

# Remediation options for KUNBUS-2025-0000002

This document describes the Options to mitigate the missing authentication in RevPis Node-RED integration in more detail.

# Activate authentication

To make access to Node-RED secure, activate access control with a user name and password. To do this, follow the steps below:

1. execute the following command Execute the following command to create a password. The command will prompt you for a password:

### /usr/share/revpi-nodered/node\_modules/node-red/bin/node-red-pi admin hash-pw

- 2. the command returns an encrypted password hash that looks like this: \$2b\$08\$abcd1234EfGh...
- 3. open the file `settings.js`, which is located in the following path:

## sudo nano /var/lib/revpi-nodered/.node-red/settings.js

4. search for the section *adminAuth* in the file. If this section is missing, add the configuration below to define username and password:

```
adminAuth: {
    type: "credentials",
    users: [{
        username: "admin",
        password: "<HASHED_PASSWORD>",
        permissions: "*"
        }]
},
```

Replace <a href="#">HASHED\_PASSWORD></a> with the previously generated password hash.

5. Restart the Node-RED service to apply the changes:

#### sudo systemctl restart nodered

For more information please have a look at the Node-RED documentation: <a href="https://nodered.org/docs/user-guide/runtime/securing-node-red#usernamepassword-based-authentication">https://nodered.org/docs/user-guide/runtime/securing-node-red#usernamepassword-based-authentication</a>

## Restrict network access

Make sure that the Node-RED interface is only accessible from trusted networks. Use firewall rules or VLANs to restrict access to the Revolution Pi.

## Deactivate unnecessary services

Deactivate Node-RED if not needed. Using the following commands on Commandline e.g. ssh you can stop and disable the Node-RED service.

```
sudo systemctl disable nodered
sudo systemctl stop nodered
```