

2020/01/24

- 預期進度：設定是否視訊 開啟郵箱 簽名檔傳伺服器
- 目前進度：

1. 推播通知

1. 創建CSR文件 在鑰匙串中，打開Keychain Access > Certificate Assistant > Request a Certificate From a Certificate Authority...
2. 傳至apple developer網站取得SSL證書
3. xcode > Signing & Capabilities > 加上push notifications 並勾選 Automatically manage signing
4. 在AppDelegate修改加入

```
func application(_ application: UIApplication,
didFinishLaunchingWithOptions launchOptions:
[UIApplication.LaunchOptionsKey: Any]?) -> Bool {
    // Override point for customization after application
    launch.

    // push notification

    UNUserNotificationCenter.current().requestAuthorization(options:
[.alert, .sound, .badge]) { (granted, error) in
        }
        UIApplication.shared.registerForRemoteNotifications()

        return true
    }
    // when get the remote notification token
    func application(_ application: UIApplication,
didRegisterForRemoteNotificationsWithDeviceToken deviceToken:
Data) {
        var tokenString = ""
        for byte in deviceToken {
            let hexString = String(format: "%02x", byte)
            tokenString += hexString
        }
        print("token:\(tokenString)")
    }
}
```

5. 取得token可傳至webservice供伺服器推播
6. 利用 Node.js 程式當 provider server 發送推播 進行測試

```
var apn = require('apn');

var options = {
    token: {
        key: "AuthKey_XGDY92M6SG.p8",
        keyId: "XGDY92M6SG",
```

```
        teamId: "7K297JDWP3"
    },
    production: false
};

var apnProvider = new apn.Provider(options);

var note = new apn.Notification();
let deviceToken =
"ee14270666e3bcc44639ca199ca0cdb72866b5a349991dfdbae6e7658447afe7";
note.alert = "你的包裹已送達";
note.sound = "default";
note.badge = 1;
note.topic = "edu.niu.Lebox";
apnProvider.send(note, deviceToken).then((result) => {
    // see documentation for an explanation of result
});
```

◦ 實際畫面



◦ 參考資料

<https://www.appcoda.com.tw/push-notification-ios/> <https://www.appcoda.com.tw/push-notification/>

2. 來電自動彈出接聽畫面

- 實作方法：

1. 使用voip通知手機喚醒(PushKit)
2. 將PushKit收到的通知使用CallKit呼叫系統通話畫面

- 詳細步驟

1. 生成 CSR 文件
2. 生成 voip service 的證書
3. 勾選Background Mode > voice over ip
4. 添加 PushKit.framework 和 CallKit.framework
5. 註冊 voip

```
func registerForVoIPPushes() {  
    let mainQueue = DispatchQueue.main  
  
    voipRegistry = PKPushRegistry(queue: mainQueue)  
    voipRegistry?.delegate = self  
    voipRegistry?.desiredPushTypes = [.voIP]  
}
```

6. 接收voip token

```
func pushRegistry(_ registry: PKPushRegistry, didUpdate  
pushCredentials: PKPushCredentials, for type: PKPushType) {  
    var tokenString = ""  
    for byte in pushCredentials.token {  
        let hexString = String(format: "%02x", byte)  
        tokenString += hexString  
    }  
    print("voip token:\(tokenString)")  
}
```

7. 串 CallKit

```
func pushRegistry(_ registry: PKPushRegistry,  
didReceiveIncomingPushWith payload: PKPushPayload, for type:  
PKPushType, completion: @escaping () -> Void) {  
  
    let backgroundTaskIdentifier =  
    UIApplication.shared.beginBackgroundTask(expirationHandler:  
nil)
```

```

        if let handle = payload.dictionaryPayload["handle"] as?
String{
            AppDelegate.shared.displayIncomingCall(
                uuid: UUID(),
                handle: handle,
                hasVideo: true
            ) { _ in

                UIApplication.shared.endBackgroundTask(backgroundTaskIdentif
ier)
            }
        }

    }

func displayIncomingCall(uuid: UUID,handle: String,hasVideo:
Bool = false,completion: ((Error?) -> Void)?) {

    providerDelegate.reportIncomingCall(
        uuid: uuid,
        handle: handle,
        hasVideo: hasVideo,
        completion: completion)
}

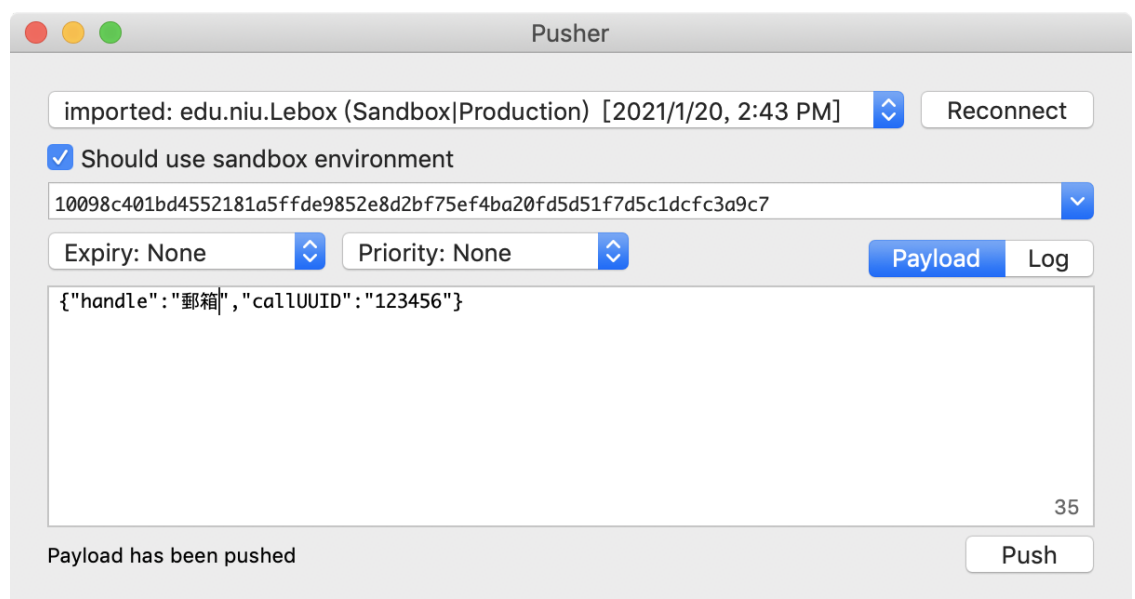
```

詳細參考<https://juejin.im/entry/5cb877626fb9a0687a171ced>

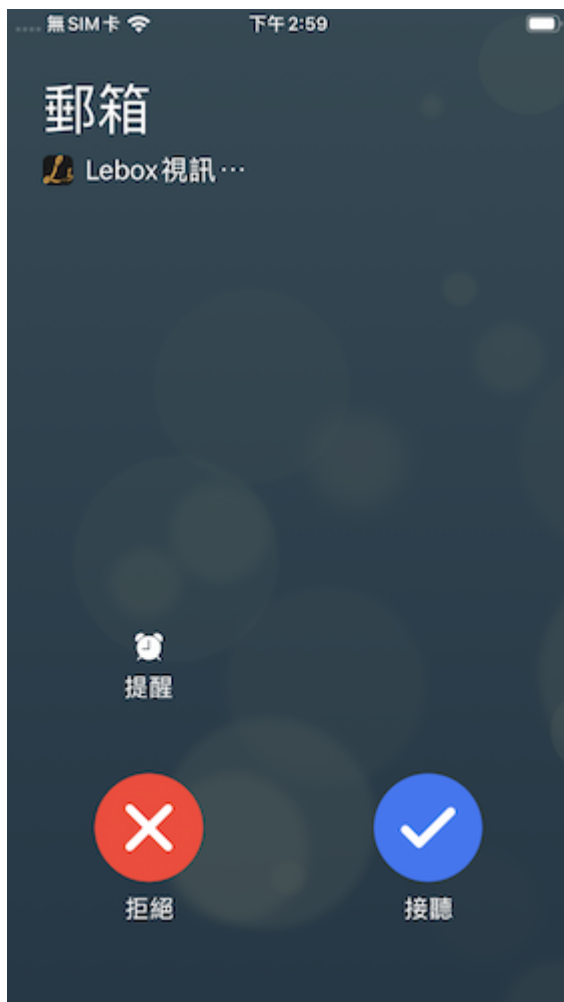
8. 測試:使用pusher

<https://github.com/noodlewerk/NWPusher/releases>

模擬伺服器發送請求



手機接收到voip通知後的動作



- 參考資料

<https://medium.com/ios-expert-series-or-interview-series/voip-push-notifications-using-ios-pushkit-5bc4a8f4d587>

<https://stackoverflow.com/questions/43638814/ios-voip-push-notifications-pushkit>

<https://juejin.im/entry/5cb877626fb9a0687a171ced>

<https://stackoverflow.com/questions/58115125/ios-13-not-getting-voip-push-notifications-in-background>

https://developer.apple.com/documentation/pushkit/responding_to_voip_notifications_from_pushkit

- UISwitch顏色調整

```
switchButton.onTintColor = UIColor.blue
switchButton.tintColor = UIColor.red
switchButton.thumbTintColor = UIColor.white
switchButton.backgroundColor = UIColor.red
switchButton.layer.cornerRadius = 16
```

- 參考資料：

<https://iosrevisited.blogspot.com/2019/06/swift-uiswitch-color-in-on-off-change-height.html>