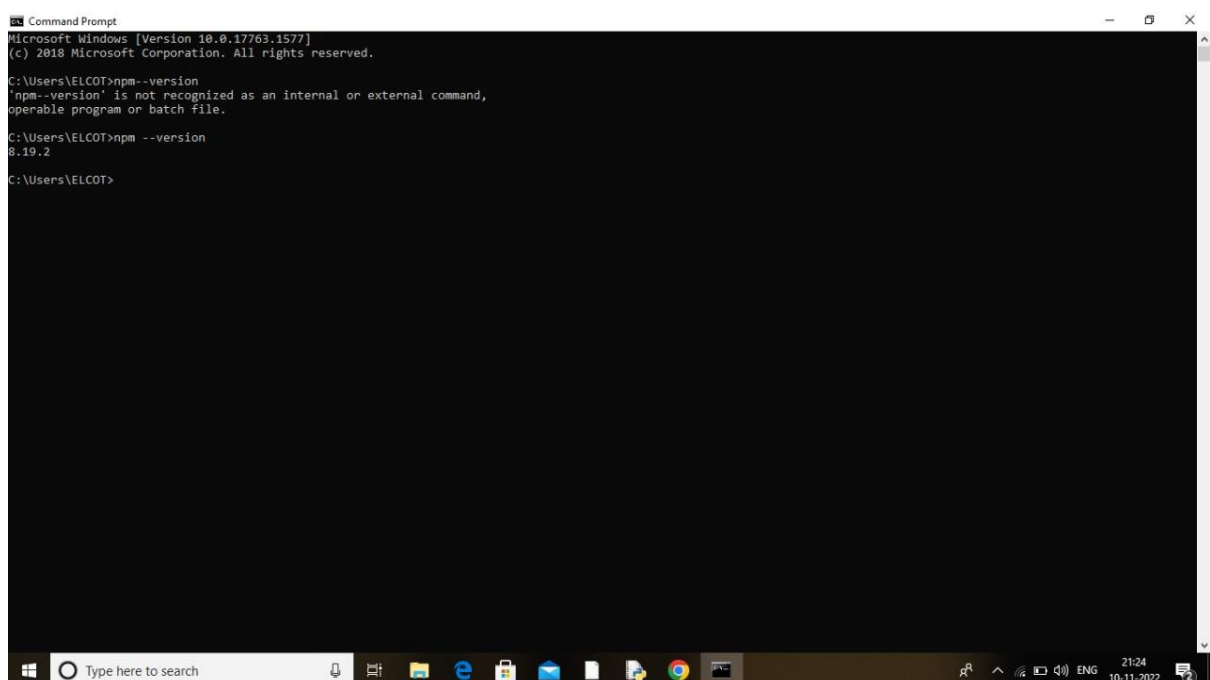
STEP 2:

- 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



```
node-red
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 22:48:06 - [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]

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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.

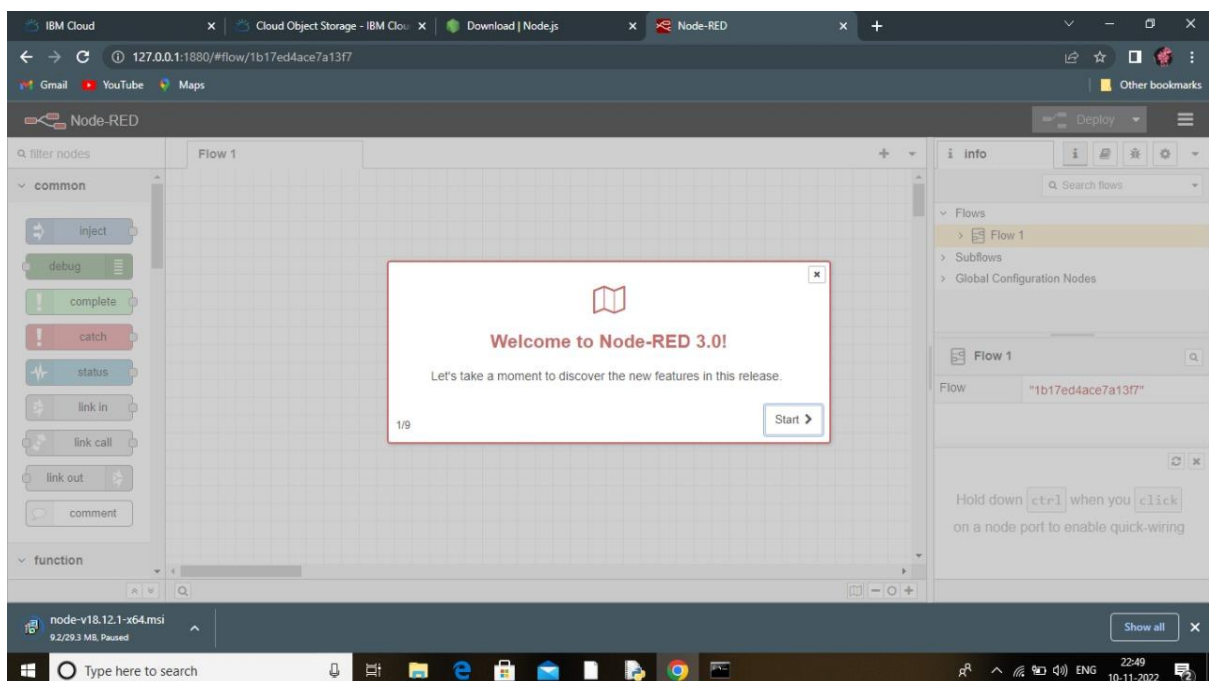
You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
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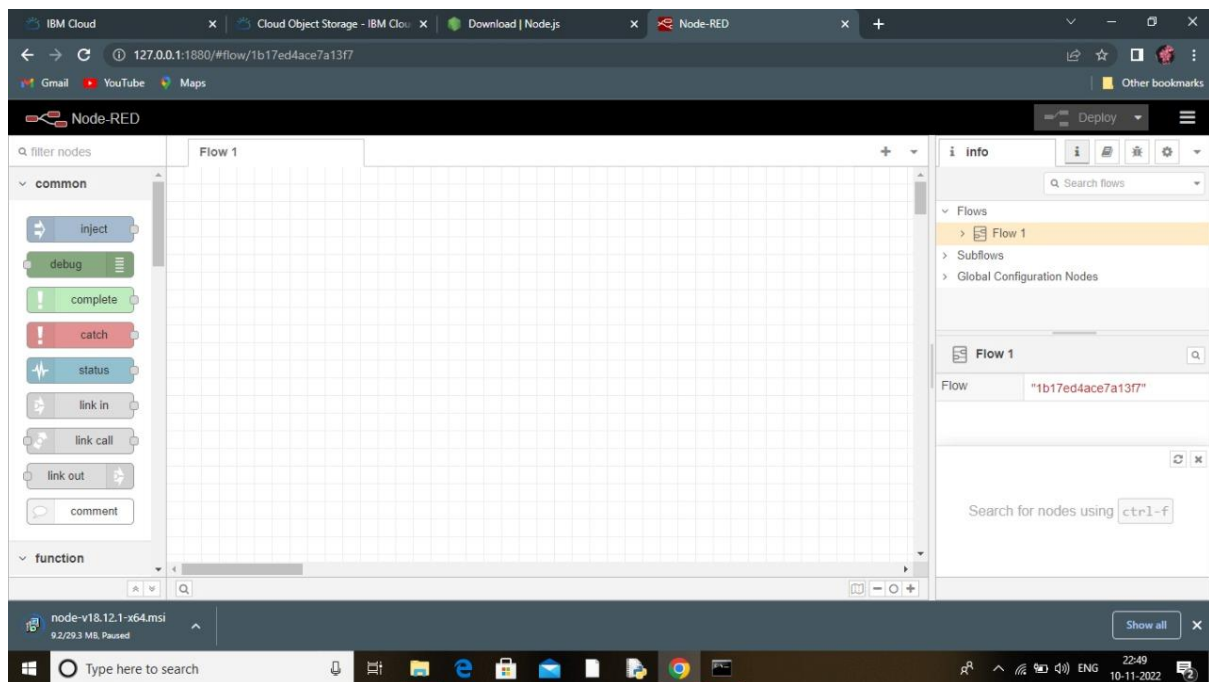
10 Nov 22:48:17 - [info] Server now running at http://127.0.0.1:1880/
10 Nov 22:48:17 - [warn] Encrypted credentials not found
10 Nov 22:48:17 - [info] Starting flows
10 Nov 22:48:17 - [info] Started flows
```

STEP 4:

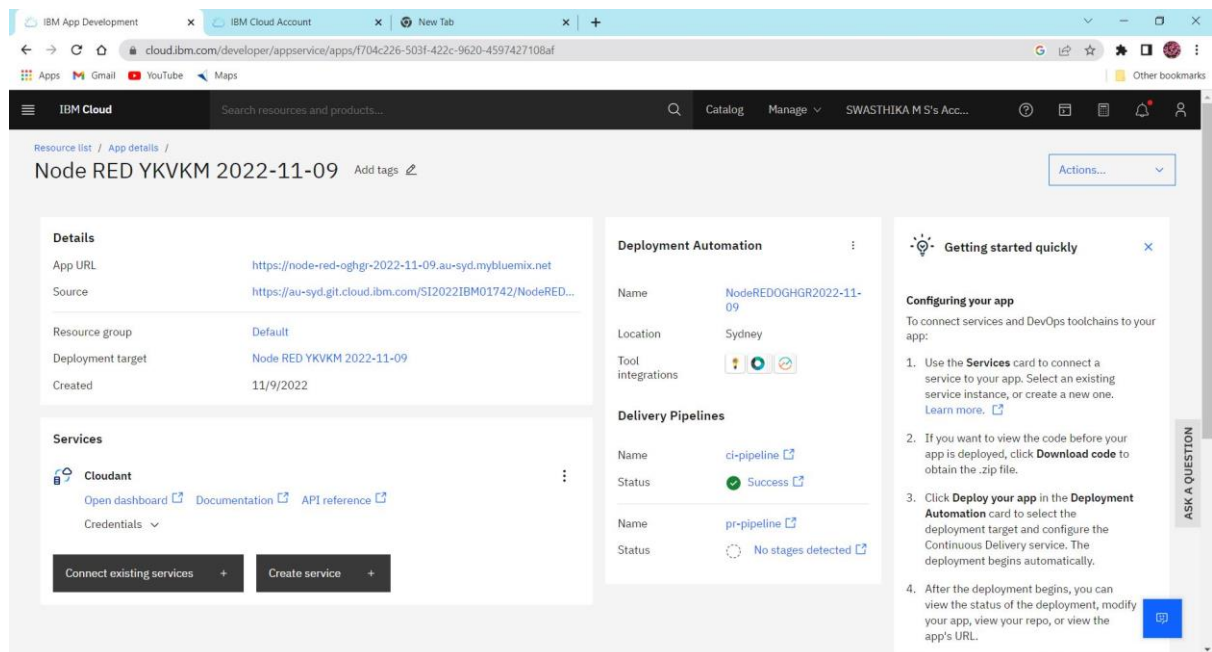
- Type node-red in cmd and u will get the local server link, just open it.

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NODE-RED INSTALLED USING IBM CLOUD ALSO



IBM App Development x Node-RED : node-red-oghgr-20 x https://node-red-oghgr-2022-11-09.au-syd.mybluemix.net/red/#flow/985792d20721bef8 x IBM Cloud Account x New Tab x

node-red-oghgr-2022-11-09.au-syd.mybluemix.net/red/#flow/985792d20721bef8

Apps Gmail YouTube Maps Other bookmarks

Node-RED

filter nodes

Flow 1

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

function
function
switch
change
range

msg.payload

info

Search flows

Flows

- Flow 1
- Subflows
- Global Configuration Nodes

Flow 1

Flow *985792d20721bef8*

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