

Node-RED - Installation unter Debian 13 (Trixie)

Abhängigkeiten installieren

Die für die Installation benötigten Programme installieren:

```
apt install build-essential git curl sudo ssl-cert
```

Neuen Benutzer anlegen und Berechtigungen setzen

Für Node-RED wird ein neuer Benutzer angelegt:

```
adduser nodered
```

Der Benutzer kommt in die Gruppe *sudoers*:

```
usermod -aG sudo nodered
```

Für HTTPS benötigt der Benutzer Zugriff auf die Zertifikate und den private Key:

```
usermod -aG ssl-cert nodered
```

Um die Änderungen durchzuführen den Rechner neu starten!

Die folgenden Schritte sind mit dem neu angelegten Benutzer durchzuführen!

Installation

```
bash <(curl -sL https://github.com/node-red/linux-installers/releases/latest/download/install-update-nodered-deb)
```

Falls der Start der setting-Datei Initialisierung nicht automatisch nach Installation erfolgt, kann diese mit dem Befehl ***node-red admin init*** gestartet werden.

Node-RED update script for : nodered@noderedserver

This script checks if Node.js is installed, and will try to install Node.js 24 if it is not found.

It will then remove the old core of Node-RED, before then installing the latest version. You can also optionally specify the version required.

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

Node.js and Npm not found - will try to install Node.js 24

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

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

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

Will try to install Node.js 24

Install Node.js ✓ v24.18.1 : Npm 11.16.0

Stop Node-RED ✓

Remove old version of Node-RED ✓

Clean npm cache ✓

Install Node-RED core ✓ 5.0.4

Npm rebuild existing nodes ✓

Add shortcut commands ✓

Update systemd script ✓

All done.

Restarting Node-RED service

Restarted Node-RED

Started : So 02 Aug 2026 14:35:01 CEST

Finished: So 02 Aug 2026 14:35:57 CEST

WARNING

DO NOT EXPOSE NODE-RED TO THE OPEN INTERNET WITHOUT SECURING IT FIRST

Even if your Node-RED doesn't have anything valuable, (automated) attacks will happen and could provide a foothold in your local network

Follow the guide at <https://nodered.org/docs/user-guide/runtime/securing-node-red> to setup security.

ADDITIONAL RECOMMENDATIONS

- You can customise the initial settings by running:

```
node-red admin init
```

Node-RED Settings File initialisation

=====

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

- ✓ Settings file · /home/nodered/.node-red/settings.js
- ✓ That file already exists. Are you sure you want to overwrite it? · Yes

Share Anonymouse Usage Information

=====

- ✓ Node-RED can notify you when there is a new version available.
This ensures you keep up to date with the latest features and fixes.
This requires sending anonymised data back to the Node-RED team.
It does not include any details of your flows or users.
For full information on what information is collected and how it is used,
please see <https://nodered.org/docs/telemetry>
 - No, do not send my usage data

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 repository.

✓ 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 · *****

Editor settings

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✓ 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)

Node settings

=====

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

Settings file written to /home/nodered/.node-red/settings.js

Konfiguration HTTPS

Änderungen in der settings.js (Verzeichnis .node-red):

```
https: function() {  
  // This function should return the options object, or a Promise  
  // that resolves to the options object  
  return {  
    key: require("fs").readFileSync('/etc/ssl/private/ssl-cert-snakeoil.key'),  
    cert: require("fs").readFileSync('/etc/ssl/certs/ssl-cert-snakeoil.pem')  
  }  
},
```

```
httpsRefreshInterval : 12,
```

```
requireHttps: true,
```

Node-RED Befehle

Node-RED stoppen:

```
node-red-stop
```

Node-RED starten:

```
node-red-start
```

Die letzten Logs ansehen:

```
node-red-log
```

Passwort ändern:

```
node-red admin hash-pw
```

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