ios 调试与发布

概念介绍

1、开发者账号类型

iOS



iOS Developer Program Individual \$99 / Year For an individual

developer who will be

creating iOS apps for

distribution on the

App Store.

iOS Developer Program Company \$99 / Year

For a company with a development team who will be creating iOS apps for distribution on the App Store. **Note:** A D–U–N–S Number is required. iOS Developer Enterprise Program \$299 / Year

For a company who will be creating proprietary, inhouse iOS apps.

Note: A D-U-N-S Number is required.

iOS Developer University Program Free

For higher education institutions looking to introduce iOS development into their curriculum.

iso 开发者账号分为 个人(individual),公司(company),企业(enterprise)三种类型,还有 一种比较特殊的是教育机构开发者账号,免费的。个人和公司都称为标准账号,99 美金一 年,企业账号是 299 美金。个人账号只能有一个开发者,公司账号可以允许邀请多个开发者 协作开发(比如可以共享开发平台等,这个对于需要多人协作开发的好处很多)。企业账号, 可以发布 in-house 内部 APP,其 app 只能用于内部员工使用,是无法对外公开的。教育机构 开发者账号是面对学校这些教育机构的,所以,普通情况下大家都是选择个人或者公司账 号。

2、代码签名(code signing)

代码签名的重要性:给应用程序签名是为了让用户相信这个 APP 是已经通过苹果验证的开发者发布的,从而能够识别这个 APP 是否是伪造的或者给别人修改过的。这样能够保证只有经过签名的应用程序才能保证他的来源是可信任的,并且代码是完整的, 未经修改的。

我们申请一个 Certificate 之前,需要先在本地申请一个 Certificate Signing Request (CSR) 文件,而这个过程中实际上是生成了一对公钥和私钥,保存在你 Mac 的 Keychain 中。代码 签名正是使用这种基于非对称秘钥的加密方式,用私钥进行签名,用公钥进行验证。如下图 所示,在你 Mac 的 keychain 的 login 中存储着相关的公钥和私钥,而证书中包含了公钥。你 只能用私钥来进行签名,所以如果没有了私钥,就意味着你不能进行签名了,所以就无法使 用这个证书了,此时你只能 revoke 之前的证书再申请一个。因此在申请完证书时,最好导 出并保存好你的私钥。当你想与其他人或其他设备共享证书时,把私钥传给它就可以了。私 钥保存在你的 Mac 中,而苹果生成的 Certificate 中包含了公钥。当你用自己的私钥对代码签 名后,苹果就可以用证书中的公钥来进行验证,确保是你对代码进行了签名,而不是别人冒 充你,同时也确保代码的完整性等。





3、证书(Certificates)

在开发 iOS 应用的时候,我们需要签名证书(开发证书)来验证,并允许我们在真机上 对 App 进行测试。另外,在发布 App 到 App store 的时候,我们也需要证书(发布证书)来做 验证。所以在给你的 app 签名之前,你应该准备好已经创建了调试证书或者发布证书。

证书主要分为两类: Development 和 Production, Development 证书用来开发和调试应 用程序, Production 主要用来发布应用程序(根据证书种类有不同作用),下面是证书的分 类信息:

Development

iOS App Development

Sign development versions of your iOS app.

Apple Push Notification service SSL (Sandbox)

Establish connectivity between your notification server and the Apple Push Notification service sandbox environment. A separate certificate is required for each app you develop.

Production

- App Store and Ad Hoc
 Sign your iOS app for submission to the App Store or for Ad Hoc distribution.
- Apple Push Notification service SSL (Production) Establish connectivity between your notification server and the Apple Push Notification service production environment. A separate certificate is required for each app you distribute.
- Pass Type ID Certificate
 Sign and send updates to passes in Passbook.
- Website Push ID Certificate
 Sign and send updates for Websites.

Development

App Development: 用来开发和真机调试应用程序。

Push Development: 用来调试 Apple Push Notification

Production

In-House: 用来发布 In-House 的应用程序。(企业账号才能发布 In-House)

App Store and Ad Hoc: 用来发布提交 App Store 的应用程序和发布测试应用程序。

Push Production: 用来在发布版本中使用 Apple Push Notification。

Pass Type ID Certificate: 用来在发布版本中使用 Passbook

Website Push ID Certificate: 用来在发布版本中使用 safari 的 push

4、Bundle ID 与 App ID

Bundle ID 能够精确的识别一个 APP,这个和 Android 的包名非常类似,相当于一个 APP 的唯一标识。 Bundle ID 的使用涵盖从一个 APP 的整个开发过程到可以安装到设备以及当 APP 要发布面向消费者的时候提供给操作系统来使用。例如,当使用 Game Center and In-App Purchase 这些服务必须使用 bundle ID 来唯一标识你的 APP。系统使用此字符串来确定哪些 偏好设置来适合这个 app,同样地,启动服务也用 Bundle ID 来定位一个 APP 可以打开一个 特定的文件。Bundle ID 也可以用来验证 APP 的签名。下图列出 Bundle ID 被使用到的地方。



App ID 用于标识一个或者一组 App, App ID 应该是和 Xcode 中的 Bundle ID 是一致的或者匹配的。App ID 主要有以下两种:

- Explicit App ID: 唯一的 App ID,这种 App ID 用于唯一标识一个应用程序,例如 com.ABC.demo1,标识 Bundle ID 为 com.ABC.demo1 的程序。
- Wildcard App ID:通配符 App ID,用于标识一应用程序。例如*可以表示所有应用程序,而 com.ABC.*可以表示以 com.ABC 开头的所有应用程序。

每创建一个 App ID,我们都可以设置该 App ID 所使用的 APP Services,也就是其所使用的额外服务。每种额外服务都有着不同的要求,例如,如果要使用 Apple Push Notification Services,则必须是一个 explicit App ID,以便能唯一标识一个应用程序。下面是目前所有可选的服务和相应的配置要求。

	Create Explicit App ID	Enable App ID	Set Entitlements	Edit Info.plist	Configure iTunes Connect
APNs	\checkmark	1			
Game Center	1	1			\checkmark
iCloud		1	1		
In-App Purchase	1	1			✓
Data protection		1			
Newsstand				1	 Image: A second s
Passbook		1			
Routing apps				1	1

5、添加设备(Devices)

当需要将 APP 在真实 IOS 设备上运行,如果你的设备没有越狱的话,你需要将设备通过 xcode 或者开发者管理中心来注册你的设备。Devices 中包含了该账户中所有可用于开发和测试的设备。每个账户中的设备数量限制是 100 个。Disable 一台设备也不会增加名额。每台设备使用 UDID 来唯一标识。UDID (Unique Device Identifier)是区分物理设备的唯一标识。你的 iPhone 肯定有一个与众不同的 UDID,通常 UDID 会是一个 40 位十六进制字符串。你可以通过 xcode 或者 itunes 来查看设备的 UDID,如图:



Gita Kumar's iPh	one 🛎 Summary Apps Music Mo	vies TV Shows Pho	otos On This iPhone Don
iPhone 4			
Gita Kumar's iPhone		IOS 6.1.3 Your iPhone software is u for an update again on 9/	p to date. iTunes will automatically check 10/13.
5859	Capacity: 13.69 GB Phone Number: +1 (408) 425-8861	Check for Undate	Restore iPhone
	Identifier (UDID): 2be702beae2ac34fc0d7f8ae 2b5b808a402fc01a	Coneck for Opulate	

6、配置文件(provisioning profiles)

如果我们要打包或者在真机上运行一个应用程序,我们首先需要证书来进行签名,用来标识这个应用程序是合法的、安全的、完整的等等;然后需要指明它的 App ID,并且验证 Bundle ID 是否与其一致;再次,如果是真机调试,需要确认这台设备能否用来运行程序。而 Provisioning Profile 就把这些信息全部打包在一起,方便我们在调试和发布程序打包时使用,这样我们只要在不同的情况下选择不同的 profile 文件就可以了。而且这个 Provisioning Profile 文件会在打包时嵌入.ipa 的包里。

例如,如下图所示,一个用于 Development 的 Provisioning Profile 中包含了该 Provisioning Profile 对应的 App ID,可使用的证书和设备。这意味着使用这个 Provisioning Profile 打包程 序必须拥有相应的证书,并且是将 App ID 对应的程序运行到 Devices 中包含的设备上去。



如上所述,在一台设备上运行应用程序的过程如下:



Your app launches on a device if:

与证书一样, Provisioning Profile 也分为 Development 和 Distribution 两种,对应上面所 提到的调试证书和发布证书:

(注:前面提到不同账户类型所能创建的证书种类不同,显然 Profile 文件的种类是和你所能创建的证书种类相关的)

Development

Distribution

In House

Ad Hoc

App Store

In House:是企业账号发布的内部 APP,使用 In House 打包的 APP 是无法发布到 App Stroe 上面对外销售的,也不需要经过 Apple 的评审。你可以把"In House"应用通过任何方式发 布给你的企业员工、用户及其他你认可的任何人,没有注册设备的数量限制,尤其适合于企 业应用的开发。

Ad Hoc: 是用来发布测试用的或者是越狱版本, Ad Hoc 的包只能运行在该账户内已经 注册的可用设备或者已经越狱的设备,最多 100 个注册设备的数量限制。



App Store: 是用来提交到 App Store 上的,发布状态的 Provisioning Profile 已经以签名的 方式和 App 进行了绑定,有一点不同的是,发布状态的 Provisioning Profile 不需要指定 Device,因为它不知道将被哪些设备使用。



开发/调试流程

根据上面的介绍,可以知道进行 Development 主要有以下几个步骤:

- 添加 APP ID
- 申请调试证书
- 加入设备
- 生成调试 Provisioning Profile
- 设置 Xcode Code Sign Identifer,设置 debug 选项为调试证书

一、添加 APP ID

 打开 <u>iOS Dev Center</u>,选择 Sign in,登陆(至少 99 美元账号),登陆之后在网页右边 找到 iOS Developer Program,选择 Certificates, Identifiers & Profiles。



2、点击 App IDs, 点击右上角的"+"

Certificates, Identifie	ers & Profiles		Account 👻
iOS Apps	•	iOS App IDs	+ Q
Sertificates	2 App IDs Total		
■ All	Name	▲ ID	
Pending	MGMClient	org.mingchao.MGMClient	
DevelopmentProduction	Xcode iOS Wildcard App ID	*	
D Identifiers			
App IDs			
Pass Type IDs	_		
Website Push IDs			
Website Push IDs			

入以下界面

The App ID string con	itains two parts separated by a period (.)—an App ID Prefix that is define
as your Team ID by de Each part of an App ID	efault and an App ID Suffix that is defined as a Bundle ID search string. Thas different and important uses for your app. Learn More
Ann ID Descript	tion
App in Descrip	
App ID Descrip	添一个自己能分辨的名称即可
Name:	添一个自己能分辨的名称即可
Name:	添一个自己能分辨的名称即可 You cannot use special characters such as @, &, *, ', "
App ID Description	添一个自己能分辨的名称即可 You cannot use special characters such as @, &, *, ', "
App ID Description	添一个自己能分辨的名称即可 You cannot use special characters such as @, &, *, ', "

在 xcode 的左边项目导航区点击 MGMClent.xcodeproj 查看项目的 Bundle ID。

	👕 🏭 🛛 🖝 🛛 🚵 MGMClient						⊲ 🛕 ►
MGMClient 1 target, iOS SDK 7.0	4	General	Capabilities Info	Build Settings	Build Phases	Build Rules	
SystemConfiguration.framework	PROJECT	▼ Identity					
Cocos2dx.xcodeproj	MGMClient					n	
Lua	TARGETS		Bundle Identifier	org.mingchao.MGM	dClient		
extensions			Version	11		,	
CocosDenshion	Add Target		Tersion.				
Resources			Build	1.1			
▶ 🧰 Classes			Team	None			
Frameworks			ream	Hone	•		
Other Sources Products			A	No provisioning pro	files with a valid signi	ing identity (i.e.	
A 六界仙尊.app				No provisioning pro	files with a valid signi	ina identity (i.e.	
				certificate and priva	te key pair) were four	nd. Xcode can resolve	
				Member Center.	ading a new provision	ning profile from the	
				Fix Issue			
		Deployment Info					
			Deployment Target	5.0			
			Devices	Universal	•]		
			benees	(,		
				iPhone	iPad		
			Main Interface		•		



App ID Suffix

Explicit App ID

If you plan to incorporate app services such as Game Center, In-App Purchase, Data Protection, and iCloud, or want a provisioning profile unique to a single app, you must register an explicit App ID for your app.

To create an explicit App ID, enter a unique string in the Bundle ID field. This string should match the Bundle ID of your app.

Bundle ID:	org.mingchao.MGMClient
	We recommend using a reverse-domain name style string (i.e.,
	com.domainname.appname). It cannot contain an asterisk (*).

Wildcard App ID

This allows you to use a single App ID to match multiple apps. To create a wildcard App ID, enter an asterisk (*) as the last digit in the Bundle ID field.

Bundle ID:	
	Example: com.domainname.*

3、App Services:应用程序提供的服务(App Services:选择你应用中将会使用的服务, 在 App ID 注册成功之后也可再次编辑你的选择)

在自己应用中所使用到的选项上打v,因为我选择的是精确型(Explicit),所以 Game Center, In-App Purchase, Push Notifications 都是可选的,勾选我们需要的 APP Services,点击 Continue。

Enable Services:	Data Protection
	Complete Protection
	Protected Unless Open
	Protected Until First User Authentication
	☑ Game Center
	🔲 iCloud
	✓ In-App Purchase
	Inter-App Audio
	Passbook
	Push Notifications

4、确认信息,点击 Submit 即可

o complete the registration of th ick the submit button.	is App ID, make sure your App ID information is correct, and
App ID Description:	MGMClient
Identifier:	7T9FVP7WY3.org.mingchao.MGMClient1
Data Protection:	© Disabled
Game Center:	Enabled
iCloud:	© Disabled
In-App Purchase:	Enabled
Inter-App Audio:	© Disabled
Passbook:	© Disabled
Push Notifications:	Enabled

二、申请调试证书

1、点击 Development, 点击右上角的"+"号



选择 iOS App Development

iOS Apps 👻	Add iOS Provisioning Profile	+ 💌 Q
🍲 Certificates	Select Type Configure Generate Download	
 All Pending Development Production 	What type of provisioning profile do you need?	
 Identifiers App IDs Pass Type IDs 	Development	
Website Push IDs	 iOS App Development Create a provisioning profile to install development apps on test devices. 	
Devices		
Provisioning Profiles	Distribution	
III III	App Store	
Development	Create a distribution provisioning profile to submit your app to the App Store.	
Distribution	Ad Hoc Create a distribution provisioning profile to install your app on a limited numbe devices.	er of registered

提示需要手动创建 CSR 文件

Add iOS Certificate	+ Q
Select Type Request Generate Approval	
About Creating a Certificate Signing Request (CSR)	
To manually generate a Certificate, you need a Certificate Signing Request (CSR) file fro Mac. To create a CSR file, follow the instructions below to create one using Keychain Ac	om your :cess.
Create a CSR file. In the Applications folder on your Mac, open the Utilities folder and launch Keychain Ac	ccess.
 Within the Keychain Access drop down menu, select Keychain Access > Certificate Assi Request a Certificate from a Certificate Authority. In the Certificate Information window, enter the following information: In the User Email Address field, enter your email address. In the Common Name field, create a name for your private key (e.g., John Dow The CA Email Address field should be left empty. In the "Request is" group, select the "Saved to disk" option. Click Continue within Keychain Access to complete the CSR generating process. 	stant > e Dev Key).
Cancel Back Continue	

2、打开 LaunchPad,在"其他"文件夹可以看到钥匙串访问,点击打开

		Q	Notes -				
其他			ALCOURT COMPOSI-	Califysiand	100	-	
				9	I.		
QuickTime Player	文本编辑	Grapher	DVD 播放程序	Time Machine	字体册	国际发掘	
Automatic Automatica				54	<u>-</u>	Am	
		VoiceOver 5 Mil A		TOWE	1000		
WARNIN 1977:36 控制台	朝聖串访问	系统信息	Automator	AppleScript 编辑器	Harp	Boot Camp 助理	
(All and a second secon		13-2	\$		X		
数码测色计	ColorSync 实用工具	unas	<u>盖</u> 牙文件交换	音频 MIDI 设置	X11		
		1					

3、选择钥匙串访问->证书助理->从证书颁发机构请求证书

	钥匙串访问 文件 编辑	串 显示 窗口 帮助 🛛 🔂 🥏 🖣	9 🦺 🕄
• •	关于钥匙串访问		
	偏好设置 盻,	and the second se	
	钥匙串急救 て光A		
<u> </u>	证书助理 ▶	打开	
	票据显示程序 て跆K	创建证书	0:00
	服务	作为证书颁发机构为其他人创建证书	
	隐藏钥匙串访问 ¥H	从证书颁发机构请求证书	
	隐藏其他 て #H 全部显示	设定默认证书颁发机构 评估"A-Trust-nQual-01"	
-		st-Qual-01	0
	退出钥匙串访问 XC	t-Qual-02	
	AAA	Certificate Services	
	AC	Raíz Certicámara S.A.	

4、输入开发者账号邮箱和随便写一个常用名称,勾选存储到本地,点击继续,最后选择存储位置(一般存储在桌面), CSR 文件完成。

	からん かって かった はっかん かって かっとう かっとう かっとう かって かっとう かって かっとう かっとう かっとう かっとう かっとう かっとう かっとう かっとう	计书码相关序点 上桥网络德约日	CA 28:027
	制八态正在请求的	业节的相大信息。 尽按 逐狭 以从	CA调水证
	用户电子邮件地址:	mcdev@mingchao.com	
P	常用名称:	mingchao	
O	CA 电子邮件地址:		
	请求是:	 用电子邮件发送给 CA 存储到磁盘 	
	- MA	 存储到磁盘 让我指定密钥对信息 	

5、回到 developer 的界面,选择 Continue,出现上传证书界面,选择 Choose File 上传 刚才存储的证书,然后选择 Generate.

Certificate	Generate your certificate.
With the cro key pair. Yo viewed in tl	eation of your CSR, Keychain Access simultaneously generated a public and private our private key is stored on your Mac in the login Keychain by default and can be he Keychain Access application under the "Keys" category. Your requested
certificate v Upload CS	will be the public half of your key pair. R file.
Select .cert	SigningRequest file saved on your Mac.

6、最后出现以下界面,提示证书生成成功,然后点击 Download 下载到本地,双击安

装即可

Download, Insta Download your c	all and Backu ertificate to yo	p our Mac, then double click the .cer file to install in Keychain
ccess. Make sui	e to save a ba	ckup copy of your private and public keys somewhere secure.
	Name:	iOS Development: liang Qing
Certificate Manhant	Type:	iOS Development
	Expires:	?? 22, 2015
		Download
Ocumentation		
or more informa	ation on using	and managing your certificates read:
	Cuida	ana ang ang ang ang ang tang tang ang ang ang ang ang ang ang ang ang

三、添加设备

1、将设备连上电脑, 打开在 XCode->Window->Organizer->Devices 中(快捷键 shift+command+2)

设备连接上 XCode 之后 Devices 中的信号灯有灰色,黄色,绿色三种情况

1.1、灰色灯

如果设备是之前未作为开发机,在 Devices 中设备上的灯应该为灰色,在右侧 有选项将设备作为开发机,点击即可,由于没有新机,无法截图演示

1.2、黄灯,有两种情况



设备未连接好,请将连接线重新插一次,并检查接口是否插紧,如果还是黄灯,则未 下一种情况

设备版本高于 XCode 所能支持的版本,如 XCode4.6.3,能支持的最高版本未 iOS6.1,如果你的设备未 iOS7 及以上,此时需要更新至 XCode5

1.3、绿灯:说明连接成功,可进行调试

2、查看设备的 UDID



3、回到 Apple Developer, 点击 Devices, 再点击右上角的"+"号

🕯 Developer	Technologies	Resources	Programs	Support	Member Center	Q Search Developer
Certificates, Identifie	rs & Profiles					Account 👻
iOS Apps	•		iOS De	evices		+ ₹Q
② Certificates	You can register	97 additional	devices.			
≡ All	Name		1	UDID		
Pending	Mingchao			5705cbf5a	2744564ac448ba0e	4balee910b4ec48
Development	Wayen			401e95cd	34e4121cbd47f7d28	1bd93bec9c5873f
Production	mingchao			2410f75d	7c3d2da5b93c18028	ce6da141f51c178
 Identifiers App IDs Pass Type IDs Website Push IDs 						
 Devices All Provisioning Profiles 						
≡ All						

4、输入 Name 和 UDID,点击 continue,最后点击 Register

Pre-Relea	oftware Reminder
You may or	hare Apple pre-release software with employees, contractors, and members of your
organizatio	ho are registered as Apple developers and have a demonstrable need to know or use Apple
software to	leiop and test applications on your behair.
Unauthoriz	distribution of Apple confidential information (including pre-release software) is prohibited an
may result liability.	ne termination of your Apple Developer Program. It may also subject you to civil and criminal
iability.	ne termination of your Apple Developer Program. It may also subject you to civil and criminal Device
 iability. Regis Name 	Device ur device and enter its Unique Device Identifier (UDID).
 iability. Regis Name 	Device ur device and enter its Unique Device Identifier (UDID). Name: mingchao

Registering a New Device or Multiple Devices

四、生成 Provisioning Profile

1、点击 Development,点击右上角的"+"

iOS Apps 👻	iOS Provisioning Profiles	Q
Certificates		
Pending Development Production	and the second se	
 Identifiers ■ App IDs ■ Pass Type IDs 	PROV Getting Started with iOS Provisioning Profiles	
Website Push IDs Devices All	Provisioning profiles allow you to install apps onto your iOS devices. A provisioning profile includes signing certificates, device identifiers, and an App ID. Development provisioning profiles are used to build and install versions of your app during the development cycle, while distribution provisioning profiles are used to submit your agons to the App Store and	
Provisioning Profiles	distribute them to beta testers.	
All Development Distribution	Generate Provisioning Profiles with Xcode Xcode is the easiest way to create an iOS provisioning profile. Connect your device to your Mac and click Use for Development in Xcode's Organizer window. Sign in with the Apple ID associated with your iOS Developer Program membership and Xcode will generate a provisioning profile containing your certificate and device identifier.	
	Generate Provisioning Profiles Manually	

选择 iOS App Development,点击 Continue

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选择我们一开始创建的 APP ID,点击 Continue

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成功提示,点击 Download 下载到本地,双击安装

elect Type Configure Generate Download Vour provisioning profile is ready.			
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Documentation For more informati App Distribution C	ion on using and managing your Provisioning Profile read: juide		
	Add Another Done		

五、设置 Xcode Code Sign Identifer

1、xcode 的左边项目导航区点击 MGMClent.xcodeproj,点击 Targets 的 MGMClient,点

击 Build Settings,选择刚才下载下来的调试证书即可,这样就可以真机调试了

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2、导出 ipa 文件

2.1、选择 xcode->Produce->archive,如果没有错误编译完成会见到以下界面,点击

Distribute



然后选择第二项,点击 next,选择刚才安装的描述文件,最后点击 Export 导出 ipa 文件。

	Select the method of distribution:
	Submit to the iOS App Store Sign, package and submit application to the iOS App Store.
HE	• Save for Enterprise or Ad Hoc Deployment Sign and package application for distribution outside of the iOS App Store.
APPOLATION APP	Export as Xcode Archive Export the entire Xcode archive of this application.
	Cancel Previous Next

发布流程

Distribution 主要有以下几个步骤:

- 申请发布证书
- 加入设备
- 生成发布 Provisioning Profile
- 设置 Xcode Code Sign Identifer,设置 release 选项为发布证书

通过 Xcdoe 来 archive 功能,选择 AdHoc 选项以及发布 Provisioning Profile,最后导出 ipa 安装包文件

发布流程的操作与前面的调试流程基本一样,照着操作即可