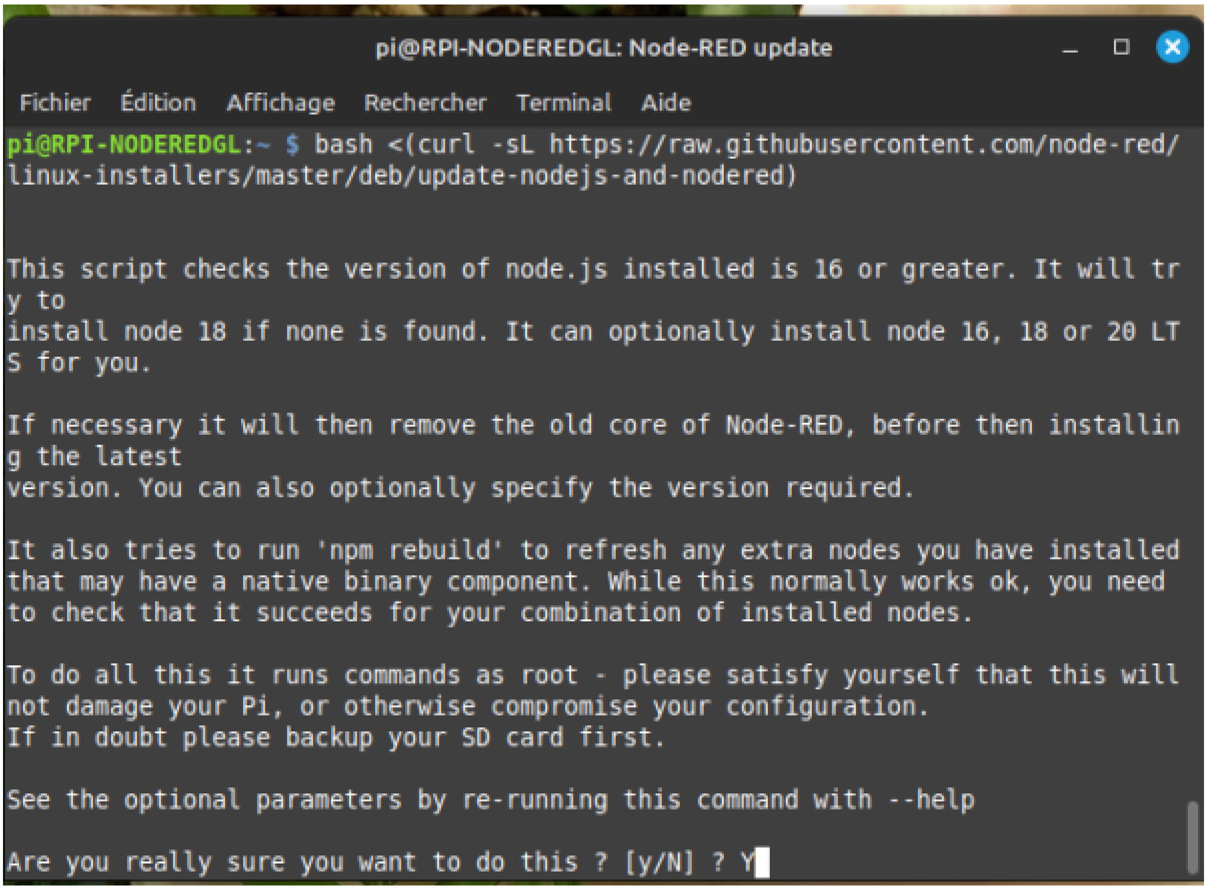
Installation Nouvelle version de node red

nodejs > 18.xx

Repondez Y et appuyer sur la touche “Entrée” pour valider



```
pi@RPI-NODEREDGL:~ $ bash <(curl -sL https://raw.githubusercontent.com/node-red/
linux-installers/master/deb/update-nodejs-and-nodered)


This script checks the version of node.js installed is 16 or greater. It will tr
y to
install node 18 if none is found. It can optionally install node 16, 18 or 20 LT
S for you.

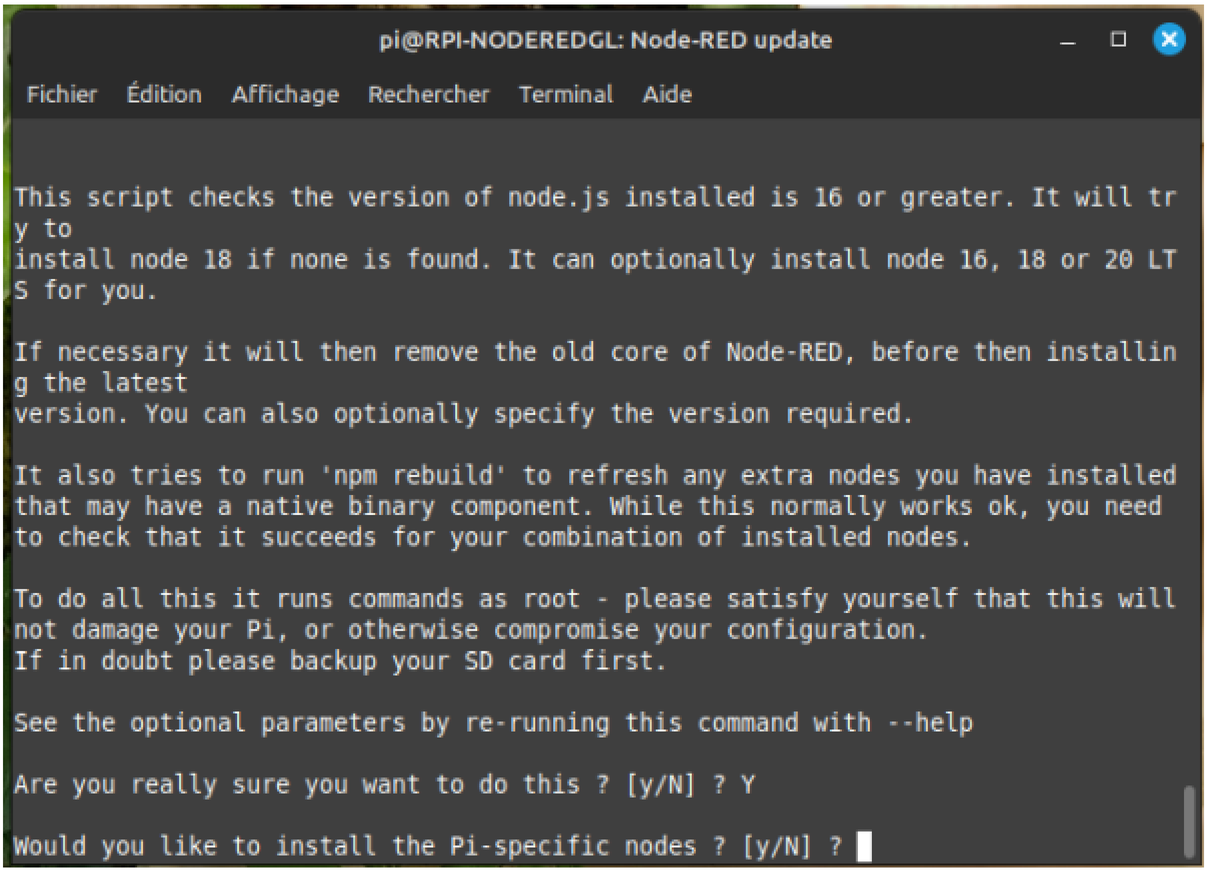
If necessary it will then remove the old core of Node-RED, before then installin
g the latest
version. You can also optionally specify the version required.

It also tries to run 'npm rebuild' to refresh any extra nodes you have installed
that may have a native binary component. While this normally works ok, you need
to check that it succeeds for your combination of installed nodes.

To do all this it runs commands as root - please satisfy yourself that this will
not damage your Pi, or otherwise compromise your configuration.
If in doubt please backup your SD card first.

See the optional parameters by re-running this command with --help

Are you really sure you want to do this ? [y/N] ? Y
```


pi@RPI-NODEREDGL: Node-RED update
Fichier Édition Affichage Rechercher Terminal Aide

```
This script checks the version of node.js installed is 16 or greater. It will tr
y to
install node 18 if none is found. It can optionally install node 16, 18 or 20 LT
S for you.

If necessary it will then remove the old core of Node-RED, before then installin
g the latest
version. You can also optionally specify the version required.

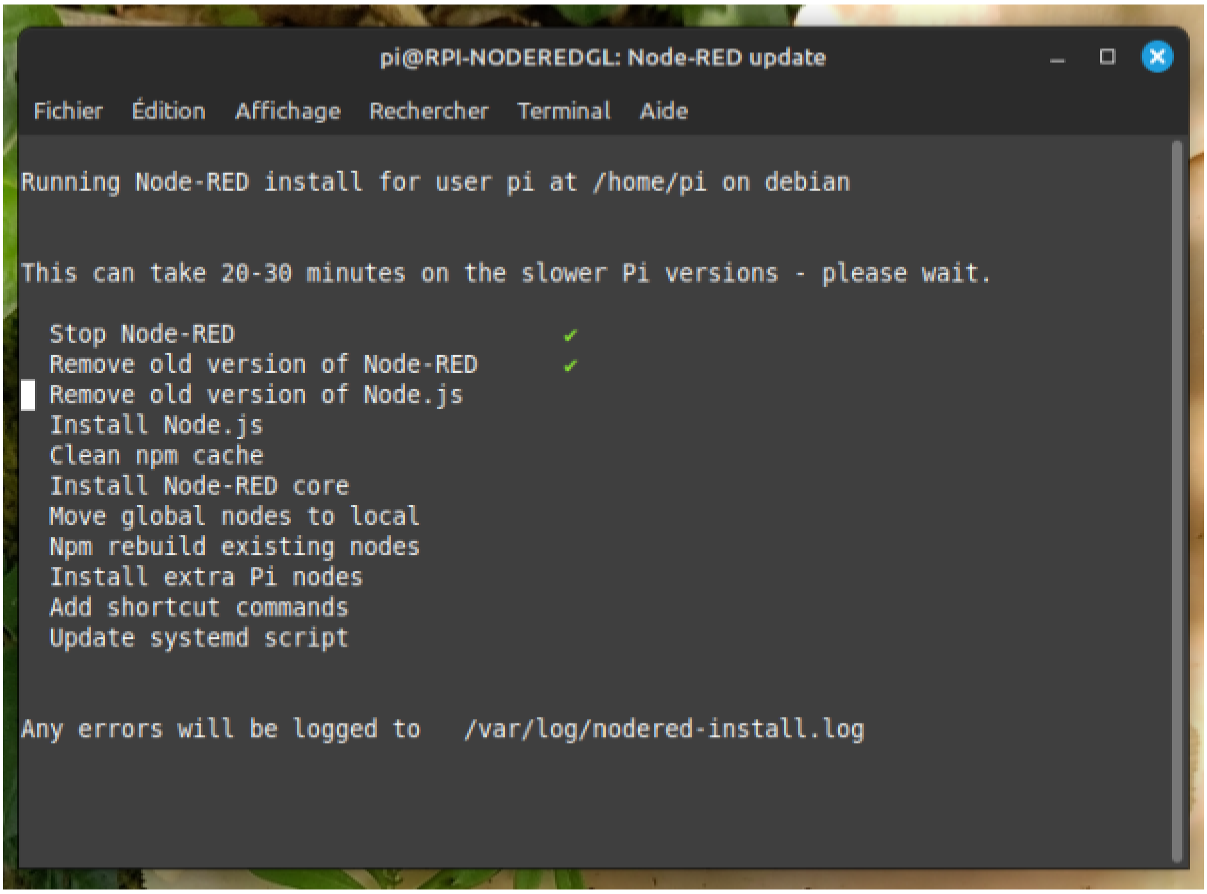
It also tries to run 'npm rebuild' to refresh any extra nodes you have installed
that may have a native binary component. While this normally works ok, you need
to check that it succeeds for your combination of installed nodes.

To do all this it runs commands as root - please satisfy yourself that this will
not damage your Pi, or otherwise compromise your configuration.
If in doubt please backup your SD card first.

See the optional parameters by re-running this command with --help

Are you really sure you want to do this ? [y/N] ? Y

Would you like to install the Pi-specific nodes ? [y/N] ?
```


pi@RPI-NODEREDGL: Node-RED update
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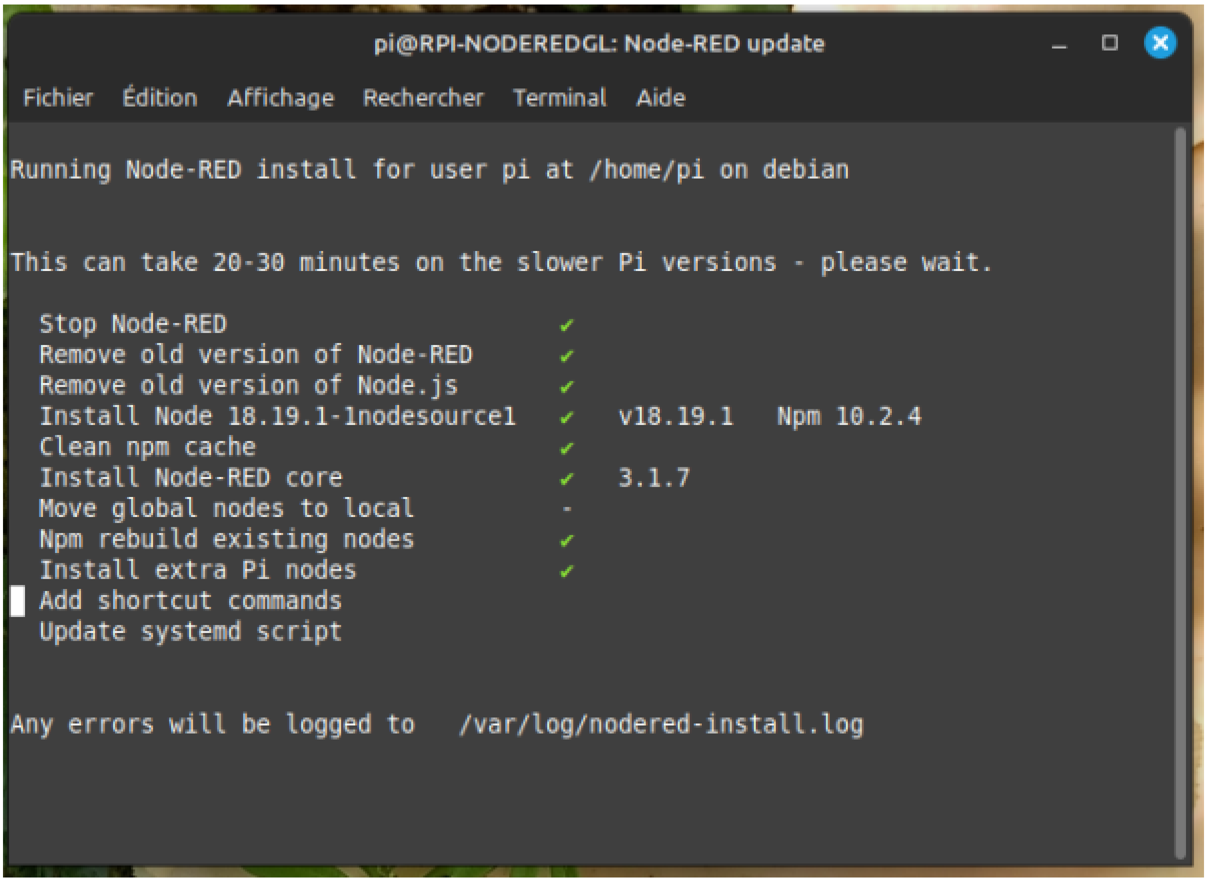
```
Running Node-RED install for user pi at /home/pi on debian


This can take 20-30 minutes on the slower Pi versions - please wait.

  Stop Node-RED                       ✔
  Remove old version of Node-RED      ✔
  Remove old version of Node.js
  Install Node.js
  Clean npm cache
  Install Node-RED core
  Move global nodes to local
  Npm rebuild existing nodes
  Install extra Pi nodes
  Add shortcut commands
  Update systemd script


Any errors will be logged to   /var/log/nodered-install.log
```

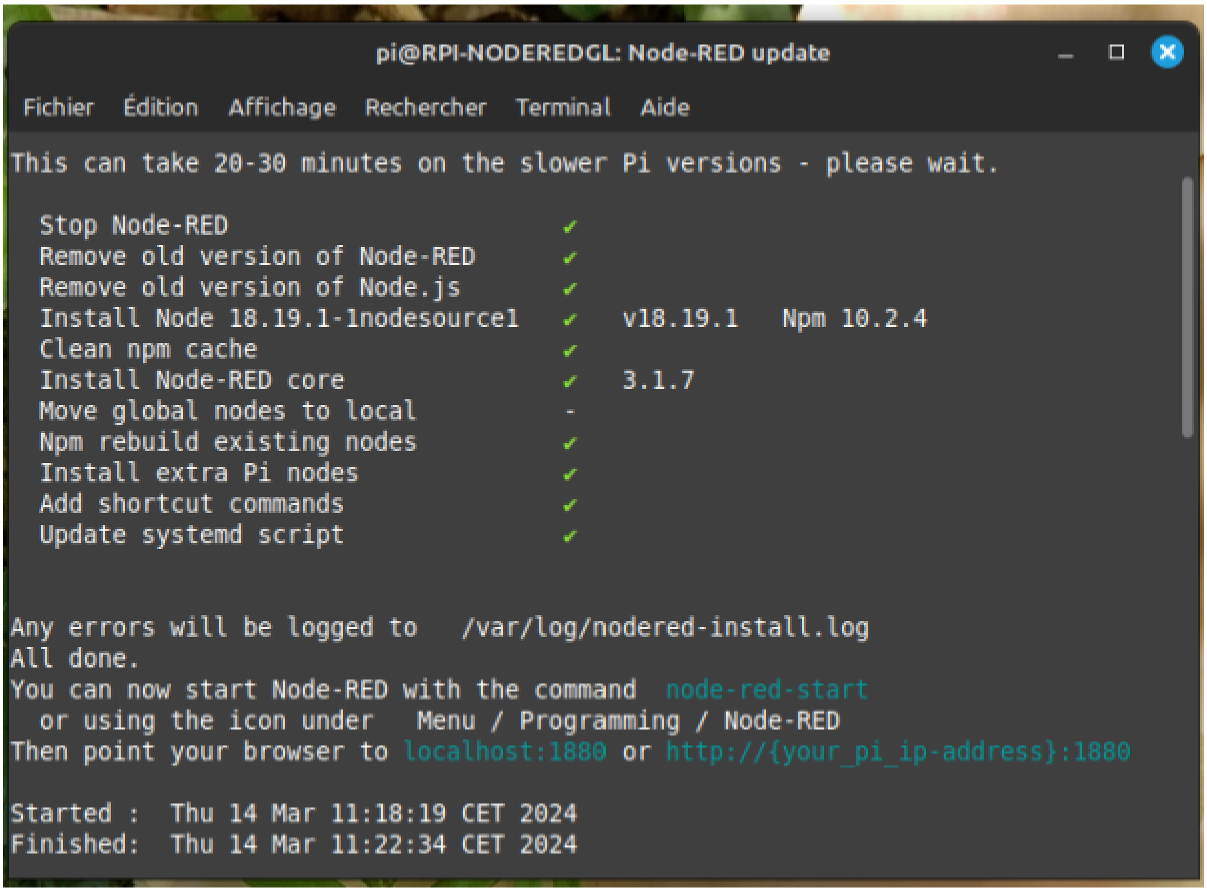

pi@RPI-NODEREDGL: Node-RED update
Fichier Édition Affichage Rechercher Terminal Aide

```
Running Node-RED install for user pi at /home/pi on debian


This can take 20-30 minutes on the slower Pi versions - please wait.

  Stop Node-RED                       ✔
  Remove old version of Node-RED      ✔
  Remove old version of Node.js       ✔
  Install Node 18.19.1-1nodesource1   ✔   v18.19.1   Npm 10.2.4
  Clean npm cache                     ✔
  Install Node-RED core               ✔   3.1.7
  Move global nodes to local          -
  Npm rebuild existing nodes          ✔
  Install extra Pi nodes              ✔
  Add shortcut commands
  Update systemd script


Any errors will be logged to   /var/log/nodered-install.log
```


pi@RPI-NODEREDGL: Node-RED update
Fichier Édition Affichage Rechercher Terminal Aide

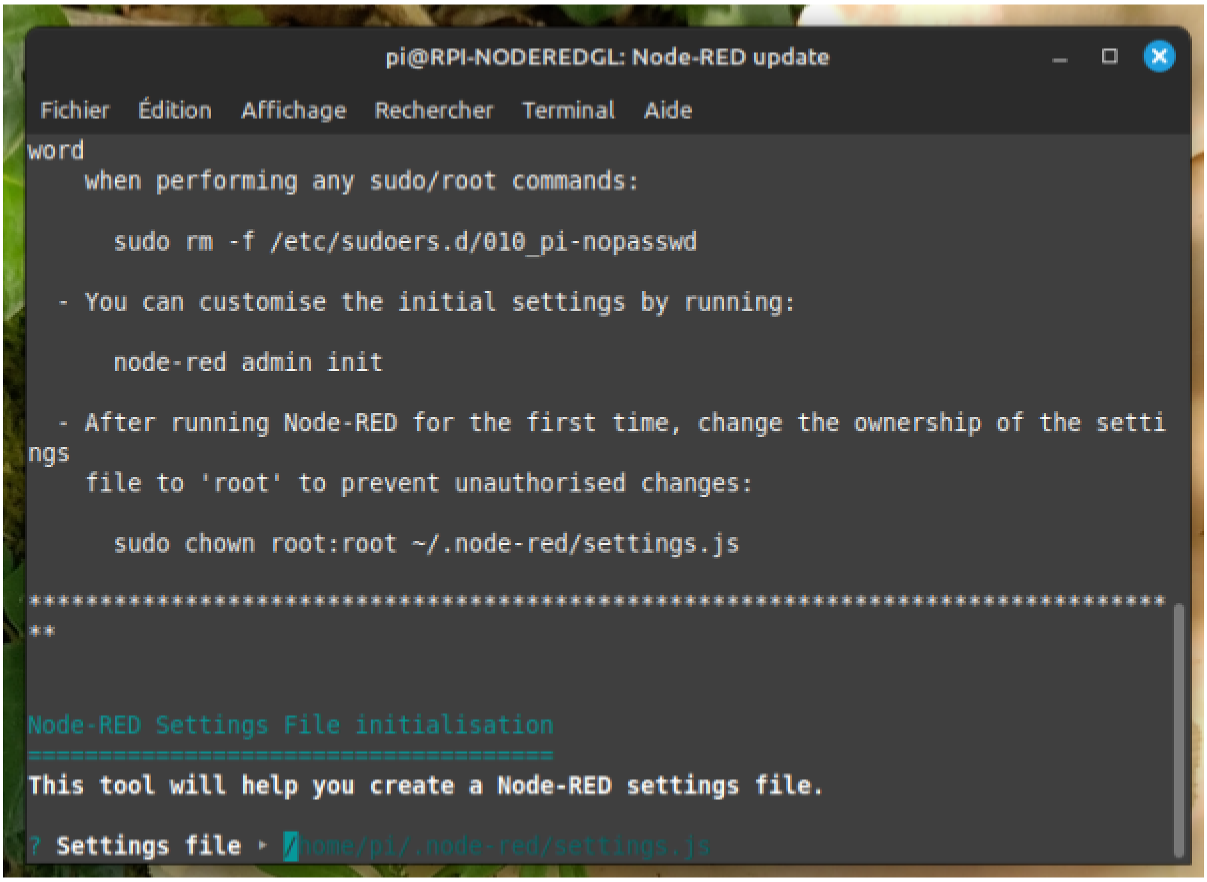
```
This can take 20-30 minutes on the slower Pi versions - please wait.

  Stop Node-RED                       ✔
  Remove old version of Node-RED      ✔
  Remove old version of Node.js       ✔
  Install Node 18.19.1-1nodesource1   ✔   v18.19.1   Npm 10.2.4
  Clean npm cache                     ✔
  Install Node-RED core               ✔   3.1.7
  Move global nodes to local          -
  Npm rebuild existing nodes          ✔
  Install extra Pi nodes              ✔
  Add shortcut commands               ✔
  Update systemd script               ✔


Any errors will be logged to   /var/log/nodered-install.log
All done.
You can now start Node-RED with the command  node-red-start
  or using the icon under   Menu / Programming / Node-RED
Then point your browser to localhost:1880 or http://{your_pi_ip-address}:1880

Started :  Thu 14 Mar 11:18:19 CET 2024
Finished:  Thu 14 Mar 11:22:34 CET 2024
```

Laisser le repertoire de setting.js par defaut et taper “Entrée”


pi@RPI-NODEREDGL: Node-RED update
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```
word
    when performing any sudo/root commands:

      sudo rm -f /etc/sudoers.d/010_pi-nopasswd

  - You can customise the initial settings by running:

      node-red admin init

  - After running Node-RED for the first time, change the ownership of the setti
ngs
    file to 'root' to prevent unauthorised changes:

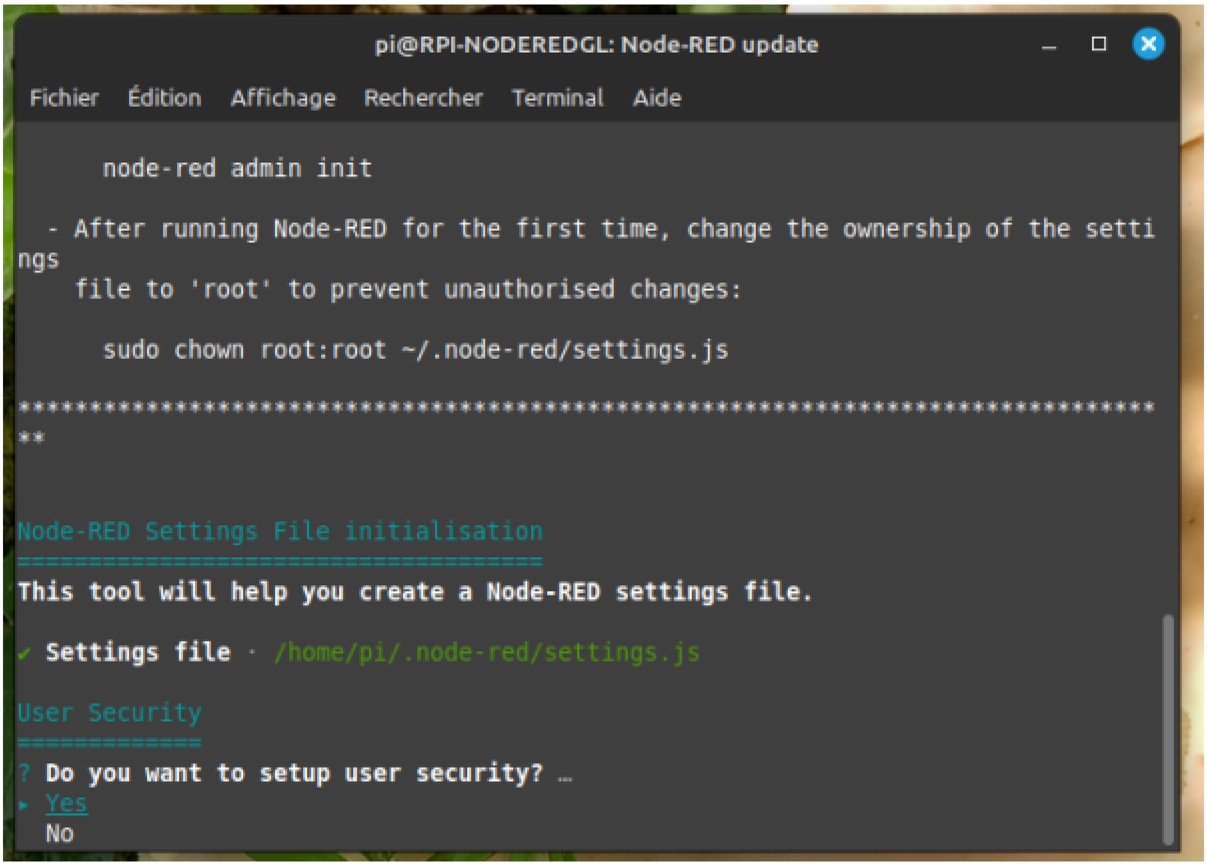
      sudo chown root:root ~/.node-red/settings.js

********************************************************************************
**


Node-RED Settings File initialisation
=====================================
This tool will help you create a Node-RED settings file.

? Settings file › /home/pi/.node-red/settings.js
```

“Yes” par defaut pour entrer les parametres de securité (login et mode de passe) , appuyer sur “Entrée”


pi@RPI-NODEREDGL: Node-RED update
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```
      node-red admin init

  - After running Node-RED for the first time, change the ownership of the setti
ngs
    file to 'root' to prevent unauthorised changes:

      sudo chown root:root ~/.node-red/settings.js

********************************************************************************
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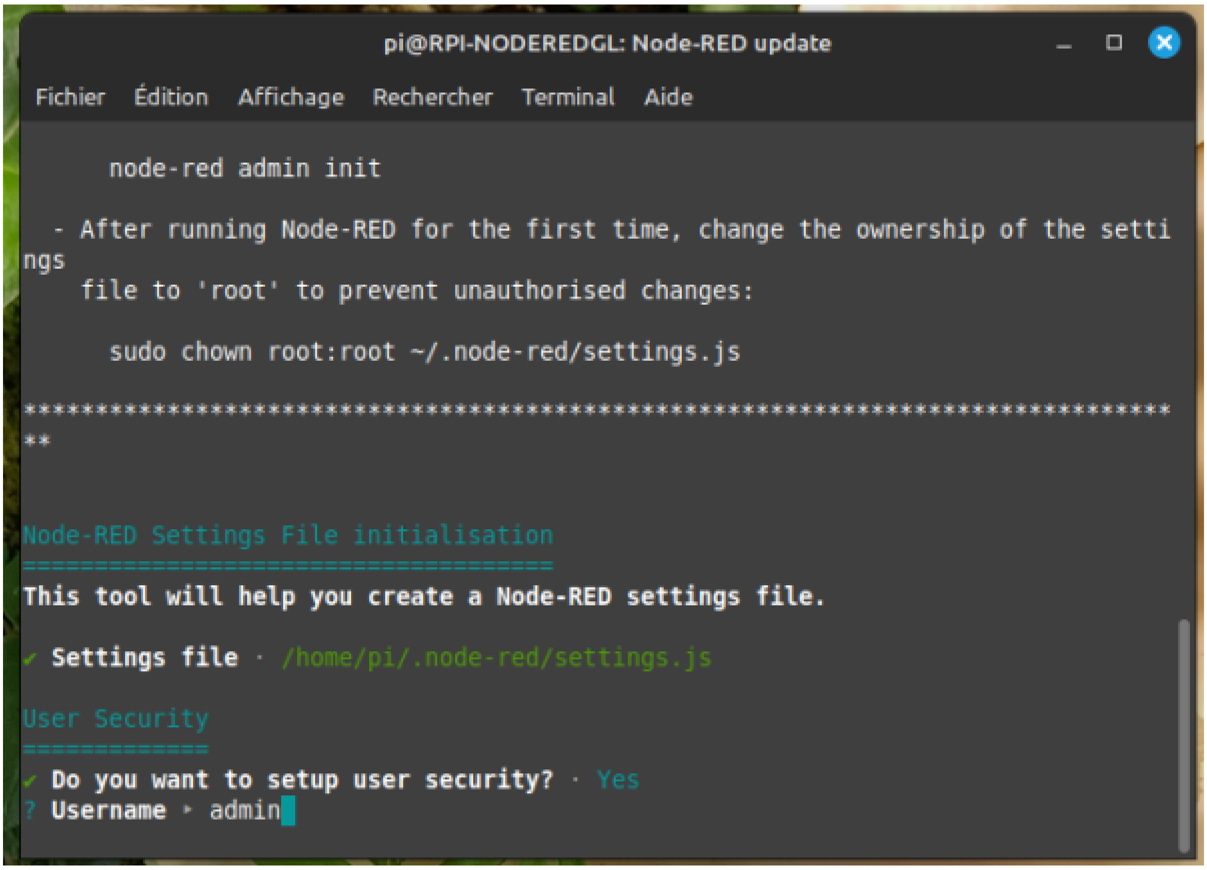
Node-RED Settings File initialisation
=====================================
This tool will help you create a Node-RED settings file.

✔ Settings file · /home/pi/.node-red/settings.js

User Security
=============
? Do you want to setup user security? …
› Yes
  No
```

Login “admin”


pi@RPI-NODEREDGL: Node-RED update
Fichier Édition Affichage Rechercher Terminal Aide

```
     node-red admin init

   - After running Node-RED for the first time, change the ownership of the setti
ngs
     file to 'root' to prevent unauthorised changes:

     sudo chown root:root ~/.node-red/settings.js

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Node-RED Settings File initialisation
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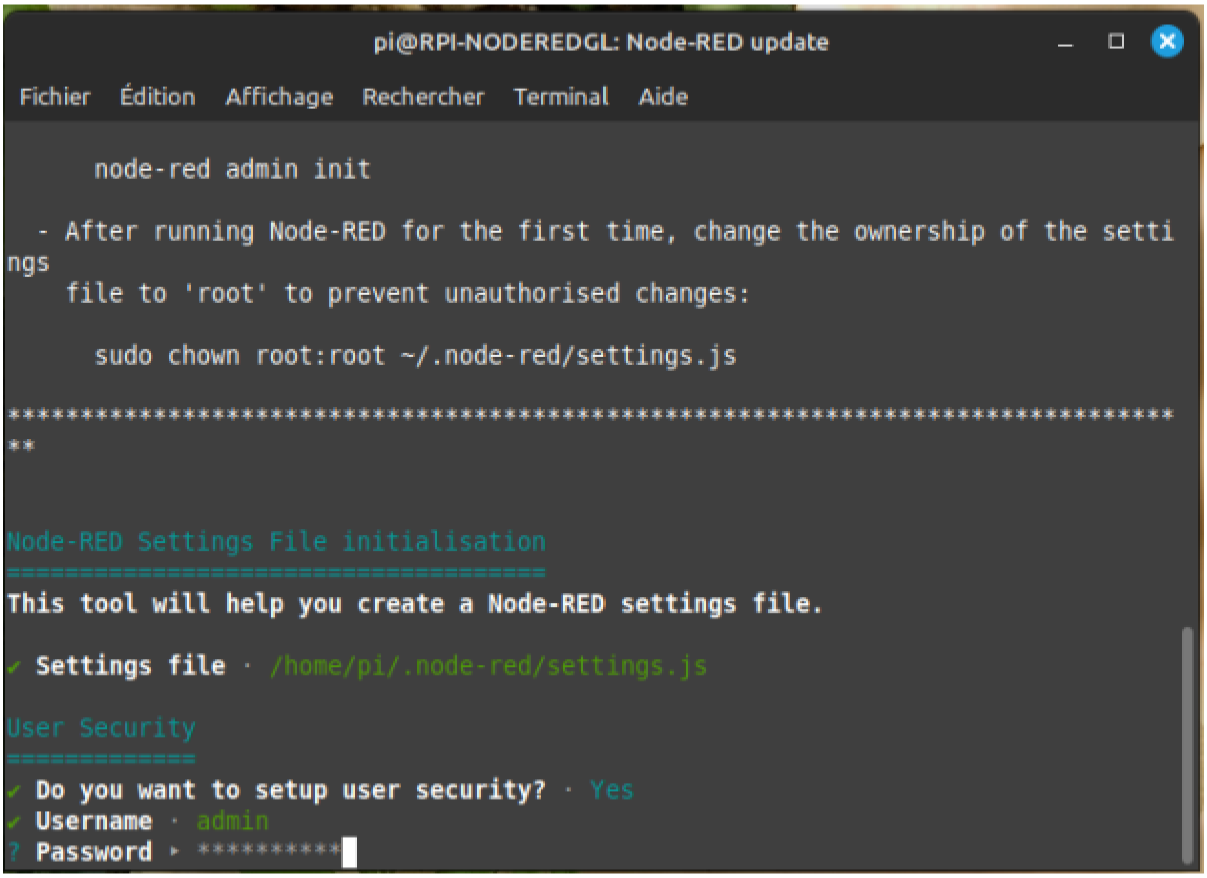
This tool will help you create a Node-RED settings file.

✔ Settings file · /home/pi/.node-red/settings.js

User Security
=============
✔ Do you want to setup user security? · Yes
? Username ‣ admin
```

Mot de passe assez long pour la securité, entre 10 et 15 caractéres (!!! **Notez le** !!!!)


pi@RPI-NODEREDGL: Node-RED update
Fichier Édition Affichage Rechercher Terminal Aide

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   - After running Node-RED for the first time, change the ownership of the setti
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Node-RED Settings File initialisation
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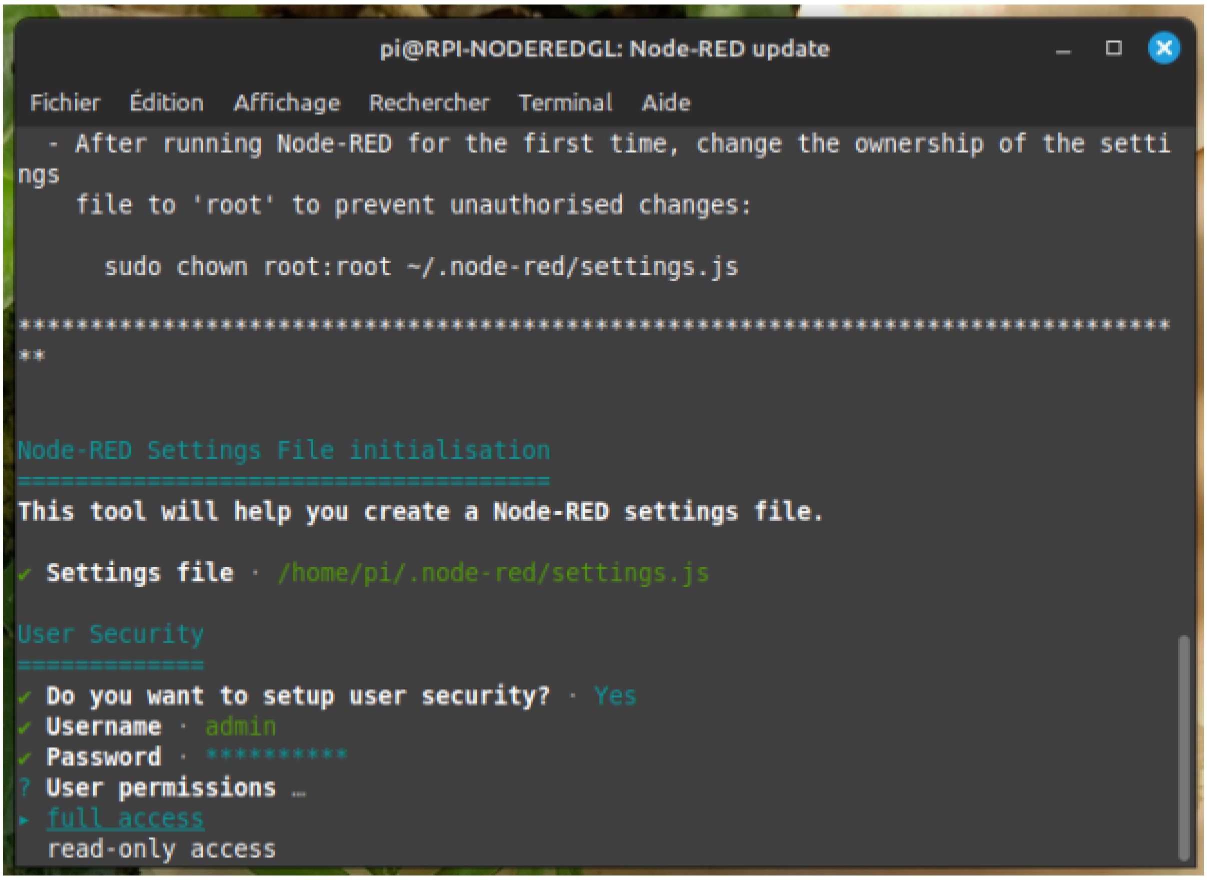
This tool will help you create a Node-RED settings file.

✔ Settings file · /home/pi/.node-red/settings.js

User Security
=============
✔ Do you want to setup user security? · Yes
✔ Username · admin
? Password ‣ **********
```



pi@RPI-NODEREDGL: Node-RED update
Fichier Édition Affichage Rechercher Terminal Aide

```
  - After running Node-RED for the first time, change the ownership of the setti
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Node-RED Settings File initialisation
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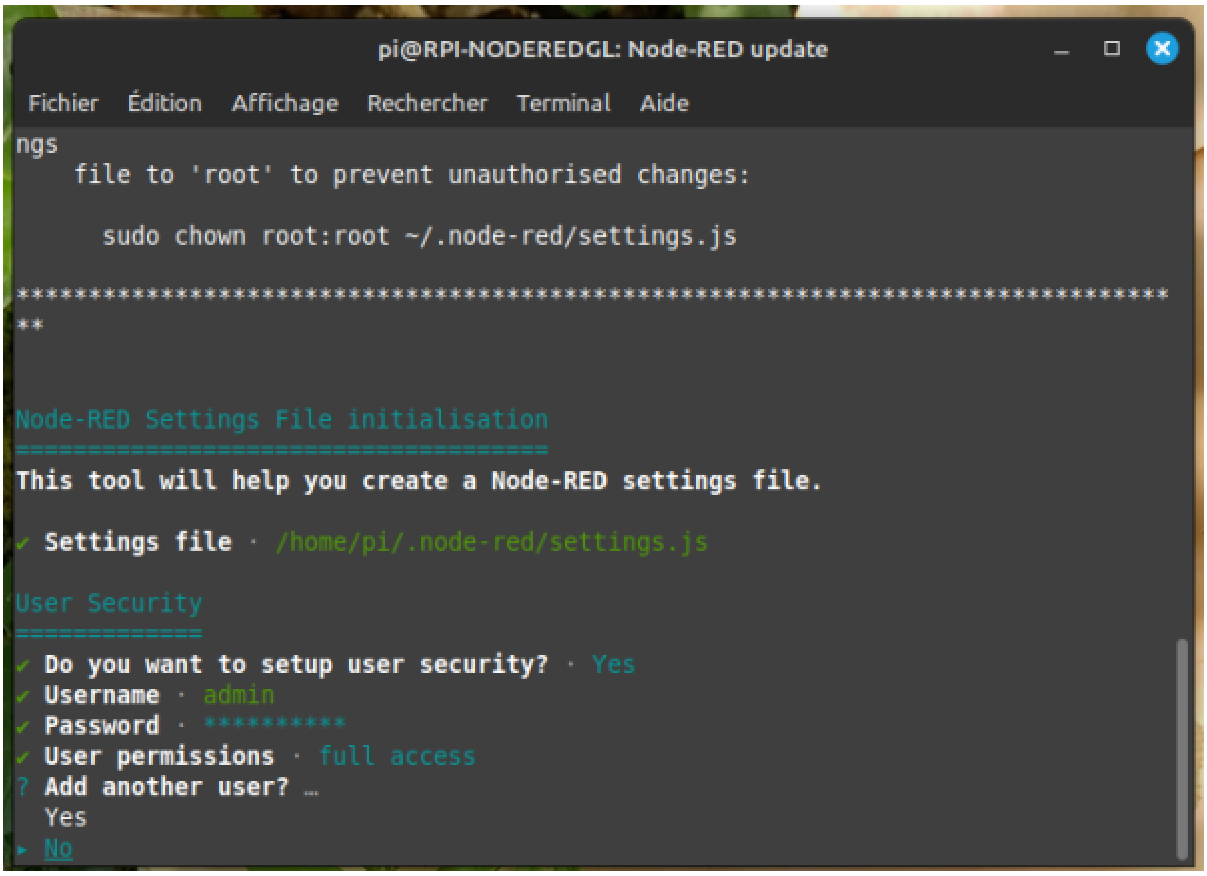
This tool will help you create a Node-RED settings file.

✔ Settings file · /home/pi/.node-red/settings.js

User Security
=============
✔ Do you want to setup user security? · Yes
✔ Username · admin
✔ Password · **********
? User permissions …
▸ full access
  read-only access
```



pi@RPI-NODEREDGL: Node-RED update
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```
ngs
    file to 'root' to prevent unauthorised changes:

      sudo chown root:root ~/.node-red/settings.js

********************************************************************************
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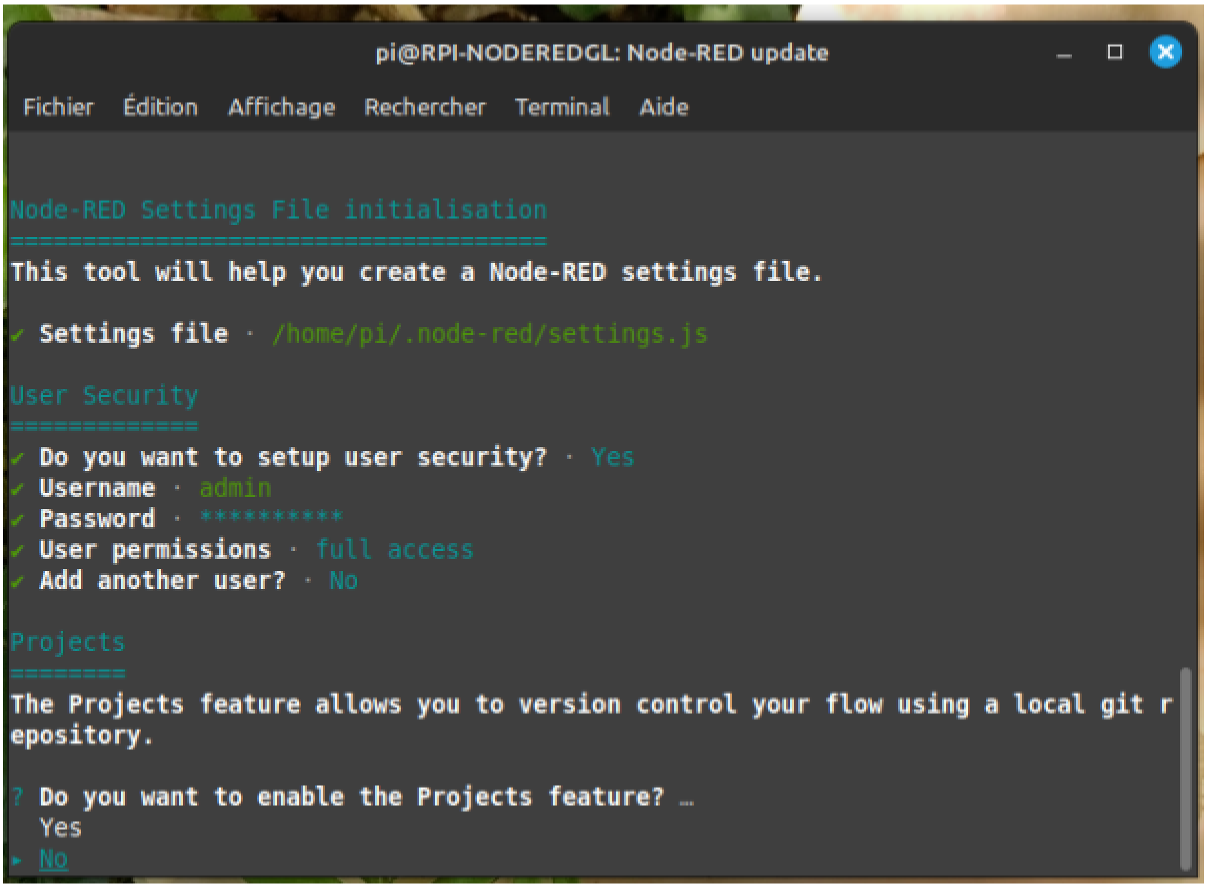
Node-RED Settings File initialisation
=====================================
This tool will help you create a Node-RED settings file.

✔ Settings file · /home/pi/.node-red/settings.js

User Security
=============
✔ Do you want to setup user security? · Yes
✔ Username · admin
✔ Password · **********
✔ User permissions · full access
? Add another user? …
  Yes
▸ No
```


pi@RPI-NODEREDGL: Node-RED update
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```
Node-RED Settings File initialisation
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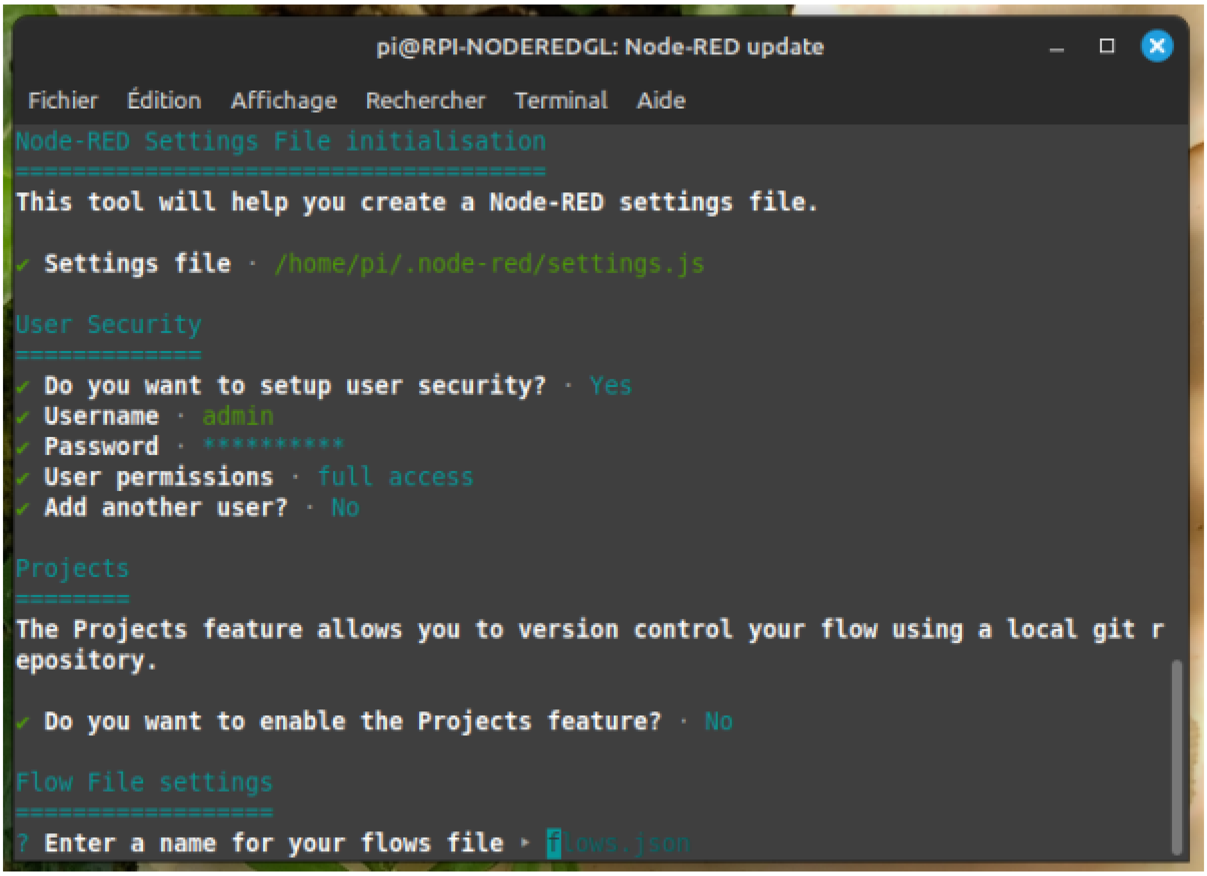
✔ Settings file · /home/pi/.node-red/settings.js

User Security
=============
✔ Do you want to setup user security? · Yes
✔ Username · admin
✔ Password · **********
✔ User permissions · full access
✔ Add another user? · No

Projects
========
The Projects feature allows you to version control your flow using a local git r
epository.

? Do you want to enable the Projects feature? …
  Yes
▸ No
```


pi@RPI-NODEREDGL: Node-RED update
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```
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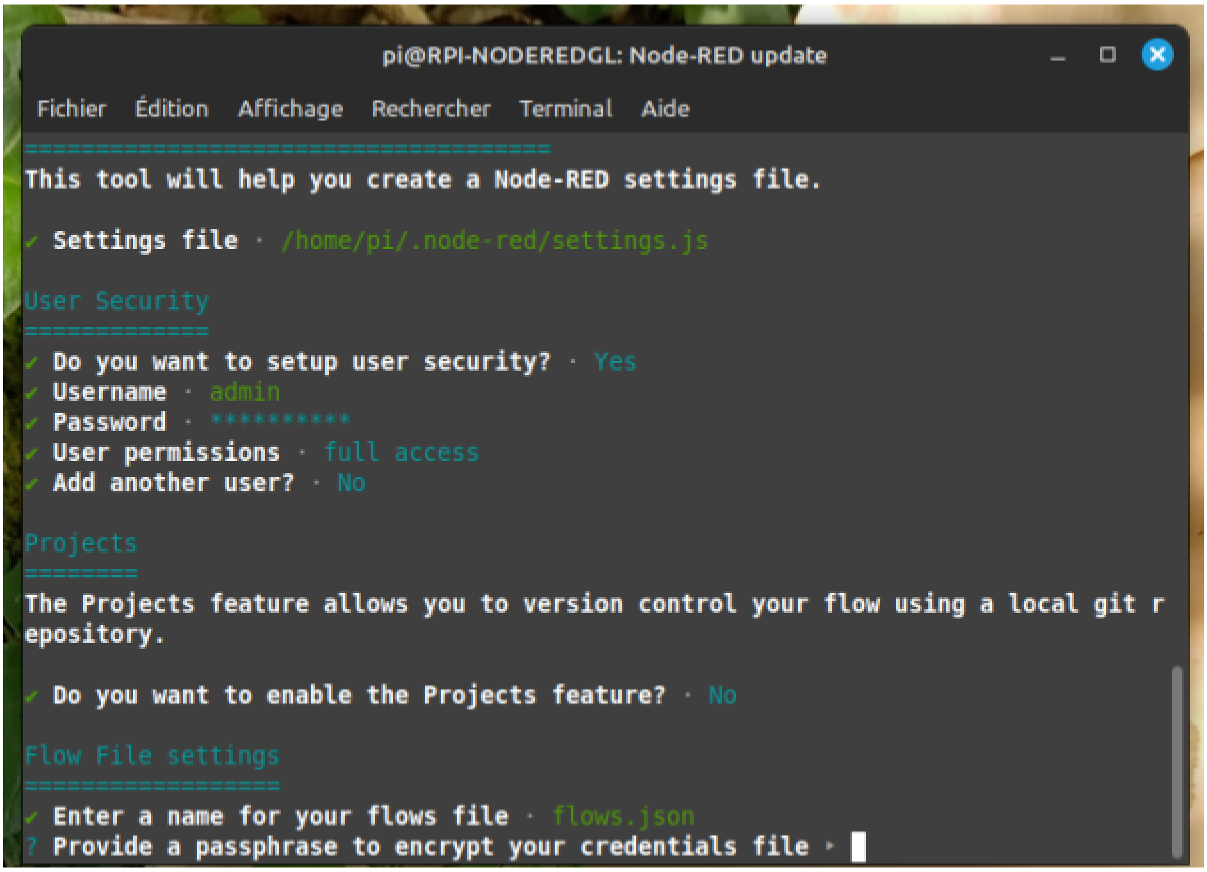
User Security
=============
✔ Do you want to setup user security? · Yes
✔ Username · admin
✔ Password · **********
✔ User permissions · full access
✔ Add another user? · No

Projects
========
The Projects feature allows you to version control your flow using a local git r
epository.

✔ Do you want to enable the Projects feature? · No

Flow File settings
==================
? Enter a name for your flows file › flows.json
```


pi@RPI-NODEREDGL: Node-RED update
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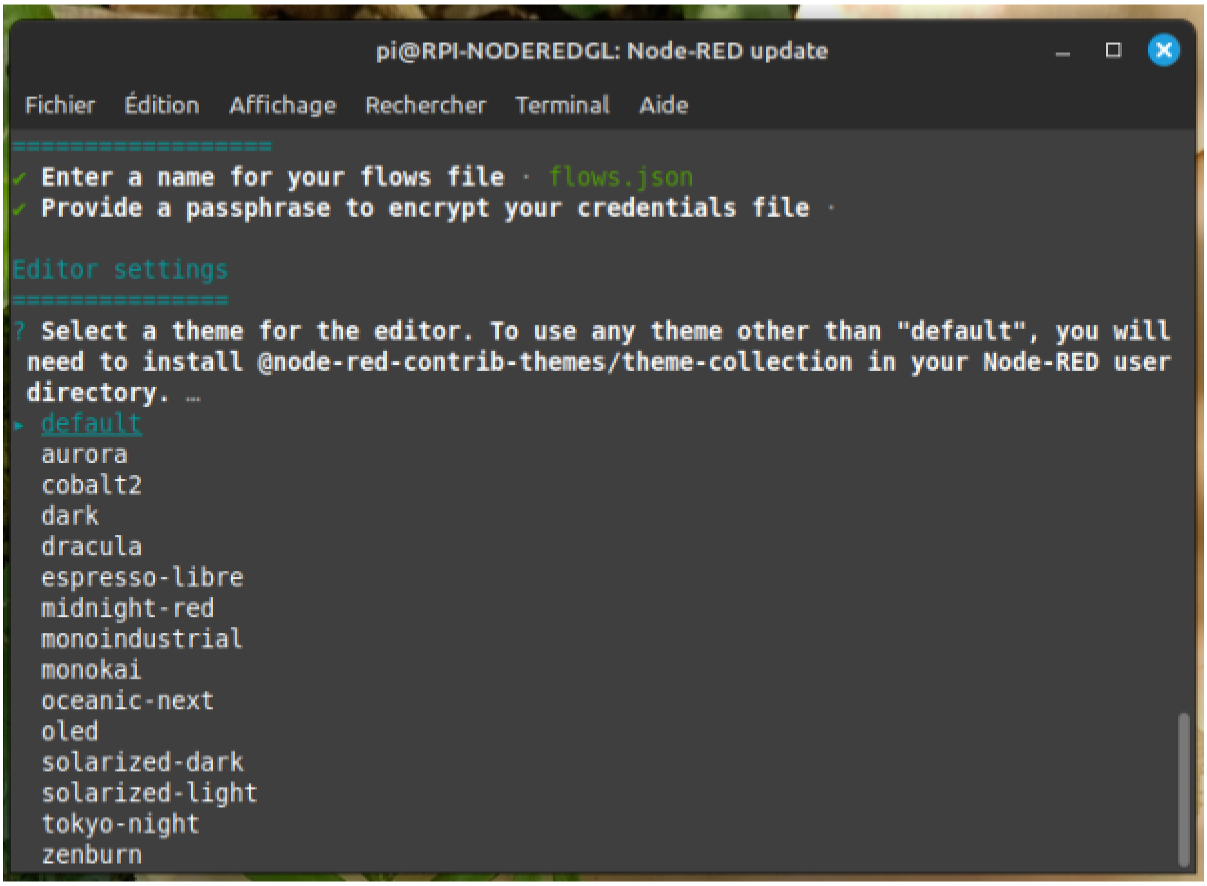
✔ Settings file · /home/pi/.node-red/settings.js

User Security
=============
✔ Do you want to setup user security? · Yes
✔ Username · admin
✔ Password · **********
✔ User permissions · full access
✔ Add another user? · No

Projects
========
The Projects feature allows you to version control your flow using a local git r
epository.

✔ Do you want to enable the Projects feature? · No

Flow File settings
==================
✔ Enter a name for your flows file · flows.json
? Provide a passphrase to encrypt your credentials file ›
```


pi@RPI-NODEREDGL: Node-RED update
Fichier
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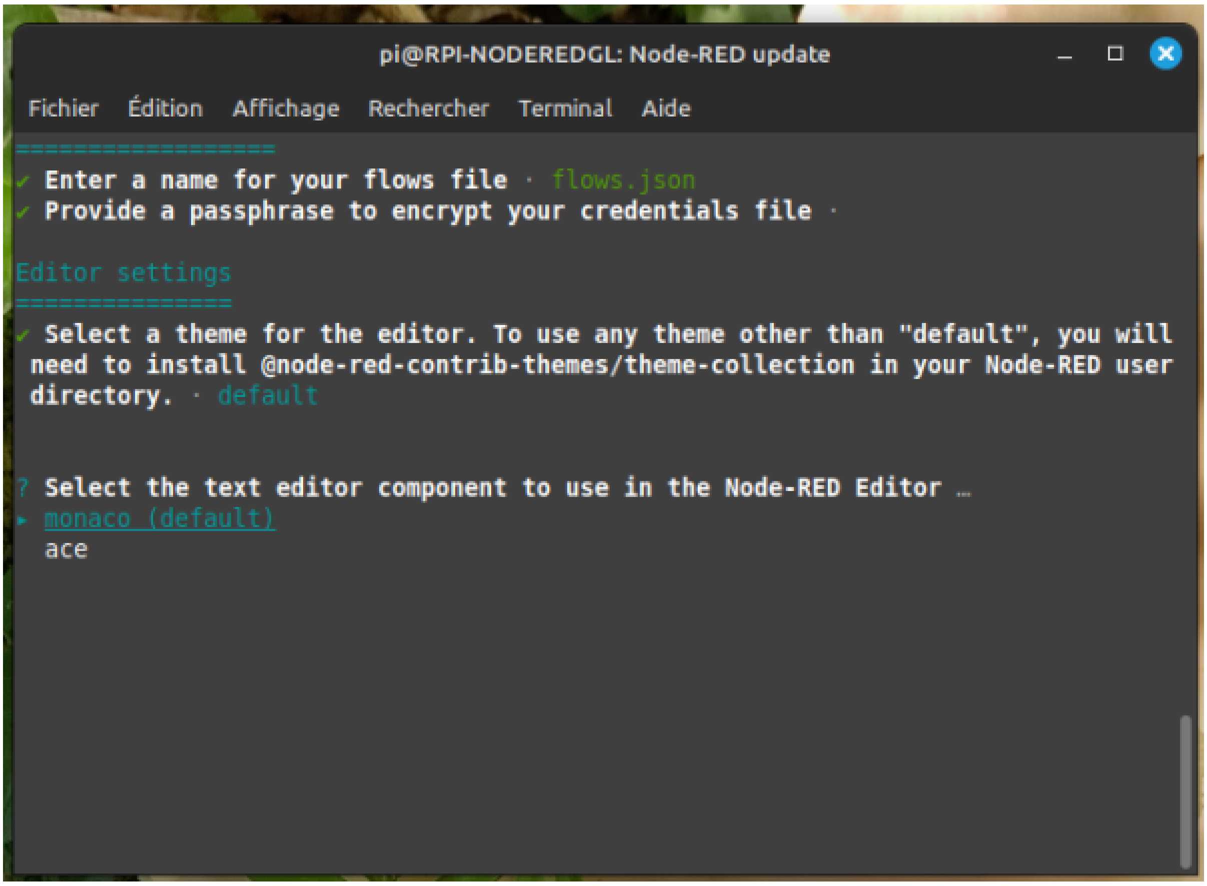
Rechercher
Terminal
Aide

```
==================
✔ Enter a name for your flows file · flows.json
✔ Provide a passphrase to encrypt your credentials file ·

Editor settings
===============
? Select a theme for the editor. To use any theme other than "default", you will
 need to install @node-red-contrib-themes/theme-collection in your Node-RED user
 directory. …
› default
  aurora
  cobalt2
  dark
  dracula
  espresso-libre
  midnight-red
  monoindustrial
  monokai
  oceanic-next
  oled
  solarized-dark
  solarized-light
  tokyo-night
  zenburn
```


pi@RPI-NODEREDGL: Node-RED update
Fichier Édition Affichage Rechercher Terminal Aide

```
==================
✔ Enter a name for your flows file · flows.json
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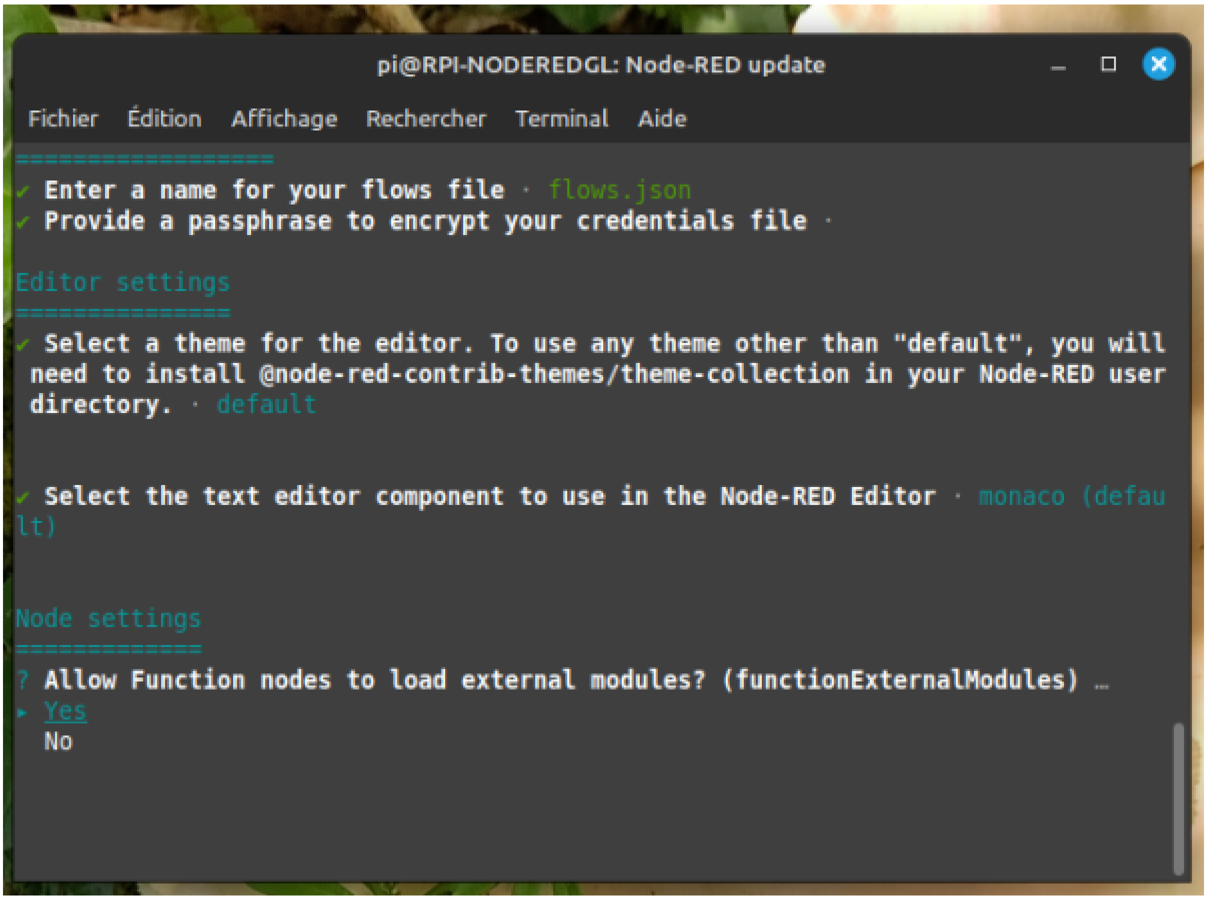
Editor settings
===============
✔ Select a theme for the editor. To use any theme other than "default", you will
 need to install @node-red-contrib-themes/theme-collection in your Node-RED user
 directory. · default


? Select the text editor component to use in the Node-RED Editor …
▸ monaco (default)
  ace
```


pi@RPI-NODEREDGL: Node-RED update
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✔ Enter a name for your flows file · flows.json
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Editor settings
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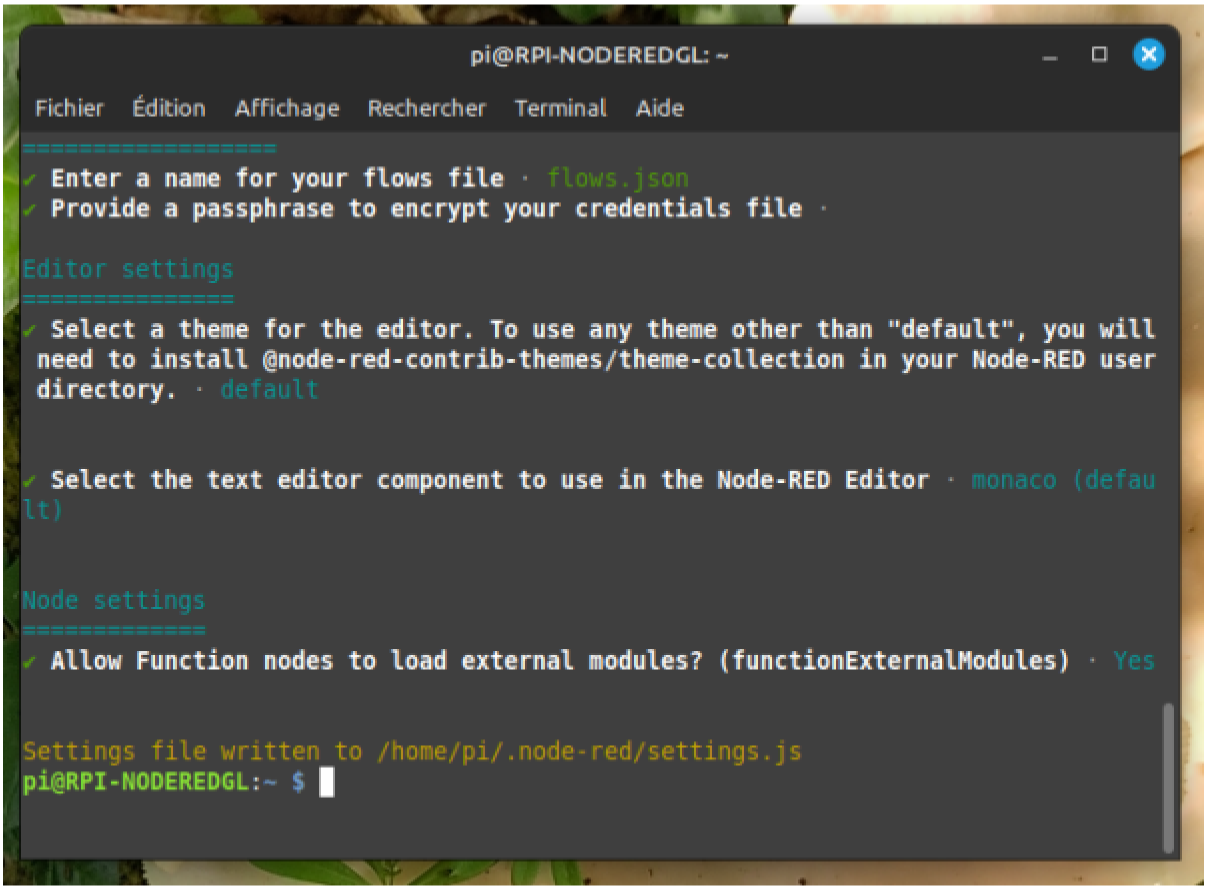
 need to install @node-red-contrib-themes/theme-collection in your Node-RED user
 directory. · default


✔ Select the text editor component to use in the Node-RED Editor · monaco (defau
lt)


Node settings
=============
? Allow Function nodes to load external modules? (functionExternalModules) …
▸ Yes
  No
```



```
==================
✓ Enter a name for your flows file · flows.json
✓ Provide a passphrase to encrypt your credentials file ·

Editor settings
===============
✓ Select a theme for the editor. To use any theme other than "default", you will
 need to install @node-red-contrib-themes/theme-collection in your Node-RED user
 directory. · default


✓ Select the text editor component to use in the Node-RED Editor · monaco (defau
lt)


Node settings
=============
✓ Allow Function nodes to load external modules? (functionExternalModules) · Yes


Settings file written to /home/pi/.node-red/settings.js
pi@RPI-NODEREDGL:~ $ 
```

Automatiser le démarrage

Lançons maintenant Node-RED :

```
node-red-start
```

Faire

- Ctrl C apres avoir vu :

```
 10 Oct 16:24:57 - [info] Started flows ( date du raspberry !!)
```

pour revenir au prompt:

Avant de découvrir son interface, puisque nous allons utiliser Node-RED en domotique, nous voulons qu’il se lance automatiquement au démarrage de notre Raspberry Pi.

Pour ce faire, nous avons besoin de cette commande :

```
sudo systemctl enable nodered.service
```

L'installation de node-red est terminée

Faire un redemarrage du rasberry

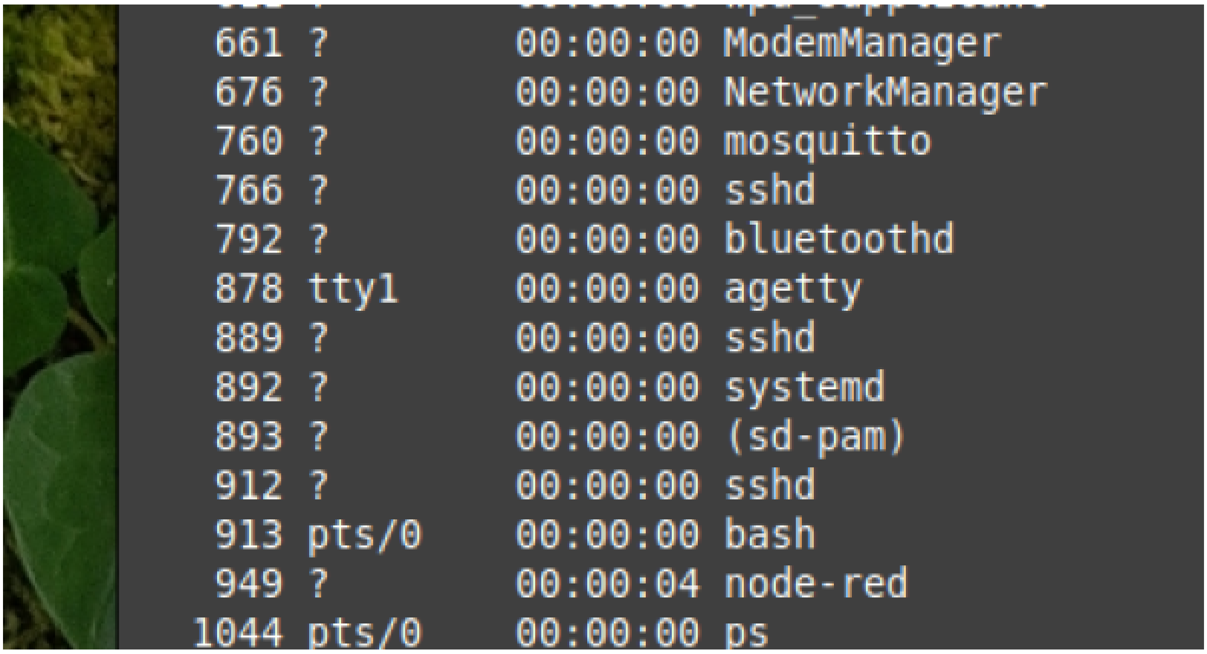
```
sudo shutdown -r now
```

et ensuite verifier si node-red et demarrer

```
 ps -A
```

on doit avoir une ligne avec **node-red** et une avec **mosquitto** (exemple : 760 ? 00:00:00 **mosquitto** et 949 ? 00:00:04 **node-red**) Le numéro n'a pas d'importance ici…

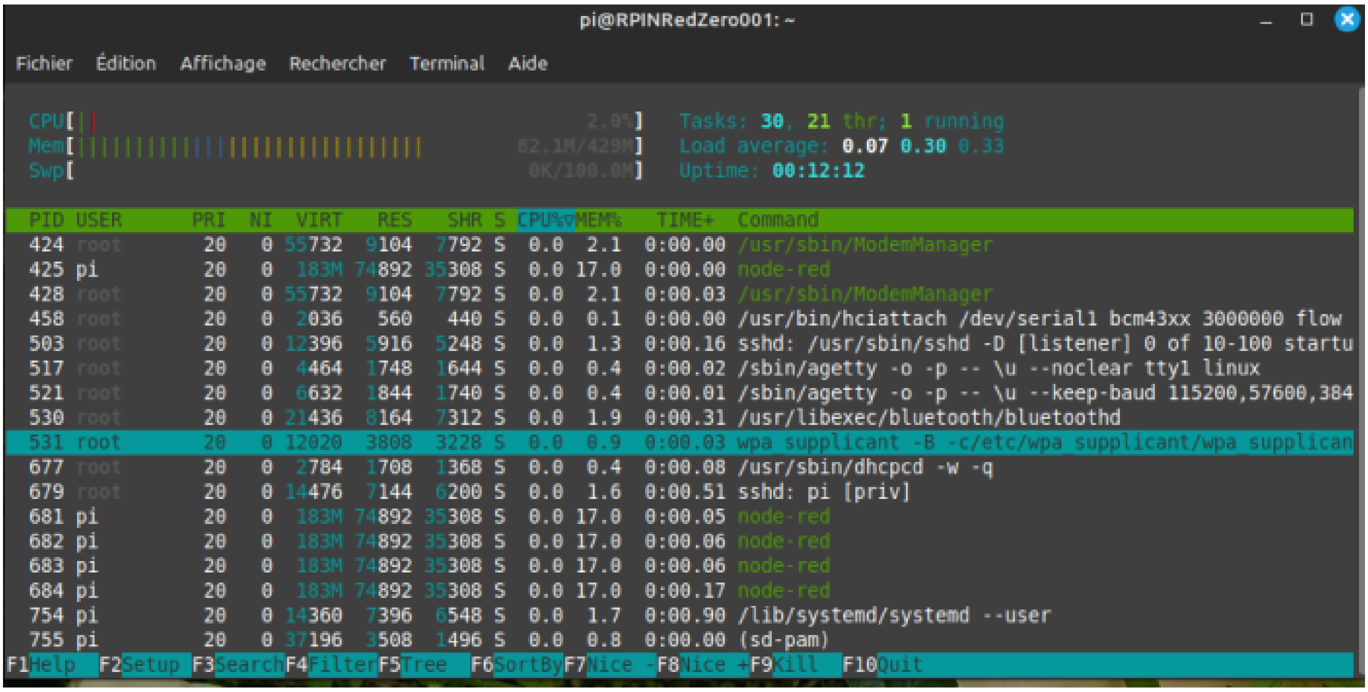
La ligne **mosquito** …… est presente que si vous avez MQTT installé sur votre RPI



```
  661 ?        00:00:00 ModemManager
  676 ?        00:00:00 NetworkManager
  760 ?        00:00:00 mosquitto
  766 ?        00:00:00 sshd
  792 ?        00:00:00 bluetoothd
  878 tty1     00:00:00 agetty
  889 ?        00:00:00 sshd
  892 ?        00:00:00 systemd
  893 ?        00:00:00 (sd-pam)
  912 ?        00:00:00 sshd
  913 pts/0    00:00:00 bash
  949 ?        00:00:04 node-red
 1044 pts/0    00:00:00 ps
```

ou avec la commande :

- htop



```
  CPU[||                                  2.0%]   Tasks: 30, 21 thr; 1 running
  Mem[|||||||||||||||||||||||||||||| 82.1M/429M]   Load average: 0.07 0.30 0.33
  Swp[                                0K/100.0M]   Uptime: 00:12:12

  PID USER      PRI  NI  VIRT   RES   SHR S CPU%▽MEM%   TIME+  Command
  424 root       20   0 55732  9104  7792 S  0.0  2.1  0:00.00 /usr/sbin/ModemManager
  425 pi         20   0  183M 74892 35308 S  0.0 17.0  0:00.00 node-red
  428 root       20   0 55732  9104  7792 S  0.0  2.1  0:00.03 /usr/sbin/ModemManager
  458 root       20   0  2036   560   440 S  0.0  0.1  0:00.00 /usr/bin/hciattach /dev/serial1 bcm43xx 3000000 flow
  503 root       20   0 12396  5916  5248 S  0.0  1.3  0:00.16 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startu
  517 root       20   0  4464  1748  1644 S  0.0  0.4  0:00.02 /sbin/agetty -o -p -- \u --noclear tty1 linux
  521 root       20   0  6632  1844  1740 S  0.0  0.4  0:00.01 /sbin/agetty -o -p -- \u --keep-baud 115200,57600,384
  530 root       20   0 21436  8164  7312 S  0.0  1.9  0:00.31 /usr/libexec/bluetooth/bluetoothd
  531 root       20   0 12020  3808  3228 S  0.0  0.9  0:00.03 wpa_supplicant -B -c/etc/wpa_supplicant/wpa_supplican
  677 root       20   0  2784  1708  1368 S  0.0  0.4  0:00.08 /usr/sbin/dhcpcd -w -q
  679 root       20   0 14476  7144  6200 S  0.0  1.6  0:00.51 sshd: pi [priv]
  681 pi         20   0  183M 74892 35308 S  0.0 17.0  0:00.05 node-red
  682 pi         20   0  183M 74892 35308 S  0.0 17.0  0:00.06 node-red
  683 pi         20   0  183M 74892 35308 S  0.0 17.0  0:00.06 node-red
  684 pi         20   0  183M 74892 35308 S  0.0 17.0  0:00.17 node-red
  754 pi         20   0 14360  7396  6548 S  0.0  1.7  0:00.90 /lib/systemd/systemd --user
  755 pi         20   0 37196  3508  1496 S  0.0  0.8  0:00.00 (sd-pam)
F1Help  F2Setup F3SearchF4FilterF5Tree  F6SortByF7Nice -F8Nice +F9Kill  F10Quit
```

Faire

- Ctrl C

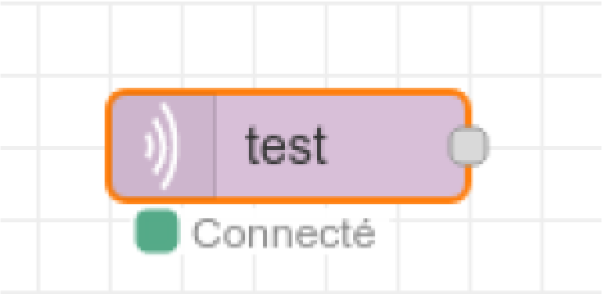
pour revenir au prompt:

Ensuite on peut tester avec un navigateur web : @ip de votre raspberry :1880

192.168.xx.xxx:1880

on insere un noeud “MQTT in” et l'on indique dans le serveur MQTT 192.168.xx.xxx : 1883 avec un topic “test”

on doit avoir ceci : “ test connecté en vert ”



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http://chanterie37.fr/fablab37110/ - **Castel'Lab le Fablab MJC de Château-Renault**

Permanent link:
http://chanterie37.fr/fablab37110/doku.php?id=start:raspberry:nodered:instnouvversion

Last update: **2025/02/22 10:27**