
apns py Documentation

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1.1 Quick Install

Use `pip` to install

```
$ pip install apnsPY
```

(Optional) create a virtual environment and use `pip` to install

```
$ virtualenv venv  
$ source venv/bin/activate  
$ pip install apnsPY
```


2.1 Generate a config file

Make a new file to config the connection

```
touch config.json
```

Put the information in the config.json file as follow.

- update team_id
- update app_id
- update apns_key_id
- update key_file file

```
{  
  // sandbox=true, use Development server: api.development.push.apple.com:443  
  // sandbox=false, use Production server: api.push.apple.com:443  
  "sandbox": true,  
  // Team ID is in your Apple Developer Account. Check the membership details page.  
  "team_id": "YOUR_TEAM_ID",  
  // App ID is the iOS app id  
  "app_id": "com.your.app",  
  // Key ID is "generated by Certificates, Identifiers & Profiles" (Keys)  
  "apns_key_id": "YOUR_KEY_ID",  
  // Key file is the .p8 file. After generating the Key ID, please download its .p8  
  ↪file.  
  "key_file": "YOUR_KEY_FILE.p8"  
}
```

2.2 Sample code

- Basic sample usage.

```
from apns Spy import APNs
import json

apns = APNs(config_file="config.json")

# example
# PUSH_ID = 'B6CDF836813D0D6A1F3356E409A1C82D7CF849AE682034B9BAE01D7ABDABC111'
PUSH_ID = 'CLIENT_DEVICE_TOKEN'

# payload example from Local and Remote Notification Programming Guide
# https://developer.apple.com/library/archive/documentation/NetworkingInternet/
# ↪ Conceptual/RemoteNotificationsPG/CreatingtheNotificationPayload.html#//apple_ref/
# ↪ doc/uid/TP40008194-CH10-SW1
payload = {
    "aps" : {
        "alert" : {
            "title" : "Game Request",
            "body" : "Bob wants to play poker",
            "action-loc-key" : "PLAY"
        },
        "badge" : 5
    },
    "acme1" : "bar",
    "acme2" : [ "bang", "whiz" ]
}

def callback(response, device_token):
    """
    callback function provide two parameters response and device_token
    response is a hyper.HTTP20Response (https://hyper.readthedocs.io/en/latest/api.html
    ↪ #hyper.HTTP20Response) object
    device_token is PUSH_ID
    """
    print(response.status)
    print(device_token)
    json_string = response.read()
    json_dict = json.loads(json_string)
    print(json_dict)

apns.send(payload=payload, callback_func=callback, device_token=PUSH_ID)
```

- Alternative sample usage

```
from apns Spy import APNs
apns = APNs(config_file="config.json")
PUSH_ID = 'CLIENT_DEVICE_TOKEN'

def callback(response, device_token):
    print(response.status)
    print(device_token)

# All parameters are optional !!!!! Except "device_token"
apns.send(message='This is a test', # notification content shows on iPhone
```

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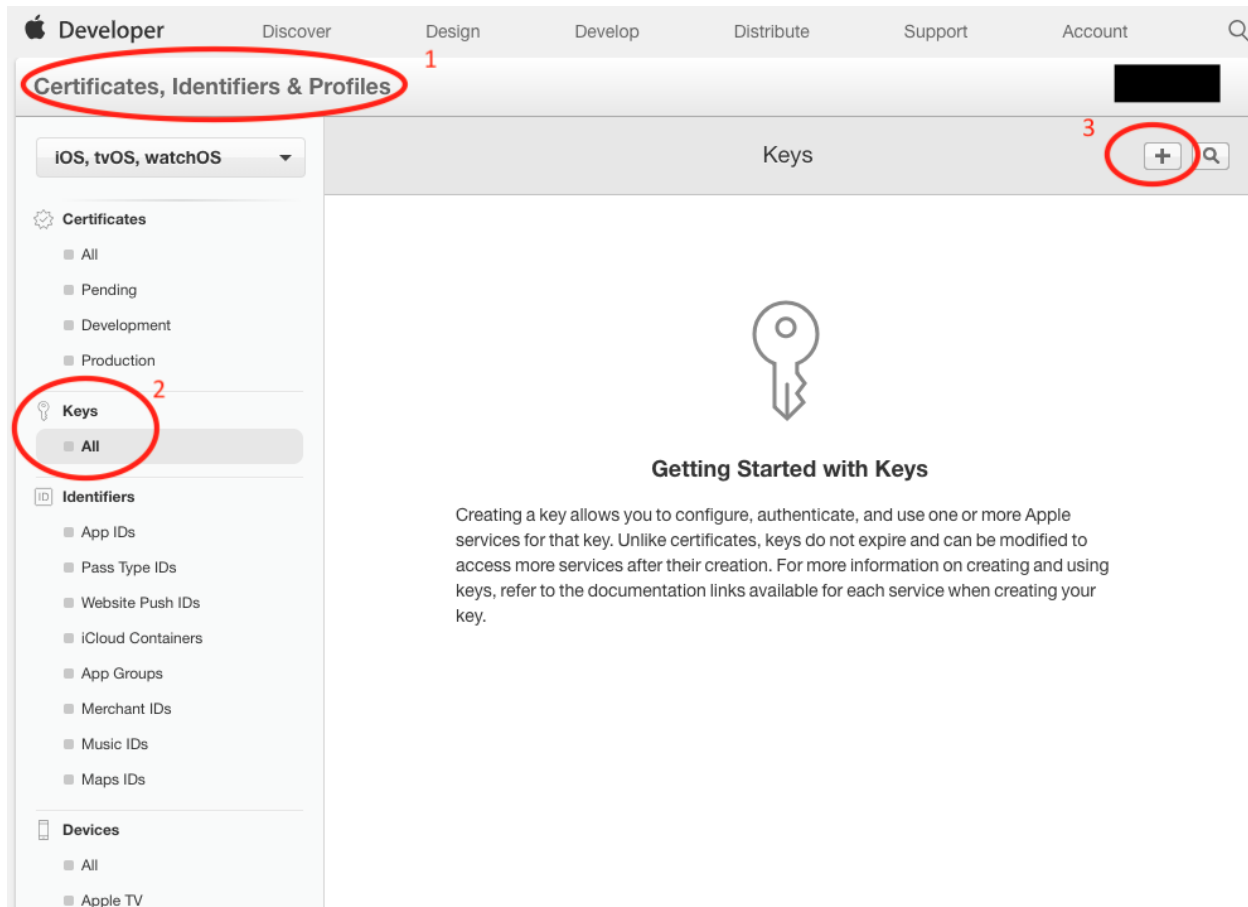
```
    sound='default',          # plays a notification sound
    badges=1,                 # show badge number on the app's icon
    device_token=PUSH_ID,     # device token (Required)
    content_available=False,  # if True, device can run background update
    mutable_content=False,    # if True, device can run notification extension_
↪ service
    callback_func=callback    # get response from APNs
    )
```

Setup Token-based APNs (Apple Push Notification service)

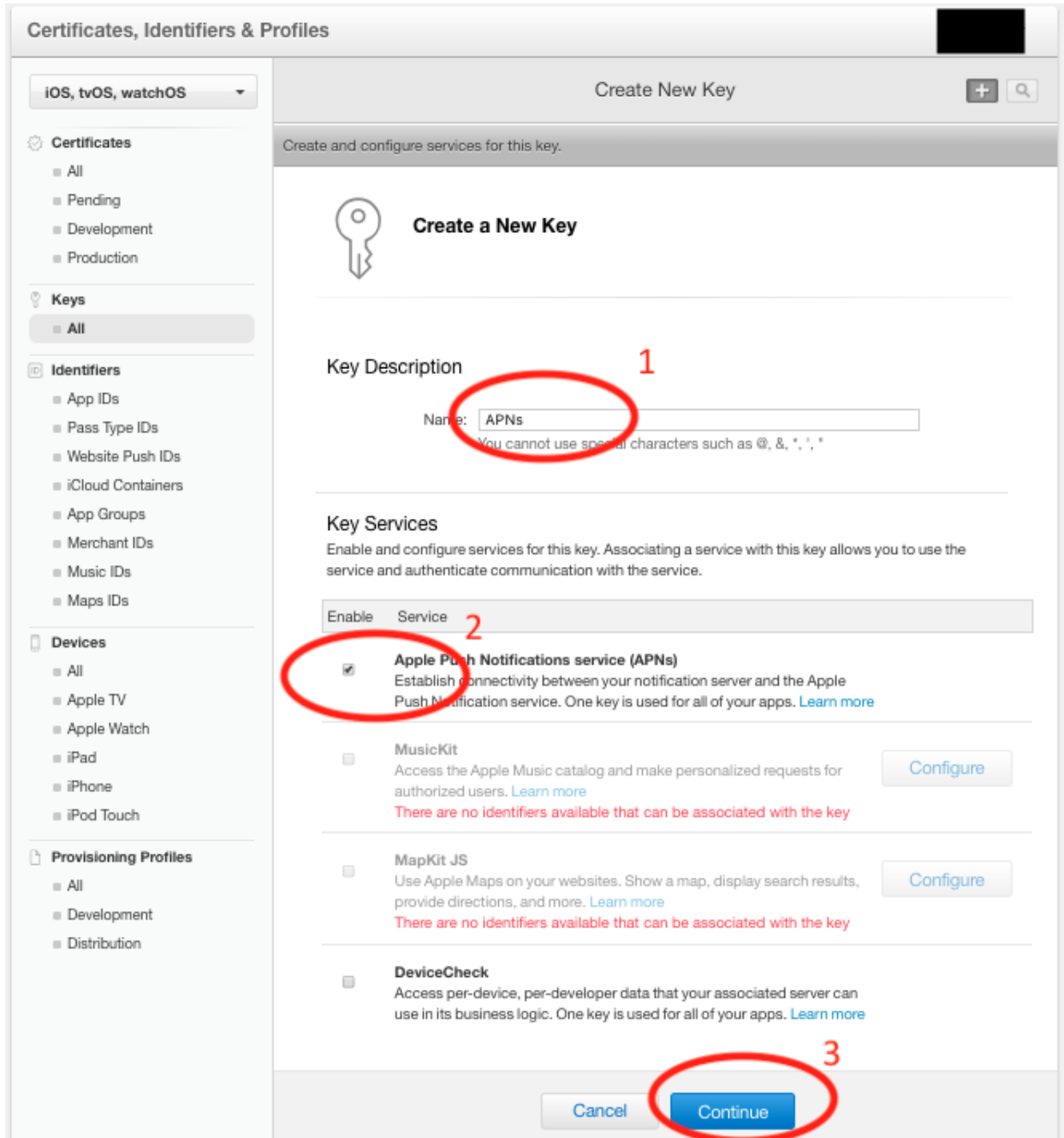
This setup is for Token-based provider connection trust based on [Apple document](#).

login your apple developer account

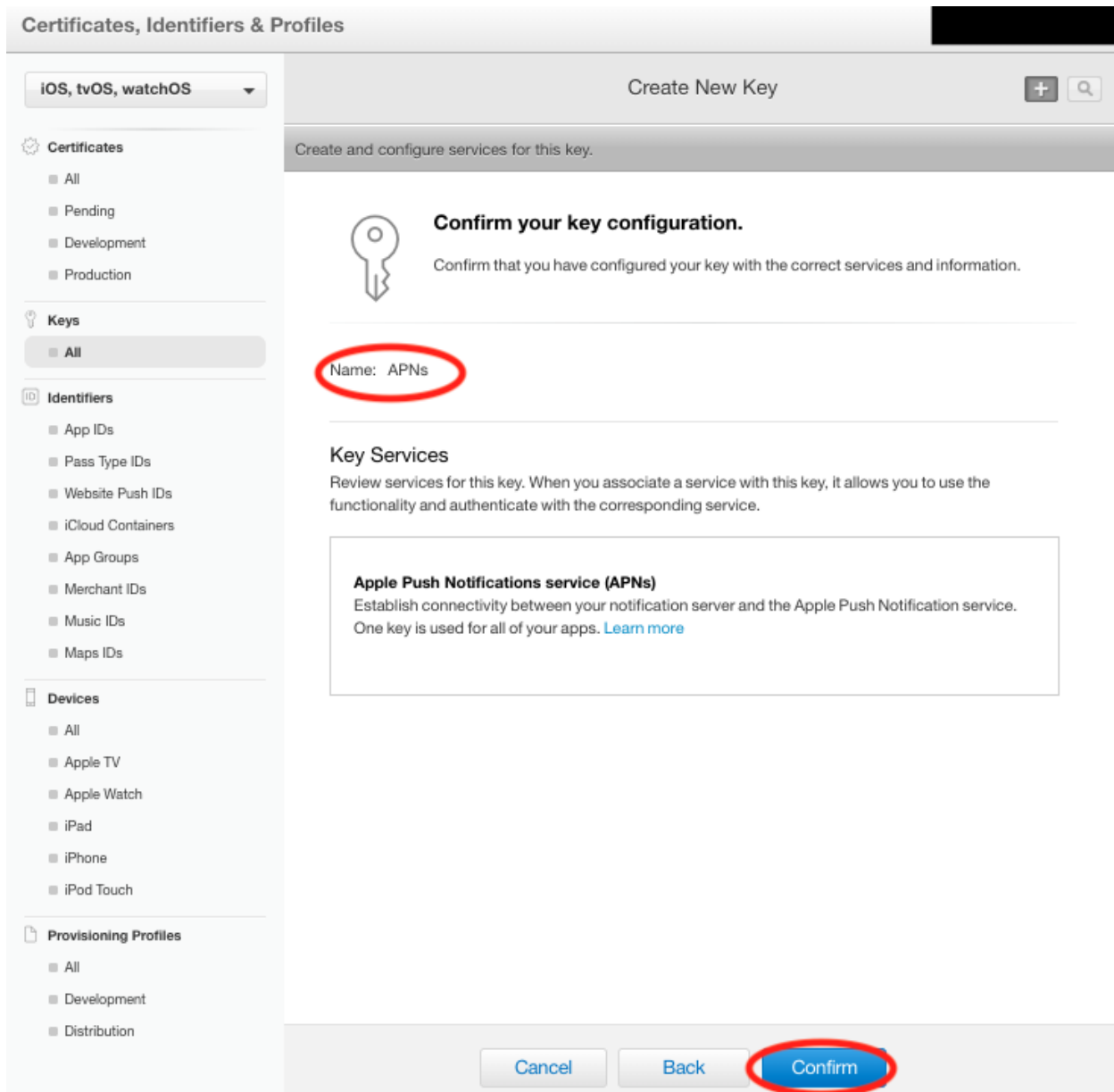
- Go to **Certificates, Identifiers & Profiles**
- Click **Keys**
- Click + button



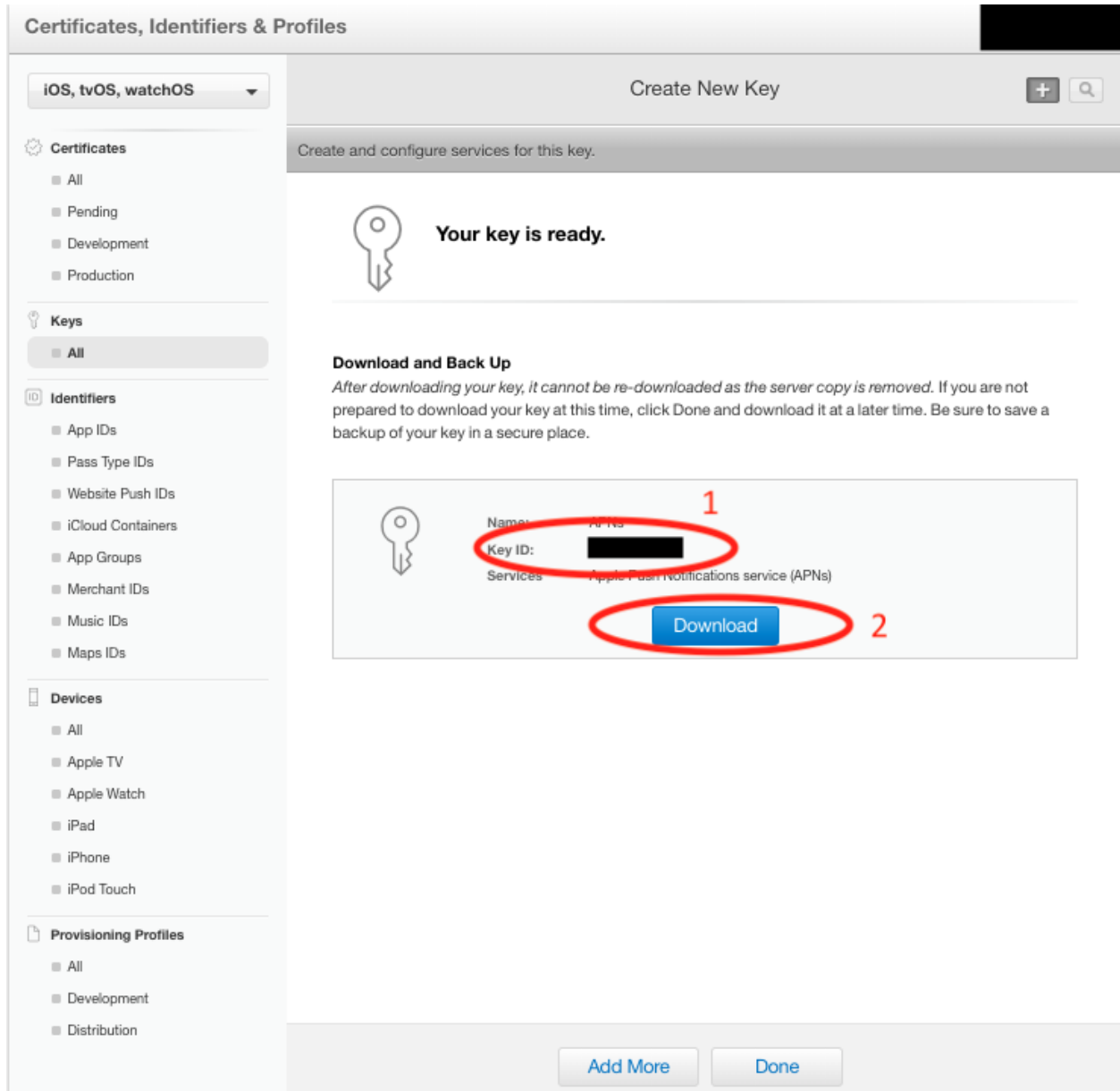
- Enter **Name**
- Check **Appl Push Notification service**
- Click **Continue** button



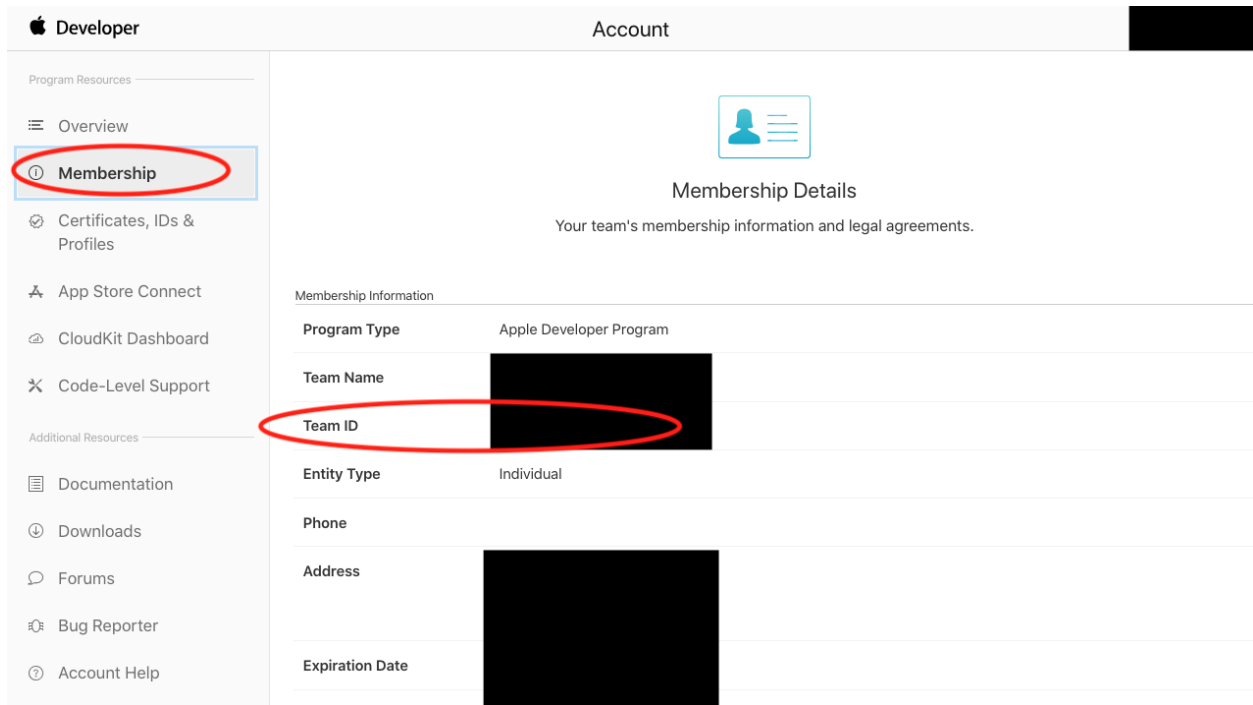
- Click **Confirm** button



- Record your **Key ID**. It will be need for config.json file later.
- Click **Download** button. The .p8 file will be used for config.json file later.



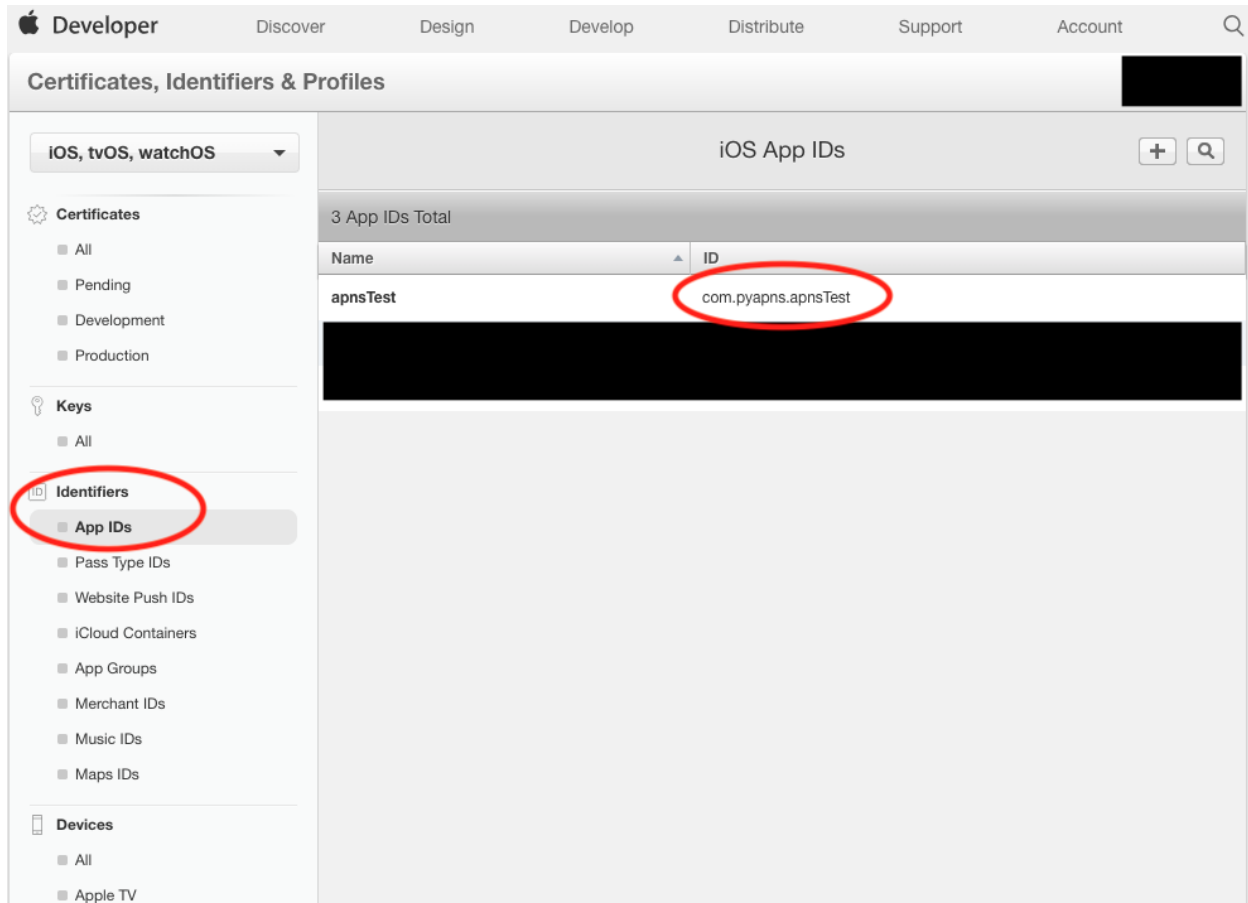
- Go to **Account**
- Select **Membership**
- Record your **Team ID**. It will be need for config.json file later.



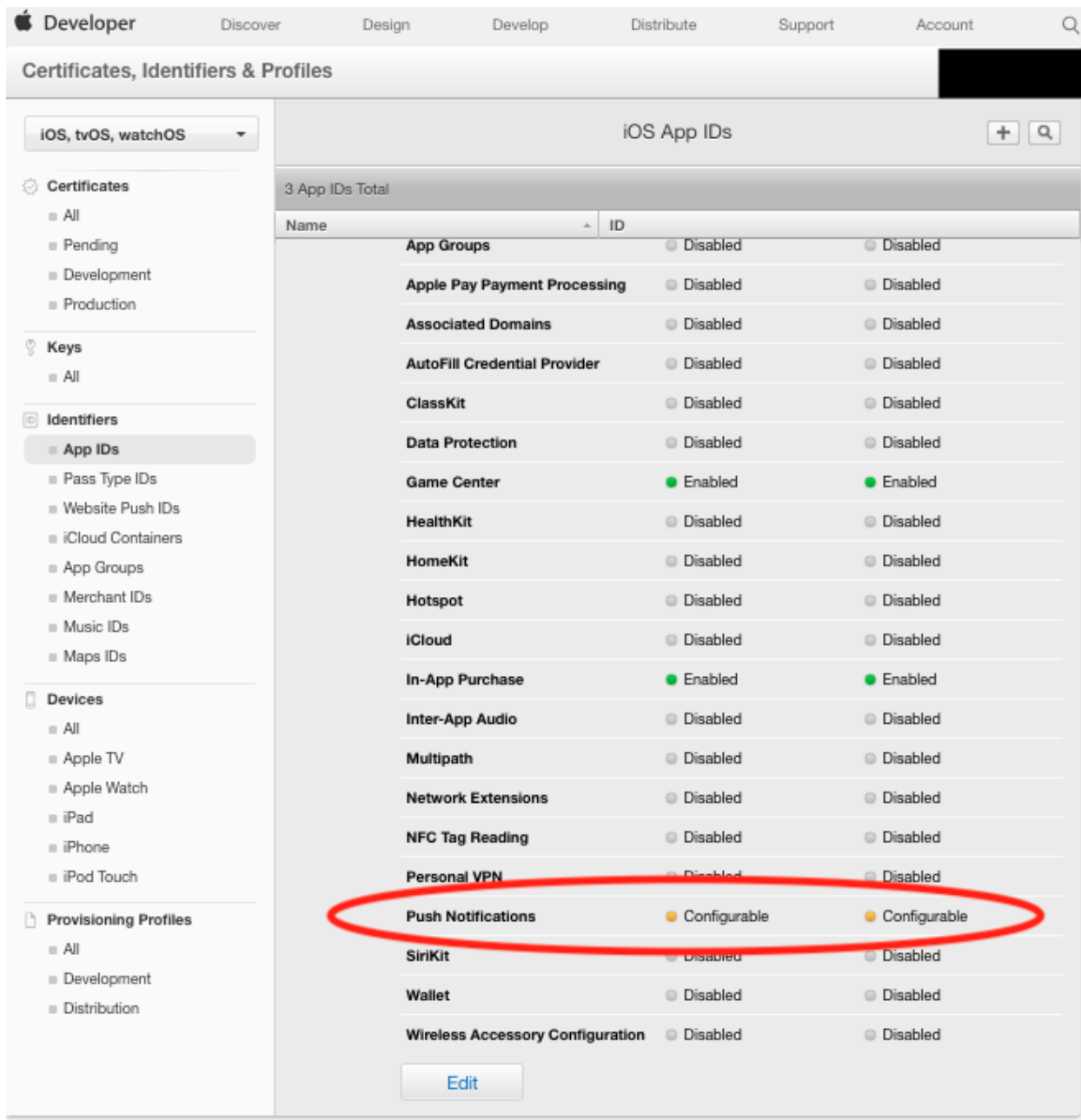
The screenshot shows the Apple Developer Account page. The left sidebar has a 'Membership' link circled in red. The main content area is titled 'Membership Details' and shows a table of membership information. The 'Team ID' field in the table is circled in red.

Membership Information	
Program Type	Apple Developer Program
Team Name	[Redacted]
Team ID	[Redacted]
Entity Type	Individual
Phone	
Address	[Redacted]
Expiration Date	

- Go to **Certificates, Identifiers & Profiles**
- Select **App ID**
- Record the **ID** for your APNs project. App ID will be used for config.json file later.



- Also, check if **Push Notification** is enable.



CHAPTER 4

Indices and tables

A Python client for Apple Push Notification service

- `genindex`
- `modindex`
- `search`