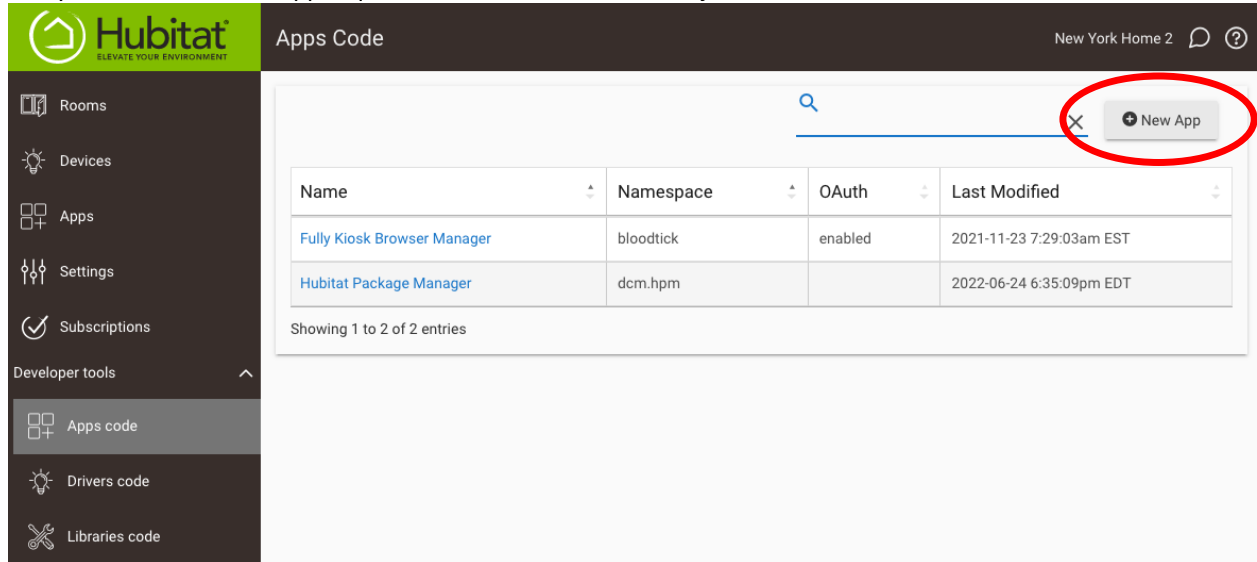


The 'HubiThings Replica' SmartApp executes all actions on the Hubitat hub. The SmartThings SmartApp has no controlling logic and only controls device permissions to Hubitat.

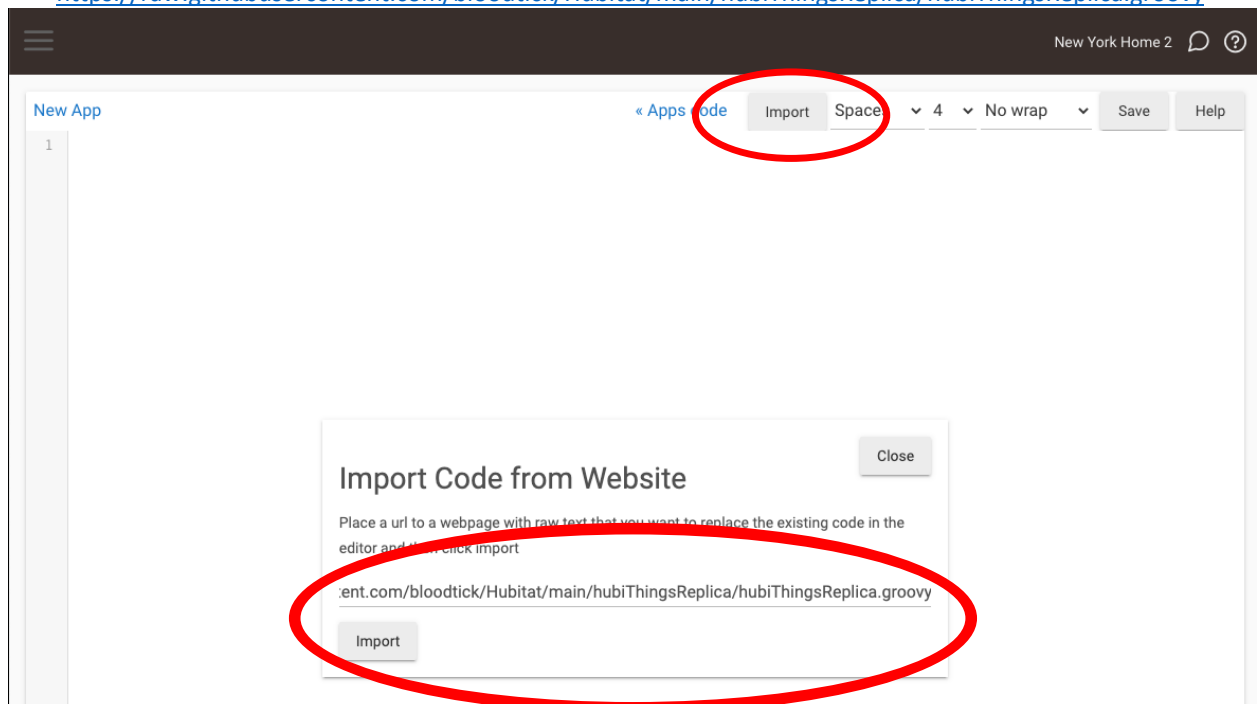
The Hubitat SmartApp sends commands directly to the SmartThings Cloud via the SmartThings SmartApp APIs and uses no other SDKs. The Hubitat SmartApp receives SmartThings response and event information via the Hubitat external endpoint HTTPS webhook.

This guide sets up that Internet communication path only and does not cover Application Configurations.

1. IMPORT SOURCE CODE: From Developer Tools->Apps Code install the 'HubiThings Replica' application code on your hub. The SmartApp requires OAuth to be enabled and just use the defaults.



2. Select "Import" and copy and paste and then select "Import" from the popup
<https://raw.githubusercontent.com/bloodtick/Hubitat/main/hubiThingsReplica/hubiThingsReplica.groovy>

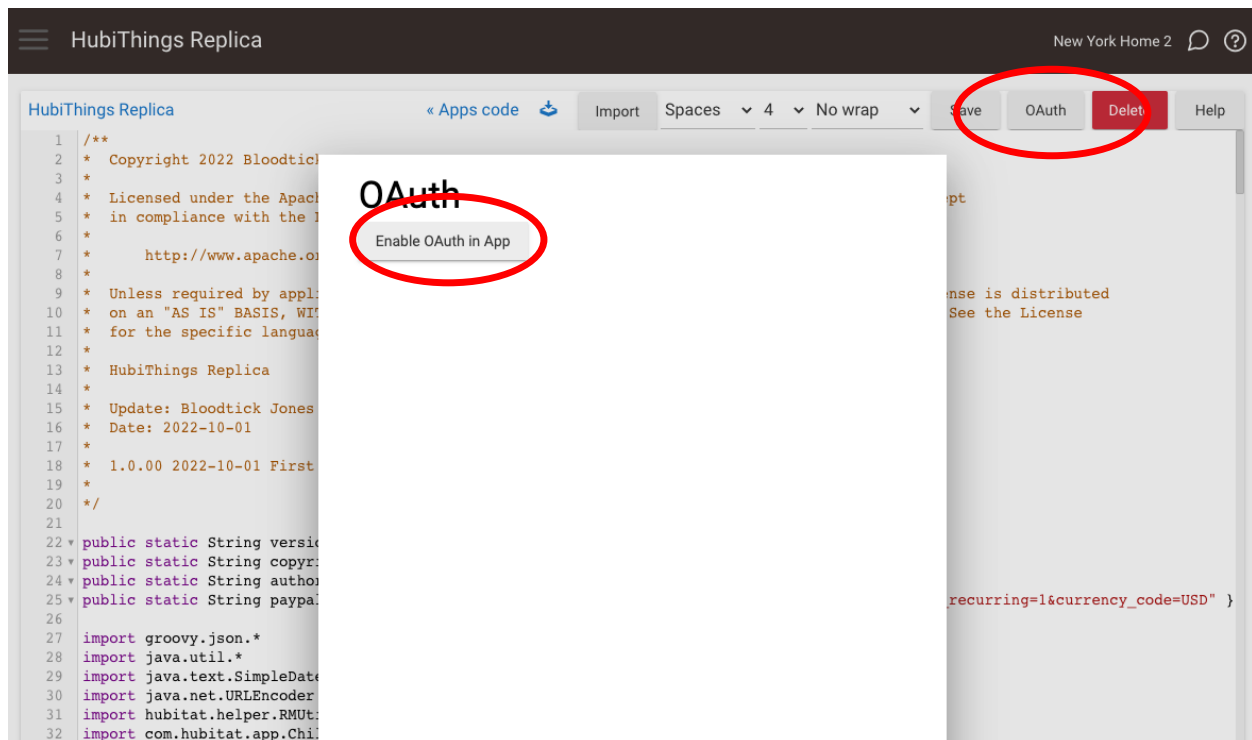


3. Select "Save" to store the code and enable the "OAuth" option. Select "OAuth" and then "Enable OAuth in App" option. Use the defaults and select Update. This completes the source code loading as shown



The screenshot shows the 'New App' interface in a code editor. The top bar includes a hamburger menu, the text 'New York Home 2', and a help icon. Below the top bar, the title 'New App' is on the left, and a toolbar on the right contains buttons for 'modified', '« Apps code', 'Import', 'Spaces', '4', 'No wrap', 'Save', and 'Help'. The 'Save' button is circled in red. The main area displays a code editor with the following content:

```
1 /**
2  * Copyright 2022 Bloodtick
3  *
4  * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
5  * in compliance with the License. You may obtain a copy of the License at:
6  *
7  * http://www.apache.org/licenses/LICENSE-2.0
8  *
9  * Unless required by applicable law or agreed to in writing, software distributed under the License is distributed
10 * on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License
11 * for the specific language governing permissions and limitations under the License.
12 *
13 * HubiThings Replica
14 *
15 * Update: Bloodtick Jones
16 * Date: 2022-10-01
17 *
18 * 1.0.00 2022-10-01 First pass.
19 *
20 */
21
22 public static String version() { return "v1.0.0" }
23 public static String copyright() {"&copy; 2022 ${author()}"}
24 public static String author() { return "Bloodtick Jones" }
25 public static String paypal() { return "https://www.paypal.com/donate/?business=QHNE3ZVSRYWDA&no_recurring=1&currency_code=USD" }
26
27 import groovy.json.*
```



The screenshot shows the 'HubiThings Replica' interface in a code editor. The top bar includes a hamburger menu, the text 'New York Home 2', and a help icon. Below the top bar, the title 'HubiThings Replica' is on the left, and a toolbar on the right contains buttons for '« Apps code', 'Import', 'Spaces', '4', 'No wrap', 'Save', 'OAuth', 'Delete', and 'Help'. The 'OAuth' button is circled in red. A dialog box titled 'OAuth' is open, with the button 'Enable OAuth in App' circled in red. The main area displays a code editor with the following content:

```
1 /**
2  * Copyright 2022 Bloodtick
3  *
4  * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
5  * in compliance with the License. You may obtain a copy of the License at:
6  *
7  * http://www.apache.org/licenses/LICENSE-2.0
8  *
9  * Unless required by applicable law or agreed to in writing, software distributed under the License is distributed
10 * on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License
11 * for the specific language governing permissions and limitations under the License.
12 *
13 * HubiThings Replica
14 *
15 * Update: Bloodtick Jones
16 * Date: 2022-10-01
17 *
18 * 1.0.00 2022-10-01 First pass.
19 *
20 */
21
22 public static String version() { return "v1.0.0" }
23 public static String copyright() {"&copy; 2022 ${author()}"}
24 public static String author() { return "Bloodtick Jones" }
25 public static String paypal() { return "https://www.paypal.com/donate/?business=QHNE3ZVSRYWDA&no_recurring=1&currency_code=USD" }
26
27 import groovy.json.*
28 import java.util.*
29 import java.text.SimpleDateFormat
30 import java.net.URLEncoder
31 import habitat.helper.RMUtils
32 import com.habitat.app.Child
```

This completes the source code load and should look as shown here:

The screenshot shows the Hubitat 'Apps Code' page. The left sidebar contains navigation options: Rooms, Devices, Apps, Settings, Subscriptions, and Developer tools. The 'Apps code' option is selected. The main area displays a table of installed apps. A red circle highlights the 'HabiThings Replica' entry.

Name	Namespace	OAuth	Last Modified
Fully Kiosk Browser Manager	bloodtick	enabled	2021-11-23 7:29:03am EST
Hubitat Package Manager	dem.hpm		2022-06-24 6:35:09pm EDT
HabiThings Replica	hubitat	enabled	2022-10-23 8:38:39am EDT

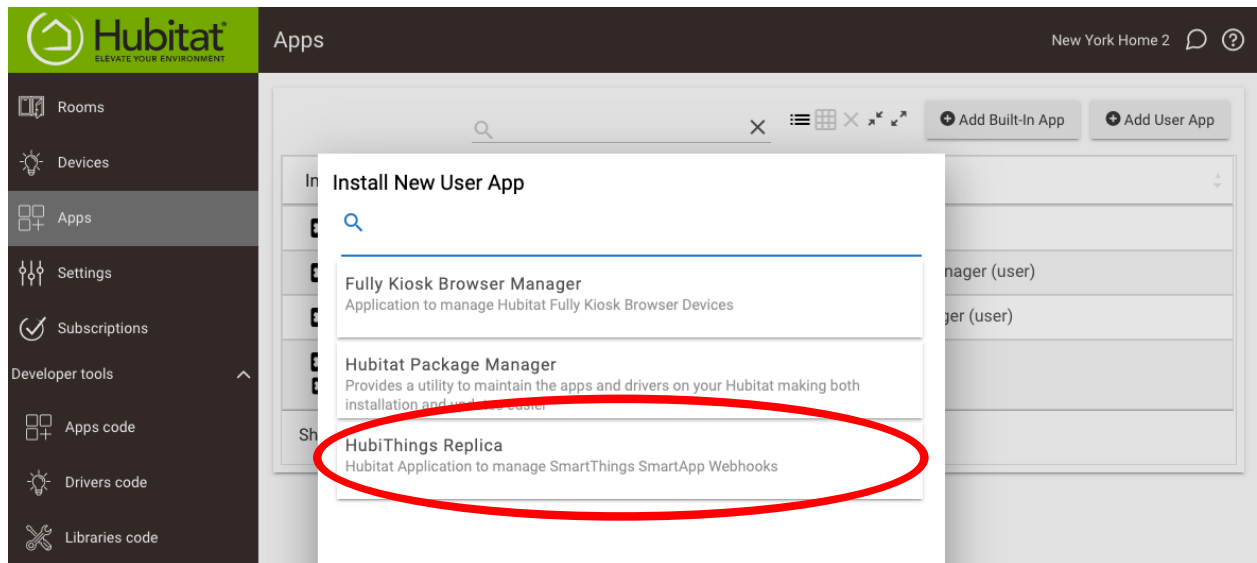
Showing 1 to 3 of 3 entries

4. **BUILD HUBITAT SMARTAPP:** From Apps->Add User App. Select “HabiThings Replica” and then select “Done” to finish building the Hubitat SmartApp.

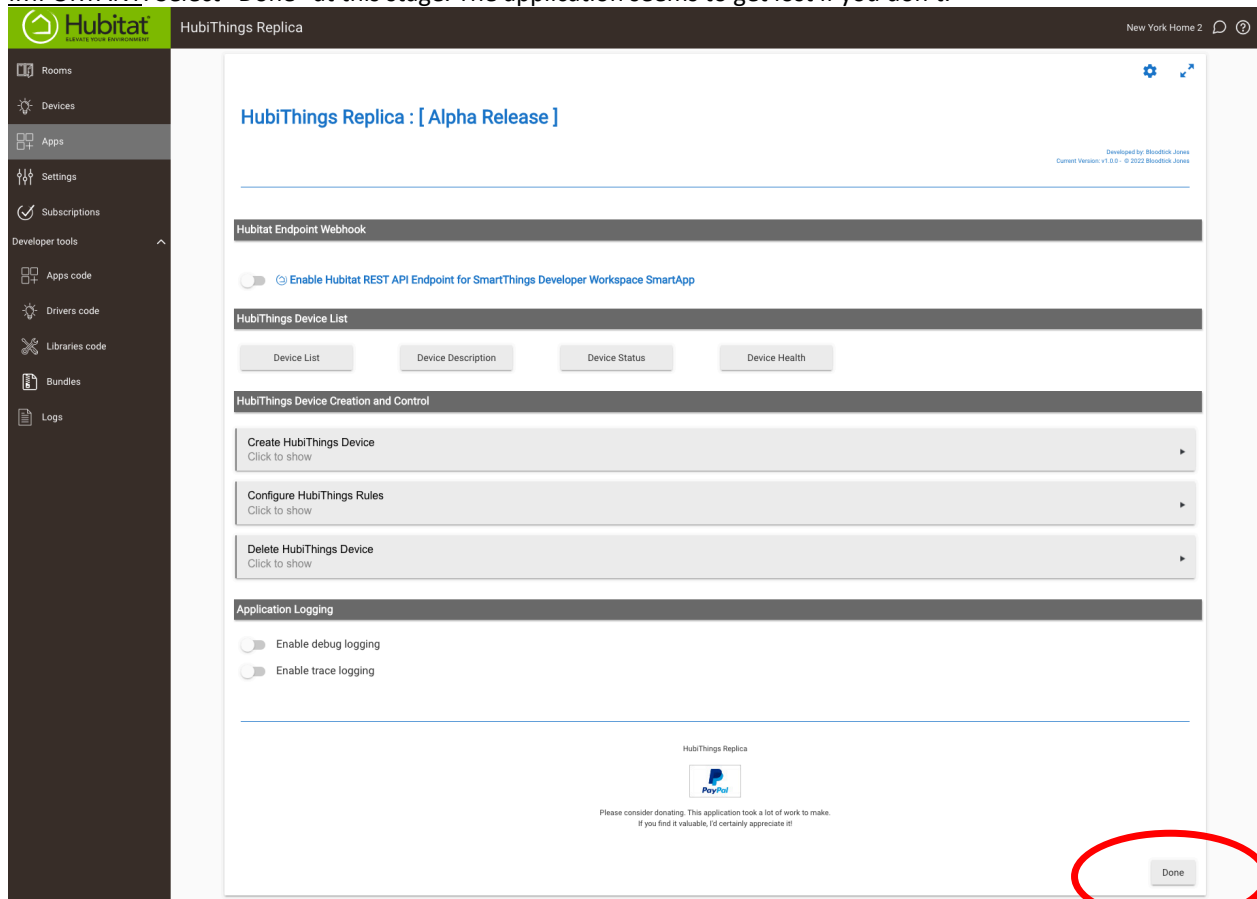
The screenshot shows the Hubitat 'Apps' page. The left sidebar contains navigation options: Rooms, Devices, Apps, Settings, Subscriptions, and Developer tools. The 'Apps' option is selected. The main area displays a table of installed apps. A red circle highlights the 'Add User App' button.

Info	Name	Type
	Ecobee Integration	Ecobee Integration
	Fully Kiosk Browser Manager	Fully Kiosk Browser Manager (user)
	Hubitat Package Manager	Hubitat Package Manager (user)
	Rule Machine	Rule Machine
	Hubitat Shutdown	Rule-5.1

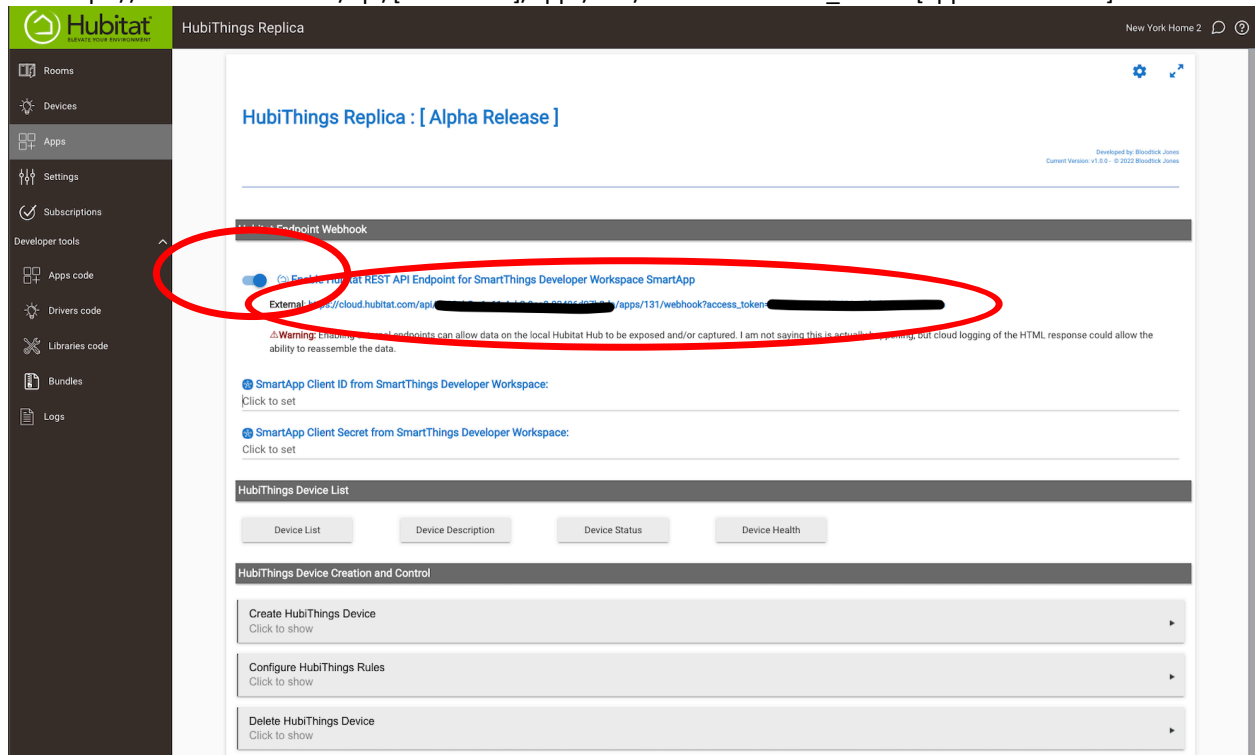
Showing 1 to 4 of 4 entries



IMPORTANT: Select “Done” at this stage. The application seems to get lost if you don’t.

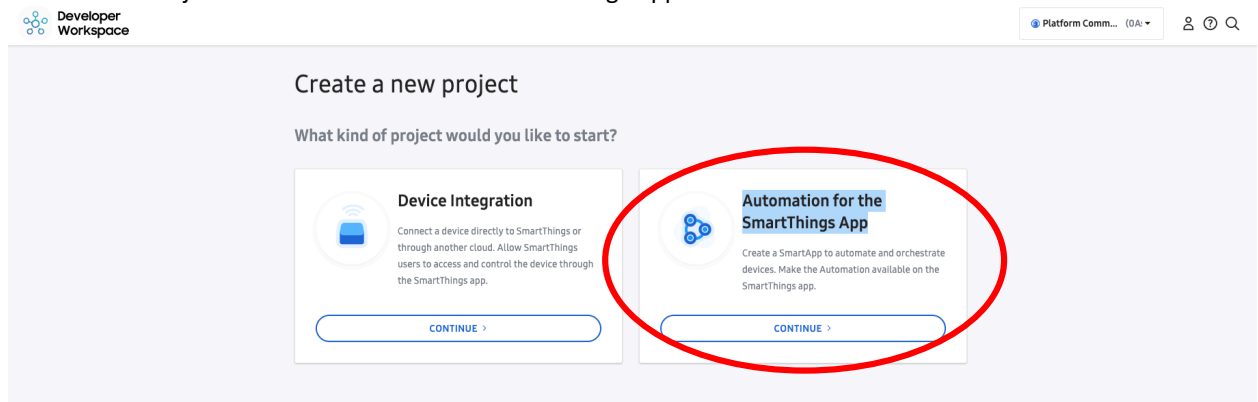


5. **ENABLE HUBITAT WEBHOOK.** Go back and open the Application and select “Enable Hubitat REST API”. You will be able to ‘click on the restpoint’ to copy from URL. This is required in the SmartThings application. It should look something like:
[https://cloud.hubitat.com/api/\[hub-token\]/apps/131/webhook?access_token=\[applicationtoken\]](https://cloud.hubitat.com/api/[hub-token]/apps/131/webhook?access_token=[applicationtoken])



6. **BUILD SMARTHING SMARTAPP:** Sign into the Developers Workspace and build a new project.
<https://smarththings.developer.samsung.com/workspace>

Select “New Project” -> “Automation for the SmartThings App”



Give your project automation a name, this can be anything, but suggest using 'HubiThings Replica'

Developer Workspace

Platform Comm... (0A) ▾

Create a new project

Project type > Add Automation to the SmartThings app

Give this automation a name

HubiThings Replica

CREATE PROJECT

Select 'Register App'

Developer Workspace

Platform Comm... (0A) ▾

HubiThings Replica

Automation

Overview

Develop

Automation Connector | SmartApp

Test

Live Logging, Developer Mode

Develop

Deployed to test

DEPLOY TO TEST

Automation Connector

Write an Automation SmartApp following this tutorial. You can host it with SmartThings inside your AWS or your preferred server.

REGISTER APP

Live Logging

Understand what is going on behind the scene with live connector log and device log.

* Please deploy to test to unlock this feature

Current status

Draft

The app is not listed on the SmartThings app. You will be able to test it once it is deployed to test. Please complete the following steps.

Register App

Select "WebHook Endpoint" and "Next"

Developer Workspace

Platform Comm... (0A) ▾

Automation | SmartApp

Develop an Automation SmartApp with the SmartThings API, and register it here. [Learn More](#)

Documentation Examples

Hosting Name & Scope Advanced Settings

< Previous Next >

Where are you hosting your connector app?

AWS Lambda

Host the app in AWS Lambda with your AWS account, and grant SmartThings permission to execute the Lambda.

WebHook Endpoint

Host the app on your public server. The server needs to support https with SSL certificates.

NEXT

Copy your Hubitat Endpoint to the Target URL. This is how SmartThings responds to the Hubitat Application

Automation | SmartApp

Develop an Automation SmartApp with the SmartThings API, and register it here. [Learn More](#)

Documentation Examples

Hosting Name & Scope Advanced Settings < Previous Next >

Where are you hosting your connector app?

AWS Lambda
Host the app in AWS Lambda with your AWS account, and grant SmartThings permission to execute the Lambda.

WebHook Endpoint
Host the app on your public server. The server needs to support https with SSL certificates.

Target URL
Please enter a secure URL that can receive incoming POST requests from SmartThings using HTTP POST requests.
https://cloud.hubitat.com/api/[redacted]apps

About Your Web Service
Your web service application should be able to receive incoming HTTP POST requests to a publicly accessible endpoint via HTTPS. It must be reachable by SmartThings at this point of time, as it will be called with the PING lifecycle to verify its existence and health.
[Learn more](#)

NEXT

Input 'App Display a Name' and 'Description' and 'select all permissions'. (This will allow for future features) The name can be anything but suggest using 'HubiThings Replica' and 'Mirror SmartThings and Hubitat Devices'. Then select 'Next' and 'Save' (no Advanced Settings):

Automation | SmartApp

Develop an Automation SmartApp with the SmartThings API, and register it here. [Learn More](#)

Documentation Examples

Hosting Name & Scope Advanced Settings < Previous Next >

App Display Name
HubiThings Replica
A user friendly name for your integration. Used when listing or requesting the user grant permission to your app.

Description
Mirror SmartThings and Hubitat Devices
This description will be used in the SmartThings app. Please provide a description that helps end user understand what this automation does.

Permissions required by your connector app
Choose at least one scope for your connector. Only use the permissions your connector requires to work. Users will be asked to accept these permissions in the SmartThings app.

Filter scope

Scope	Description
<input checked="" type="checkbox"/> Scope	
<input checked="" type="checkbox"/> i:devices:*	Install devices associated with any device profiles owned by the specified owner. Principal must be an installedapp.
<input checked="" type="checkbox"/> r:devices:*	Either read a specific device or read all devices associated with the auth token's principal. Principal must be an installedapp or a user.
<input checked="" type="checkbox"/> w:devices:*	Either write a specific device or write to all devices associated with the auth token's principal. Principal must be an installedapp or a user.

After you select 'Save' you will get your client ID & Secret. Copy these and paste them into the Hubitat application. Note: These are ONLY used to refresh the SmartThings auth token which expires every 24 hours.

The image shows two screenshots from the SmartThings Developer Workspace and the Hubitat application.

Top Screenshot (SmartThings Developer Workspace):

- The interface is titled "Automation | SmartApp".
- A modal dialog titled "Save Client ID & Secret" is displayed.
- The dialog contains the following text: "For security reasons, this is the **only time** you will see this client secret. Make sure to save it now if you plan to use it in the future."
- Two fields are shown, both circled in red:
 - Client ID:** 3d6d3fbc-28e8-44de-bd0f-e6b5f98da05b
 - Client Secret:** e3de3ee6-03a3-4321-a36f-4d2af74163d2
- Each field has a "Copy" button.
- Below the fields, it says: "Next step, deploy your integration to begin testing."
- A blue button at the bottom says "GO TO PROJECT OVERVIEW".

Bottom Screenshot (Hubitat):

- The interface is titled "HubiThings Replica : [Alpha Release]".
- It shows the "Hubitat Endpoint Webhook" section.
- There is a toggle for "Enable Hubitat REST API Endpoint for SmartThings Developer Workspace SmartApp".
- The "External" URL is displayed as: `https://cloud.hubitat.com/api/` followed by a redacted token.
- A warning message states: "Warning: Enabling external endpoints can allow data on the local Hubitat Hub to be exposed and/or captured. I am not saying this is actually happening, but cloud logging of the HTML response could allow the ability to reassemble the data."
- Two fields are circled in red, showing the client ID and secret from the SmartThings Developer Workspace:
 - SmartApp Client ID from SmartThings Developer Workspace:** 3d6d3fbc-28e8-44de-bd0f-e6b5f98da05b
 - SmartApp Client Secret from SmartThings Developer Workspace:** e3de3ee6-03a3-4321-a36f-4d2af74163d2
- Below this is the "HubiThings Device List" section with tabs for "Device List", "Device Description", "Device Status", and "Device Health".
- At the bottom is the "HubiThings Device Creation and Control" section with buttons for "Create HubiThings Device", "Configure HubiThings Rules", and "Delete HubiThings Device".

Go back to the SmartThings and select App Registration. This tests the communication path between the SmartThings SmartApp and the Hubitat SmartApp.

Automation
HubiThings Replica

Overview

Develop
Automation Connector

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Live Logging, Developer Mode

Platform Comm... (0A) ▾

Develop Deployed to test **DEPLOY TO TEST**

Automation [VIEW DETAILS >](#)

SmartThings is not able to verify the registration of the WebHook SmartApp. Please make sure your app is available and properly implemented, and verify again. [Learn more](#) **VERIFY APP REGISTRATION**

Name HubiThings Replica

Hosting <https://cloud.hubitat.com/api/...>

Current status
Draft
The app is not listed on the SmartThings app. You will be able to test it once it is deployed to test.

Live Logging [LOCK](#)

Understand what is going on behind the scene with live connector log and device log.

* Please deploy to test to unlock this feature

If everything works, you should get the “Deploy to Test” button enabled. Select and deploy

Automation
HubiThings Replica

Overview

Develop
Automation Connector

Test
Live Logging, Developer Mode

Platform Comm... (0A) ▾

Develop Deployed to test **DEPLOY TO TEST**

Automation [VIEW DETAILS >](#)

Name HubiThings Replica

Hosting <https://cloud.hubitat.com/api/...>

Current status
Draft
The app is not listed on the SmartThings app. You will be able to test it once it is deployed to test.

Live Logging [LOCK](#)

Understand what is going on behind the scene with live connector log and device log.

* Please deploy to test to unlock this feature

This completes bi-directional setup between the Hubitat Hub and the SmartThings Hub. 😊

Automation

HubiThings Replica

Overview

Develop
Automation Connector

Test
Live Logging, Developer Mode

Platform Comm... (0A) ▾

👤 ⓘ 🔍

Develop

Deployed to test

Automation


VIEW DETAILS >

Name

HubiThings Replica

Hosting


https://cloud.hubitat.com/api/



Live Logging

Understand what is going on behind the scene with live connector log and device log.

VIEW LIVE LOGS



Current status

Deployed to test

You can now preview and test this app on the SmartThings app. Check out following tools for testing.

View Live Logs

>

Preview in Developer Mode

>