

Alexa-Integration für redmatic/node-red

- Voraussetzung
 - Laufende redmatic/node-red Installation
 - Verbindung zu Homematic konfiguriert etc.
- Vorgehensweise
 - Account bei Ben Hardills Dienst <https://alexa-node-red.bm.hardill.me.uk/login> anlegen
 - Geräte bei Ben Hardills Dienst anlegen
 - node-red-contrib-alexa-home-skill in redmatic installieren
 - Skill konfigurieren und loslegen
 - Verarbeitung für Fortgeschrittene
- Fazit und Ausblick



Account bei Ben Hardills Dienst <https://alexa-node-red.bm.hardill.me.uk/login> anlegen

Node-RED Alexa Home Skill Bridge [Home](#) [Documentation](#) [About](#)

[Login or Register](#)

Username: (can contain any utf-8 chars except /, + or # and must not start with \$)

Email: (will only be used to send password resets and notices about the running of the service)

Password:

Please enter password again

Password:

Gerät bei Ben Hardills Dienst anlegen

Node-RED Alexa Home Skill Bridge [Home](#) [Documentation](#) **Devices** [About](#)

[Logout](#)

Add New Device

Name:

Description:

Actions

On: <input type="checkbox"/> Off: <input type="checkbox"/>
%: <input type="checkbox"/> +%: <input type="checkbox"/> -%: <input type="checkbox"/>
°C/F: <input type="checkbox"/> +°C/F: <input type="checkbox"/> -°C/F: <input type="checkbox"/>
Query Set Point: <input type="checkbox"/>
Query Current Temp: <input type="checkbox"/>
Lock/Unlock <input type="checkbox"/>
Query Lock State <input type="checkbox"/>

Set Color

Set Color Temperature

Increment Color Temperature

Decrement Color Temperature

Application Type

LIGHT: <input type="checkbox"/>
SWITCH: <input type="checkbox"/>
SMARTPLUG: <input type="checkbox"/>
THERMOSTAT: <input type="checkbox"/>
SMARTLOCK: <input type="checkbox"/>
ACTIVITY: <input type="checkbox"/>

OK Cancel

Gerät bei Ben Hardills Dienst anlegen

Node-RED Alexa Home Skill Bridge Home Documentation **Devices** About

Logout -

Add New Device

Name:

Description:

Actions

On: Off:

%: +%: -%:

°C/F: +°C/F: -°C/F:

Query Set Point:

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Application Type

LIGHT:

SWITCH:

SMARTPLUG:

THERMOSTAT:

SMARTLOCK:

ACTIVITY:

OK Cancel

Gerät bei Ben Hardills Dienst anlegen

Node-RED Alexa Home Skill Bridge Home Documentation **Devices** About

Logout - __

Add New Device

Name:

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Actions

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Set Color Temperature

Increment Color Temperature

Decrement Color Temperature

Application Type

LIGHT:

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SMARTPLUG:

THERMOSTAT:

SMARTLOCK:

ACTIVITY:

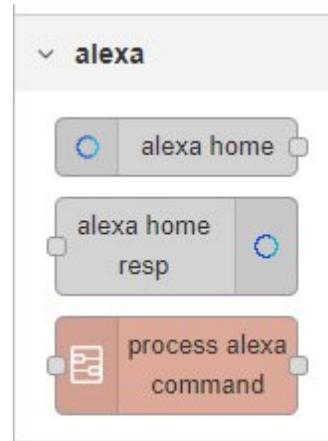
OK Cancel

node-red-contrib-alexa-home-skill in redmatic installieren

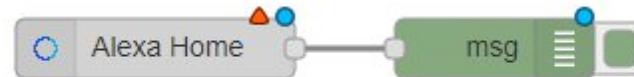
The screenshot displays the Redmatic user interface. At the top right, there is a dropdown menu labeled 'Implementieren' and a hamburger menu icon. Below this, the 'Benutzereinstellungen' (User Settings) section is visible, featuring a red 'Schließen' (Close) button. The main workspace is divided into several panels:

- Ansicht (View):** Includes a 'Knoten' (Nodes) tab and an 'installieren' (Install) button.
- Tastatur (Keyboard):** Shows sorting options: 'Sortierung: [icon] a-z kürzlich [refresh icon]'.
- Palette (Palette):** Contains a search bar with the text 'node-red-contrib-alexahome-skill' and a result for the same node. The result includes a description: 'This node allows you to hook up Node-RED to react to your Amazon Echo.' and a version number '0.1.17' with a calendar icon and the text 'Jahr, 3 Monaten'. An 'installiert' (Installed) button is present next to the result.
- Info Panel (Right):** Displays details for the selected node, including 'Flow: "e2d7a0c0.3a6b"', 'Name: Alexa', and 'Status: Aktiviert'. It also has a 'Description' section.

node-red-contrib-alexa-home-skill in redmatic installieren



Skill konfigurieren und loslegen



Skill konfigurieren und loslegen

alexa-home Knoten bearbeiten

Löschen Abbrechen Fertig

⚙ Properties

Account Neuen alexa-home-conf hinzufügen ...

Device

Auto Acknowledge

Topic

alexa-home Knoten bearbeiten

Löschen Abbrechen Fertig

⚙ Properties

Account anli

Device Licht Bad

Auto Acknowledge

Topic

Skill konfigurieren und loslegen



Skill konfigurieren und loslegen

The screenshot displays the Node-RED interface. On the left, a flow contains two nodes: 'Licht Bad' (highlighted with an orange border) and 'msg'. The 'Licht Bad' node is marked as 'connected'. The right panel is titled 'Debugging' and shows the following message log:

```
5.4.2019, 12:44:34 node: 48ae2dad.4e5d94
msg: Object
  object
    topic: ""
    name: "Licht Bad"
    _messageId: "9f75137c-ea26-4a6a-ac33-c38dedff296e"
    _applianceId: "44932"
    _confId: "5707bdd6.211624"
    command: "TurnOnRequest"
    extraInfo: object
      payload: true
      _msgid: "68244985.5f7c18"
```

Skill konfigurieren und loslegen

The screenshot displays the Alexa Skill Builder interface. On the left, a visual flowchart shows a skill named "Licht Bad" (Light Bad) with an "Alexa" node connected to two "msg" nodes, which in turn connect to another "Licht Bad" node. The right side of the interface shows a "Debugging" console with two log entries. The first entry, from node "687bb926 7c4968", shows a message object with a "payload: 1". The second entry, from node "ccbaf1ef.ec39f", shows a message object with a "payload: true".

```
5.4.2019, 12:56:50 node: 687bb926 7c4968
msg : Object
  object
    topic: ""
    name: "Licht Bad"
    _messageId: "1c7c04db-f9b7-4271-bc73-d3646fe70a9d"
    _applianceId: "44932"
    _confId: "5707bdd6.211624"
    command: "TurnOnRequest"
    payload: 1
    _msgId: "50f0c35e.9a2b5c"

5.4.2019, 12:56:51 node: ccbaf1ef.ec39f
msg : Object
  object
    topic: ""
    name: "Licht Bad"
    _messageId: "1c7c04db-f9b7-4271-bc73-d3646fe70a9d"
    _applianceId: "44932"
    _confId: "5707bdd6.211624"
    command: "TurnOnRequest"
    payload: true
    _msgId: "50f0c35e.9a2b5c"
```

Skill konfigurieren und loslegen

The screenshot displays the AWS Lambda console interface for editing a function node. The left pane, titled "function Knoten bearbeiten", shows the function's name as "Alexa" and its code. The code is a JavaScript function that uses a switch statement to handle "TurnOnRequest" and "TurnOffRequest" commands, setting the payload to 1 or 0 respectively. The right pane, titled "Debugging", shows the execution logs for two separate invocations. Both logs show a message object with a topic, name "Licht Bad", and a command of "TurnOnRequest". The first log shows a payload of 1, while the second shows a payload of true.

function Knoten bearbeiten

Löschen Abbrechen **Fertig**

Properties

Name Alexa

Funktion

```
1 switch (msg.command) {
2   case "TurnOnRequest":
3     if (msg.payload)
4       msg.payload = 1;
5     return msg;
6   case "TurnOffRequest":
7     if (!msg.payload)
8       msg.payload = 0;
9     return msg;
10 }
```

Debugging

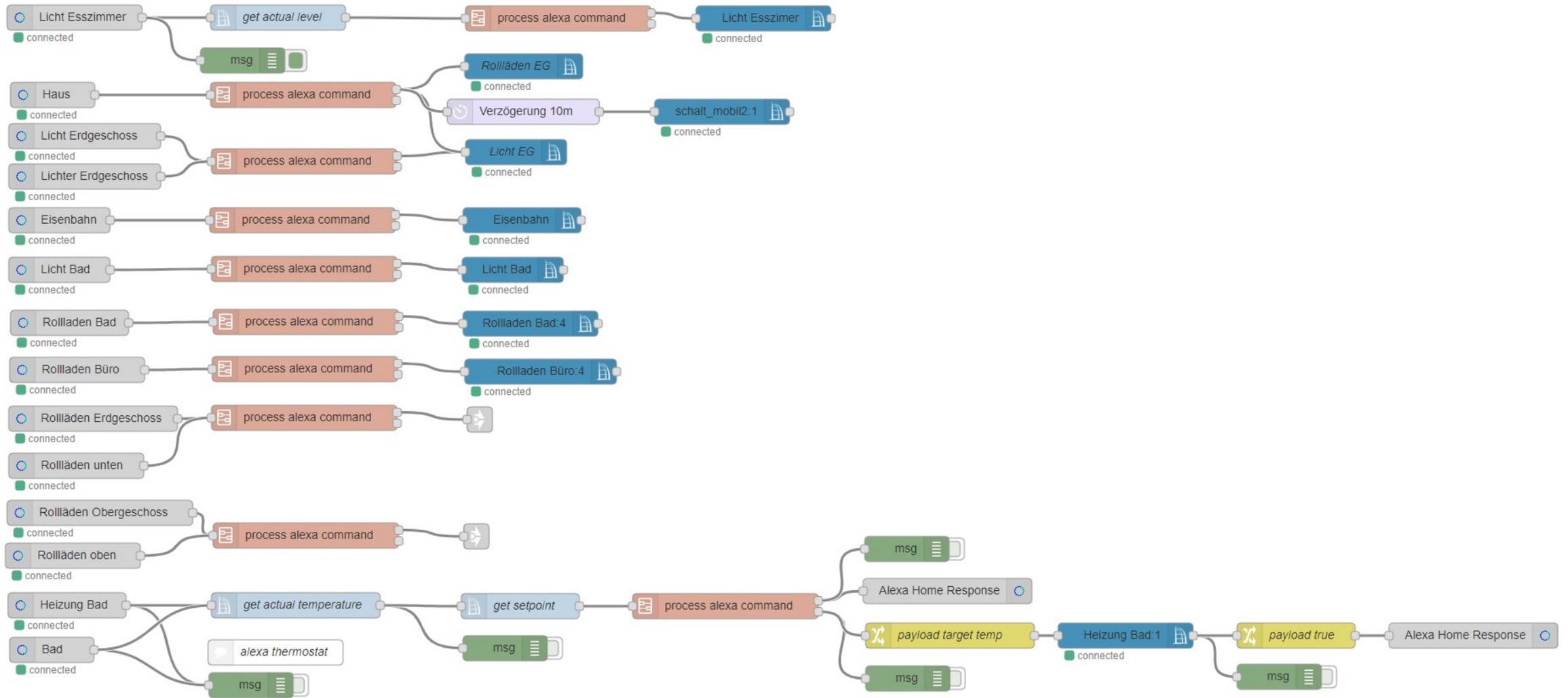
5.4.2019, 12:56:51 node: 687bb926.7c4968
msg: Object

- object
 - topic: ""
 - name: "Licht Bad"
 - _messageId: "1c7c04db-f9b7-4271-bc73-d3646fe70a9d"
 - _applianceId: "44932"
 - _confId: "5707bdd6.211624"
 - command: "TurnOnRequest"
 - extraInfo: object
 - payload: 1
 - _msgid: "50f0c35e.9a2b5c"

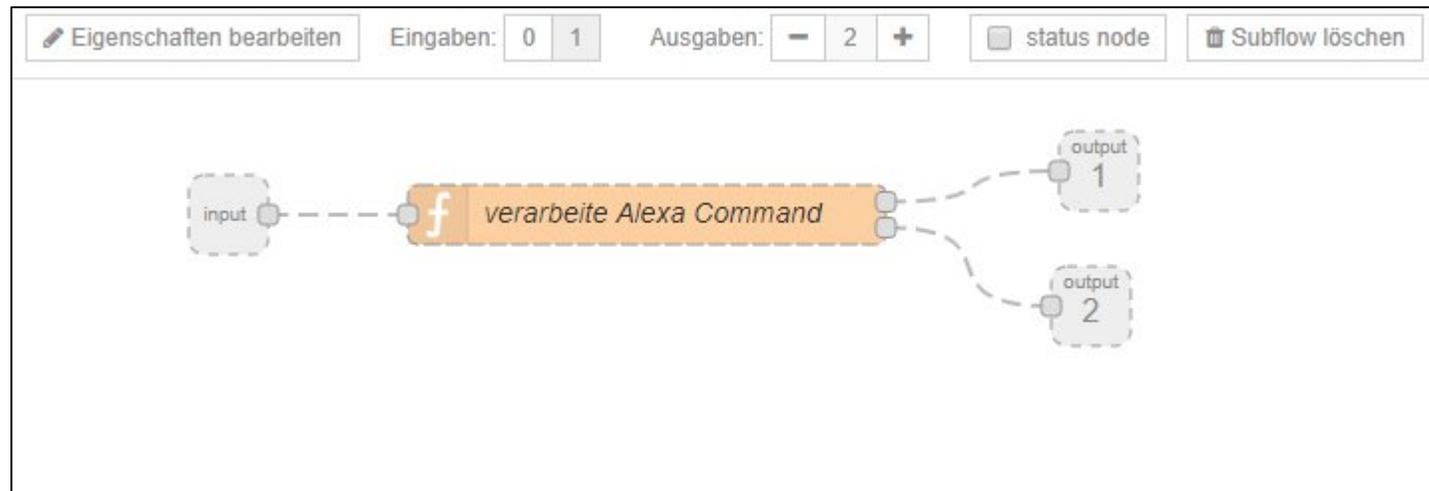
5.4.2019, 12:56:51 node: ccbaf1ef.ec39f
msg: Object

- object
 - topic: ""
 - name: "Licht Bad"
 - _messageId: "1c7c04db-f9b7-4271-bc73-d3646fe70a9d"
 - _applianceId: "44932"
 - _confId: "5707bdd6.211624"
 - command: "TurnOnRequest"
 - extraInfo: object
 - payload: true
 - _msgid: "50f0c35e.9a2b5c"

Verarbeitung für Fortgeschrittene



Verarbeitung für Fortgeschrittene

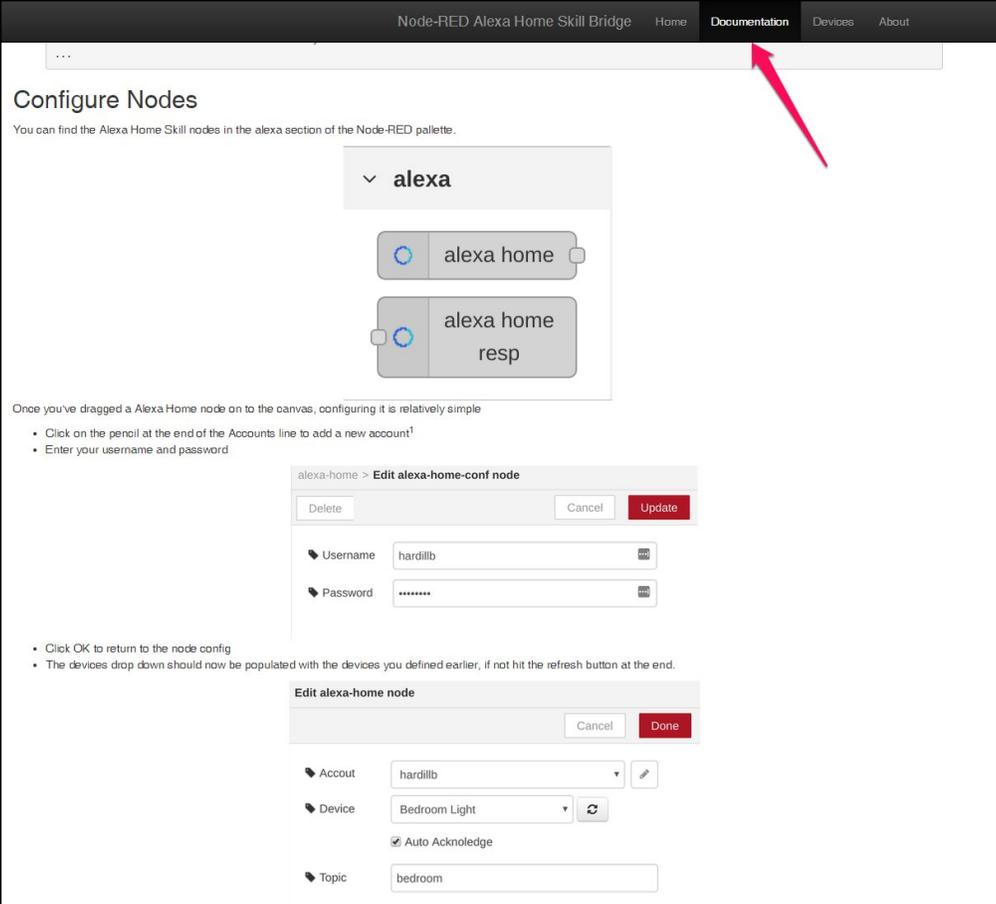


Verarbeitung für Fortgeschrittene

```
function Knoten bearbeiten
Löschen Abbrechen Fertig
Properties
Name verarbeite Alexa Command
Funktion
1 switch (msg.command) {
2   case "TurnOnRequest":
3     if (msg.payload)
4       msg.payload = 1;
5     return [msg, null];
6   case "TurnOffRequest":
7     if (!msg.payload)
8       msg.payload = 0;
9     return [msg, null];
10  case "SetPercentageRequest":
11    if (msg.payload)
12      msg.payload = msg.payload / 100;
13    return [msg, null];
14  case "IncrementPercentageRequest":
15  case "DecrementPercentageRequest":
16    if (msg.name.toLowerCase().indexOf('rollladen') > -1 || msg.name.toLowerCase().indexOf('rolläden') > -1) {
17      if (msg.payload > 0)
18        msg.payload = 1;
19      else if (msg.payload < 0)
20        msg.payload = 0;
21    }
22    else {
23      if (msg.payload)
24        msg.payload = msg.actual_level + msg.payload / 100;
25    }
26    return [msg, null];
27  case "GetTemperatureReadingRequest":
28    msg.extra = {
29      "temperatureReading": {
30        "value": msg.actual_level
31      },
32      "applianceResponseTimestamp": new Date().toISOString()
33    };
34    msg.payload = true;
35    return [msg, null];
}
```

```
36 case "GetTargetTemperatureRequest":
37   msg.extra = {
38     targetTemperature: {
39       value: msg.target_level
40     },
41     temperatureMode: {
42       value: "AUTO"
43     }
44   };
45   msg.payload = true;
46   return [msg, null];
47 case "SetTargetTemperatureRequest":
48   let range = {
49     min: 5.0,
50     max: 30.0
51   }
52   if (msg.payload < range.min || msg.payload > range.max) {
53     msg.payload = false;
54     msg.extra = range;
55   } else {
56     msg.extra = {
57       targetTemperature: {
58         value: msg.payload
59       }
60     };
61     msg.payload = true;
62   }
63   return [null, msg];
64 }
```

Verarbeitung für Fortgeschrittene



Node-RED Alexa Home Skill Bridge Home **Documentation** Devices About

Configure Nodes

You can find the Alexa Home Skill nodes in the alexa section of the Node-RED palette.

▼ alexa

- alex-a-home
- alex-a-home-resp

Once you've dragged a Alexa Home node on to the canvas, configuring it is relatively simple

- Click on the pencil at the end of the Accounts line to add a new account!
- Enter your username and password

alex-a-home > Edit alexa-home-conf node

Delete Cancel Update

Username hardillb

Password

- Click OK to return to the node config
- The devices drop down should now be populated with the devices you defined earlier, if not hit the refresh button at the end.

Edit alexa-home node

Cancel Done

Account hardillb

Device Bedroom Light

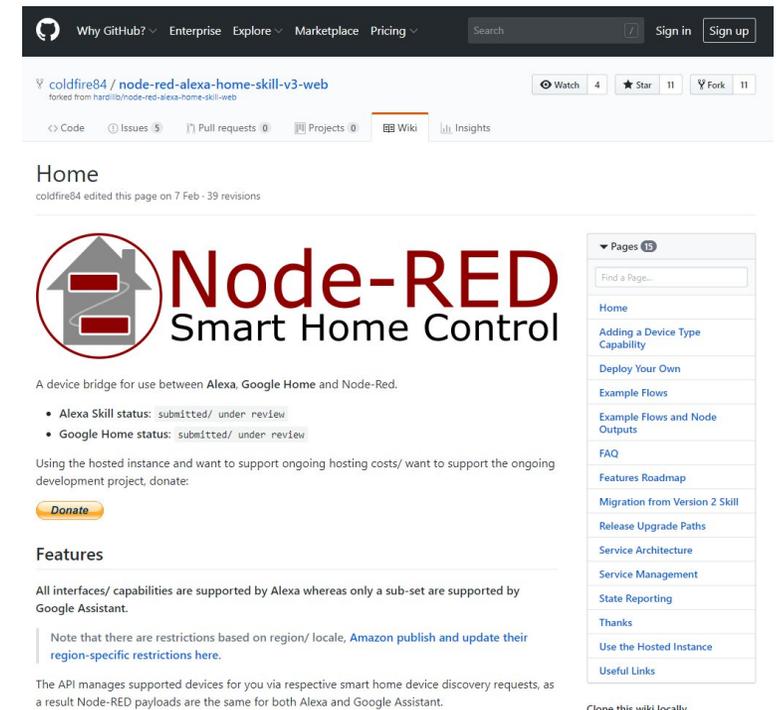
Auto Acknowledge

Topic bedroom

A red arrow points to the 'Documentation' tab in the top navigation bar.

Fazit und Ausblick

- Einfach zu bedienen, vielfältige Szenarien möglich
- Läuft sehr stabil
- Alternative: API v3 mit <https://github.com/coldfire84/node-red-alexa-home-skill-v3-web/wiki>



The screenshot shows the GitHub Wiki page for the project 'node-red-alexa-home-skill-v3-web' by user 'coldfire84'. The page title is 'Home' and it was last edited on February 7th. The main content features the Node-RED logo (a house with a red arrow) and the text 'Node-RED Smart Home Control'. Below the logo, it describes the project as a device bridge for use between Alexa, Google Home, and Node-Red. It lists the status of the Alexa and Google Home skills as 'submitted/ under review'. There is a 'Donate' button and a 'Features' section. The right sidebar contains a 'Pages' menu with 15 items, including 'Home', 'Adding a Device Type Capability', 'Deploy Your Own', 'Example Flows', 'Example Flows and Node Outputs', 'FAQ', 'Features Roadmap', 'Migration from Version 2 Skill', 'Release Upgrade Paths', 'Service Architecture', 'Service Management', 'State Reporting', 'Thanks', 'Use the Hosted Instance', and 'Useful Links'.

Vielen Dank für Ihre Aufmerksamkeit!