



Node-RED: The Basics

APPLICATION INTERFACE CONTROLLER

BTB31103

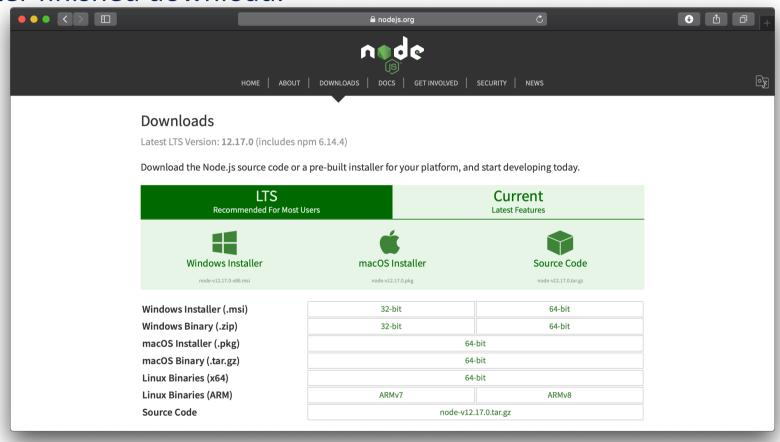
SEMESTER JAN 2020

Safyzan Salim

Download Node-RED & Install

https://nodejs.org/

Execute after finished download.



Download Node-RED & Install

Open command prompt / power shell / terminal and type the following: sudo npm install –g --unsafe-perm node-red

```
--zsh -- 73×9

Last login: Mon Jun 1 15:27:00 on ttys001

@workz ~ % sudo npm install -g --unsafe-perm node-red
```

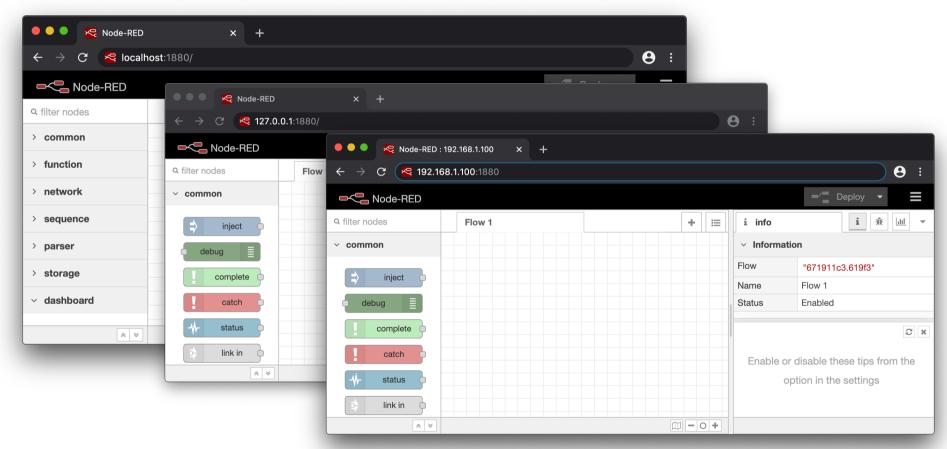
Type **node-red** at command prompt / power shells / terminal.

```
— node-red TMPDIR=/var/folders/rv/s1tjkz1904v8bw55sgj8tnp0...
Last login: Mon Jun 1 12:22:19 on ttys000
[safvzansalim@workz ~ % node-red
1 Jun 15:21:58 - [info]
Welcome to Node-RED
_____
1 Jun 15:21:58 - [info] Node-RED version: v1.0.6
1 Jun 15:21:58 - [info] Node.js version: v12.17.0
1 Jun 15:21:58 - [info] Darwin 19.5.0 x64 LE
1 Jun 15:21:59 - [info] Loading palette nodes
1 Jun 15:21:59 - [info] Dashboard version 2.22.1 started at /ui
1 Jun 15:21:59 - [info] Settings file : /Users/safyzansalim/.node-red/settings.
is
1 Jun 15:21:59 - [info] Context store : 'default' [module=memory]
1 Jun 15:21:59 - [info] User directory : /Users/safyzansalim/.node-red
1 Jun 15:21:59 - [warn] Projects disabled : editorTheme.projects.enabled=false
1 Jun 15:21:59 - [info] Flows file : /Users/safyzansalim/.node-red/flows_wor
kz.local.json
1 Jun 15:21:59 - [warn]
Your flow credentials file is encrypted using a system-generated key.
```

Node-RED Editor

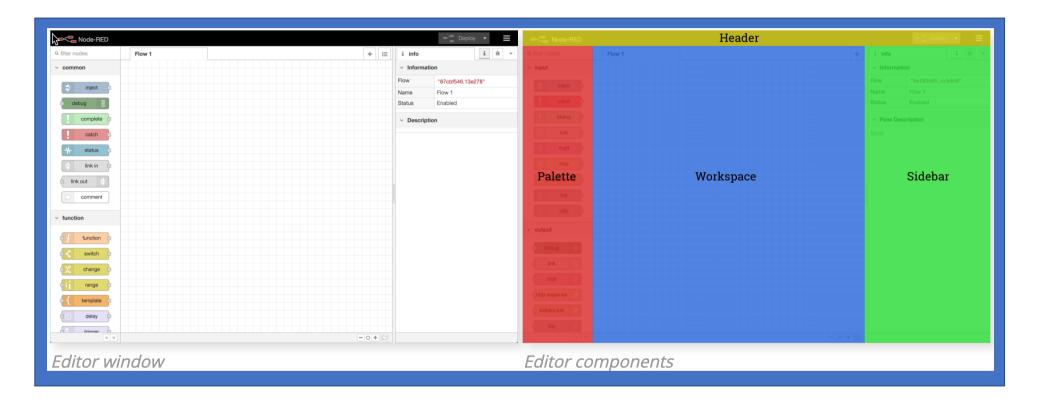
Type the any of the following URLs at your browser:

http://localhost:1880 or http://127.0.0.1:1880 or http://ipaddress:1880

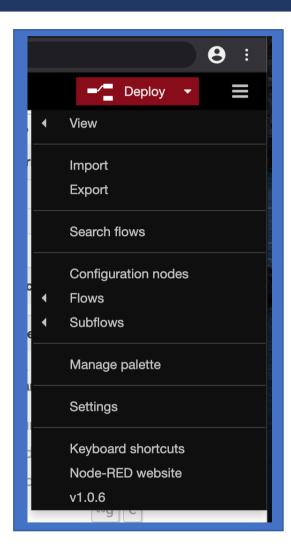


Node-RED: The Editor

The editor components.

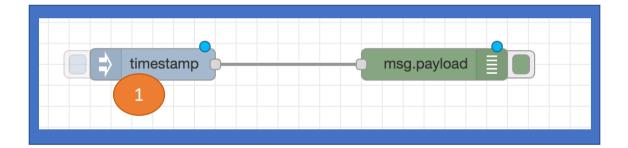


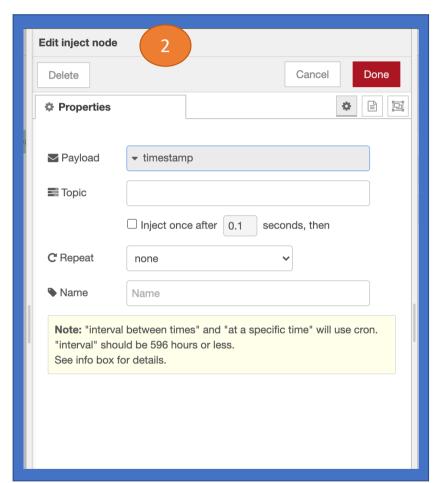
Node-RED: The Menu

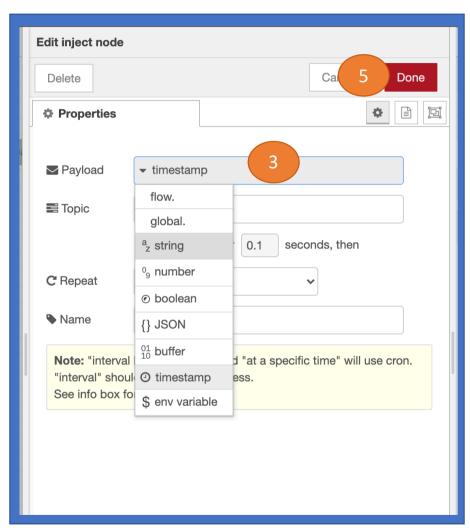


i. Display your name when the inject node is click.

- 1. Place *Inject* node and *Debug* node into workspace.
- 2. Double click the *Inject* node to change the properties.





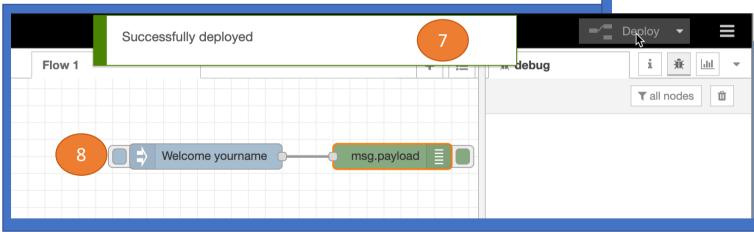


- 3. Click at the *Payload* dropdown box and choose *string*.
- 4. Type Welcome 'yourname'.
- 5. Click Done.



6. Click *Deploy* to update, save and enable execute. It becomes red when you make any changes.

7. Success message box appears right after click *Deploy*.



8. Click to small blue square to trigger the output.

Deploy

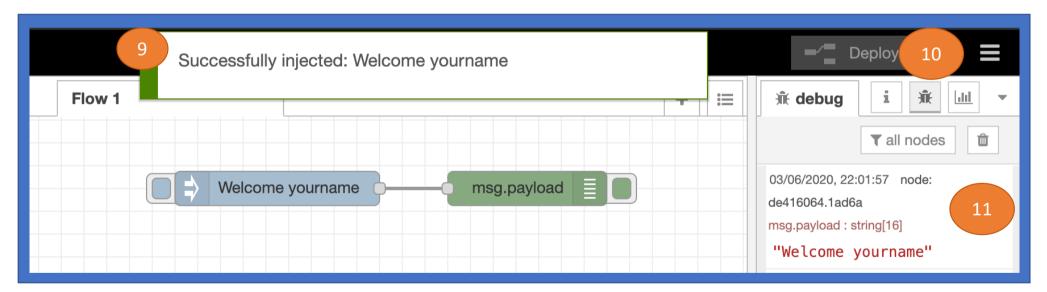
hid

T all nodes

Û

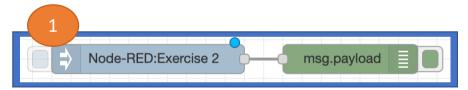
₩ debug

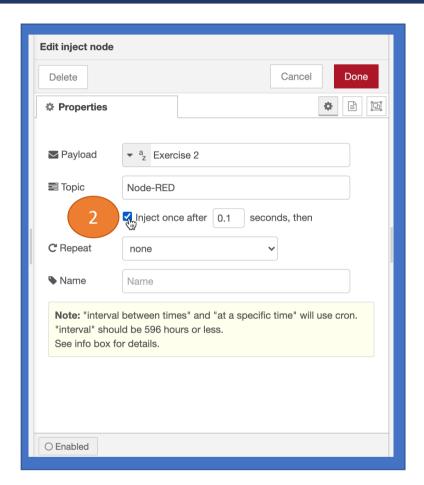
- 9. A successful injected message will pop-up immediate you click inject node.
- 10. Click the bug icon to view the output via debug activity.
- 11. The output.



ii. Change inject mode

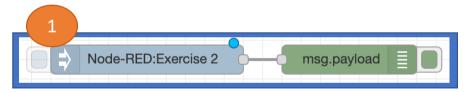
- 1. Set *Inject* node and *Debug* node as follows.
- 2. Click *Inject* once after 0.1 seconds, then...
- 3. Click Done.
- 4. Click Deploy.
- 5. Click *Debug* window.
- 6. Observe the output.

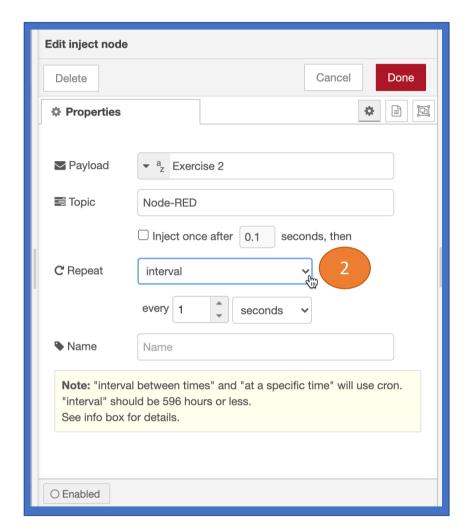




iii. Change inject mode

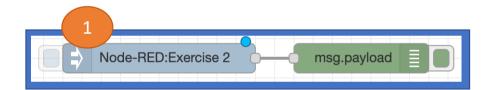
- 1. Set *Inject* node and *Debug* node as follows.
- 2. Set Repeat > interval > every 1 > seconds.
- 3. Click Done.
- 4. Click Deploy.
- 5. Click *Debug* window.
- 6. Observe the output.

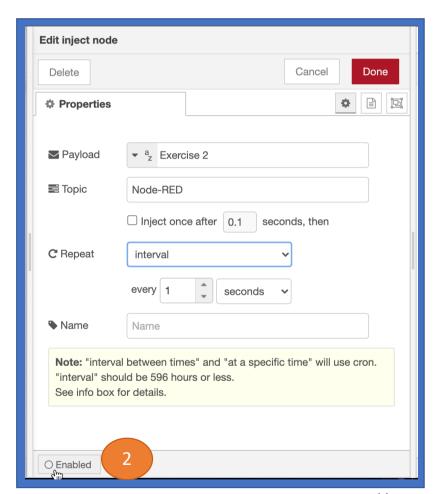




iv. Change inject mode

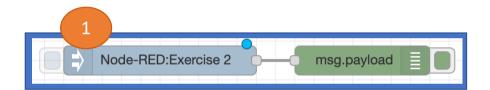
- 1. Set Inject node and Debug node as follows.
- 2. Click *Enabled* radio button.
- 3. Report the results.

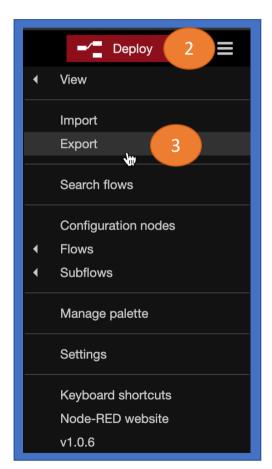




v. Exporting your works

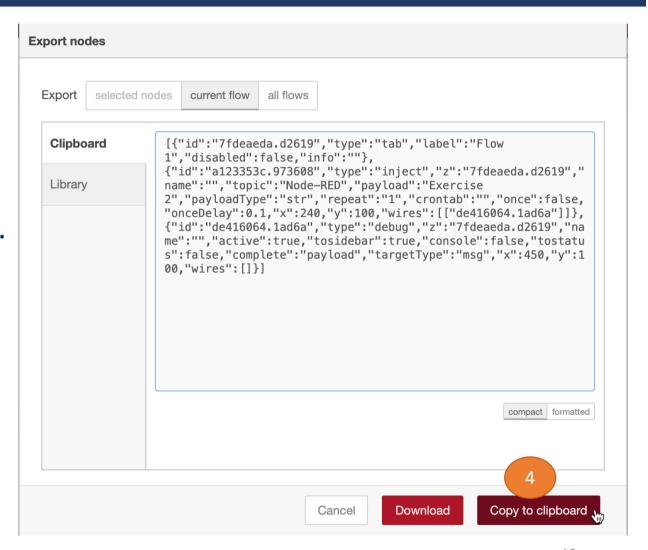
- 1. Set *Inject* node and *Debug* node as follows.
- 2. Click Menu.
- 3. Click Export.





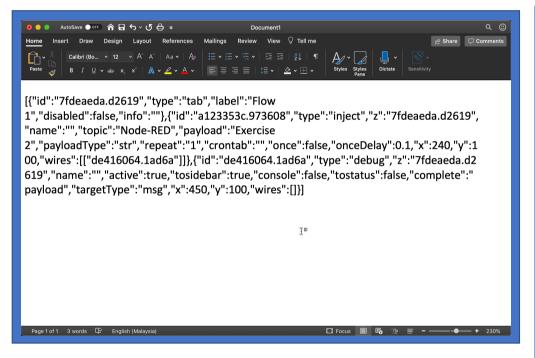
v. Exporting your works

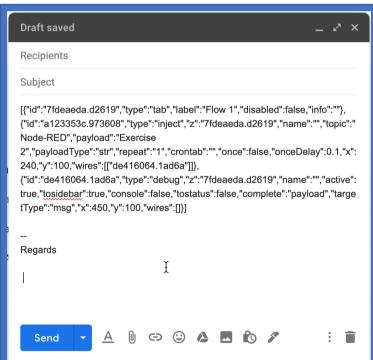
4. Click *Copy to clipboard*. Click *Download* if you wish to download the nodes and it will be saved into your laptop/hard disk with the name of *flows.json*.



v. Exporting your works

6. Open any text editor, email and paste work.





QnA

END