MMM-AirQuality – Bug fetch failed / ETIMEDOUT

Symptômes

- MagicMirror démarre mais log PM2 affiche :
  - `TypeError: fetch failed`
  - `AggregateError [ETIMEDOUT]` dans `MMM-AirQuality/helper.js`
- `curl https://api.waqi.info/...` fonctionne

Objectif

Contourner `fetch` de Node en remplaçant l’appel API par `https.request`.

Étapes rapides

1. **Aller dans le dossier du module**

```
cd ~/MagicMirror/modules/MMM-AirQuality
```

2. **Sauvegarder le helper**

```
cp helper.js helper.js.bak
```

3. **Éditer `helper.js`**

```
nano helper.js
```

4. **Remplacer tout le contenu**

```
/* MagicMirror²
 * Module: MMM-AirQuality
 *
 * By Christopher Fenner https://github.com/CFenner
 * Patched to use https.request instead of fetch (ETIMEDOUT issue).
 * MIT Licensed.
 */

const https = require("https");
const { URL } = require("url");

module.exports = {
  notifications: {
    DATA: "AIR_QUALITY_DATA",
    DATA_RESPONSE: "AIR_QUALITY_DATA_RESPONSE",
  },

  start: function () {
    console.log("AirQuality helper started ...");
  },

  loadData: function (payload) {
    const self = this;
    const urlString =
`https://${payload.config.apiBase}${payload.config.dataEndpoint}${payload.config.loca
tion}/?token=${payload.config.token}`;

    console.log(`AirQuality-Fetcher (https): ${urlString}`);

    let url;
    try {
      url = new URL(urlString);
    } catch (e) {
      console.error("AirQuality-Fetcher: invalid URL", e);
      self.sendSocketNotification(self.notifications.DATA_RESPONSE, {
        payloadReturn: null,
        status: "ERROR",
        identifier: payload.identifier,
      });
```

```
    return;
  }

  const options = {
    hostname: url.hostname,
    port: 443,
    path: url.pathname + url.search,
    method: "GET",
    timeout: 10000, // 10s
  };

  const req = https.request(options, (res) => {
    let data = "";

    res.on("data", (chunk) => {
      data += chunk;
    });

    res.on("end", () => {
      try {
        const json = JSON.parse(data);
        self.sendSocketNotification(self.notifications.DATA_RESPONSE, {
          payloadReturn: json,
          status: "OK",
          identifier: payload.identifier,
        });
      } catch (err) {
        console.error("AirQuality-Fetcher: JSON parse error", err);
        self.sendSocketNotification(self.notifications.DATA_RESPONSE, {
          payloadReturn: null,
          status: "ERROR",
          identifier: payload.identifier,
        });
      }
    });
  });

  req.on("error", (err) => {
    console.error("AirQuality-Fetcher: https error", err);
```

```
      self.sendSocketNotification(self.notifications.DATA_RESPONSE, {
        payloadReturn: null,
        status: "ERROR",
        identifier: payload.identifier,
      });
    });

    req.on("timeout", () => {
      console.error("AirQuality-Fetcher: request timeout");
      req.destroy();
      self.sendSocketNotification(self.notifications.DATA_RESPONSE, {
        payloadReturn: null,
        status: "TIMEOUT",
        identifier: payload.identifier,
      });
    });

    req.end();
  },

  socketNotificationReceived: function (notification, payload) {
    switch (notification) {
      case this.notifications.DATA:
        console.log(
          `AirQuality-Fetcher: Loading data of ${payload.config.location} for module
${payload.identifier}`
        );
        this.loadData(payload);
        break;
    }
  },
};
```

5. **Redémarrer MagicMirror**

```
pm2 restart mm
```

6. **Vérifier**
   - Plus d’erreur `fetch failed / ETIMEDOUT`
   - MMM-AirQuality affiche à nouveau les données

À noter

- En cas de mise à jour du module, le patch peut être écrasé → **réappliquer `helper.js` patché**.

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