

# Google Nest Thermostat



## Crestron Home Driver Documentation

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# Google Nest Thermostat

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### Step 1

Create a new Google account.

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### Step 2

Add your new Google account as a family member.

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### Step 3

Go to <https://console.cloud.google.com>.

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### Step 4

Open the side panel. Go to IAM & Admin → Create a Project (<https://console.cloud.google.com/projectcreate>).

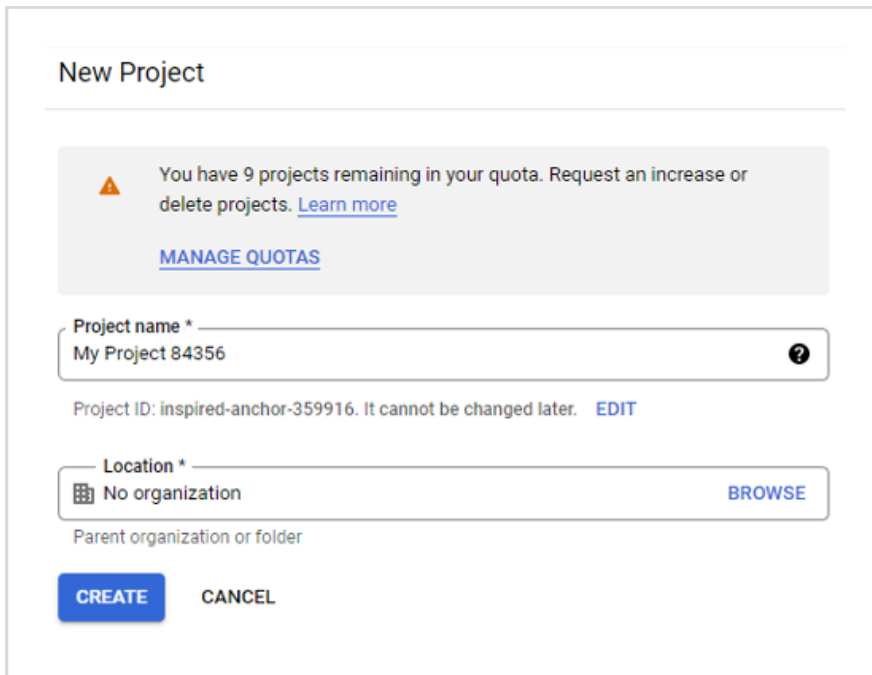
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### Step 5

Enter your project name. You can name it anything you like. Click “Create”.

A screenshot of the Google Cloud 'New Project' dialog box. At the top, it says 'New Project'. Below this is a warning message: 'You have 9 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)'. Under the warning is a link that says 'MANAGE QUOTAS'. The 'Project name \*' field contains 'My Project 84356' and has a help icon. Below the name field, it says 'Project ID: inspired-anchor-359916. It cannot be changed later. [EDIT](#)'. The 'Location \*' field has a dropdown menu showing 'No organization' and a 'BROWSE' link. Below the location field, it says 'Parent organization or folder'. At the bottom are two buttons: 'CREATE' and 'CANCEL'.

### Step 6

Open the side panel. Go to APIs & Services → OAuth Consent Screen (<https://console.cloud.google.com/apis/credentials/consent>).

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### Step 7

Click "Configure Consent Screen".

---

### Step 8

Choose External as your User Type. Click "Create".

Choose how you want to configure and register your app, including your target users. You can only associate one app with your project.

User Type

☐ Internal ?

Only available to users within your organization. You will not need to submit your app for verification. [Learn more about user type](#)

☒ External ?

Available to any test user with a Google Account. Your app will start in testing mode and will only be available to users you add to the list of test users. Once your app is ready to push to production, you may need to verify your app. [Learn more about user type](#)

**CREATE**

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HEAT SET TO

65

COOL SET TO

### Step 9

Fill the form. Click "Save and Continue".

1 OAuth consent screen — 2 Scopes — 3 Test users — 4 Summary

#### App information

This shows in the consent screen, and helps end users know who you are and contact you

App name \*

Application name must not be empty

User support email \*

An email address must be selected

App logo

BROWSE

Upload an image, not larger than 1MB on the consent screen that will help users recognize your app. Allowed image formats are JPG, PNG, and BMP. Logos should be square and 120px by 120px for the best results.

#### App domain

To protect you and your users, Google only allows apps using OAuth to use Authorized Domains. The following information will be shown to your users on the consent screen.

Application home page

Provide users a link to your home page

Application privacy policy link

Provide users a link to your public privacy policy

Application terms of service link

Provide users a link to your public terms of service

#### Authorized domains

When a domain is used on the consent screen or in an OAuth client's configuration, it must be pre-registered here. If your app needs to go through verification, please go to the [Google Search Console](#) to check if your domains are authorized. [Learn more](#) about the authorized domain limit.

+ ADD DOMAIN

#### Developer contact information

Email addresses \*

These email addresses are for Google to notify you about any changes to your project.

SAVE AND CONTINUE

CANCEL

Google Nest Thermostat | 04

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### Step 10

On the next screen, click "Save and Continue".

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### Step 11

On the next screen, click "Save and Continue".

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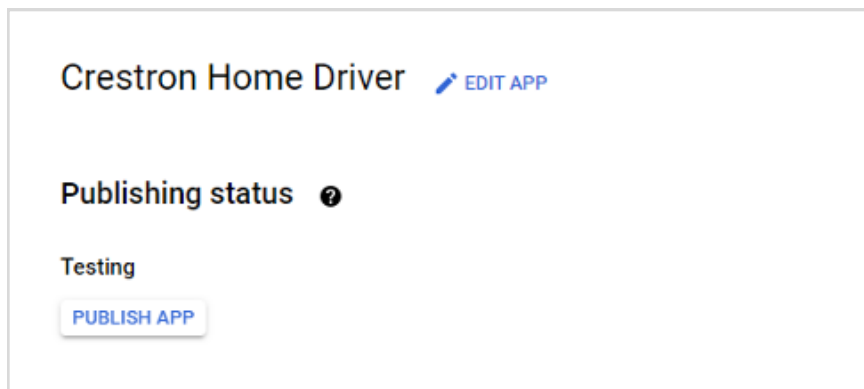
### Step 12

On the next screen, click "Back to Dashboard".

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### Step 13

On the next screen, click "Publish App".



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### Step 14

On the pop-up menu, click “Confirm”.

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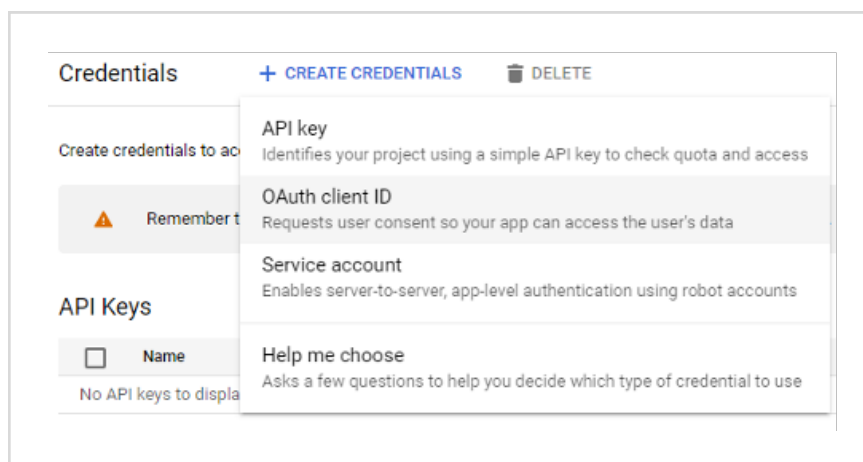
### Step 15

Open the side panel. Go to APIs & Services → Credentials (<https://console.cloud.google.com/apis/credentials>).

---

### Step 16

Click “Create Credentials”. Go to OAuth Client ID.

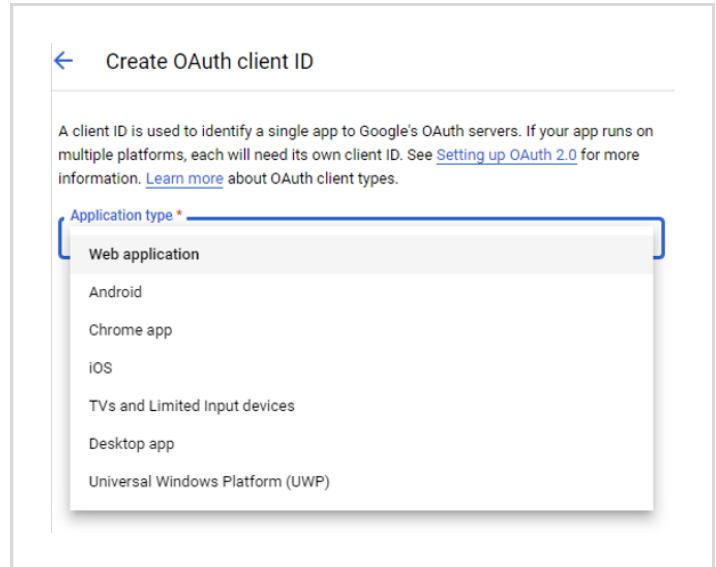


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### Step 17

Choose Web Application as your Application Type.



← Create OAuth client ID

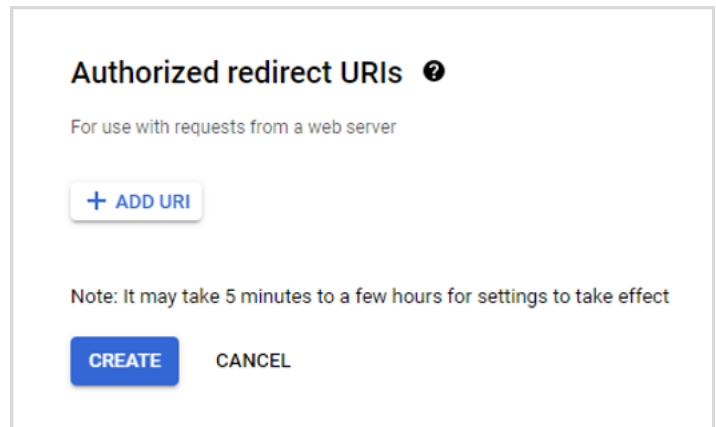
A client ID is used to identify a single app to Google's OAuth servers. If your app runs on multiple platforms, each will need its own client ID. See [Setting up OAuth 2.0](#) for more information. [Learn more](#) about OAuth client types.

Application type \*

- Web application
- Android
- Chrome app
- iOS
- TVs and Limited input devices
- Desktop app
- Universal Windows Platform (UWP)

### Step 18

Click "Add URI". Add <https://www.google.com>. Click "Create".



**Authorized redirect URIs** ⓘ

For use with requests from a web server

+ ADD URI

Note: It may take 5 minutes to a few hours for settings to take effect

CREATE CANCEL

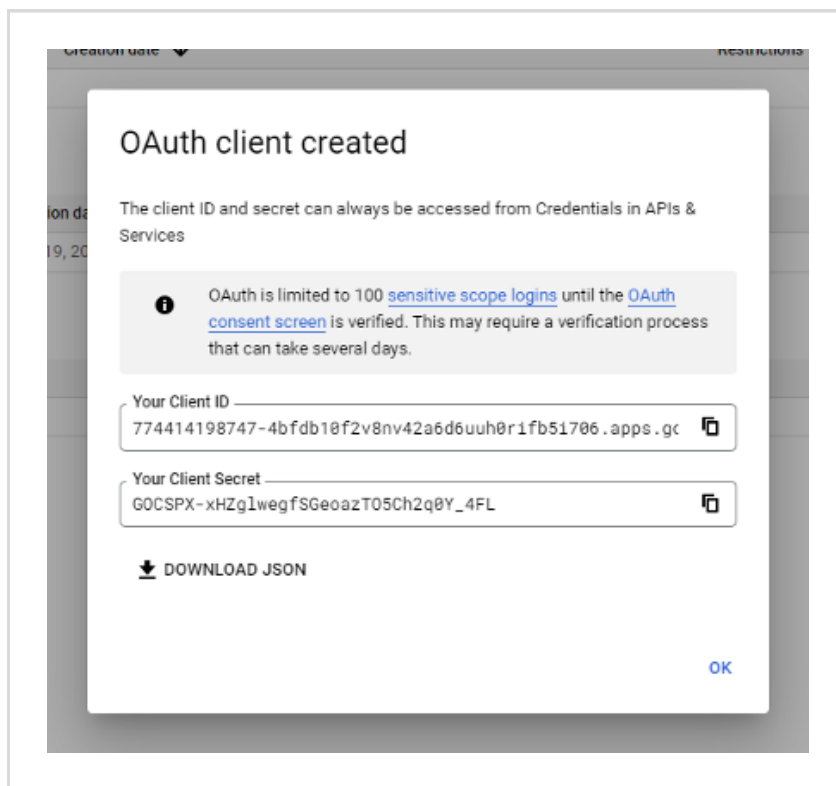


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### Step 19

Click "Download JSON".



### Step 20

Go to Device Access Console (<https://console.nest.google.com/device-access>).

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HEAT SET TO

65

COOL SET TO

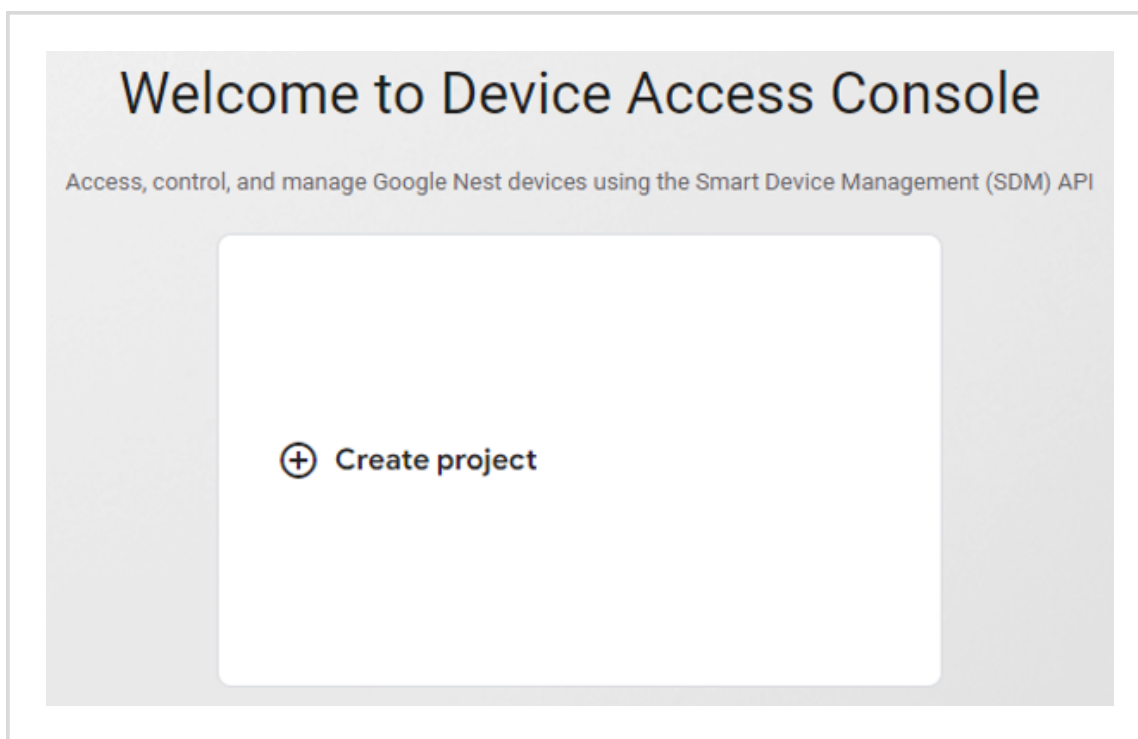
### Step 21

Pay a non-refundable fee of USD 5.00.

---

### Step 22

Click "Create Project".

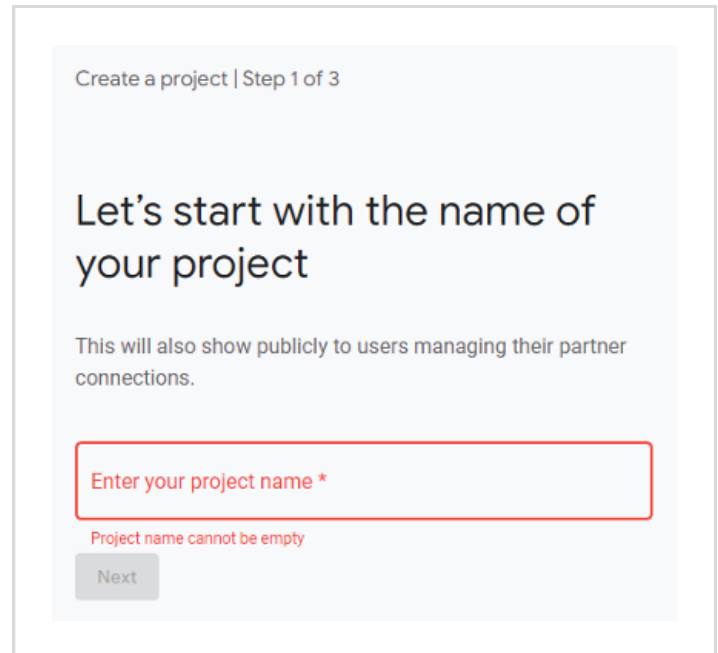


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### Step 23

Enter your project name.  
You can name it anything  
you like. Click “Next”.



Create a project | Step 1 of 3

### Let's start with the name of your project

This will also show publicly to users managing their partner connections.

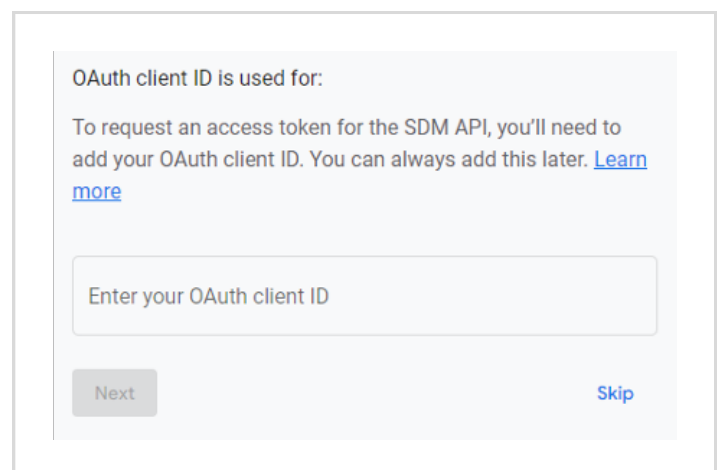
Enter your project name \*

Project name cannot be empty

Next

### Step 24

Paste your OAuth Client ID  
from the JSON File.



OAuth client ID is used for:

To request an access token for the SDM API, you'll need to add your OAuth client ID. You can always add this later. [Learn more](#)

Enter your OAuth client ID

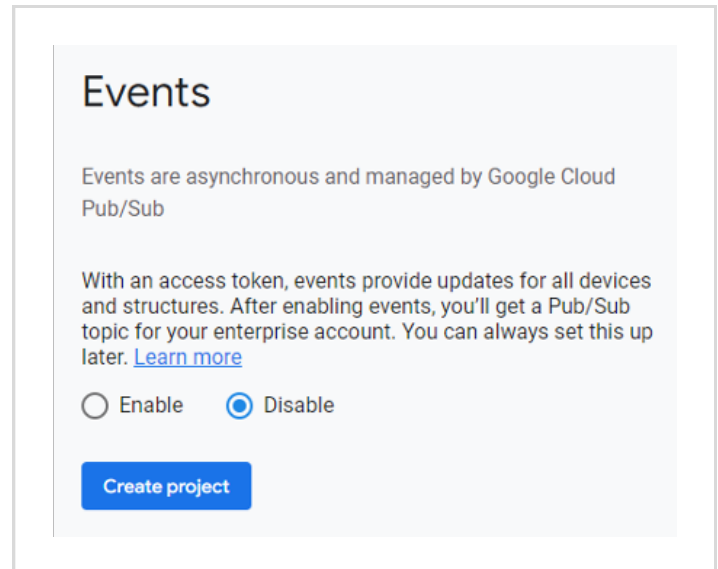
Next Skip

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### Step 25

On the next screen, select Disable. Click "Create Project".



### Step 26

Copy your Project ID.



### Step 27

Go to <https://developers.google.com/nest/device-access/get-started>.

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### Step 28

Click "API Enablement".

#### Set up Google Cloud Platform

Access to the SDM API is provided through GCP. To enable the API and authorize a Google account with a supported Nest device, you'll need a GCP project.

Use the **Enable the API and get an OAuth 2.0 Client ID** button below to enable the **Smart Device Management API** and get an OAuth 2.0 Client ID:

1. If you have an existing GCP project that you would like to use for Device Access, make sure you are logged into the admin account for that project first. Then select the existing project from the list of available projects after clicking the button. Otherwise, create a new project.
2. Select **Web Server** when it asks "Where are you calling from?".
3. Enter <https://www.google.com> as the value for **Authorized redirect URIs**. A redirect URI is required to obtain an Authorization Code using PCM.
4. Once setup is complete, **copy the OAuth 2.0 Client ID and Client Secret values, and download the Credentials JSON to your local machine.**

[Enable the API and get an OAuth 2.0 Client ID](#)

If you want to manually set up your GCP project, or verify the setup and retrieve your credentials again:

1. Enable **Smart Device Management API** on the [API Enablement](#) page.
2. Get an OAuth 2.0 Client ID on the [Credentials](#) page.

### Step 29

Click "Enable".



#### Smart Device Management API

[Google](#)

Allow select enterprise partners to access, control, and manage Google and Nest devices...

[ENABLE](#)

[TRY THIS API](#)

### Step 30

Go to <https://developers.google.com/nest/device-access/authorize>.

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### Step 31

Paste your Client ID from the JSON File and Project ID.

1. Open the following link in a web browser, replacing:

- a. **project-id** with your Device Access Project ID
- b. **oauth2-client-id** with the OAuth2 Client ID from your [Google Cloud Platform \(GCP\) Credentials](#)

```
https://nestservices.google.com/partnerconnections/project-id/auth?  
redirect_uri=https://www.google.com&access_type=offline&prompt=consent&  
client_id=oauth2-client-id&response_type=code&  
scope=https://www.googleapis.com/auth/sdm.service
```



### Step 32

Copy your URI.

### Step 33

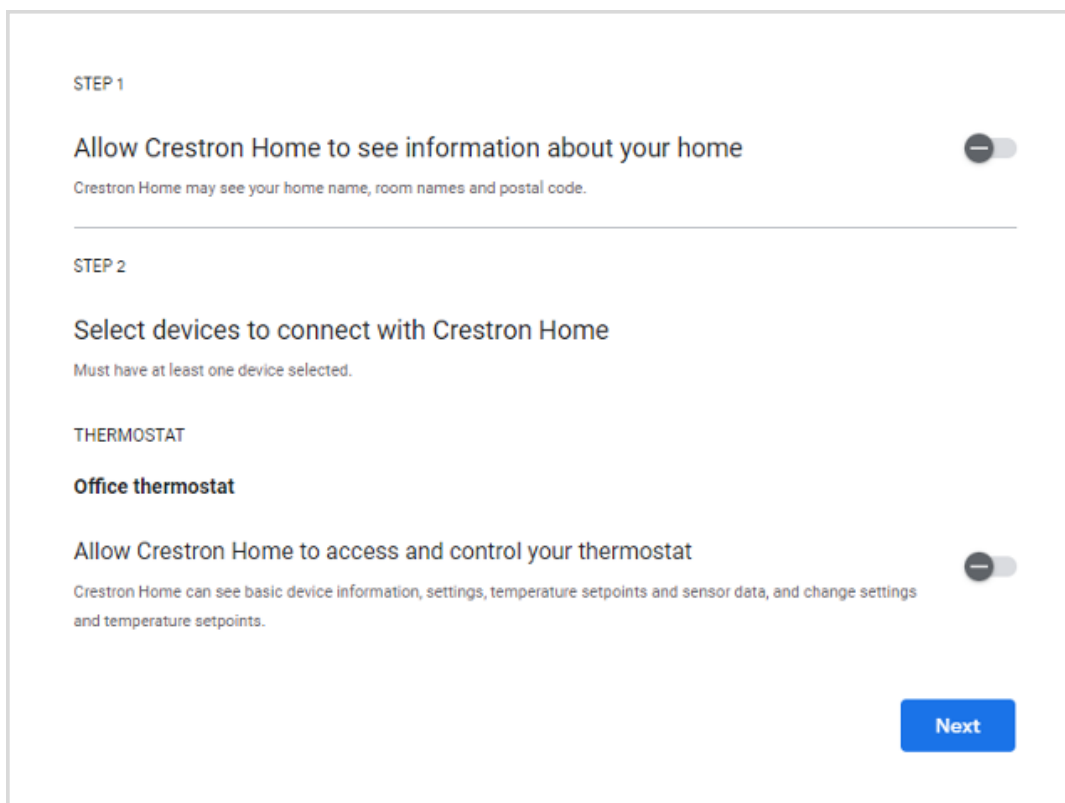
Paste your URI.

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### Step 34

Allow Crestron Home to access your information and control devices. Click "Next".



STEP 1

**Allow Crestron Home to see information about your home** ☐

Crestron Home may see your home name, room names and postal code.

---

STEP 2

**Select devices to connect with Crestron Home**

Must have at least one device selected.

THERMOSTAT

**Office thermostat**

**Allow Crestron Home to access and control your thermostat** ☐

Crestron Home can see basic device information, settings, temperature setpoints and sensor data, and change settings and temperature setpoints.

**Next**

### Step 35

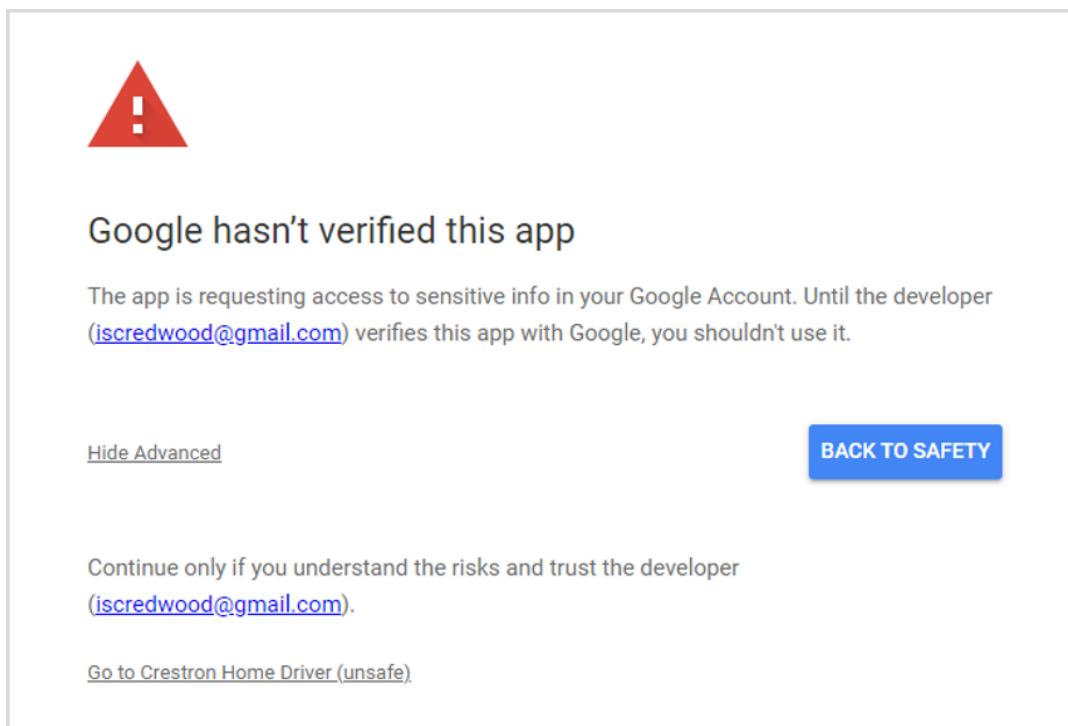
On the next screen, choose Client Account (Home Owner).

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### Step 36

Click "Advanced". Go to YOUR\_PROJECT\_NAME.



### Step 37

Click "Continue".



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### Step 38

Copy the code from URI.

<https://www.google.com/?code=4/0AdQt8qhpZ3YKygSK-ikTGyyu4iy0F62oPpyX4-26gSaGAi2kK6d/74wbAlaugFC-vnap-A&scope=https://www.googleapis.com/auth/sdm.service>

### Step 39

Open Crestron Home Setup.

### Step 40

Go to Drivers → Platform → Nest.

### Step 41

Click "Add Nest Platform".



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### Step 42

Enter the name of your Nest Platform. Click "OK".

---

### Step 43

Add your License Key.

---

### Step 44

Add your Client ID from the JSON File.

---

### Step 45

Add your Client Secret from the JSON File.

---

### Step 46

Add Code you have copied from the browser.

---

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### Step 47

Add your Redirect URL: <https://www.google.com>.

---

### Step 48

Add your Project ID.

---

### Step 49

Click "OK".

---

### Step 50

Wait until Folder shows up.

---

### Installation Settings

①

Obtain License Key

Clicking the link on the right, take's you to Intersystem Controls website where you can purchase a license key. [ISC](#)

①

Enter License Key

A purchased license key must be obtained by clicking the above link and entered here. The extension will function 100% without a license key for 2 hours

①

Client Id

Connect Google to get Client Id

①

Client Secret

Connect Google to get Client Secret

①

Code

Connect Google to get Code

①

Redirect Url

Connect Google to get Redirect Url

①

Project Id

Connect Google to get Project Id

OK

Cancel

# Google Nest Thermostat

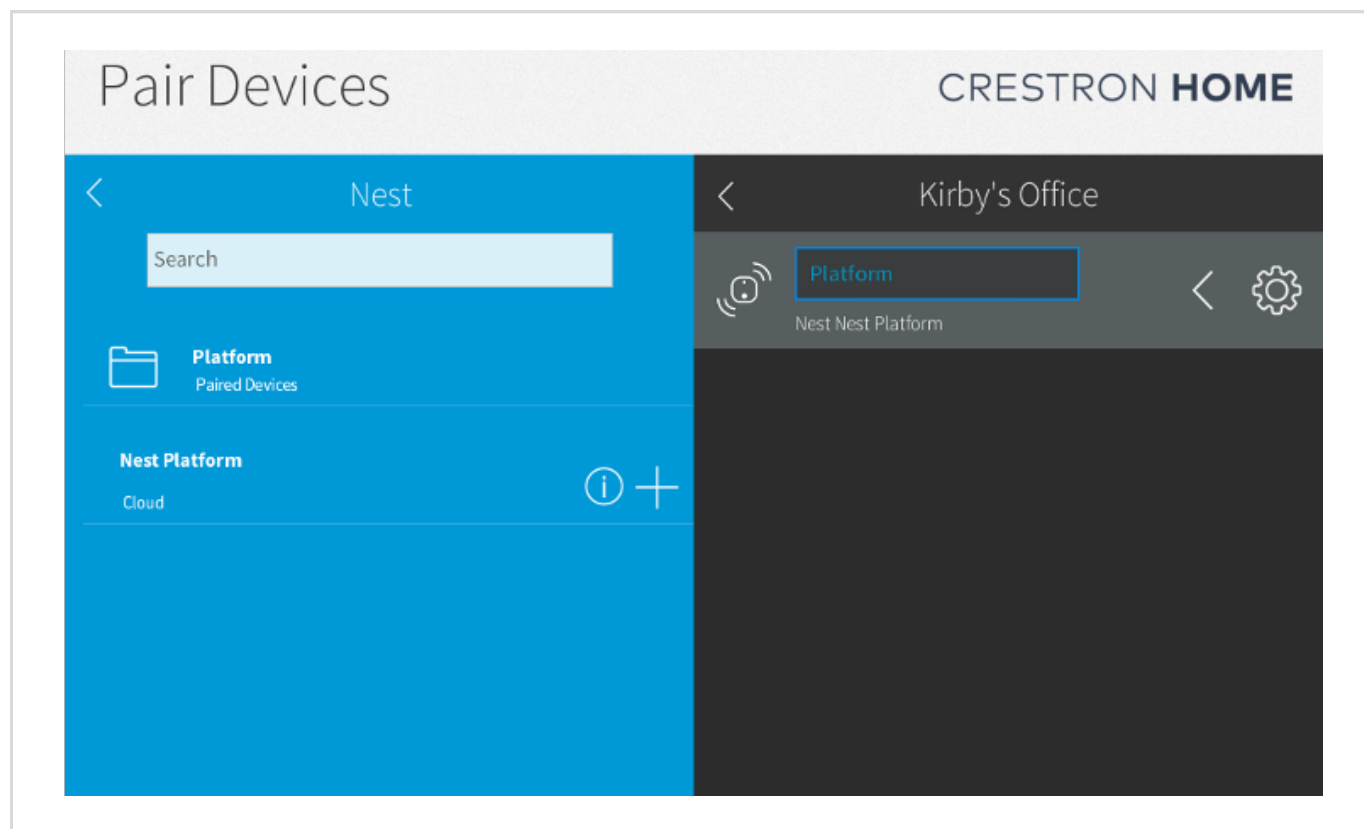
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### Step 51

Open Folder.

### Step 52

Click "Add Thermostat" to Room. You can add the thermostat into any room.





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