

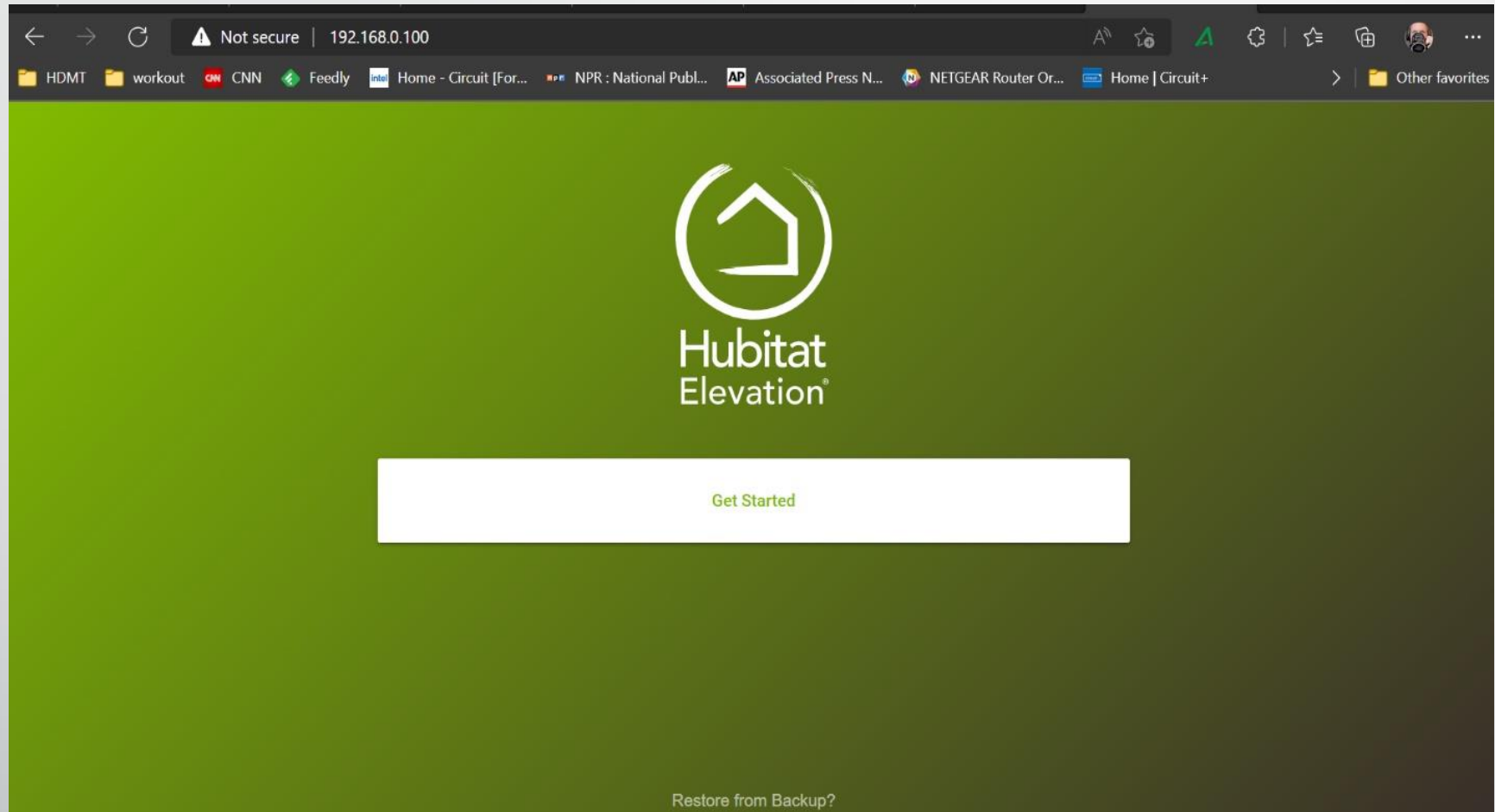


# Configuring Hubitat

By: Julia Beiferman



# First Time Set Up



Enter the Hubitat's IP address into the web browser to access the startup homepage. Select 'Get Started'



# Hubitat®

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In order to start using Hubitat Elevation® please first review and agree to our [Terms of Service](#)

☒ I agree to the terms of service

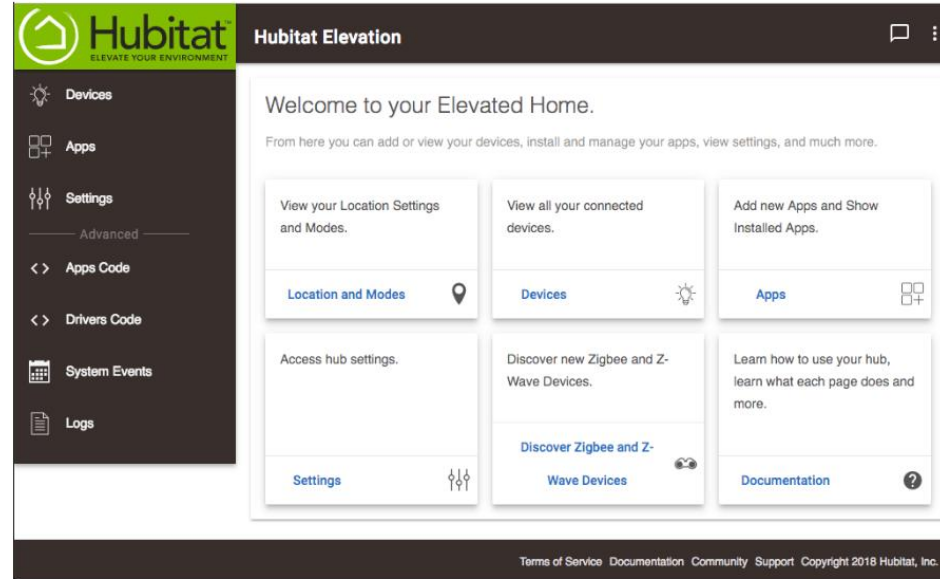
Continue

Agree to Terms of Service and continue.

Welcome to Hubitat Elevation®

Skip

Next



This quick tutorial will familiarize you with the Web UI and walk you through the devices, apps and settings pages.

For complete documentation, use the [Documentation](#) link in the Web UI footer

This will bring you to the tutorials page. Click 'Skip' if you are already familiar.

Back

## Hubitat Elevation® Setup

---

To get started, you need to name your hub / location and enter a postal code to set your location. You can fine tune this in the Settings -> Location and Modes area.

### Your Location Details:

Location / Hub Name

STTDLab

---


Postal Code


85226


---


Save and Exit to Main Menu


Next, enter location and postal code and hit 'Save and Exit to Main Menu'


**Hubitat**  
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Rooms


Devices


Apps


Settings

Subscriptions

Developer

Apps Code

Drivers Code

Libraries Code


Settings


Hub Details	Hub detailed information
Check for Updates	New Platform Updates
Backup and Restore	Database backup and restore
Restore Apps	Restore Downloaded Apps
Hub Login Security	Turn Secure Login On or Off
Network Setup	Manage your network settings


Hub Global Values


Localization	Set the location and timezone of your hub
Modes	Manage Modes
Hub Variables	Create or remove Variables and Connectors
File Manager	Manage stored files


In the Main Menu click 'Settings' on the left and then 'Network Setup'

 Rooms


 Devices


 Apps


 Settings


 Subscriptions


Developer



 Apps Code

 Drivers Code

 Libraries Code

 Currently using **DHCP** [Network Test](#)

Static IP/DHCP configuration is for built in Ethernet port only. WiFi USB adapters always use DHCP.

If static IP information turns out to be incorrect, and hub's web interface is no longer accessible, please reset it back to DHCP and reboot by clicking and holding the [reset button](#) for 7 seconds or more.

IP address\*

Click to set

Default gateway\*

Click to set

DNS name server (default: 8.8.8.8)\*

8.8.8.8

Subnet mask is fixed at 255.255.255.0

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Hard Configure the IP





# Installing Apps Code

(first time installation)

The screenshot displays the Hubitat web interface. On the left sidebar, the 'Drivers Code' option is selected and highlighted with a red circle. The main content area is titled 'Drivers Code' and features a search bar and a 'New Driver' button, both also circled in red. Below these is a table with the following data:

Name	Namespace	Capabilities	Last Modified
<a href="#">Virtual iStart Device</a>	TSTD.ISV		2015-01-02 3:32:06pm MST

Below the table, it states 'Showing 1 to 1 of 1 entries'.

On the left select 'Driver Code' under Developer and push 'New Driver' to upload the driver code

modified

« Drivers code

Import

Spaces

4

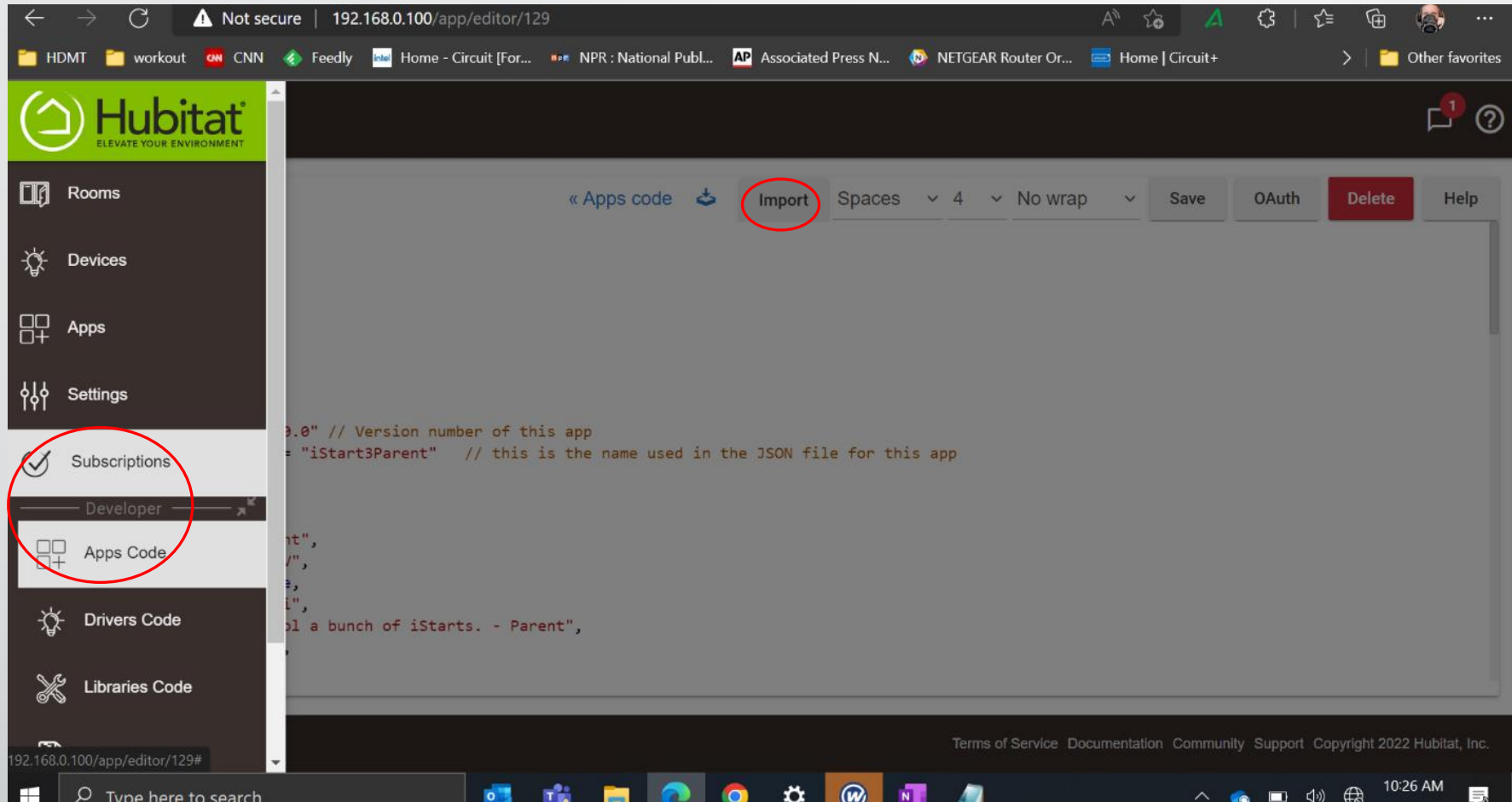
No wrap

Save

Help

```
1 metadata {
2   definition (name: "Virtual iStart Device", namespace: "ISV", author: "Julia Beiferman") {
3     capability "Actuator"
4     command "on"
5     command "off"
6     command "restart"
7   }
8   preferences {
9     input name: "txtEnable", type: "bool", title: "Enable descriptionText logging", defaultValue: true
10  }
11 }
12
13 def installed() {
14   log.warn "installed..."
15   off()
16 }
17
18 def updated() {
19   log.warn "updated..."
20   log.warn "description logging is: ${txtEnable == true}"
21 }
22
23 def parse(String description) {
24 }
25
26 def on() {
27   def descriptionText = "${device.displayName} was turned on"
28   if (txtEnable) log.info "${descriptionText}"
29   sendEvent(name: "switchPosition", value: "on", descriptionText: descriptionText)
30 }
31
32 def off() {
33   def descriptionText = "${device.displayName} was turned off"
34   if (txtEnable) log.info "${descriptionText}"
35   sendEvent(name: "switchPosition", value: "off", descriptionText: descriptionText)
36 }
37
38 def restart() {
39   def descriptionText = "${device.displayName} was restarted"
40   if (txtEnable) log.info "${descriptionText}"
41   sendEvent(name: "switchPosition", value: "restart", descriptionText: descriptionText)
```

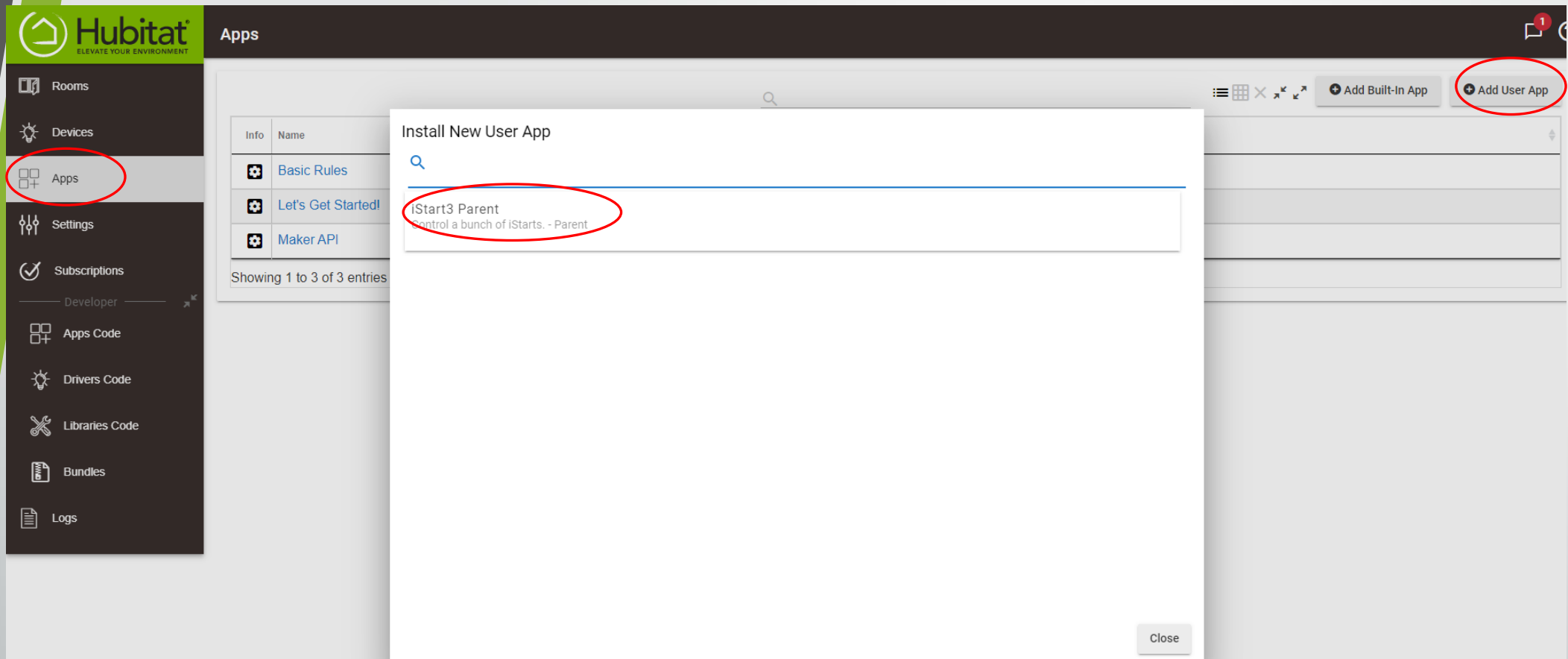
Paste in the contents of 'actuator.groovy' and save the file.



On the left select 'Apps Code' under Developer and push 'Import' to upload the Child.groovy code

```
1 def setVersion()
2 {
3     state.version = "1.0.0" // Version number of this app
4     state.InternalName = "iStart3Child" // this is the name used in the JSON file for this app
5 }
6 definition(
7     name: "iStart3 Child",
8     namespace: "TSTD.ISV",
9     author: "Craig Romei",
10    description: "Control an iStart relay box",
11    category: "Restart",
12    parent: "TSTD.ISV:iStart3 Parent",
13    iconUrl: "https://raw.githubusercontent.com/napalmcsr/SmartThingsStuff/master/smartapps/craig-romei/poolpump.jpg",
14    iconX2Url: "https://raw.githubusercontent.com/napalmcsr/SmartThingsStuff/master/smartapps/craig-romei/poolpump.jpg",
15    iconX3Url: "https://raw.githubusercontent.com/napalmcsr/SmartThingsStuff/master/smartapps/craig-romei/poolpump.jpg"
16 )
17 preferences {
18     page(name: "pageConfig") // Doing it this way eliminates the default app name/mode options.
19 }
20 def pageConfig()
21 {
```

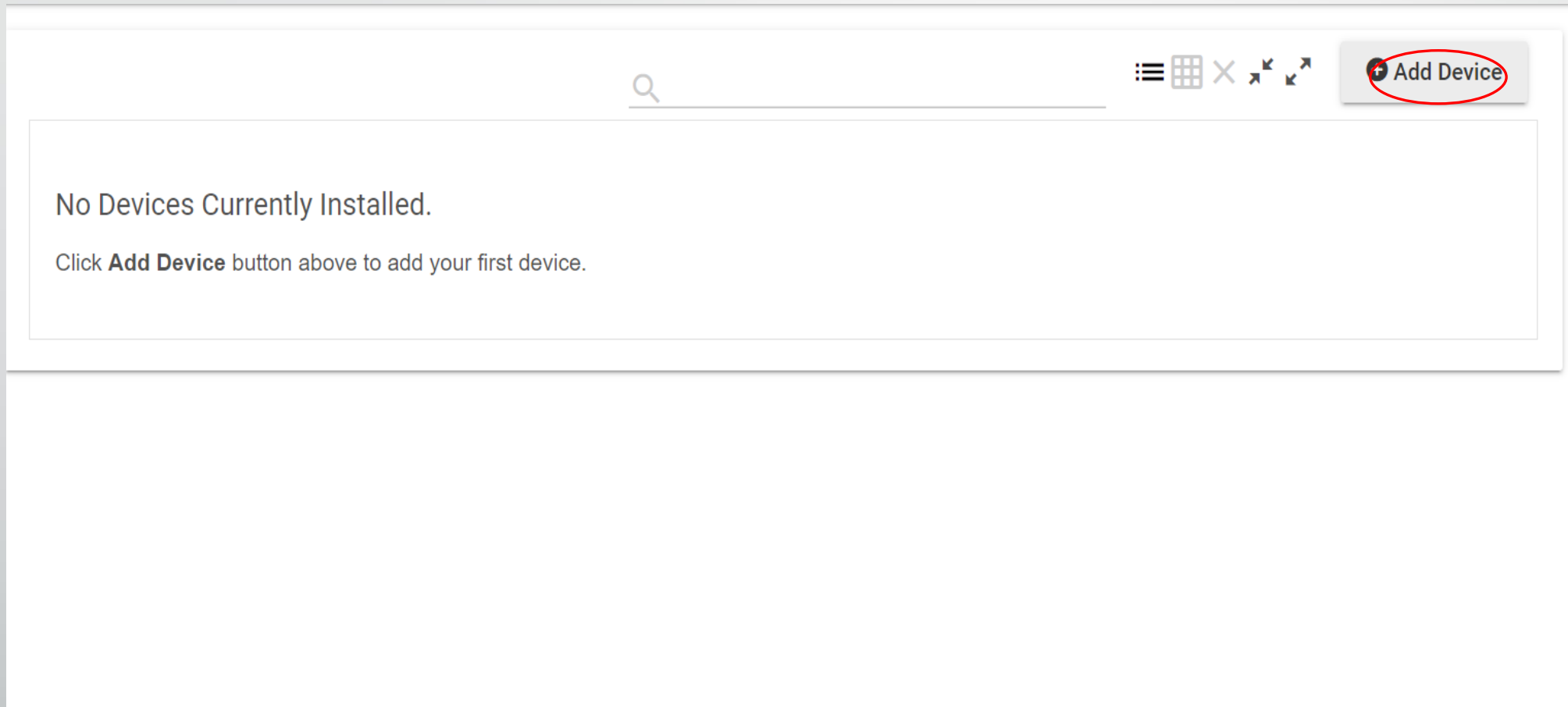
The result should look like this. Remember to save the file. Repeat the process with the 'Parent.groovy' code



Go back to the 'Apps' tab and click 'Add User App' to add the iStart3 Parent app.




# Adding a Device/ Connecting Relays





At the bottom it will say no devices currently installed. Click the 'Add Device' button



 Rooms Devices Apps Settings Subscriptions


Developer

 Apps Code Drivers Code Libraries Code Bundles Logs

Find by brand

Aeotec, Bosch, Centralite, Dome, Ecolink...

Add device manually:

 Zigbee Z-Wave Iris V1 Zigbee Virtual

Make sure that the device has been factory reset.

Simply removing it from a previous mesh may not allow it to be joined.

A factory reset will ensure it is discoverable.

Stop Zigbee pairing



Pairing, 29s remaining

The following device has been added:

Generic Zigbee Multi-Endpoint Switch

[Label this device](#)

Save

[more...](#)



## Add device

Rooms

Devices

Apps

Settings

Subscriptions

Developer

Apps Code

Drivers Code

Libraries Code

Bundles

Logs

Start Zigbee pairing

Not in pairing mode

The following device has been added:

Generic Zigbee Multi-Endpoint Switch

Save

[less...](#)

ID: B953

**Manufacturer:** eWeLink

**Product Name:**

**Model Number:** ZB-SW02

**deviceTypeid:** 21

manufacturer : eWeLink

idAsInt : 1

inClusters : 0000,0003,0004,0005,0006

endpointId : 01

profileId : 0104

application : 08

outClusters : 0000

initialized : true

model : ZB-SW02

stage : 4

manufacturer :

idAsInt : 2

inClusters : 0000,0003,0004,0005,0006

endpointId : 02

profileId : 0104

application :

outClusters : 0000

initialized :

## Add device



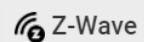
Find by device type  
Bulbs, dimmers, locks, outlets, switches...



Find by brand  
Aeotec, Bosch, Centralite, Dome, Ecolink...




Add device manually:



Make sure that the device has been factory reset.  
Simply removing it from a previous mesh may not allow it to be joined.  
A factory reset will ensure it is discoverable.

Start Zigbee Pairing

Select 'Zigbee' under Add device manually and then 'Start Zigbee Pairing' to pair relay to the Hubitat

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Rooms

Devices

Apps

Settings

Subscriptions

Developer

Apps Code

Drivers Code

Libraries Code

Bundles

Logs

Add device

Start Zigbee pairing

Not in pairing mode

The following device has been added:

Generic Zigbee Multi-Endpoint Switch

B953 Relay

Save

[less](#)

ID: B953

Manufacturer: eWeLink

Product Name:

Model Number: ZB-SW02

deviceTypeid: 21

manufacturer: eWeLink

idAsInt: 1

inClusters: 0000,0003,0004,0005,0006

endpointId: 01

profileId: 0104

application: 08

outClusters: 0000

initialized: true

model: ZB-SW02

stage: 4

manufacturer:

idAsInt: 2

inClusters: 0000,0003,0004,0005,0006

endpointId: 02

profileId: 0104

application:

outClusters: 0000

initialized: true

Location: STTDLab

Every relay board has a unique 4 character id under it's details section. When connecting the relay board to the hubitat, make sure to name it "<id> Relay" ex: B953 Relay



It is recommended to print this label on the relays to distinguish boards

## Device

iStart\_TesterName

Saved

What do you want to do next?

View device details

Test the functions of your new device (*highly recommended*) and see additional details.

Add another device

Start from the beginning to add a new device.

Automate devices

Open the Basic Rules app to build your first automation rules.

Below, select 'View device details'

## iStart\_TesterName

Device

27FC

Device Label

iStart\_TesterName

Type \*

Generic Zigbee Multi-Endpoint Switch

Zigbee Id

A4C138D6855A5A9C

Room

No room assigned

Event history size, per event type (1-2000)

20



Hub Mesh enabled

State history size, per attribute (1-2000)

30


Save Device

Under 'Type \*' select 'Generic Zigbee Multi-Endpoint Switch' and hit 'Save Device'



# Adding a Tester



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Rooms

Devices

Apps

Settings

Subscriptions

Developer

Apps Code

Drivers Code

Apps

1

?

+

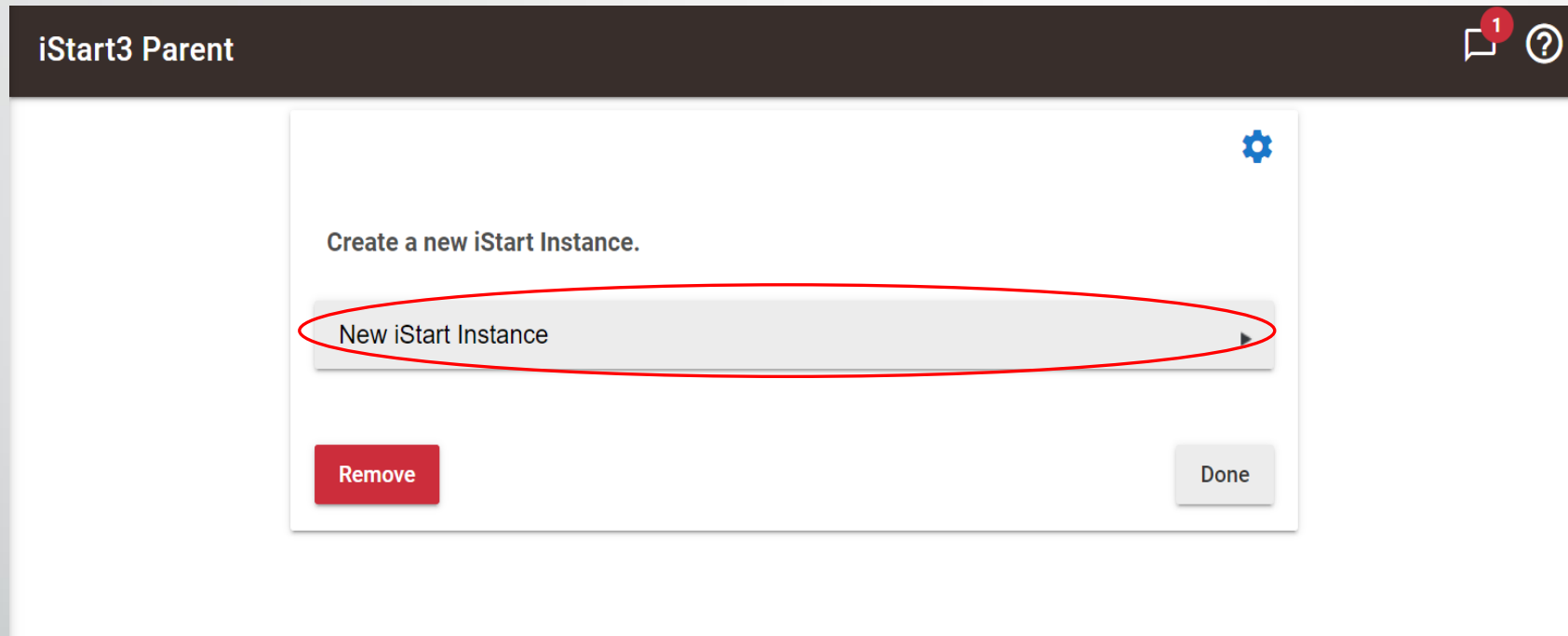
Add Built-In App

+


Add User App

Info	Name	Type
	Basic Rules	Basic Rules
	iStart3 Parent	iStart3 Parent (user)
	Let's Get Started!	Let's Get Started!

Now, when you click on Apps on the left side, you should see your programs. Click iStart3Parent to add a child.



Create a new iStart Instance

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Rooms

Devices

Apps

Settings

Subscriptions

Developer

Apps Code

Drivers Code

Libraries Code

Bundles

Logs

Tester 1

Enter a name for this automation\*  
Tester 1

iStart Relay Box

Run: \*  
iStart\_TesterName EP01

Start: \*  
iStart\_TesterName EP02

Logging

IDE logging level \*  
NeedHelp

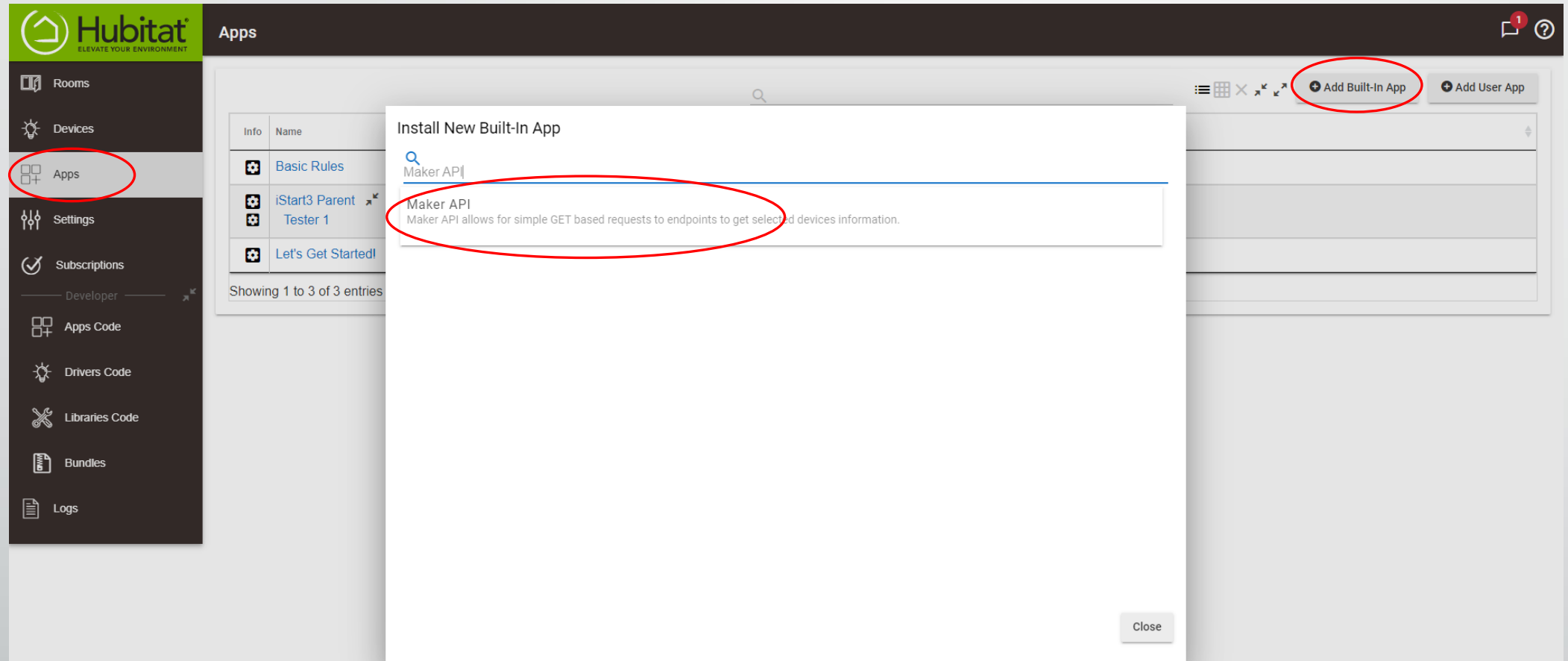
Remove

Done

Enter a name for the automation and set 'Run' and 'Start' to their respective relays. Hit 'done'. Repeat this process for every tester that needs to be added.



# Maker API



Clicking on the Apps tab again, you should see your newly made child app under 'iStart3Parent'. In this example: 'Tester 1'. On the upper right corner click 'Add Built-In App' and search for Maker API

The screenshot displays the Hubitat Maker API web interface. On the left is a dark sidebar with the Hubitat logo and a list of navigation items: Rooms, Devices, Apps, Settings, Subscriptions, Developer, Apps Code, Drivers Code, Libraries Code, Bundles, and Logs. The 'Apps' item is currently selected. The main content area is titled 'Maker API' and has a sub-header 'Allow Endpoint to Control These Devices'. Below this is a 'Select Devices' button, which is circled in red. Underneath the button is a list of checkboxes for various devices. The checkbox for 'Tester 1 iStart' is checked and also circled in red. At the bottom right of the device list area is an 'Update' button, also circled in red. Below the device list, there is a warning message: 'WARNING: Any device selected here will have full access to its attributes and events as well as have the ability to send any command to the device'. This is followed by a field for 'URL to POST device events to' with a 'Click to set' link. Below that are two toggle switches: 'POST location events?' (which is turned off) and 'Ignore SSL Certificates?' (which is also turned off). Further down is a section titled 'Allow Endpoint to Control Modes or HSM' with two toggle switches: 'Allow control of modes' (turned on) and 'Allow control of HSM' (turned on). At the bottom, there is a section for 'Endpoints' and 'Local URLs:'.

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Maker API

Allow Endpoint to Control These Devices

Select Devices  
Click to set

- ☐ Toggle All On/Off
- ☐ 2 Relay Board
- ☐ Generic Zigbee Multi-Endpoint Switch EP01
- ☐ Generic Zigbee Multi-Endpoint Switch EP02
- ☐ iStart\_TesterName
- ☐ iStart\_TesterName EP01
- ☐ iStart\_TesterName EP02
- ☐ iStart\_TesterName EP03
- ☐ iStart\_TesterName EP04
- ☒ Tester 1 iStart

Update

WARNING: Any device selected here will have full access to its attributes and events as well as have the ability to send any command to the device

URL to POST device events to  
Click to set

☐ POST location events? ☐ Ignore SSL Certificates?

Allow Endpoint to Control Modes or HSM

☒ Allow control of modes ☒ Allow control of HSM

Endpoints

Local URLs:

On the Maker API page, click on 'Select Devices' and choose the child app(s) you made, its device name should be followed by 'iStart' and hit 'Update'.

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Maker API

Rooms  
Devices  
Dashboards  
Apps  
Settings  
Subscriptions  
Developer  
Apps Code  
Drivers Code  
Libraries Code  
Bundles  
Logs

Allow Endpoint to Control Modes or HSM

☒ Allow control of modes ☒ Allow control of HSM

Endpoints

Local URLs:

URLS:  
Get All Devices  
Get All Devices with Full Details

Get Device Info (replace [Device ID] with actual subscribed device id)  
`http://192.168.0.101/apps/api/226/devices/[Device ID]?access_token=e27023c9-58e1-4439-8785-7ea7d9219d4a`

Get Device Event History (replace [Device ID] with actual subscribed device id)  
`http://192.168.0.101/apps/api/226/devices/[Device ID]/events?access_token=e27023c9-58e1-4439-8785-7ea7d9219d4a`

Get Device Commands (replace [Device ID] with actual subscribed device id)  
`http://192.168.0.101/apps/api/226/devices/[Device ID]/commands?access_token=e27023c9-58e1-4439-8785-7ea7d9219d4a`

Get Device Capabilities (replace [Device ID] with actual subscribed device id)  
`http://192.168.0.101/apps/api/226/devices/[Device ID]/capabilities?access_token=e27023c9-58e1-4439-8785-7ea7d9219d4a`

Send Device Command (replace [Device ID] with actual subscribed device id and [Command] with a supported command. Supports optional [Secondary value])  
`http://192.168.0.101/apps/api/226/devices/[Device ID]/[Command]/[Secondary value]?access_token=e27023c9-58e1-4439-8785-7ea7d9219d4a`

Send POST URL (replace [URL] with actual URL to send POST to (URL encoded))  
`http://192.168.0.101/apps/api/226/postURL/[URL]?access_token=e27023c9-58e1-4439-8785-7ea7d9219d4a`

Remove Done

At the bottom of the page, copy the Maker API URL and Hubitat Access onto your computer or keep this page up for reference.

The access token is a long string of characters at the end of each URL. The Maker API URL should follow the format. :

[https://\[hub-ip-address-or-hostname\]/apps/api/\[app-id\].](https://[hub-ip-address-or-hostname]/apps/api/[app-id].) Remember to hit 'done'.

## Settings:

Hubitat Access Token:

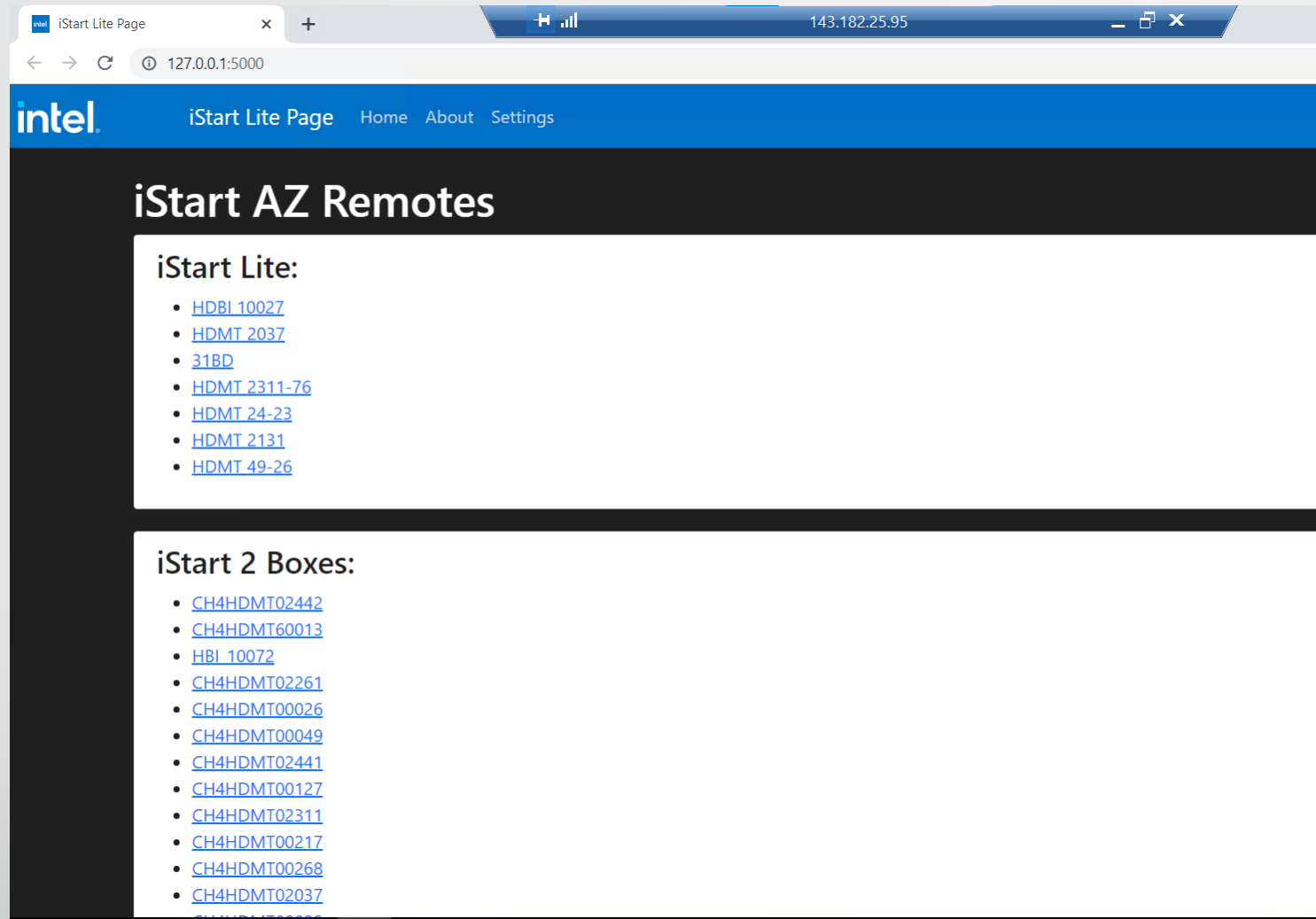
Maker API URL

[Save](#)[Edit](#)

[How to get URL and Access Token?](#)

Copy these values into the settings tab of the iStart Lite Page after clicking 'Edit' and then click 'Save'





If you have successfully connected to MakerAPI, click home. The testers that you have configured should be linked automatically under the iStart Lite tab. Click on their links to get started.