



## Making iOS Certificates

APP Development > OEM APP > iOS Push

Version: 20200324

## Contents

<b>1</b>	<b>Updates</b>	<b>1</b>
<b>2</b>	<b>Prepare</b>	<b>2</b>
<b>3</b>	<b>Create iOS Certificate</b>	<b>3</b>
3.1	1. Create App ID . . . . .	3
3.2	2. Create a CSR file (.certSigningRequest format) . . . . .	6
3.3	3. Create App Distribution certificate(.p12 format) . . . . .	8
3.4	4. Create App Push Certificate (.p12 format) . . . . .	11
3.5	5. Create Profile (.mobileprovision format) . . . . .	15
3.6	6. Upload certificates, profile to Tuya IoT Platform. . . . .	18
<b>4</b>	<b>Attention</b>	<b>21</b>

## 1 Updates

---

Update Time	Description
2020.3.4	Format update, image update
2020.3.2	Update “Apple SignIn” related things
2020.3.17	Update v3.15 additional capability

---

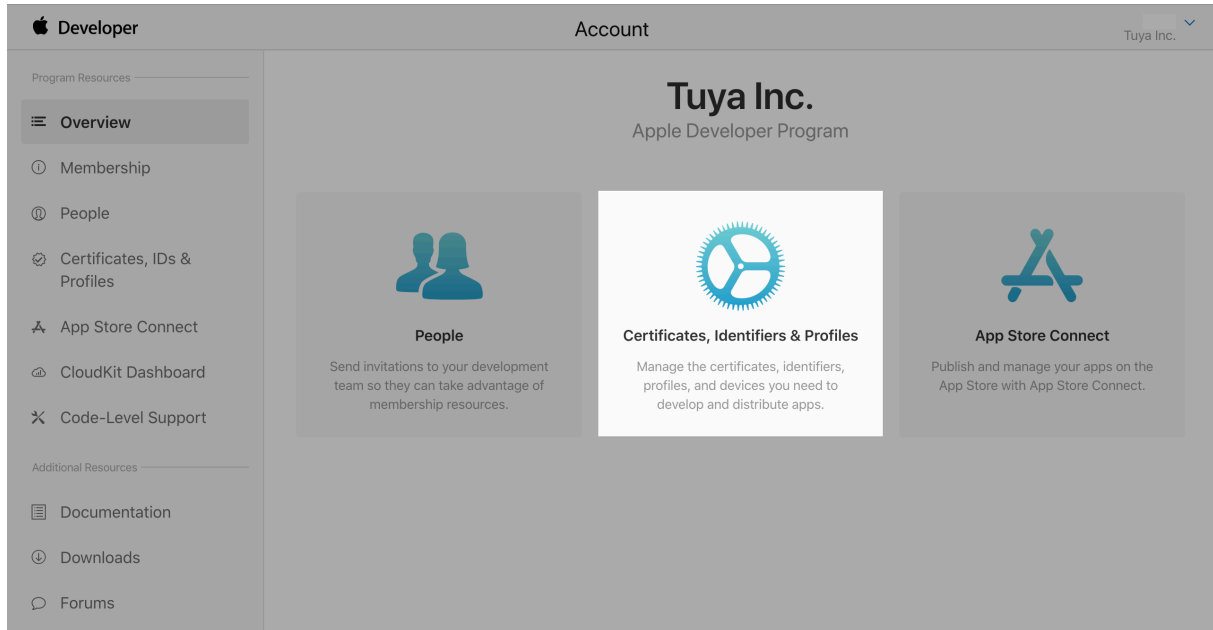
## 2 Prepare

1. Register and join Apple Developer Program. See: [Enrollment - Support - Apple Developer](#)
2. A macOS Computer

## 3 Create iOS Certificate

### 3.1 1. Create App ID

1.1 Login [Apple Developer](#), click [Certificates, IDs & Profiles](#) .



1.2 Click [Identifiers](#) -> + .

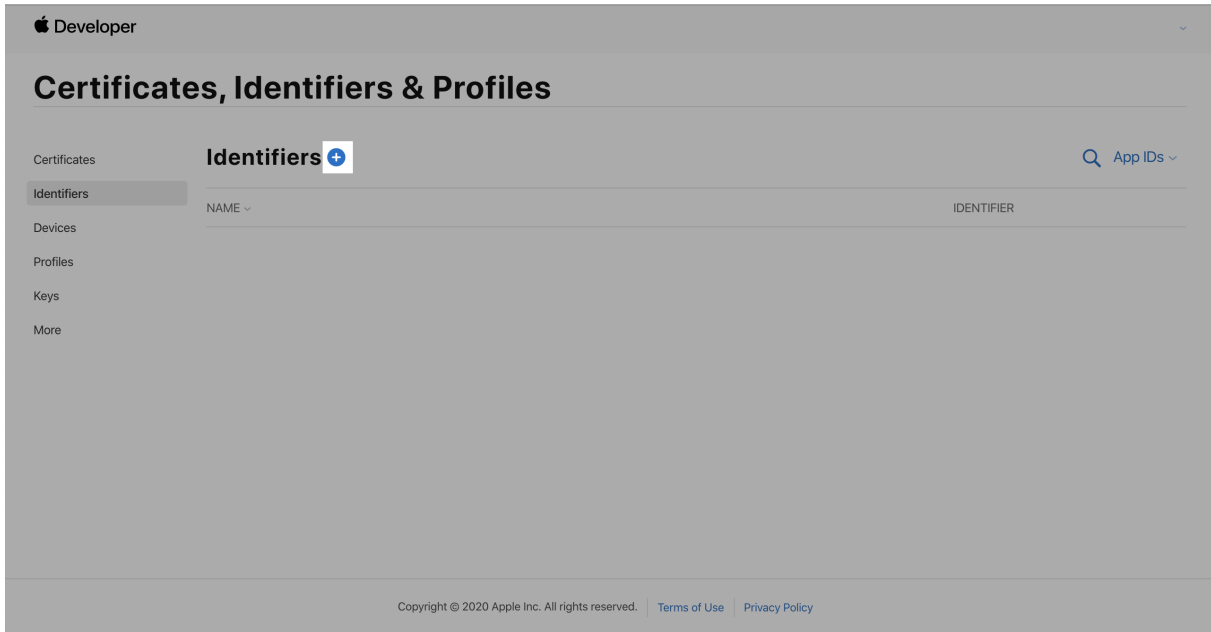
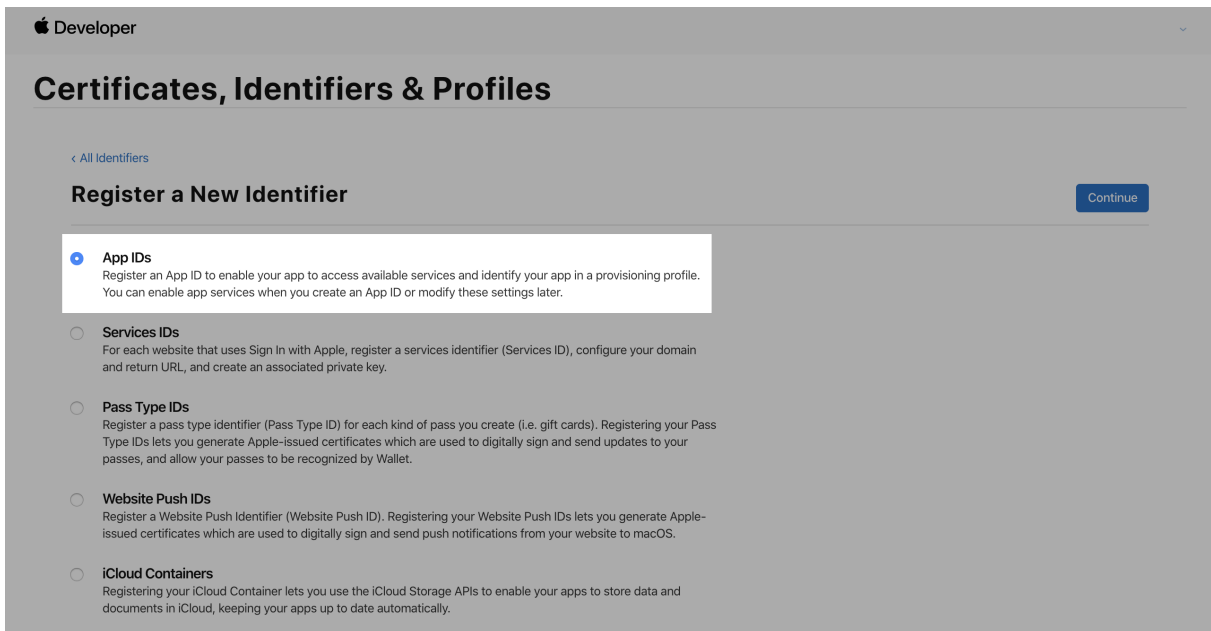


Figure 1: image.png

1.3 Select [App IDs](#), click [Continue](#) .



1.4 Fill in the [Description](#), Select [Explicit](#) for [Bundle ID](#), and input your App Bundle ID.

Apple Developer

## Certificates, Identifiers & Profiles

[All Identifiers](#)

### Register an App ID

[Back](#) [Continue](#)

<p>Platform iOS, macOS, tvOS, watchOS</p> <p>Description TuyaSmart</p> <p><small>You cannot use special characters such as @, &amp;, *, ' , "</small></p>	<p>App ID Prefix 94JFPTRDN5 (Team ID)</p> <p>Bundle ID <input checked="" type="radio"/> Explicit <input type="radio"/> Wildcard com.tuya.smart</p> <p><small>We recommend using a reverse-domain name style string (i.e., com.domainname.appname). It cannot contain an asterisk (*).</small></p>
---	---

### Capabilities

ENABLED	NAME
<input type="checkbox"/>	Access WiFi Information ⓘ
<input type="checkbox"/>	App Groups ⓘ
<input type="checkbox"/>	Apple Pay Payment Processing ⓘ

1.5 Select the following options in [Capabilities](#) list:

- Access WiFi Information
- Associated Domains
- Push Notifications
- Sign In with Apple, Enable as a primary App ID (optional)

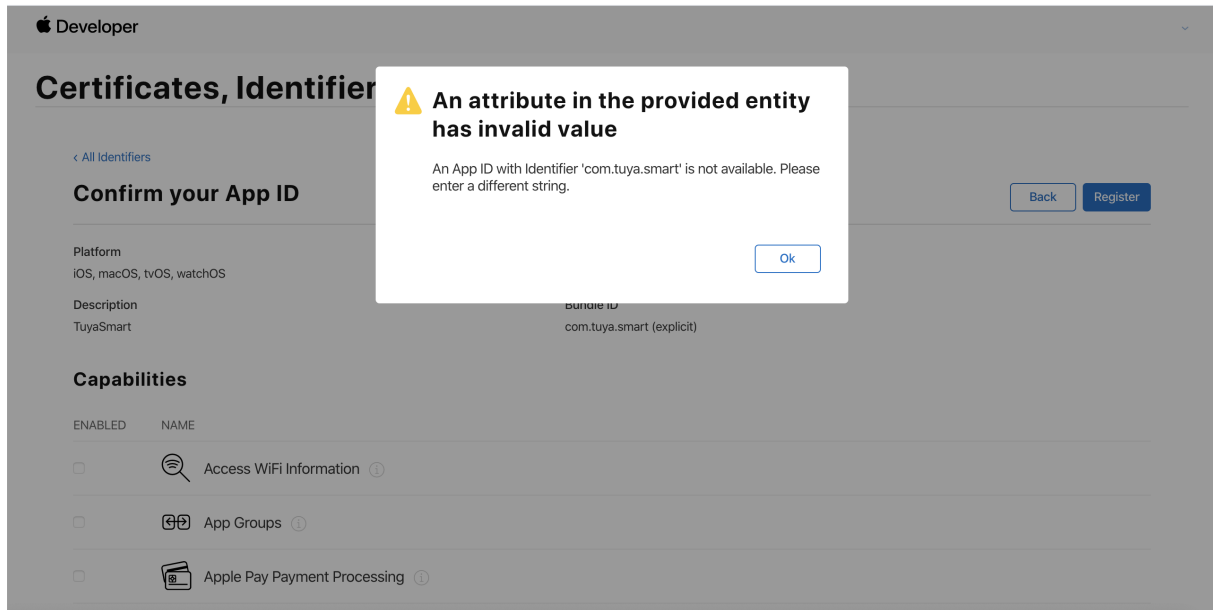
### Capabilities

ENABLED	NAME
<input checked="" type="checkbox"/>	Access WiFi Information ⓘ
<input checked="" type="checkbox"/>	Push Notifications ⓘ
<input checked="" type="checkbox"/>	Sign In with Apple ⓘ <a href="#">Edit</a> <span>Enable as a primary App ID</span>

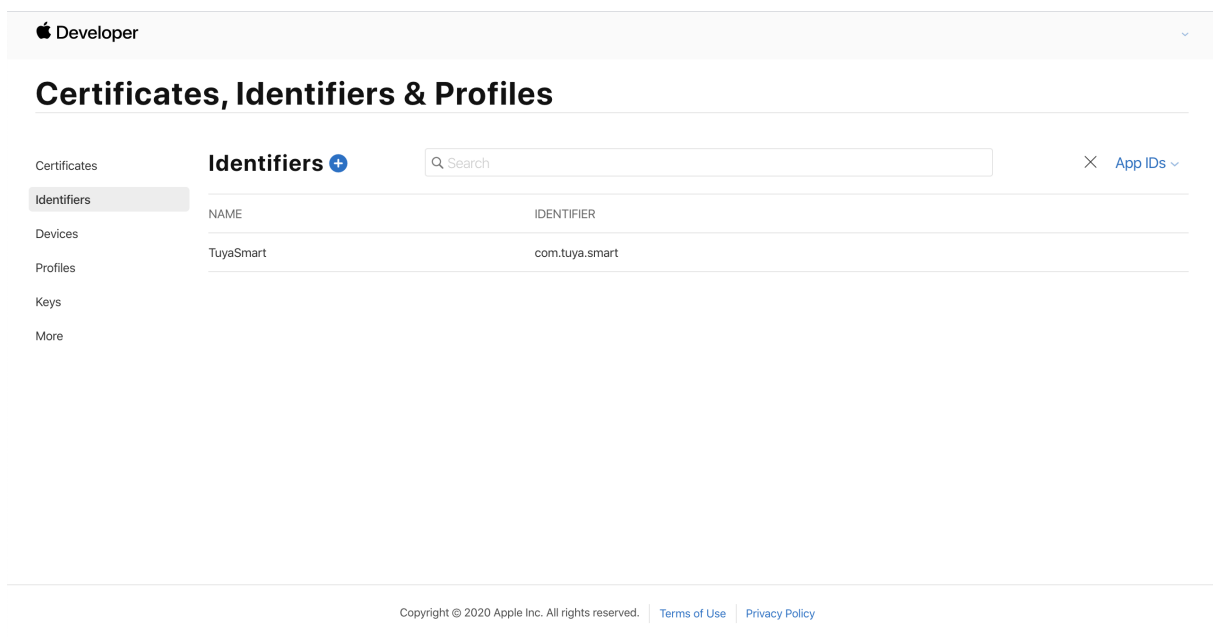
Attention: 1. According to the new AppStore review guideline, starting from v3.15, if your App opened the third-party login function (such as wechat/qq/facebook/twitter), "Sign In with Apple" is required. 2. Since v3.15, because of the third-party SDK update, [Associated Domains](#) is required to build the App. 3. If your App include additional service, other capabilities should be opened.

1.6 Click [Continue](#) , and click [Register](#) .

If failed with "An App ID with Identifier 'com.xxx.xxx' is not available. Please enter a different string." , please go back and change a Bundle ID.



If no error, please proceed to the next step.



### 3.2 2. Create a CSR file (.certSigningRequest format)

2.1 Open [Keychain Access App](#) in macOS, click [Keychain Access](#) -> [Certificate Assistant](#) -> [Request a Certificate From a Certificate Authority...](#) :



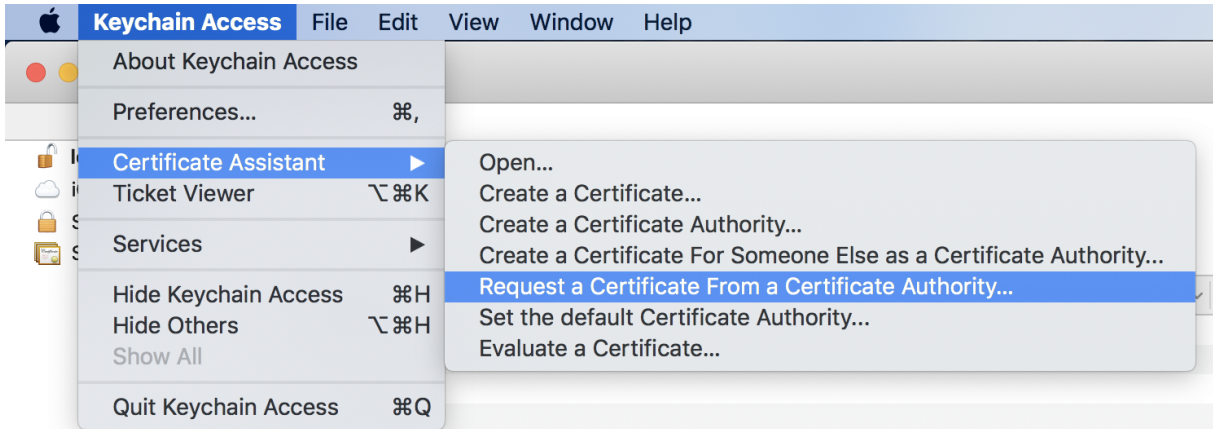


Figure 2: image.png

2.2 Input your email, name, select *Saved to disk* , and click *Continue* .

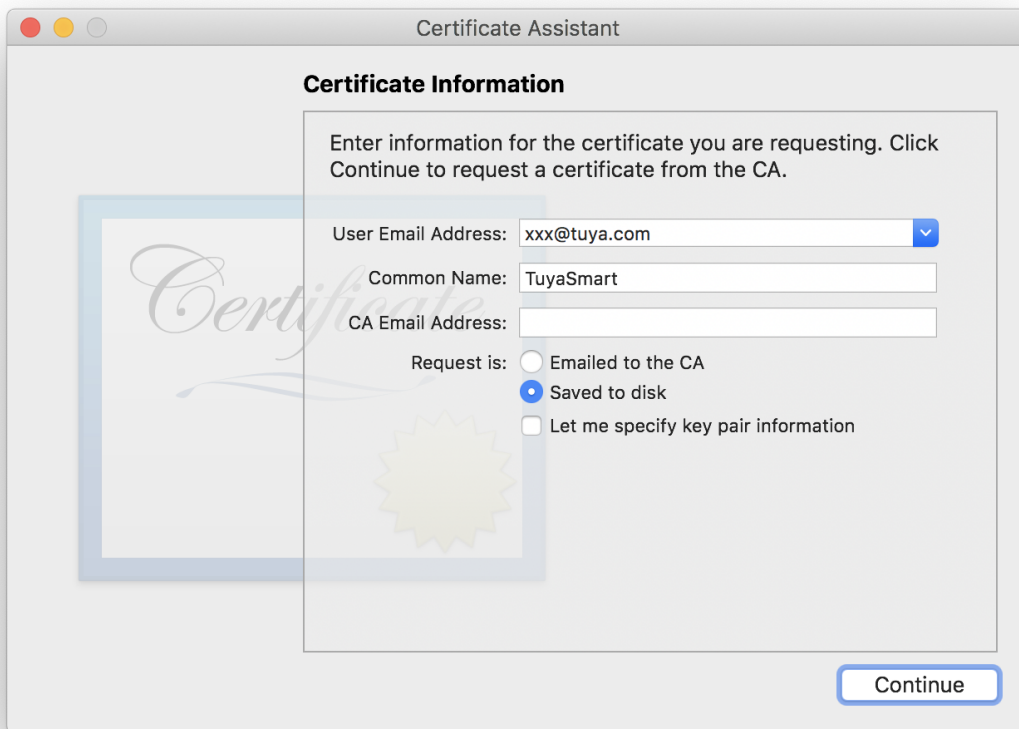


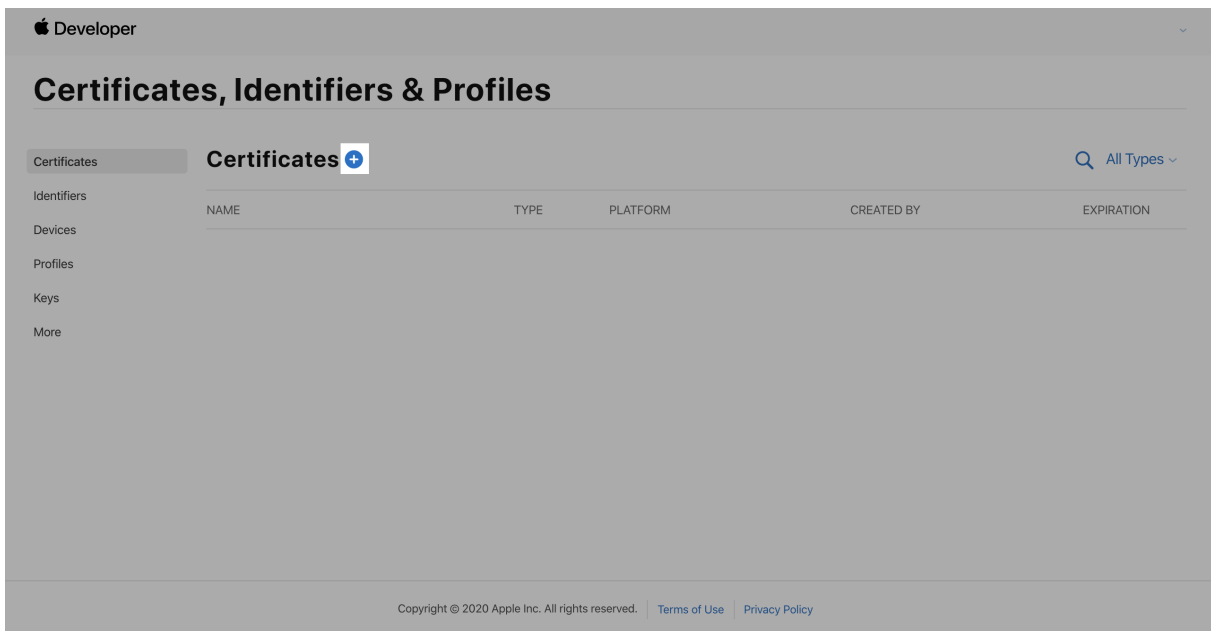
Figure 3: image.png

2.3 Save `CertificateSigningRequest.certSigningRequest` to local disk, done.

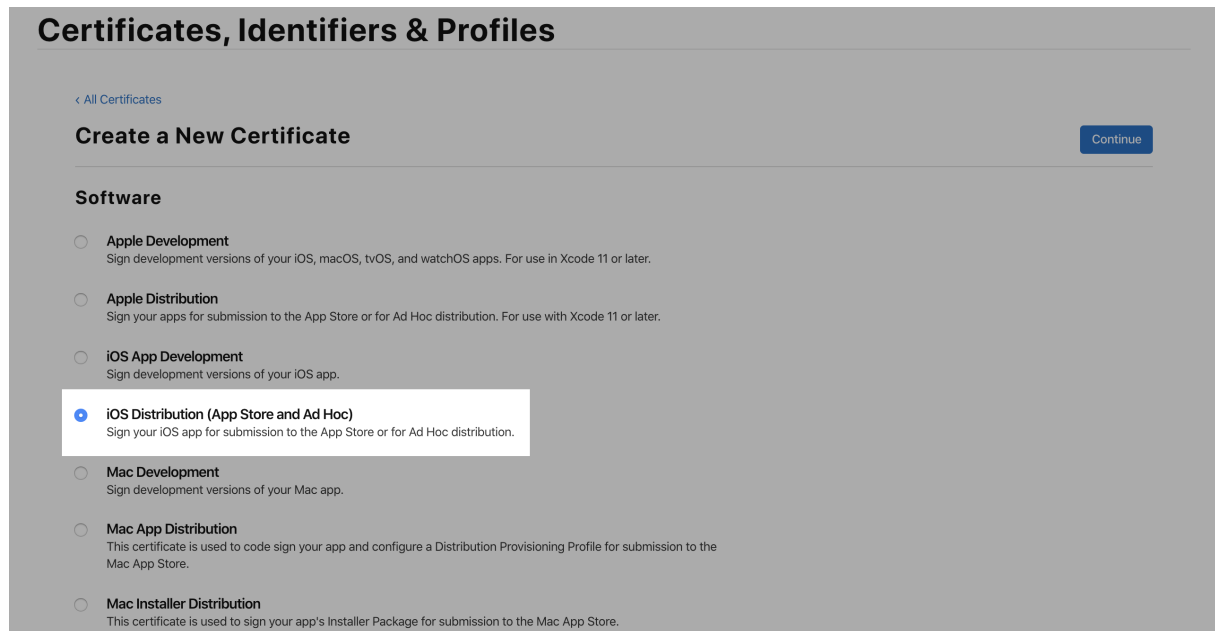
### 3.3 3. Create App Distribution certificate(.p12 format)

If your account has multiple Apps, you can use the same app distribution certificate. Create multiple distribution certificates will cause some troubles.

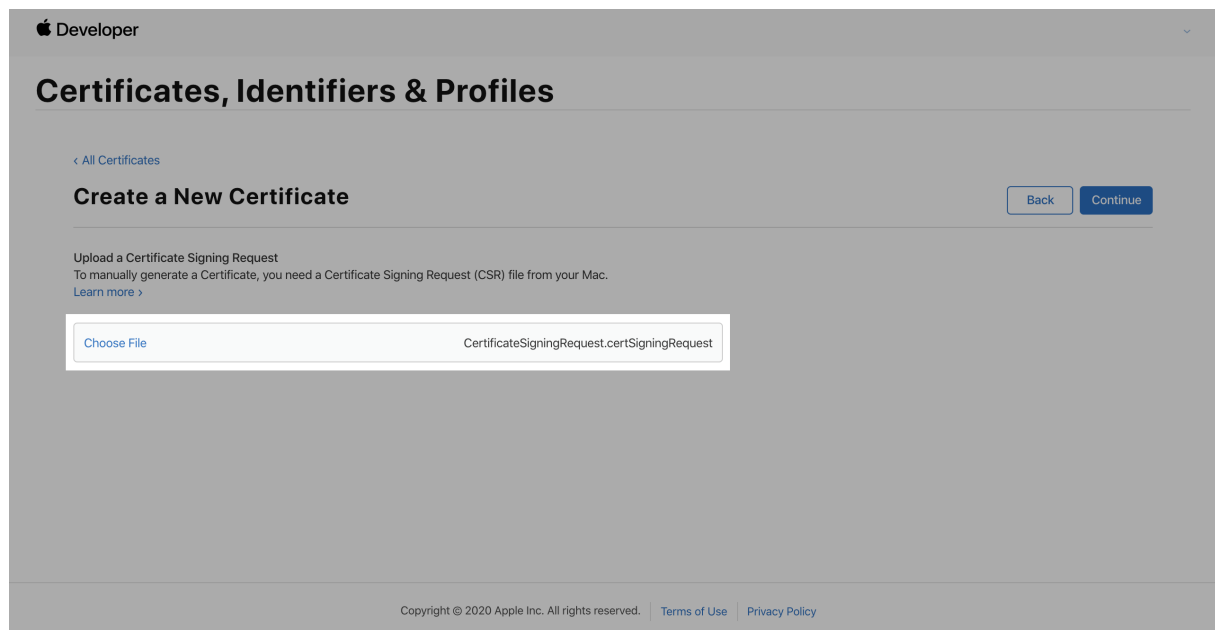
3.1 Open `Certificates, Identifiers & Profile` page, select `Certificates`, click+ .



3.2 Select `iOS Distribution (App Store and Ad Hoc)`, click `Continue` .

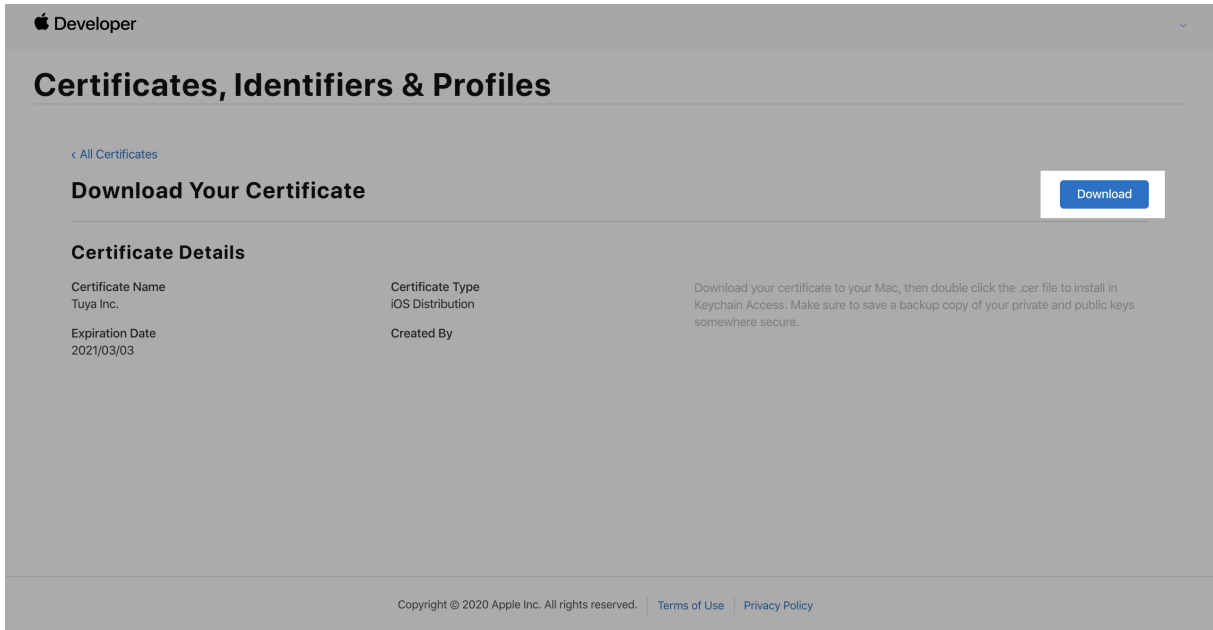


3.3 Click [Choose File...](#) , select the csr file created before, click [Continue](#) .



3.4 Click [Download](#), download `ios_distribution.cer` file to local, double click file to import it to the keychain.

Attention: `.cer` file needs to import to the keychain, then export to `.p12` file, please continue the steps.



3.5 Open [Keychain Access](#) App, Select [My Certificates](#), and find the certificate you imported. Right click to export.

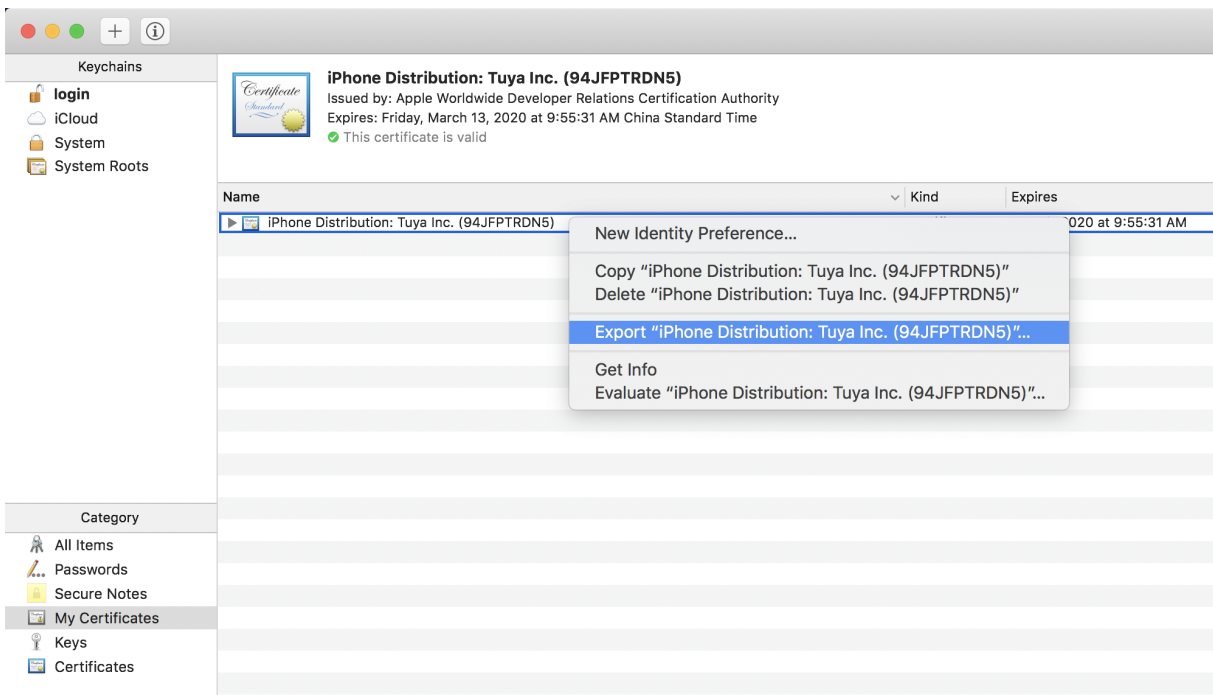
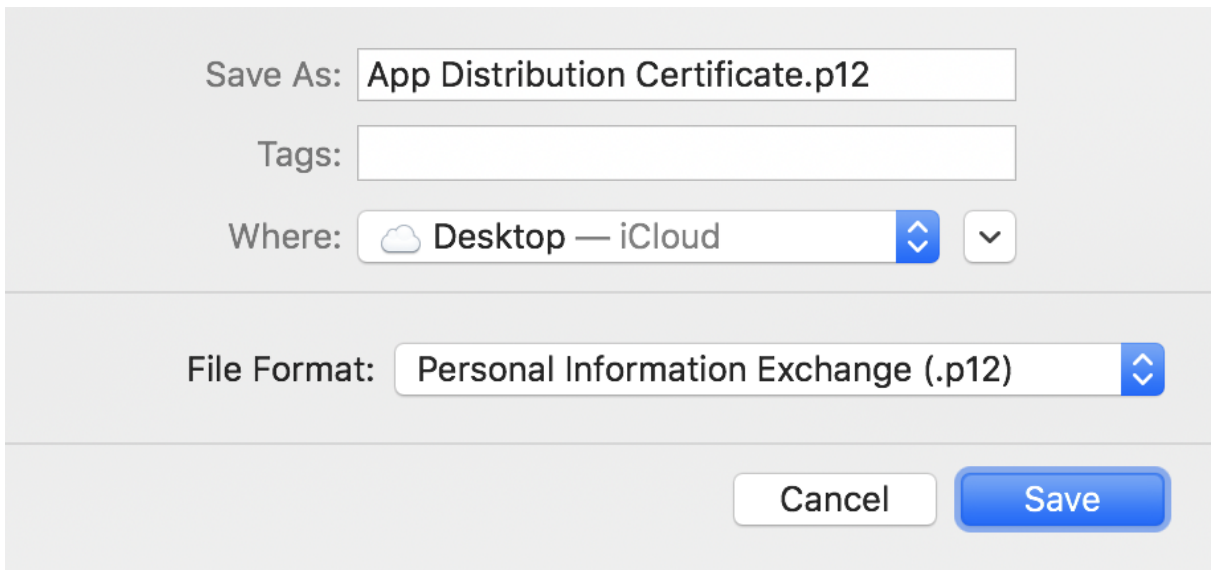


Figure 4: image.png

3.6 Save as "App Distribution Certificate.p12", file format: .p12, then click "Save".



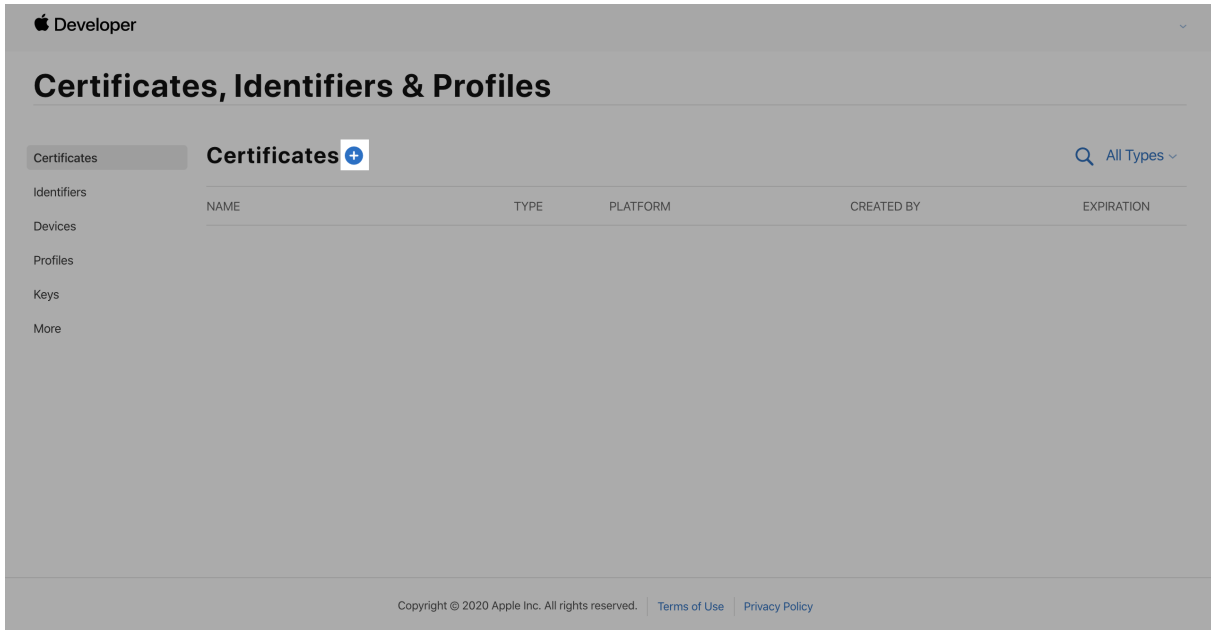
**Figure 5:** image.png

3.7 Set a password for your App Distribution Certificate and not forget it. Click “OK”, done.

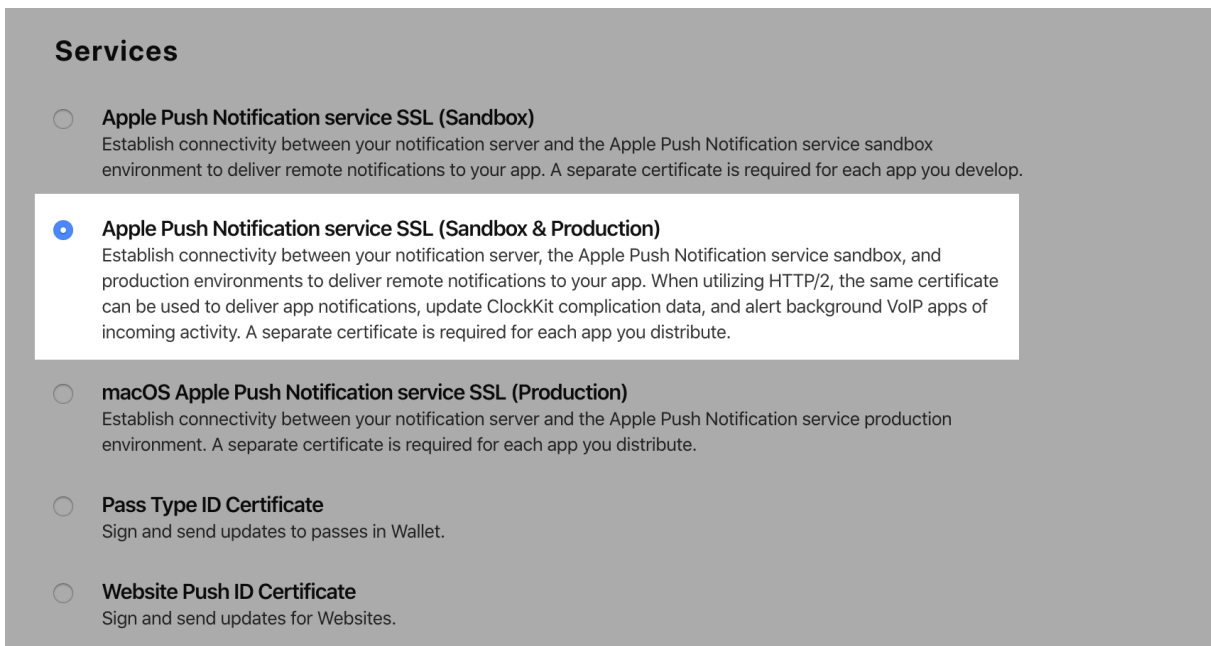
#### 3.4 4. Create App Push Certificate (.p12 format)

Different to the distribution certificate, if your account has multiple Apps, please create push certificate for every App.

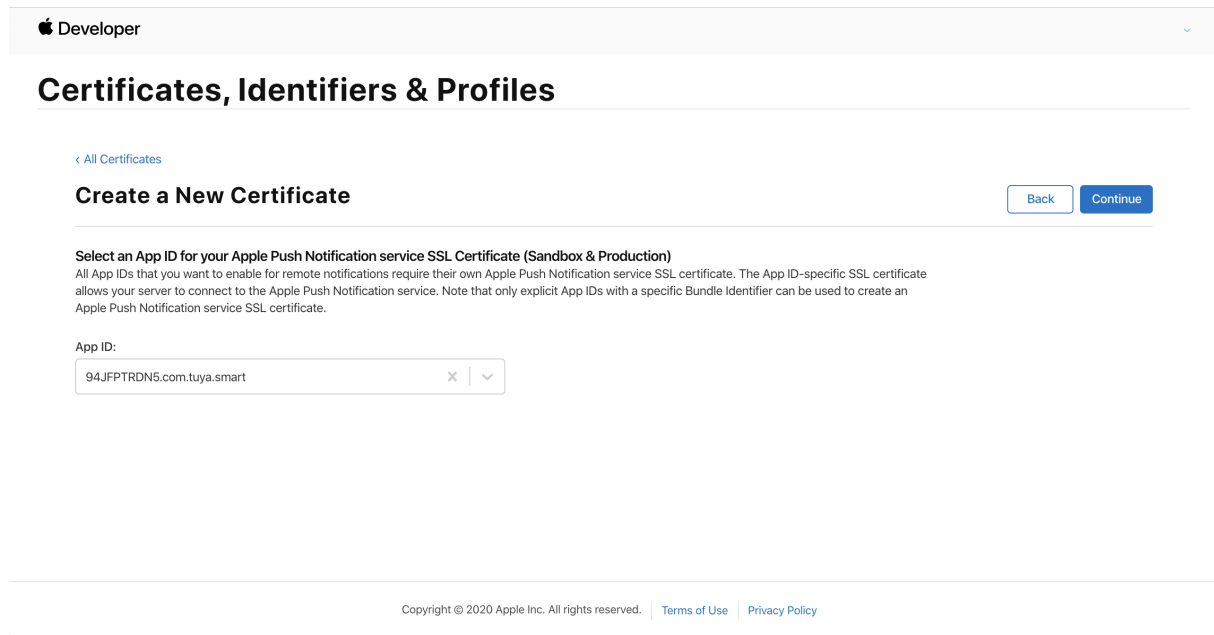
4.1 Open [Certificates](#), [Identifiers](#) & [Profile](#) page, select [Certificates](#), click+ .



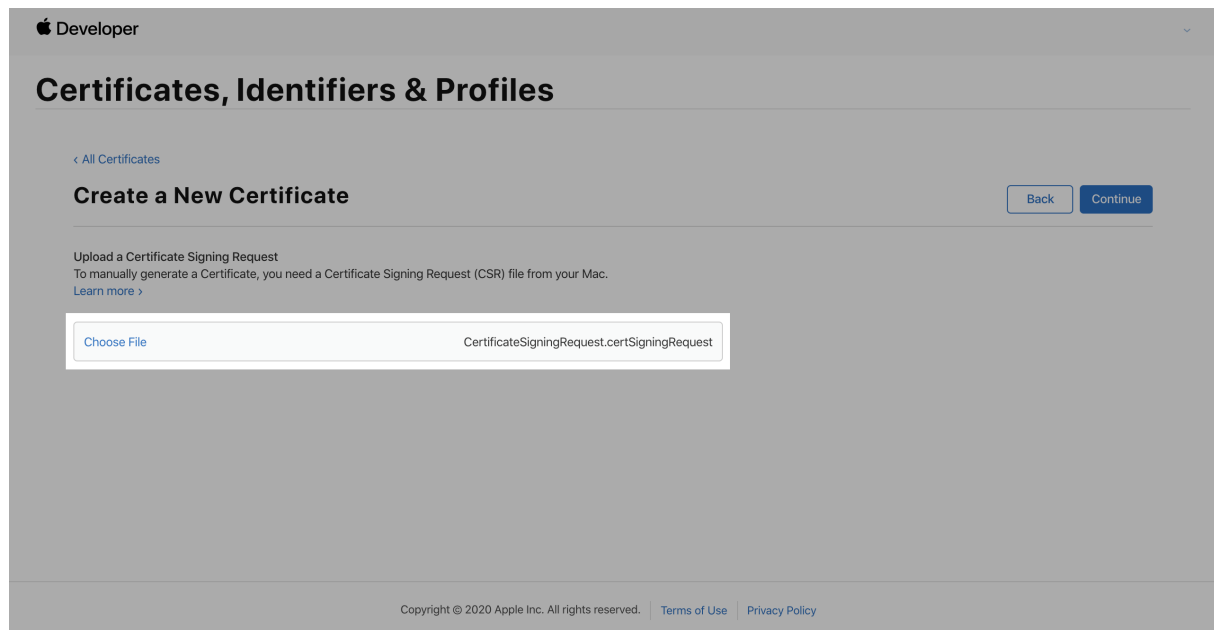
4.2 Select [Apple Push Notification service SSL \(Sandbox & Production\)](#) , and continue.



4.3 Choose your App ID (Bundle ID), and continue.

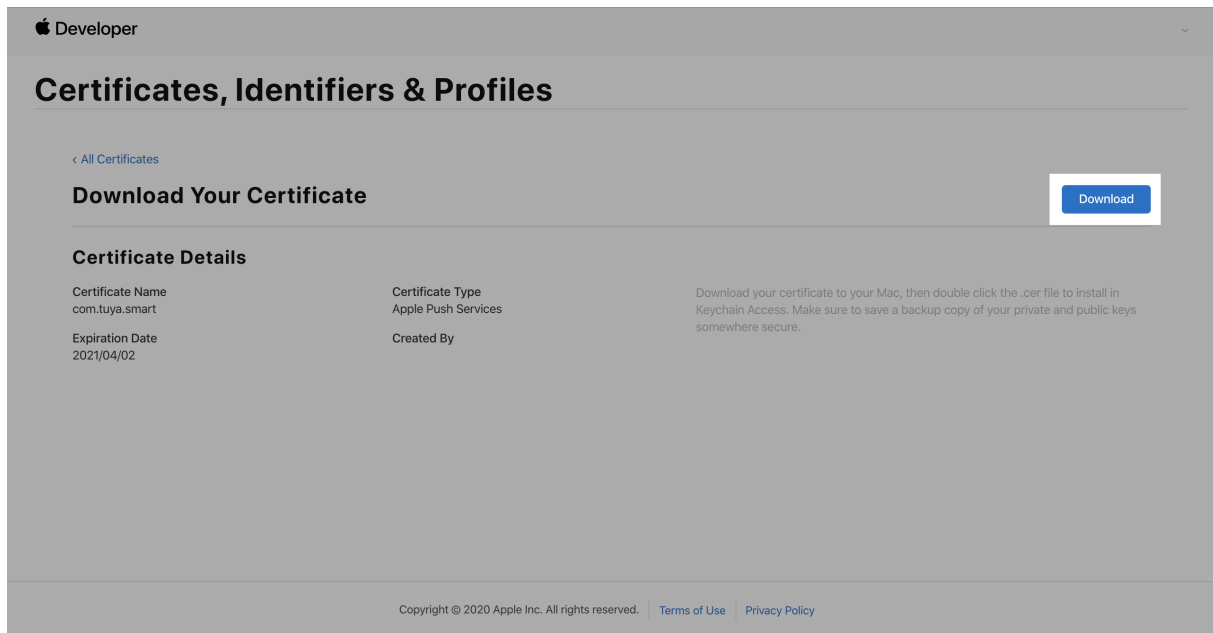


4.4 Click [Choose File...](#) , select the csr file created before, click [Continue](#) .

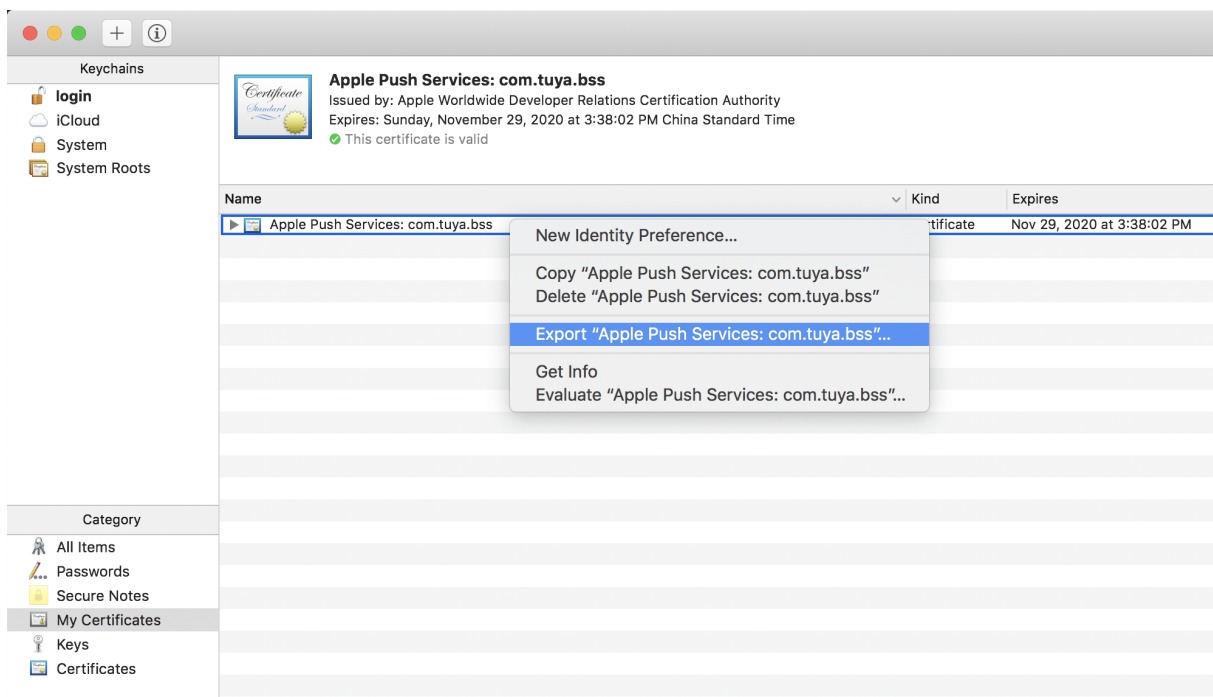


4.5 Click [Download](#), download `aps.cer` file to local, double click file to import it to the keychain.

Attention: `.cer` file needs to import to the keychain, then export to `.p12` file, please continue the steps.



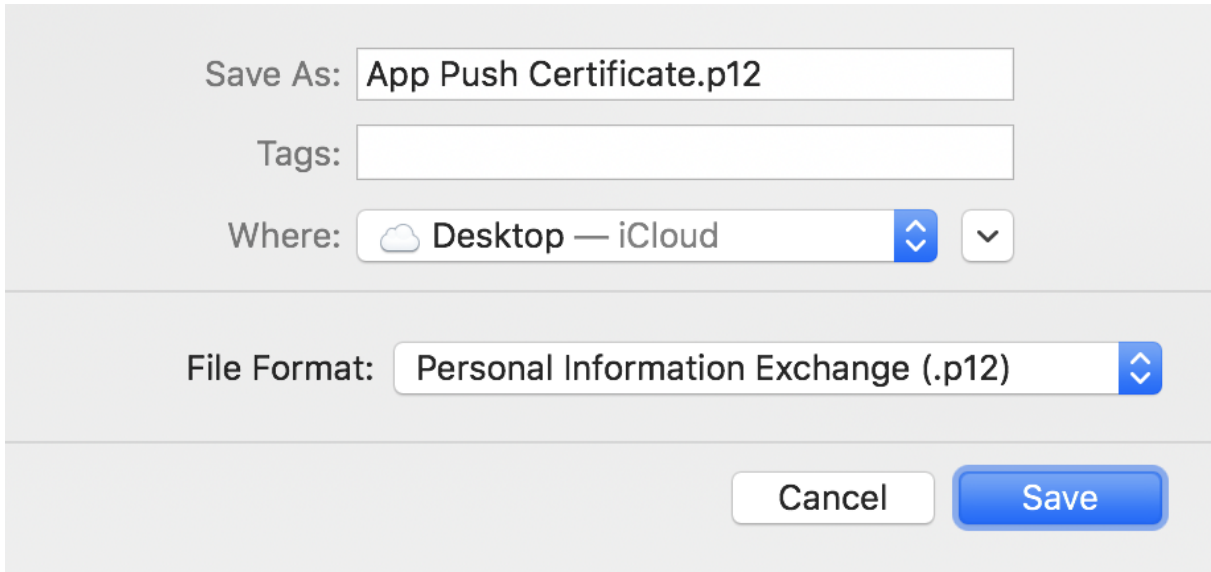
4.6 Open [Keychain Access App](#), Select [My Certificates](#), and find the certificate you imported. Right click to export.



**Figure 6:** image.png

4.7 Save as "App Push Certificate.p12", file format: .p12, then click "Save".



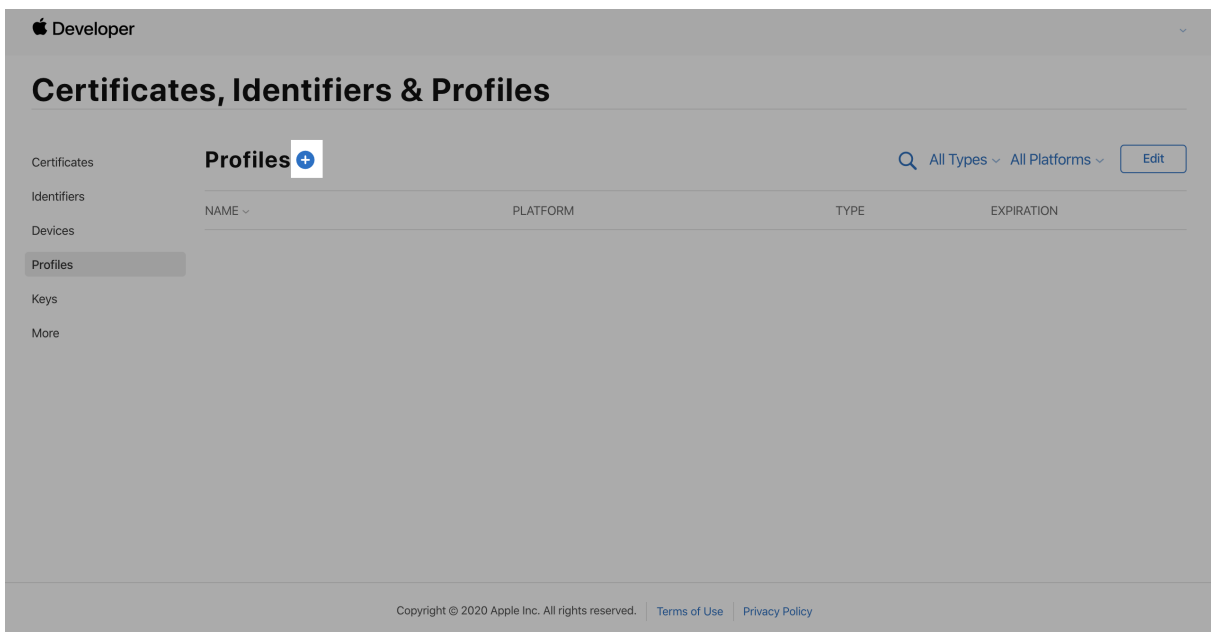


**Figure 7:** image.png

4.8 Set a password for your App Push Certificate and not forget it. Click “OK”, done.

### 3.5 5. Create Profile (.mobileprovision format)

5.1 Open [Certificates](#), [Identifiers](#) & [Profile](#), select [Profiles](#), then click + button.



5.2 Select [App Store](#) and continue.

### Distribution

- Ad Hoc**  
Create a distribution provisioning profile to install your app on a limited number of registered devices.
- tvOS Ad Hoc**  
Create a distribution provisioning profile to install your app on a limited number of registered tvOS devices.
- App Store**  
Create a distribution provisioning profile to submit your app to the App Store.
- tvOS App Store**  
Create a distribution provisioning profile to submit your tvOS app to the App Store.
- Mac App Store**  
Create a distribution provisioning profile to submit your app to the Mac App Store.
- Developer ID**  
Create a Developer ID provisioning profile to use Apple services with your Developer ID signed applications.

### 5.3 Select App ID (Bundle ID) and continue.

Apple Developer

## Certificates, Identifiers & Profiles

[All Profiles](#)

### Generate a Provisioning Profile

[Back](#) [Continue](#)

Select Type > Configure > Generate > Download

Select an App ID  
If you plan to use services such as Game Center, In-App Purchase, and Push Notifications, or want a Bundle ID unique to a single app, use an explicit App ID. If you want to create one provisioning profile for multiple apps or don't need a specific Bundle ID, select a wildcard App ID. Wildcard App IDs use an asterisk (\*) as the last digit in the Bundle ID field.

App ID:  
TuyaSmart (94JFPTRDN5.com.tuya.smart) x | v

Copyright © 2020 Apple Inc. All rights reserved. [Terms of Use](#) | [Privacy Policy](#)

### 5.4 Select the distribution certificate you created before, and continue.

Attention: If there's multiple certificates and you don't know how to choose, please go back to the certificates page, remove the unnecessary certificate and redo this step. If you select the wrong certificate, App build might fail.

Apple Developer

## Certificates, Identifiers & Profiles

[All Profiles](#)

### Generate a Provisioning Profile

[Back](#) [Continue](#)

Select Type > Configure > Generate > Download

**Select Certificates**  
Select the certificates you wish to include in this provisioning profile. To use this profile to install an app, the certificate the app was signed with must be included.

- Tuya Inc. (iOS Distribution) Mar 12, 2020

Copyright © 2020 Apple Inc. All rights reserved. [Terms of Use](#) [Privacy Policy](#)

5.5 Input a provisioning profile name, then generate.

Apple Developer

## Certificates, Identifiers & Profiles

[All Profiles](#)

### Generate a Provisioning Profile

[Back](#) [Generate](#)

Select Type > Configure > Generate > Download

**Review, Name and Generate.**  
The name you provide will be used to identify the profile in the portal.

Provisioning Profile Name

Type  
App Store

App ID  
-

Certificates  
1 Selected

Copyright © 2020 Apple Inc. All rights reserved. [Terms of Use](#) [Privacy Policy](#)

5.6 Download the profile, done.

Apple Developer

## Certificates, Identifiers & Profiles

[All Profiles](#)

### Generate a Provisioning Profile Download

#### Download and Install

Download and double click the following file to install your Provisioning Profile.

Name: TuyaSmart  
 Type: App Store  
 App ID: -  
 Expires: 2020/03/13

Copyright © 2020 Apple Inc. All rights reserved. [Terms of Use](#) [Privacy Policy](#)

### 3.6 6. Upload certificates, profile to Tuya IoT Platform.

#### 6.1 Open [Tuya IoT Platform](#), click your App.

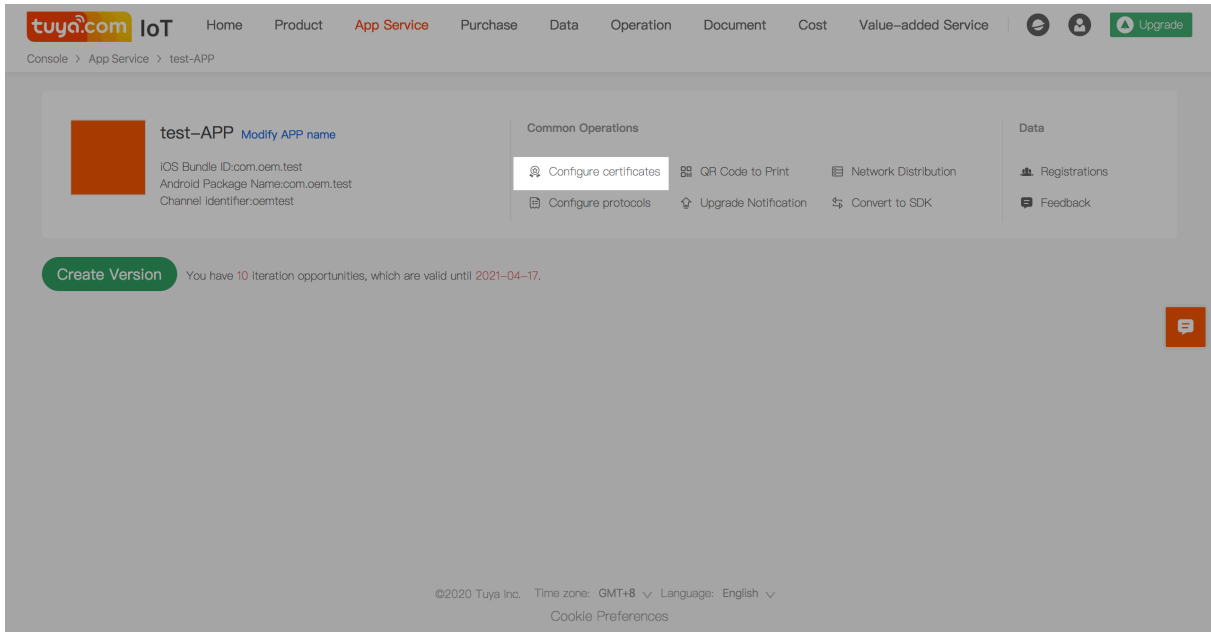
The screenshot shows the Tuya IoT Platform dashboard. At the top, there is a navigation bar with the Tuya logo and menu items: Home, Product, App Service, Purchase, Data, Operation, Document, Cost, Value-added Service, and an Upgrade button. Below the navigation bar, the dashboard is divided into several sections:

- App Service:** Provides one-stop OEM app creation and management services. It includes a "Test App" card with "Development mode: OEM" and a "Go to App Service" link.
- Purchasing center:** Provides complete hardware and software solution debugged, assembled in massive production, based on our strong supply chain eco-system. It includes a "Go to Purchasing center" link.
- Order Reminder:** A table showing the status of orders:
 

Order Reminder	Pending order	Pending contract	Pending delivery
	0	0	0
- Financial Statement:** A table showing account balances and vouchers:
 

Financial Statement	Account Balance	Coupons	Cash Vouchers
	¥0.00	0	0
- Your dedicated service team:** The account manager, project manager, and technical experts will answer all the questions you have while using platform. It includes a "Submit Question" button and a "Go to Technical Support" link.
- Tuya Smart Marketplace:** Start selling your products globally with advanced Tuya's tools and services. It includes a "Get Started" link.
- Value-added Service:** Provides professional value-added services to your products, including app services, smart speaker services, certification services, functional extension services. It includes a "Go to Value-added Service" link.

#### 6.2 Click [Set up certificates](#).



## 6.3 Upload your App distribution certificates, password, mobileprovision, and save.

### iOS App Certificate

The iOS App certificate is the document that requires a signature for the App to be released on the App Store. You must apply for this certificate with a developer account on the Apple Developer website [Click to view help documentation](#)

#### Configure certificates

Mobileprovision certificate:

p12 certificate:

Certificate password:

Save

Figure 8: image.png

## iOS Push (APNS)

APNS is the abbreviation of Push Service for iOS App. Update push certificate without rebuilding the app. [Click to view help documentation](#)

---

### Configure certificates

Certificate file(.p12)-Production:

Certificate password:

Save

**Figure 9:** image.png

## 4 Attention

1. The push certificate is valid for 1 year. If it expires, the App push will be invalid.
2. The developer account needs to renew each year, if not renewed in time, the App will be removed from application market
3. Starting from April 2020, All App use third-party login function are required to use Sign in with Apple. See [New Guidelines for Sign in with Apple](#)
4. Since v3.15, because of the third-party SDK update, `Associated Domains` is required to build the App.