Developer Tools

#WWDC16

What's New in Xcode App Signing

Developing and distributing

Session 401

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Itai Rom Tools Engineer

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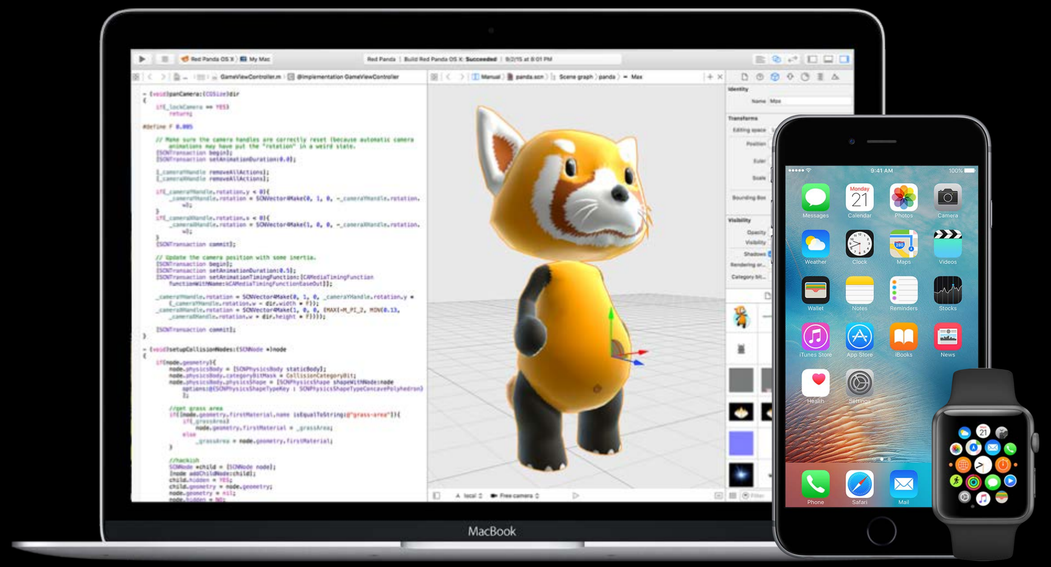
What's New in Xcode Signing

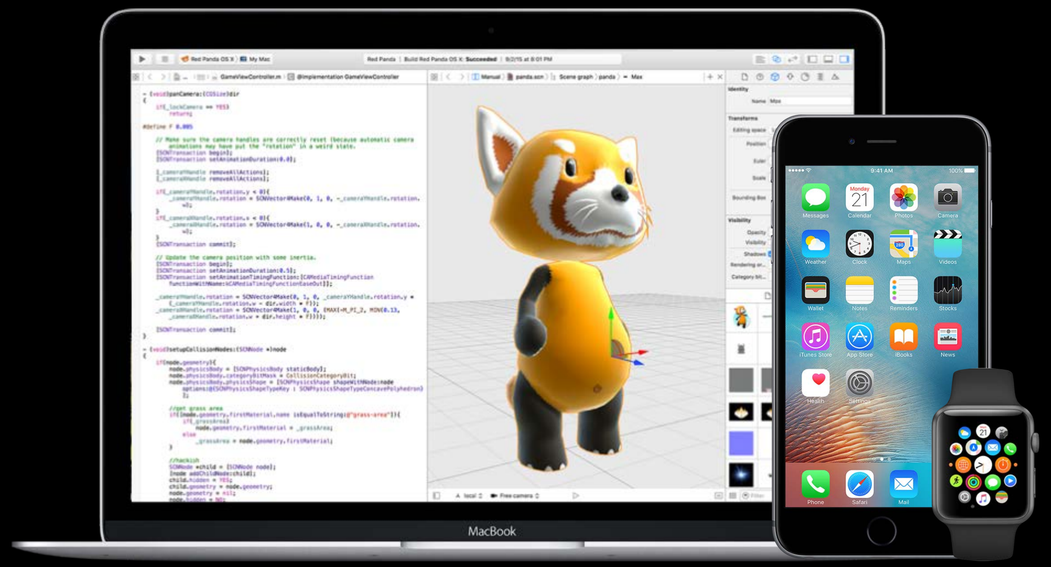
What is signing?



What's New in Xcode Signing

What is signing?

Identifies you to users



What's New in Xcode Signing

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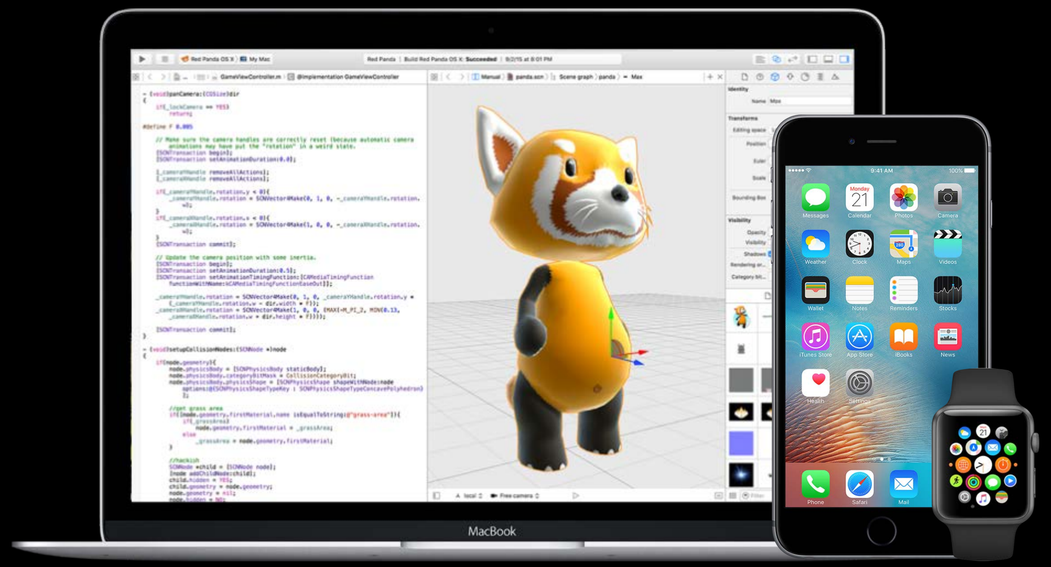
Identifies you to users

Prevents spoofing



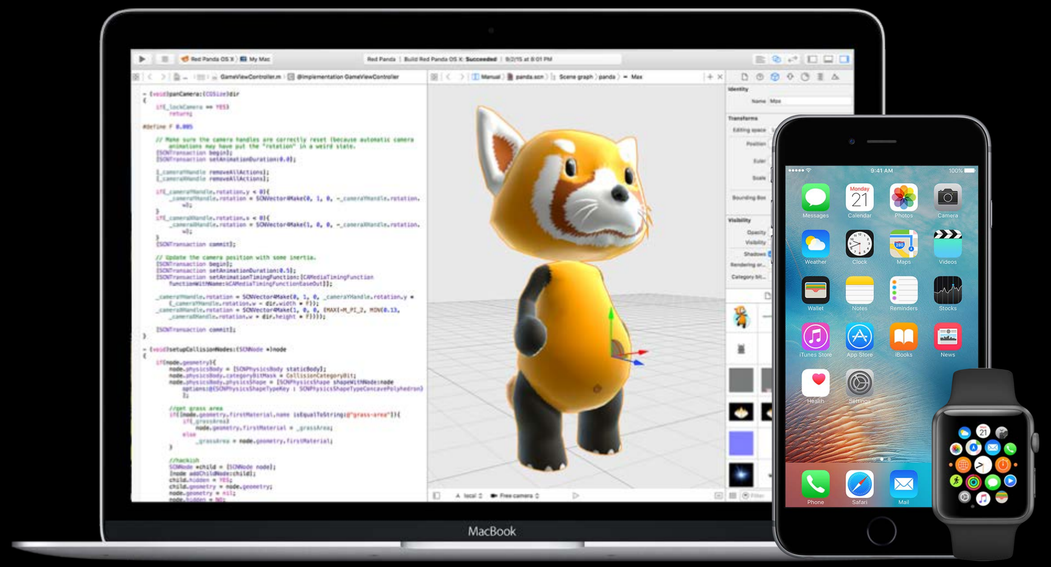
What's New in Xcode Signing

What is signing?

Identifies you to users

Prevents spoofing

Allows access to system services



What's New in Xcode Signing

Overview

Fundamentals

Signing Certificate per Mac

Signing in Xcode

Best Practices

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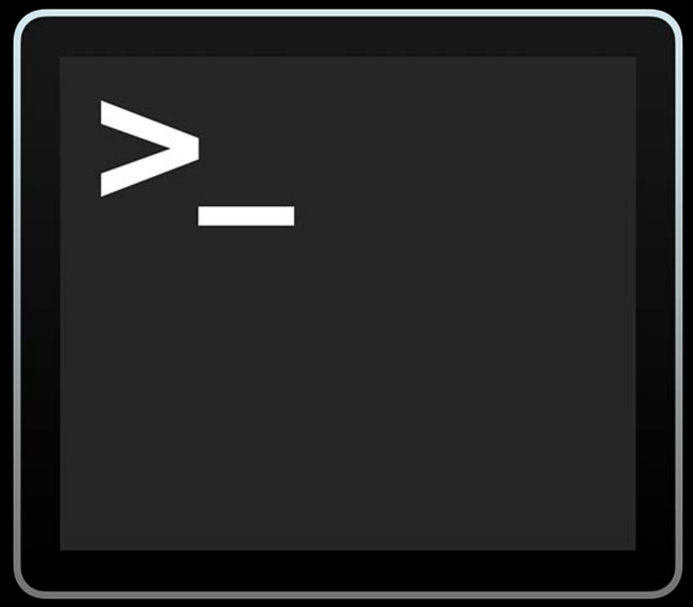
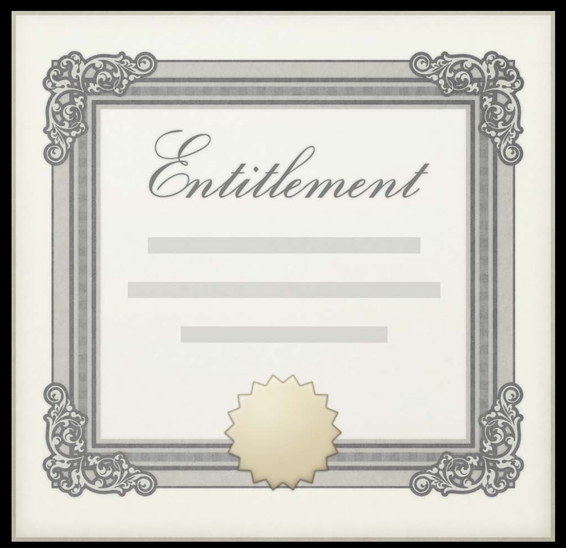


codesign

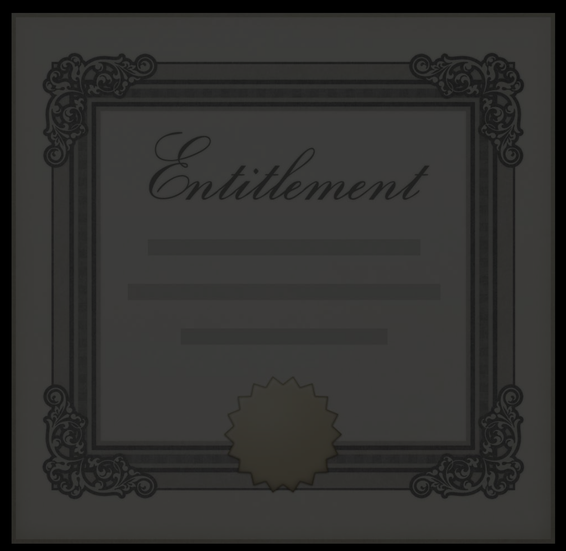
Fundamentals

Overview



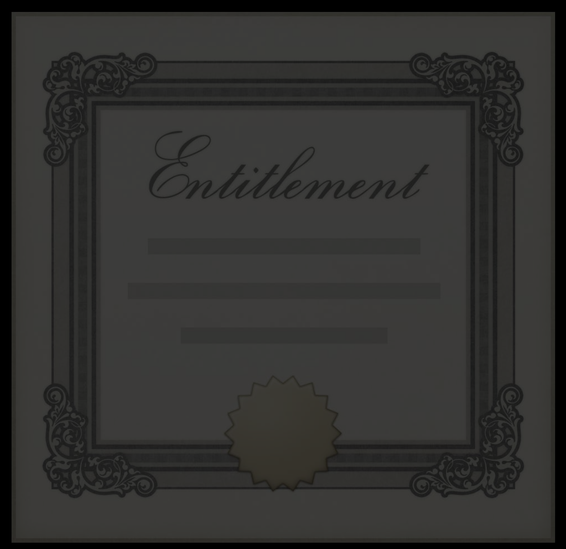
Fundamentals

Overview



Fundamentals

Overview



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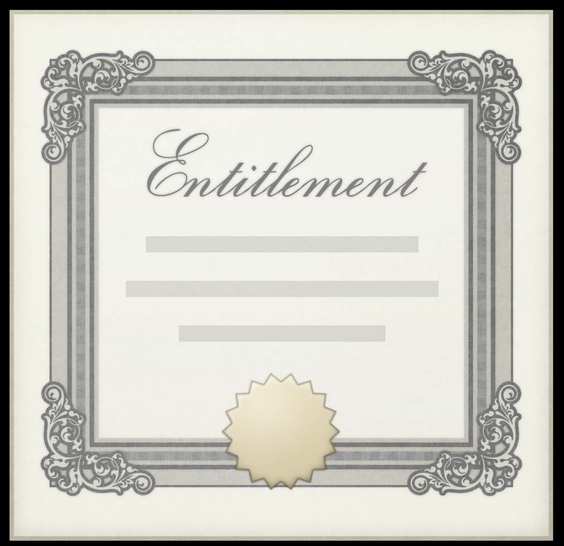


Fundamentals

Fundamentals

Signing certificates

Issued by Apple

Fundamentals

Signing certificates

Issued by Apple

Development and Distribution

Fundamentals

Signing certificates

Issued by Apple

Development and Distribution

Must have a private key

Fundamentals

Signing certificates

Issued by Apple

Development and Distribution

Must have a private key

Apple never has the private key

Fundamentals

Provisioning profiles

Fundamentals

Provisioning profiles

Issued by Apple

Fundamentals

Provisioning profiles

Issued by Apple

App-specific

Fundamentals

Provisioning profiles

Issued by Apple

App-specific

Allows running on devices

Fundamentals

Provisioning profiles

Issued by Apple

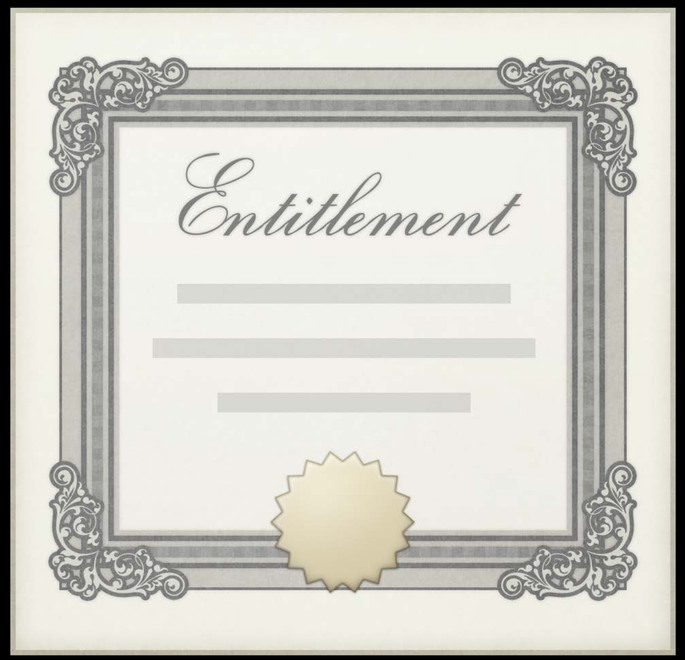
App-specific

Allows running on devices

Allows entitlements

Fundamentals

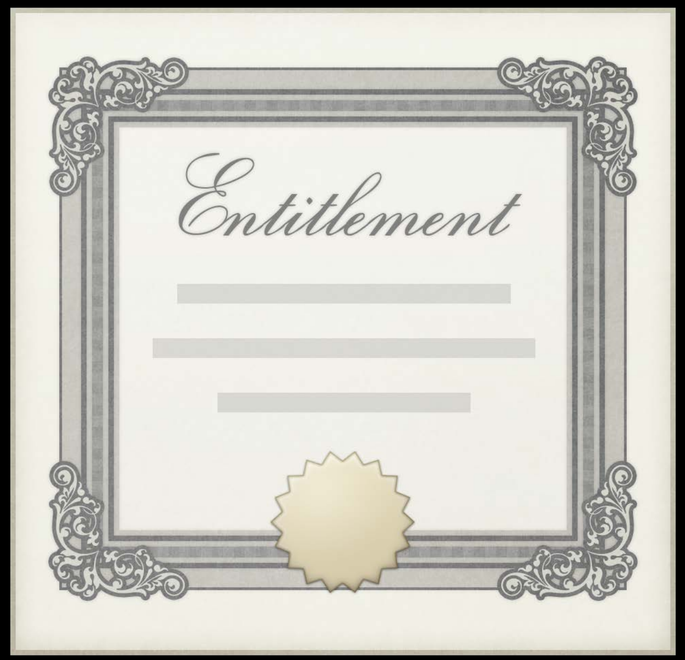
Entitlements



Fundamentals

Entitlements

Declares support for capabilities

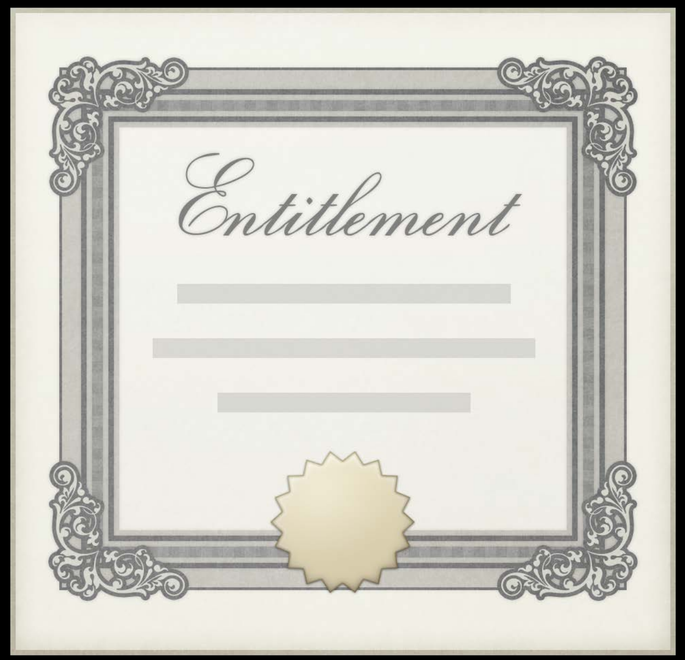


Fundamentals

Entitlements

Declares support for capabilities

Defined per-target



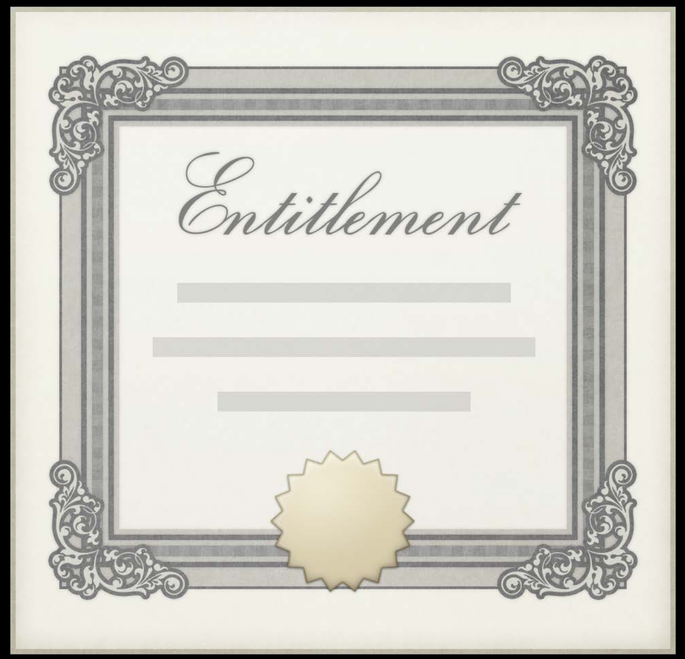
Fundamentals

Entitlements

Declares support for capabilities

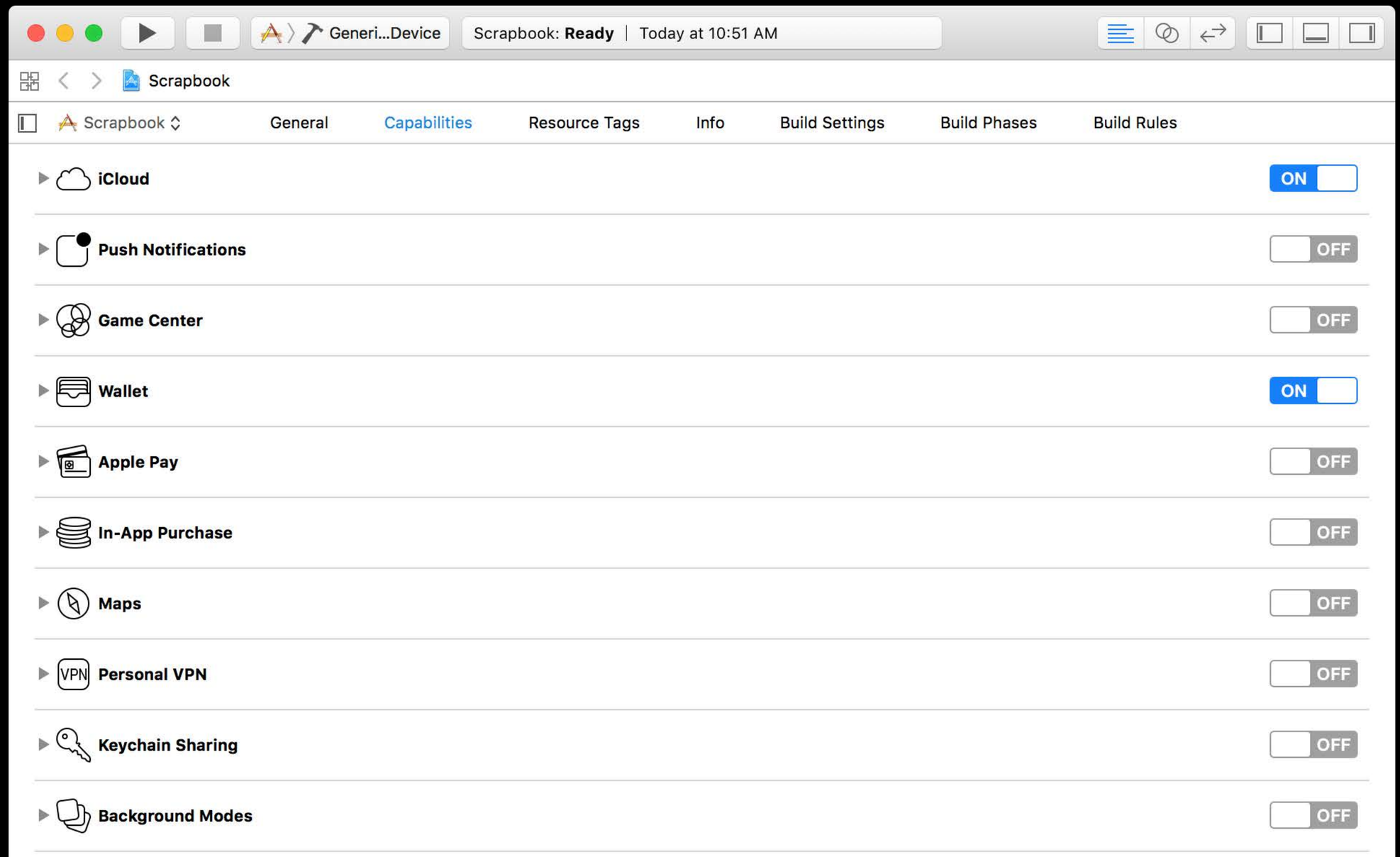
Defined per-target

Use the Capabilities tab



Fundamentals

Entitlements



Fundamentals

Signing in Xcode

Fundamentals

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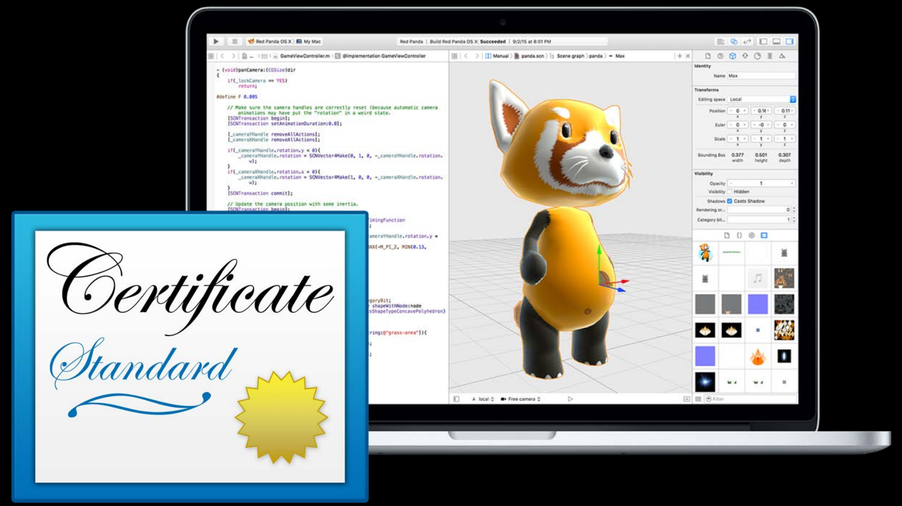
Signing in Xcode

Signing Certificate per Mac

Your account already has a valid Mac Development certificate

You have a valid Mac Development certificate in the Member Center, but it is not installed locally. If your signing identity is installed on another Mac, you can export a developer profile on that Mac and import it on this Mac. You can also reset your current certificate.

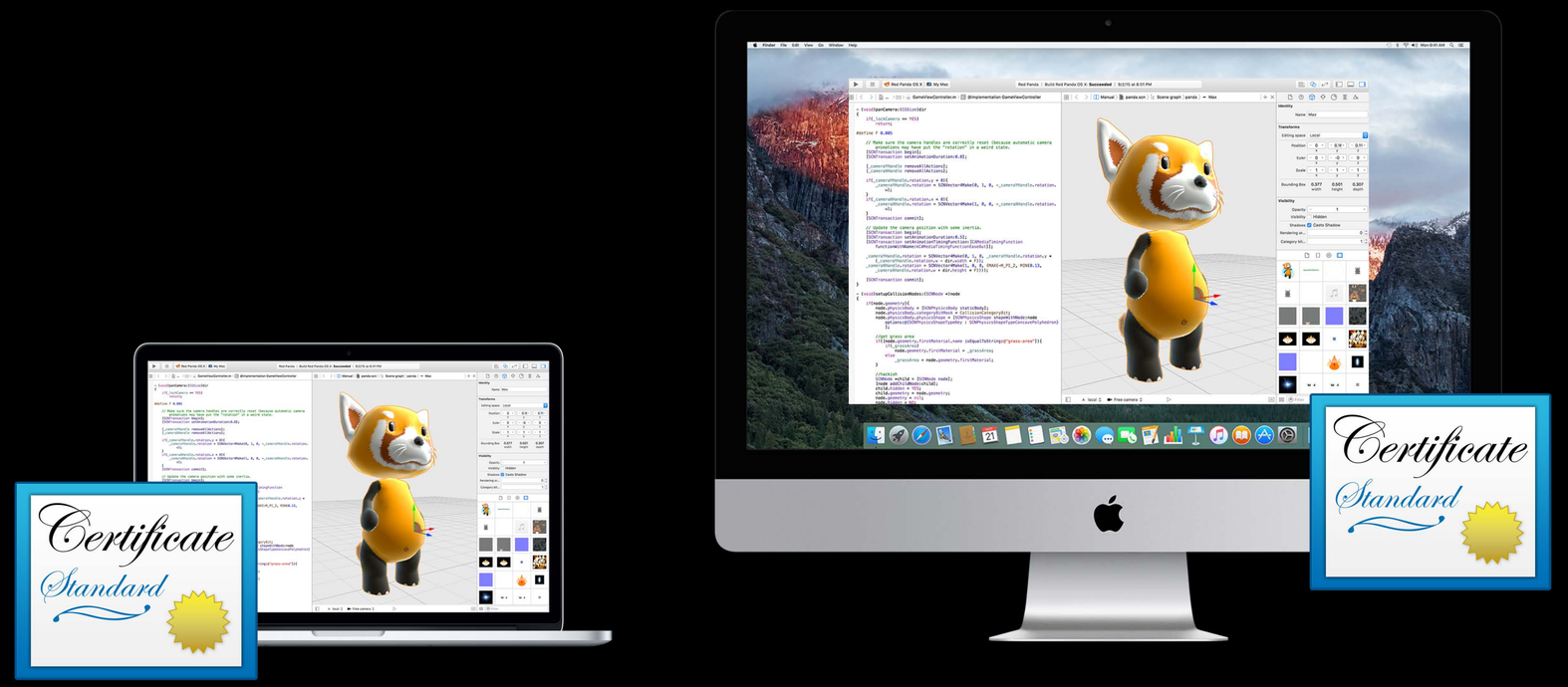
Cancel Reset


Certificate
Standard

Certificate
Standard

Certificate
Standard

Certificate
Standard



Multiple Development Certificates

Your account already has a valid Mac Development certificate

You have a valid Mac Development certificate in the Member Center, but it is not installed locally. If your signing identity is installed on another Mac, you can export a developer profile on that Mac and import it on this Mac. You can also reset your current certificate.

Cancel

Reset

Signing Certificate per Mac

Overview

Signing Certificate per Mac

Overview

Development only

Signing Certificate per Mac

Overview

Development only

Xcode and developer website

Signing Certificate per Mac

Overview

Development only

Xcode and developer website

Created by Xcode 8 and later

Signing Certificate per Mac

Overview

Development only

Xcode and developer website

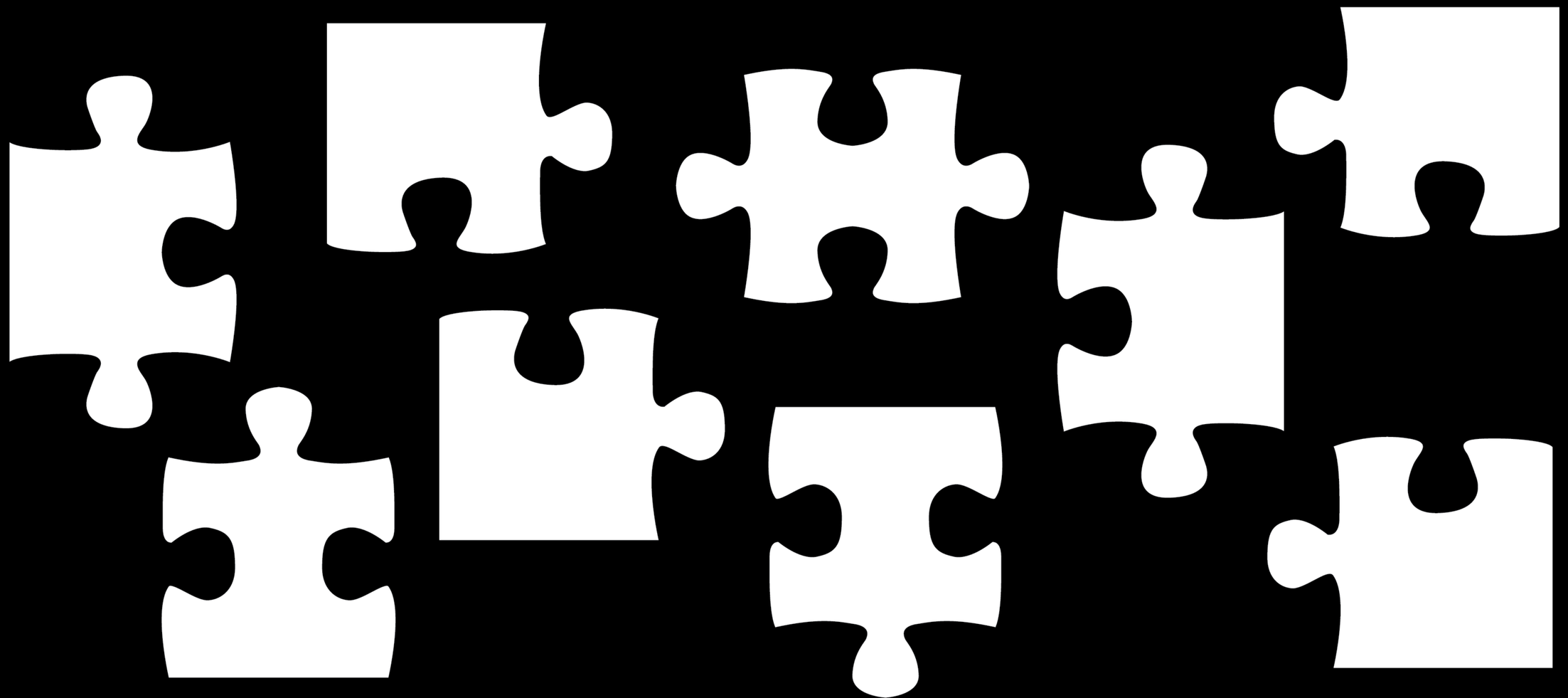
Created by Xcode 8 and later

Usable with all versions

Signing in Xcode

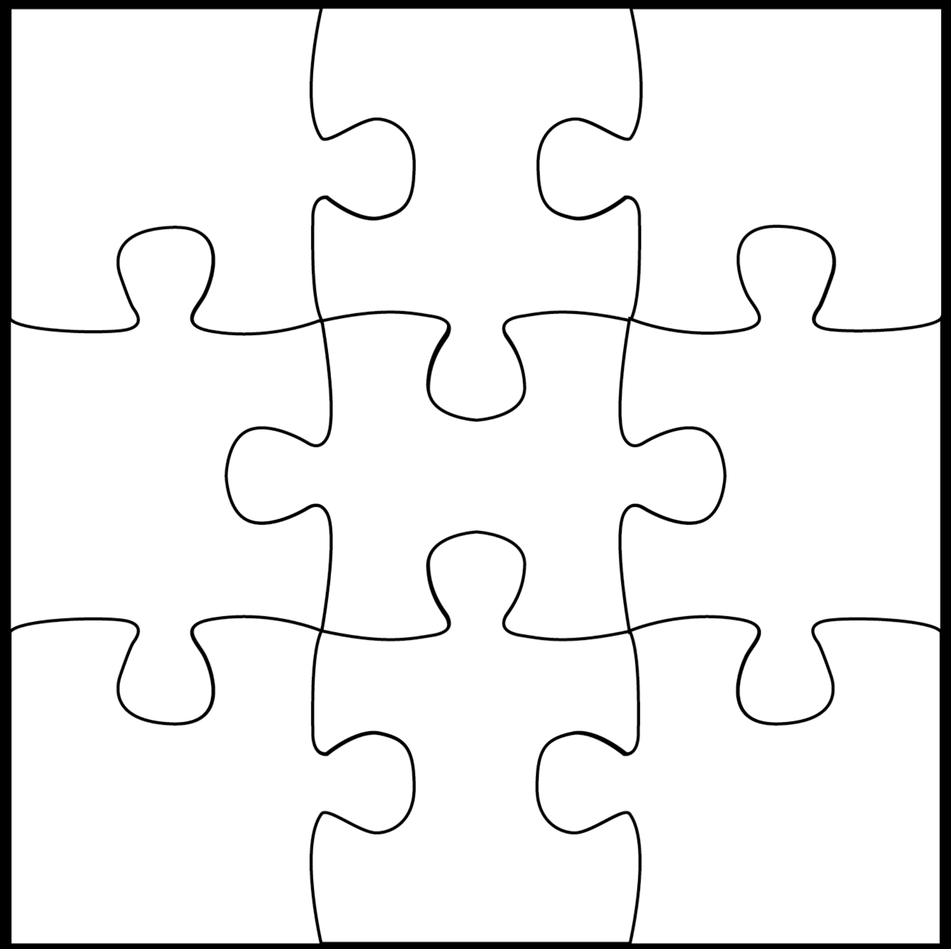
Signing in Xcode

Signing can be complicated



Signing in Xcode

Signing can be complicated



Signing in Xcode 7

Fix Issue

Signing in Xcode 7

Fix Issue

What was the issue?

What did Fix Issue *do*?

Why did Fix Issue do *that*?

Why do I even have to click a button…?

Signing in Xcode 8

Fully redesigned

NEW

Signing in Xcode 8

Fully redesigned

NEW

Brand new infrastructure

Signing in Xcode 8

Fully redesigned

NEW

Brand new infrastructure

New workflows and UI

Signing in Xcode 8

Fully redesigned

NEW

Brand new infrastructure

New workflows and UI

Actionable messaging

Signing in Xcode 8

Fully redesigned

NEW

Brand new infrastructure

New workflows and UI

Actionable messaging

Status reporting

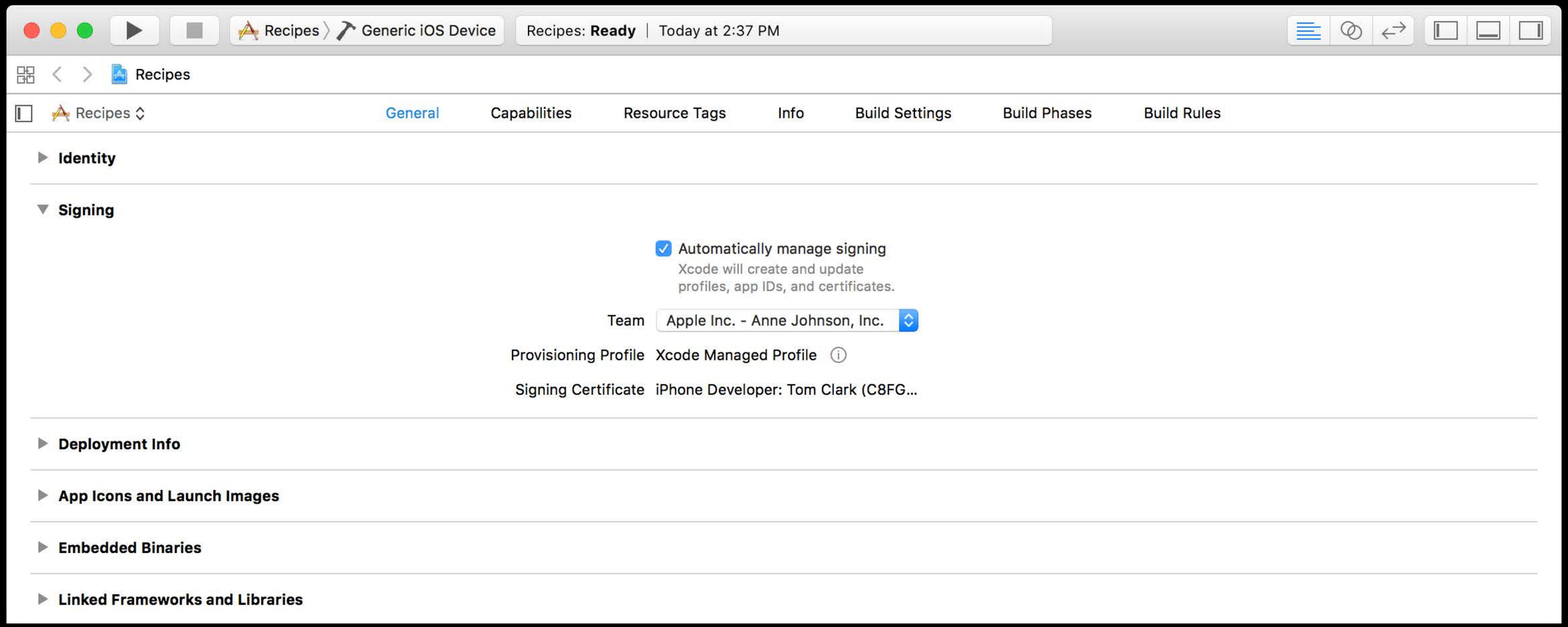
Automatic Signing

Automatic Signing

Customized Signing

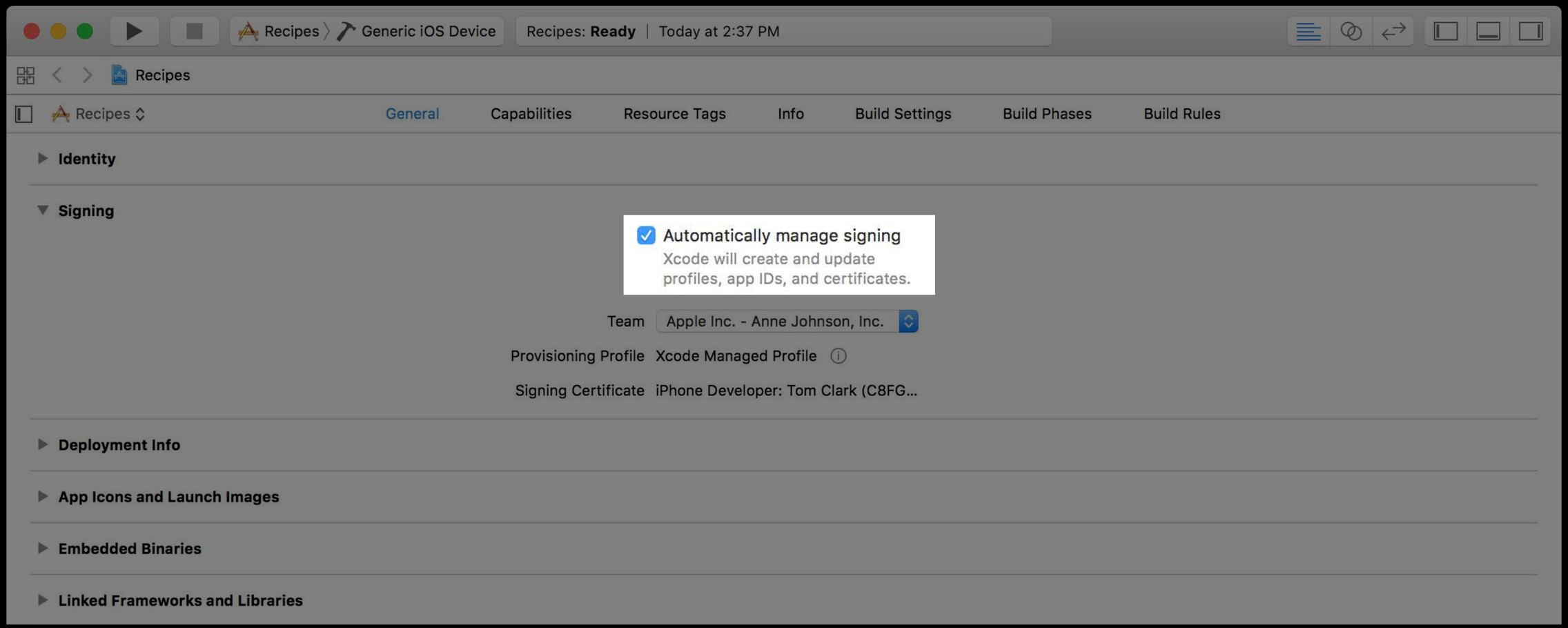
Signing in Xcode

Automatic signing



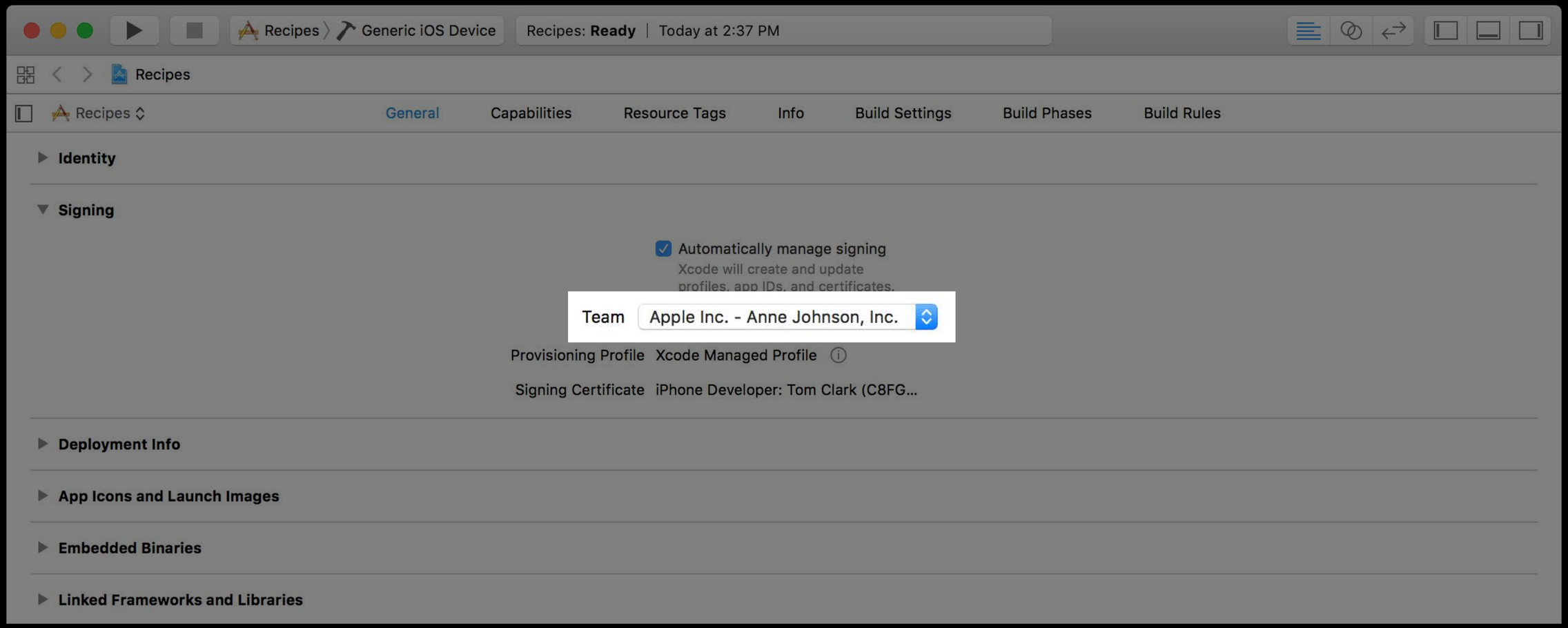
Signing in Xcode

Automatic signing



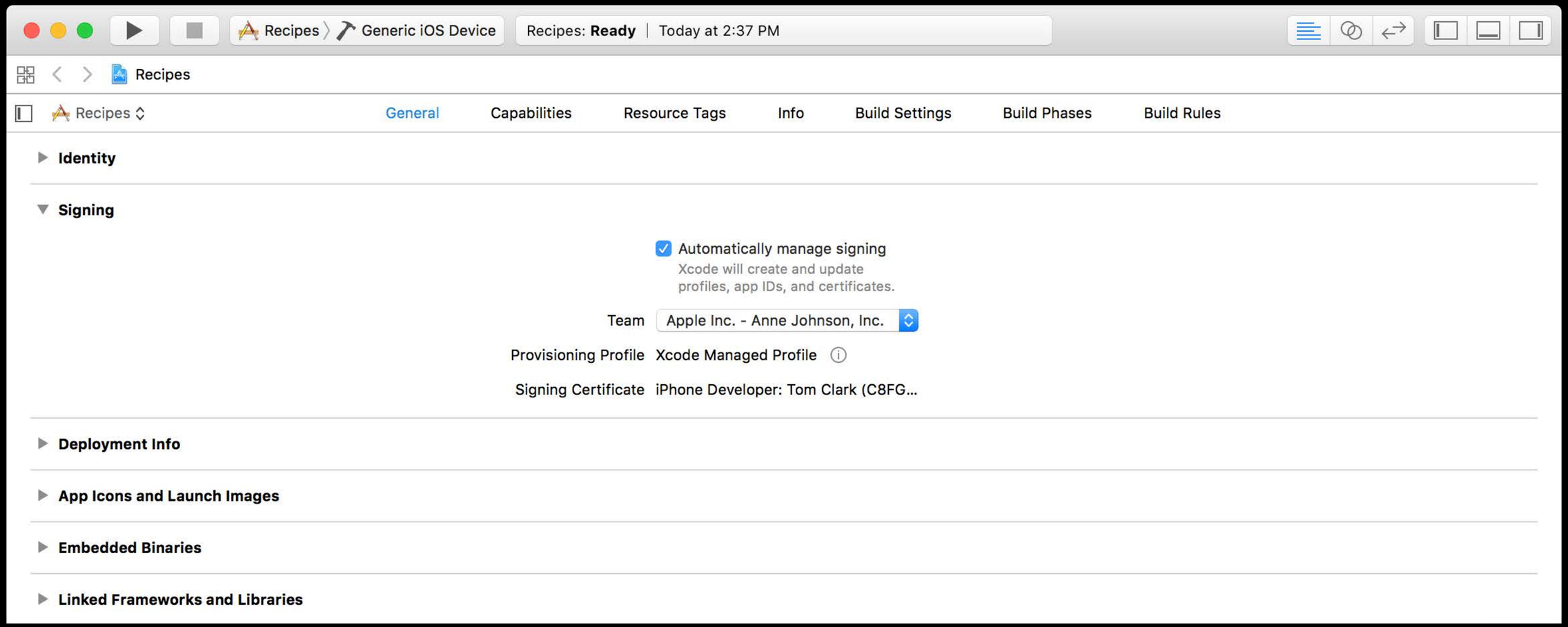
Signing in Xcode

Automatic signing



Signing in Xcode

Automatic signing



Signing in Xcode

Automatic signing

Signing in Xcode

Automatic signing

Creates signing certificates

Signing in Xcode

Automatic signing

Creates signing certificates

Creates and updates App IDs

Signing in Xcode

Automatic signing

Creates signing certificates

Creates and updates App IDs

Creates and updates provisioning profiles

Signing in Xcode

Automatic signing

Signing in Xcode

Automatic signing

Prompts you only when necessary

Signing in Xcode

Automatic signing

Prompts you only when necessary

Signing report shows what Xcode did and why

Demo

Automatic Signing

Signing in Xcode

Automatic signing

Signing in Xcode

Automatic signing

Development signing

Signing in Xcode

Automatic signing

Development signing

Limited to Xcode-created provisioning profiles

Signing in Xcode

Automatic signing

Development signing

Limited to Xcode-created provisioning profiles

Distribution signing assets aren’t touched

Signing in Xcode

Automatic signing

Signing in Xcode

Automatic signing

Completely redesigned in Xcode 8

Signing in Xcode

Automatic signing

Completely redesigned in Xcode 8

Stays out of your way

Signing in Xcode

Automatic signing

Completely redesigned in Xcode 8

Stays out of your way

Manages signing so you can focus on development

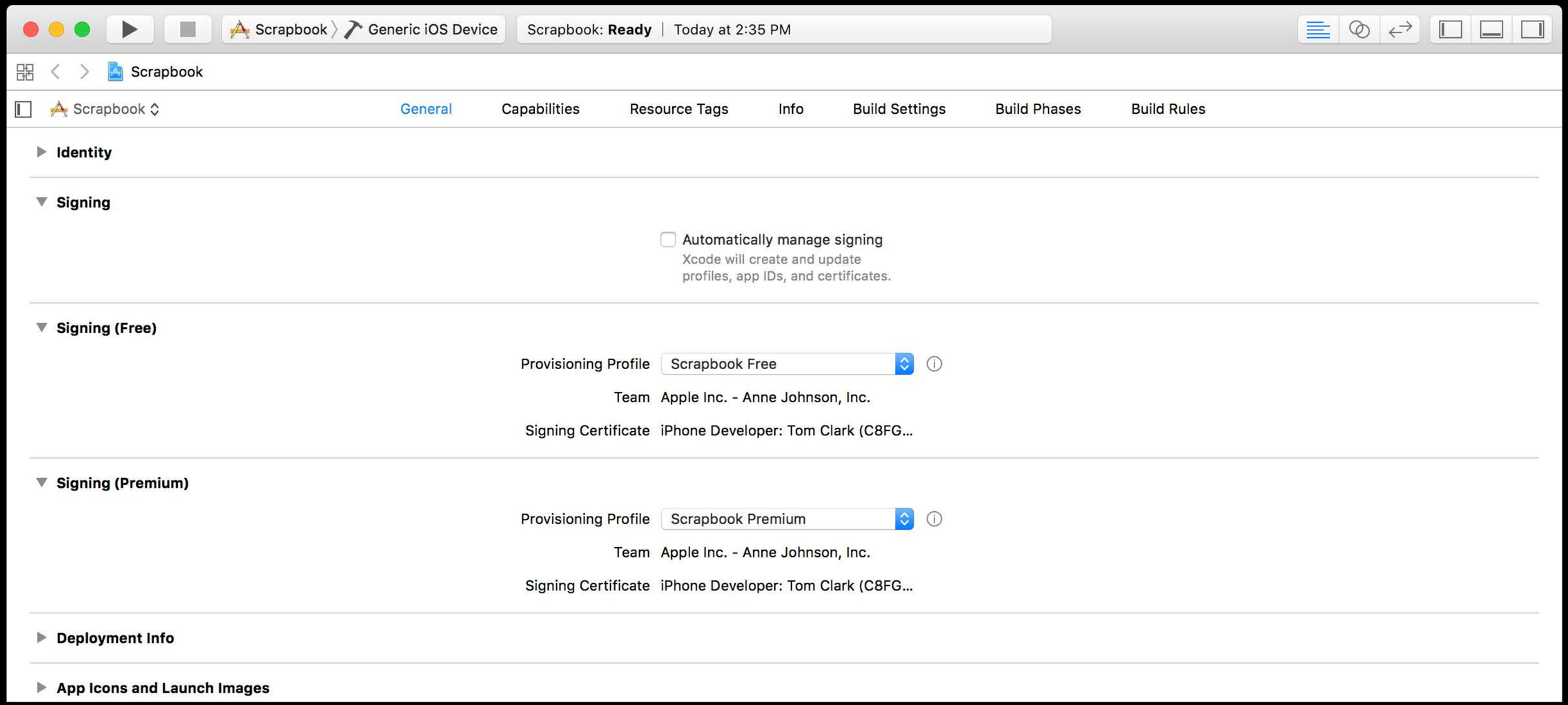
Automatic Signing

Automatic Signing

Customized Signing

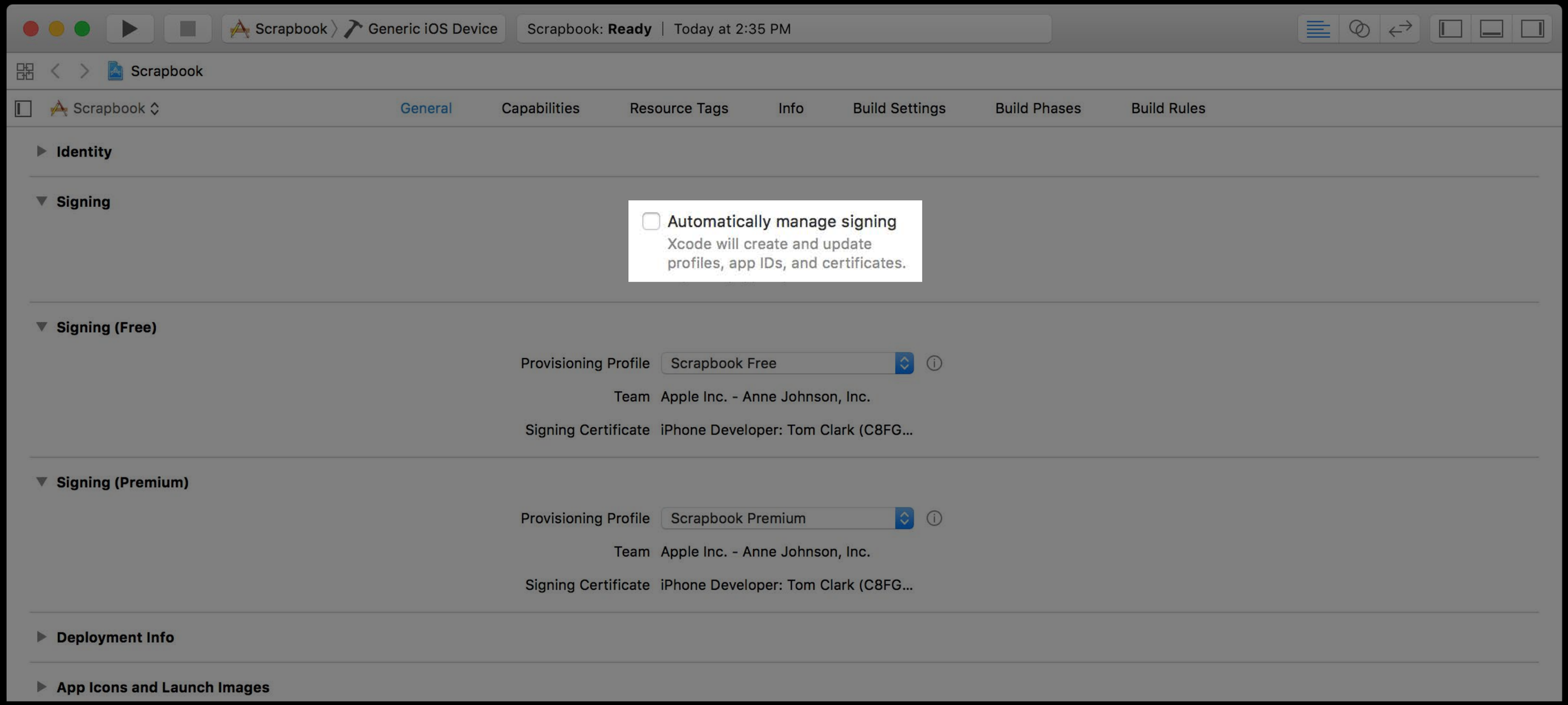
Signing in Xcode

Customized signing



Signing in Xcode

Customized signing



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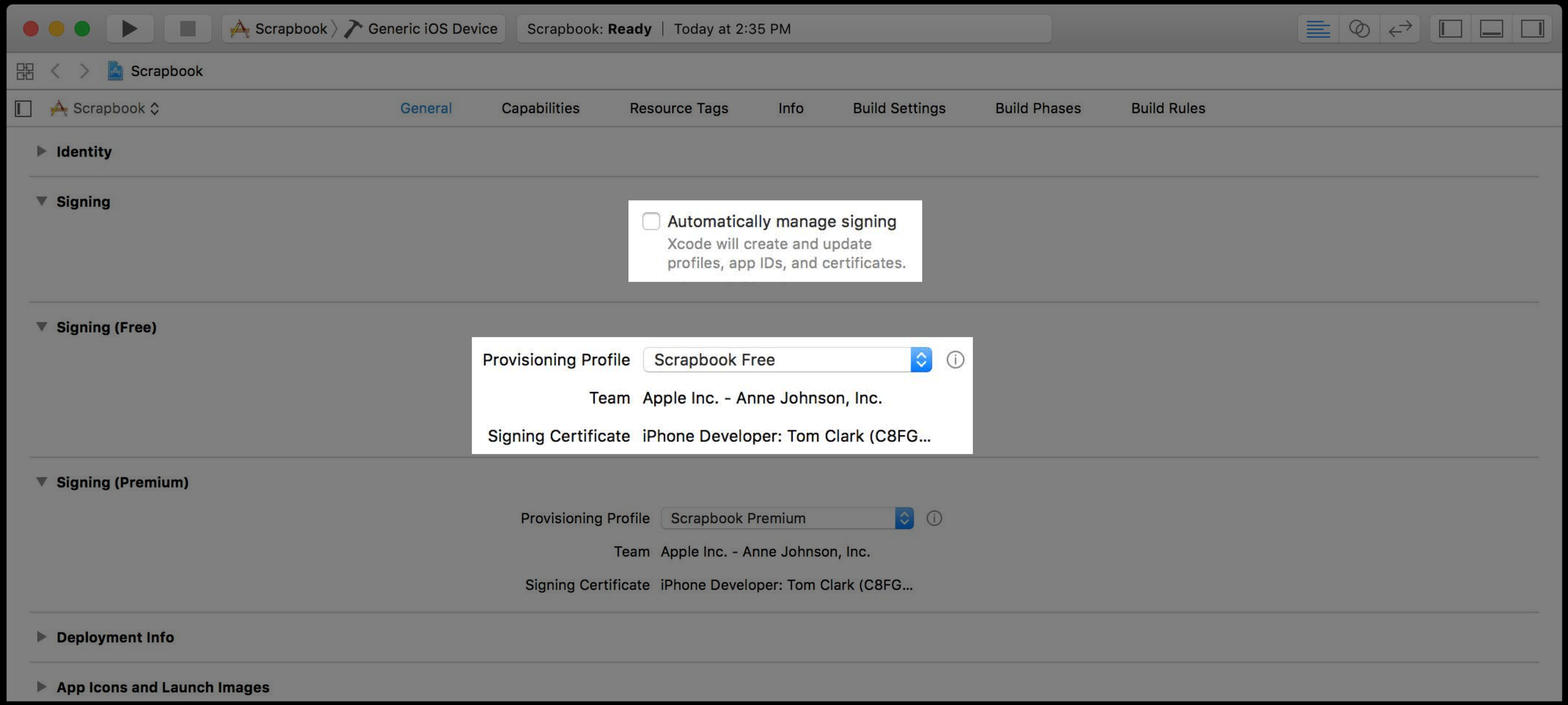
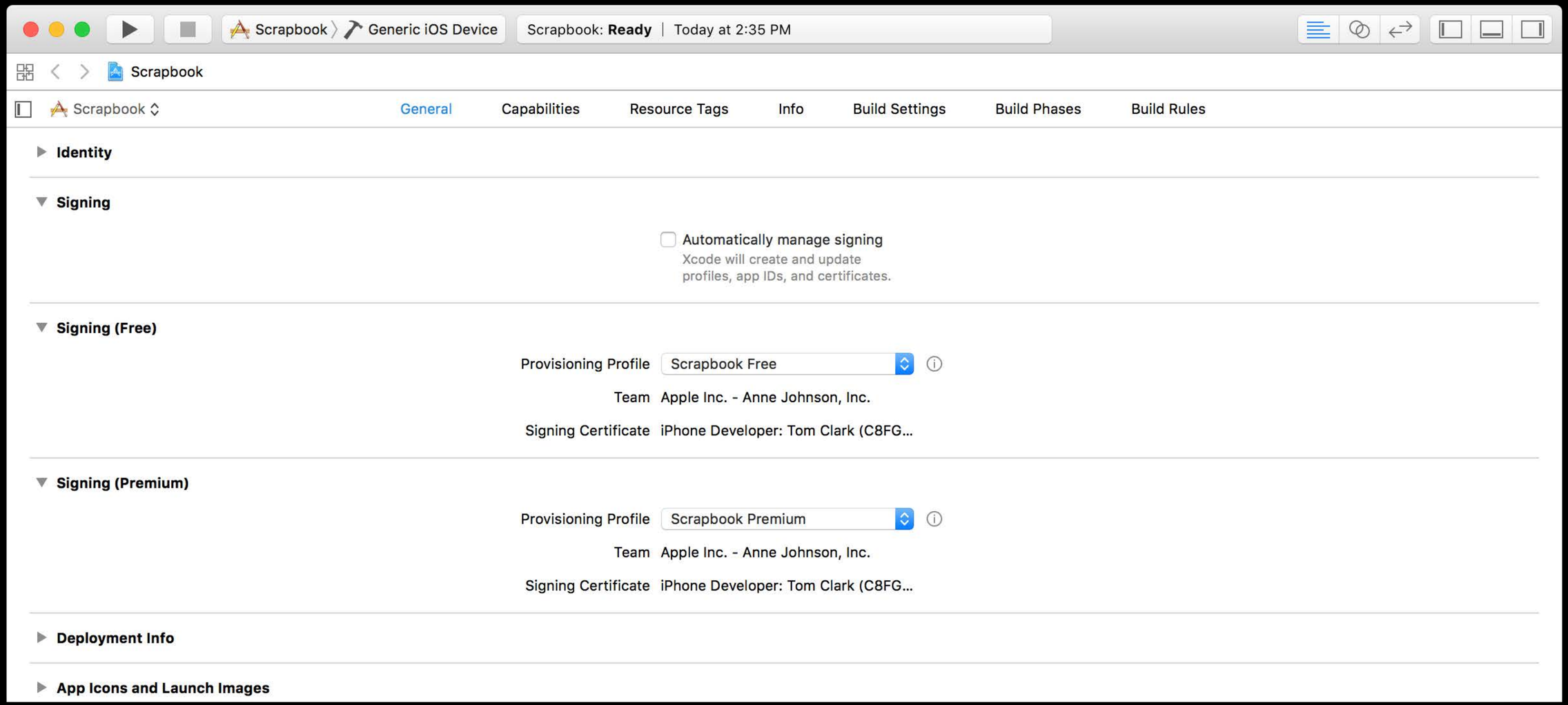


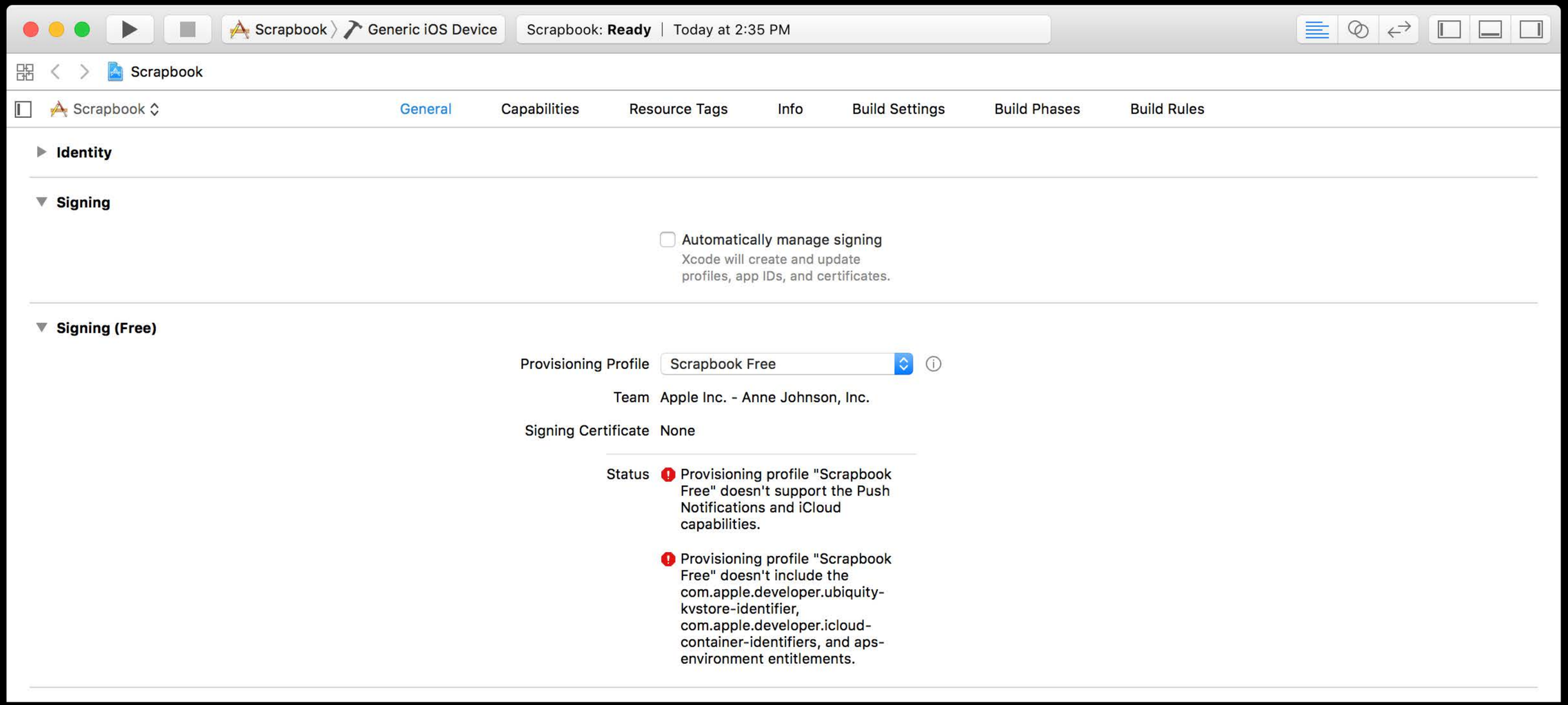
Signing in Xcode

Customized signing



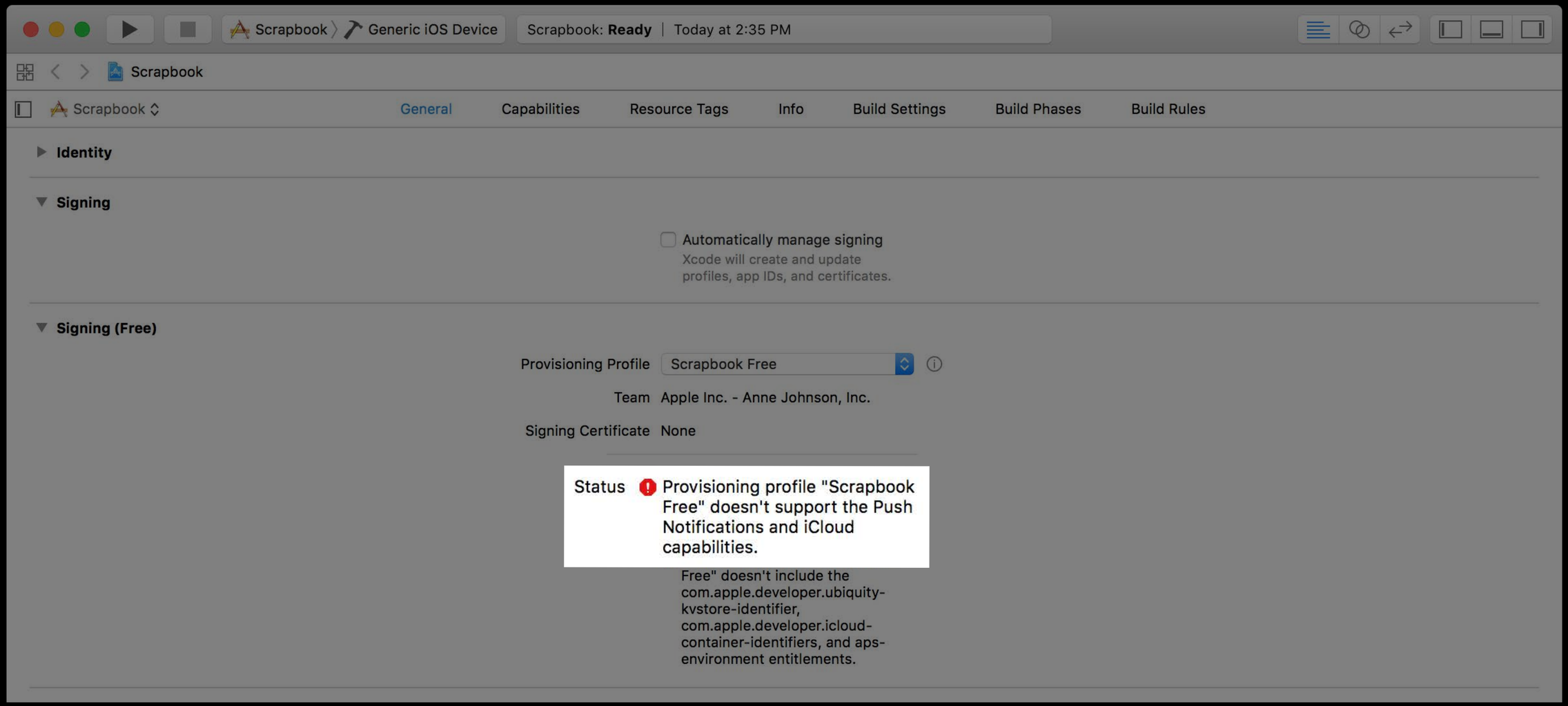
Signing in Xcode

Customized signing



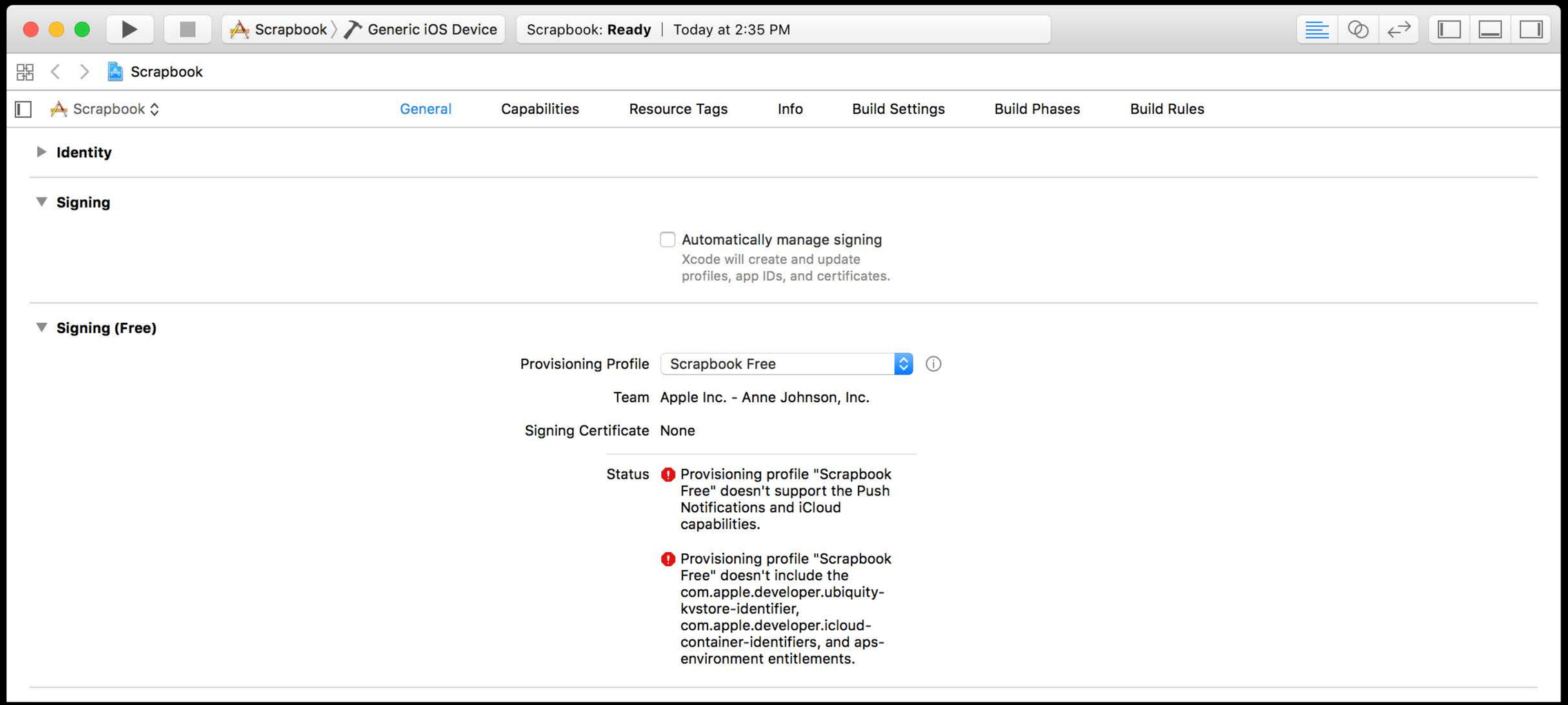
Signing in Xcode

Customized signing



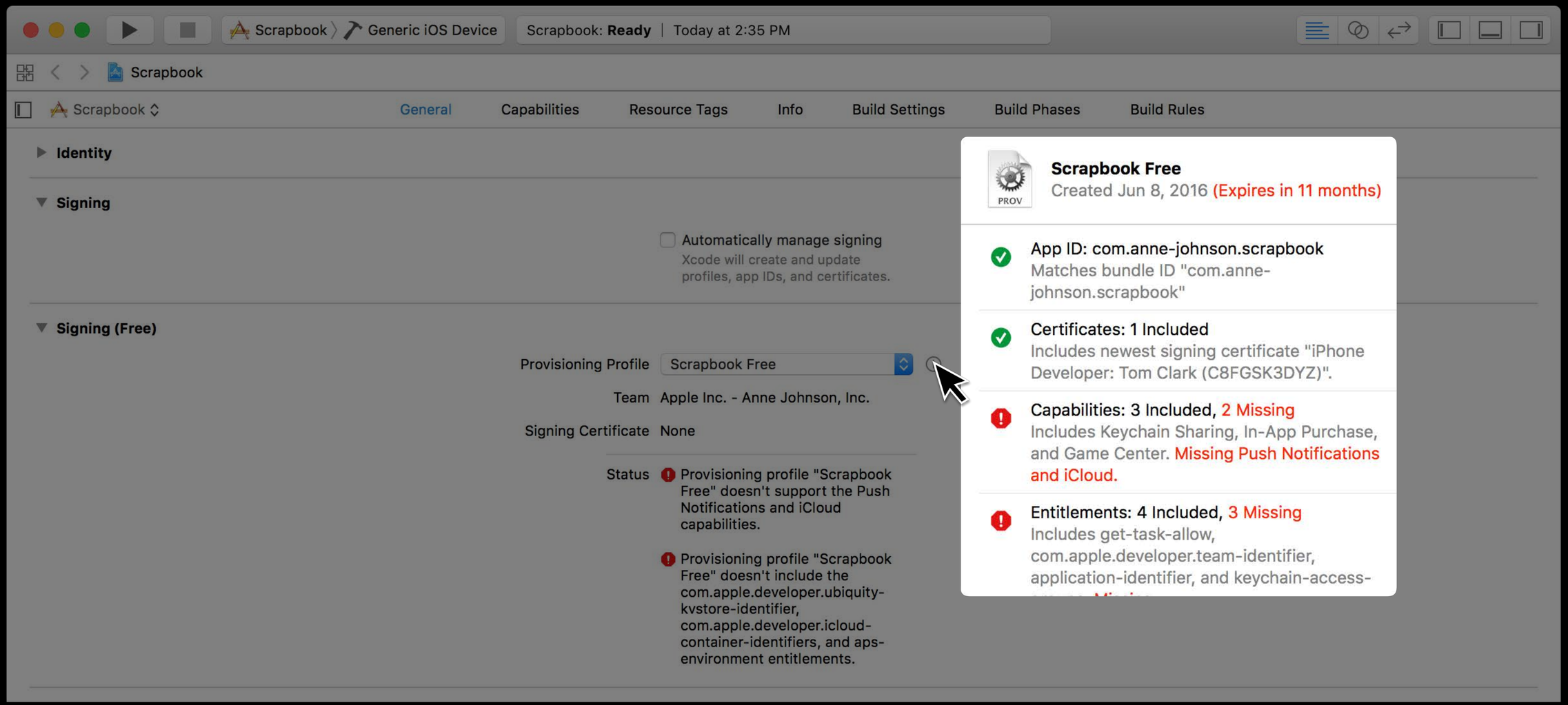
Signing in Xcode

Customized signing



Signing in Xcode

Customized signing



Signing in Xcode

Customized signing

Signing in Xcode

Customized signing

Manually created profiles only

Signing in Xcode

Customized signing

Manually created profiles only

Any type of profile

Signing in Xcode

Customized signing

Signing in Xcode

Customized signing

New build setting, PROVISIONING_PROFILE_SPECIFIER

Signing in Xcode

Customized signing

New build setting, PROVISIONING_PROFILE_SPECIFIER

References profiles by name

Signing in Xcode

Customized signing

New build setting, PROVISIONING_PROFILE_SPECIFIER

References profiles by name

Update profiles without making project changes

Demo

Customized Signing

Customized Signing

Customized Signing

Automatic Signing

Best Practices

Best Practices

Development

Best Practices

Development

Use automatic

Best Practices

Development

Use automatic

Add all developers to team

Best Practices

Development

Use automatic

Add all developers to team

Use the capabilities tab

Best Practices

Manual

Best Practices

Manual

Don’t set CODE_SIGN_IDENTITY

Best Practices

Manual

Don’t set CODE_SIGN_IDENTITY

Use the new general tab UI

Best Practices

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Don’t set CODE_SIGN_IDENTITY

Use the new general tab UI

Use the capabilities tab

Best Practices

Manual

Don’t set CODE_SIGN_IDENTITY

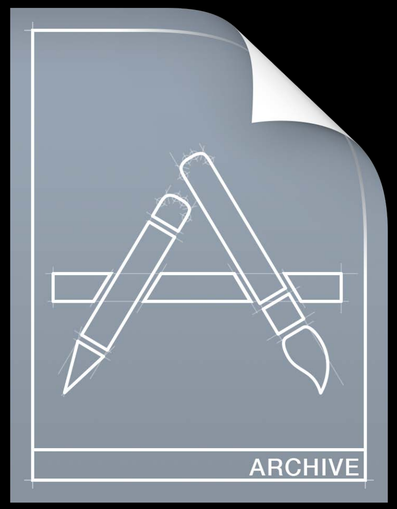
Use the new general tab UI

Use the capabilities tab

Migrate to automatic

Best Practices

Distribution



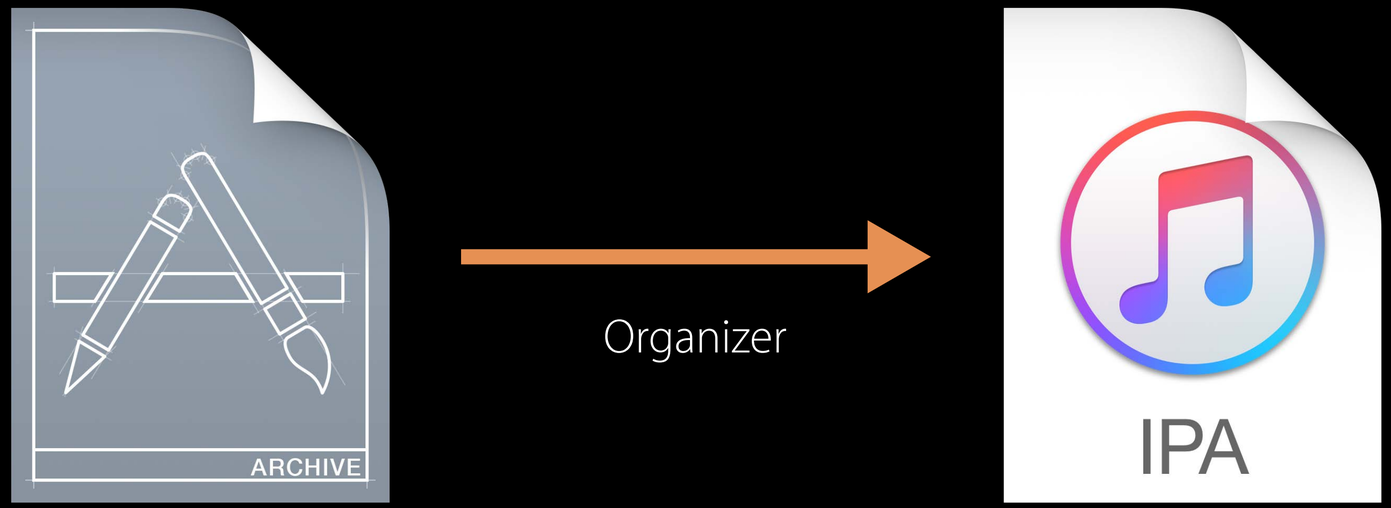
Best Practices

Distribution

Development

Best Practices

Distribution



Development

Distribution

Summary

Multiple development certificates

Xcode 8 automatically manages signing

Dedicated customized signing mode

More Information

https://developer.apple.com/wwdc16/401

Related Sessions

How iOS Security Really Works	Nob Hill	Tuesday 4:00PM
What's New in Security	Nob Hill	Tuesday 5:00PM
Introduction to Xcode	Pacific Heights	Thursday 1:40PM

Labs

Signing and Distributing Your App with Xcode	Developer Tools Lab C	Tuesday 12:00PM
Signing and Distributing Your App with Xcode	Developer Tools Lab C	Wednesday 3:00PM

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