Distributing Enterprise Apps

Session 705
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iOS Software Engineer

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Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

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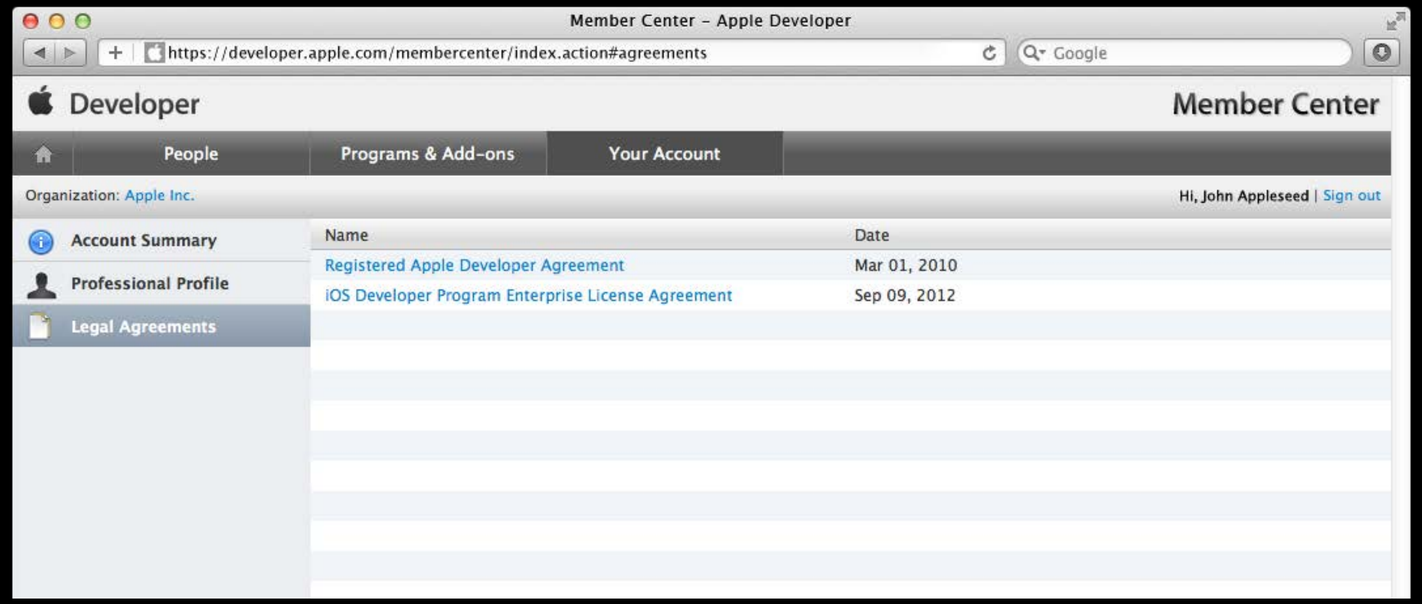
App Distribution Strategy

Custom B2B

Getting Started

Getting Started

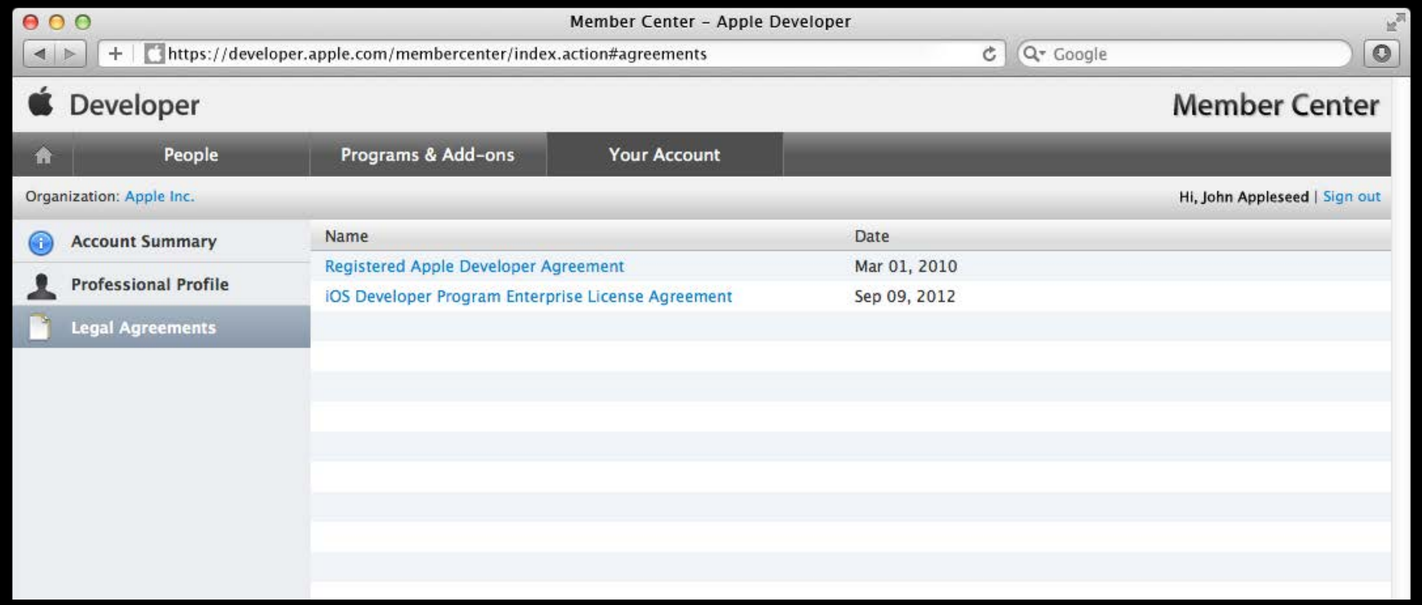
Enterprise account



Getting Started

Enterprise account

No minimum company size

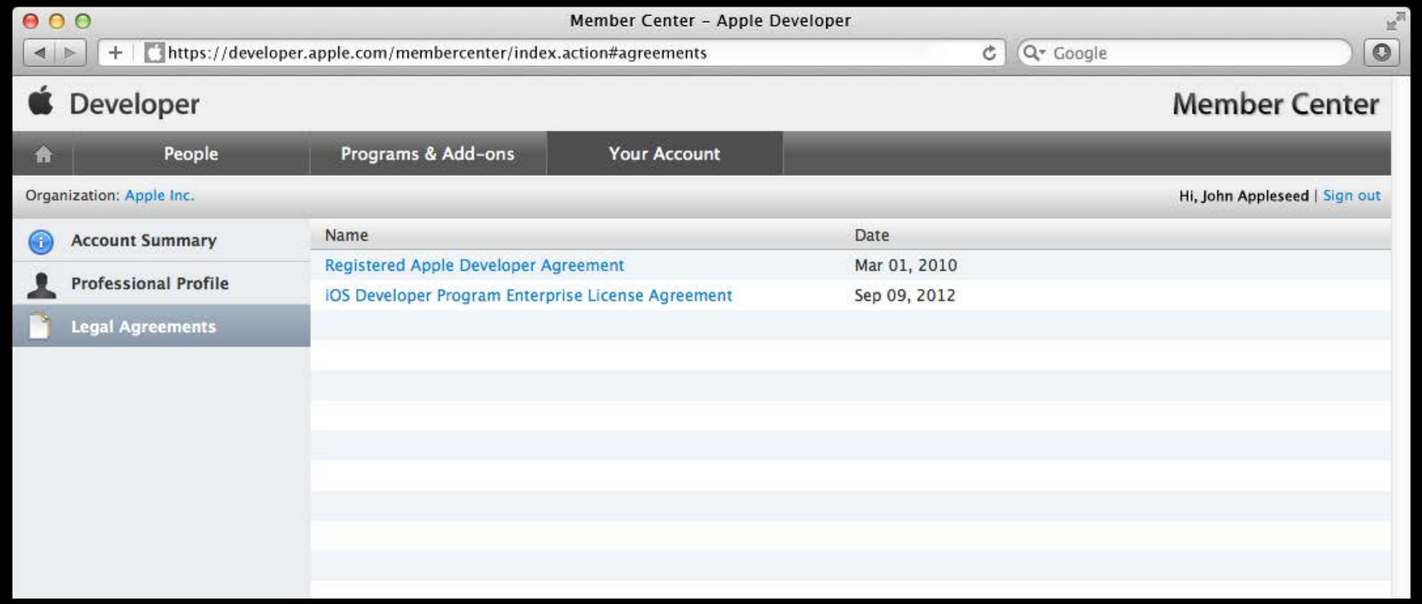


Getting Started

Enterprise account

No minimum company size

D-U-N-S number



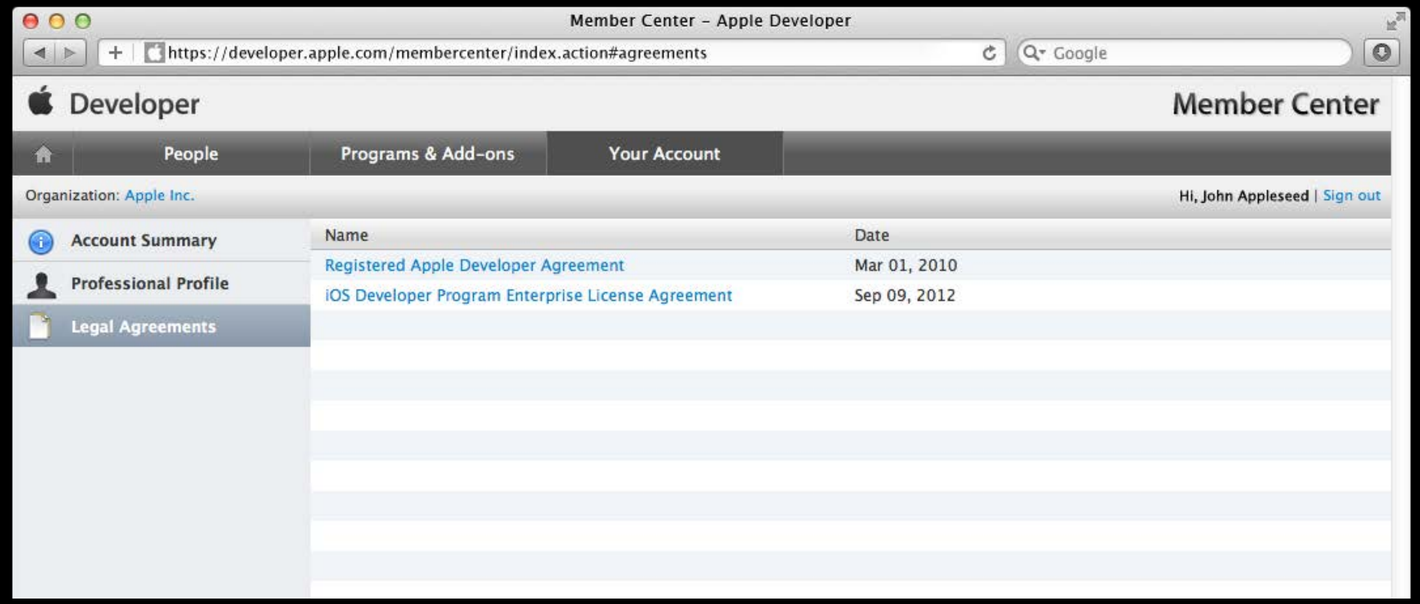
Getting Started

Enterprise account

No minimum company size

D-U-N-S number

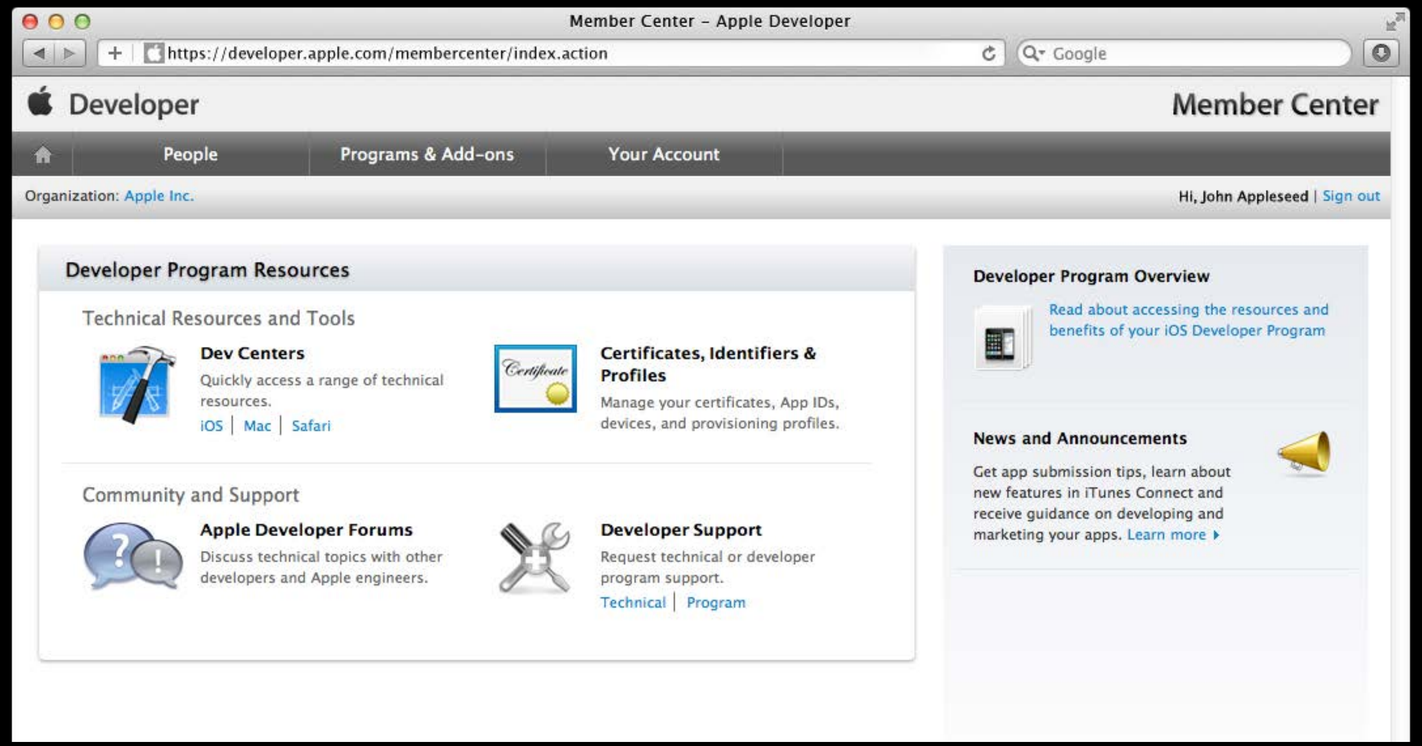
$299 a year



Getting Started

Agent account

Add Admins and Team Members



Roles

Roles

Agent accepts legal terms

Roles

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Admins manage team members, prepare apps for distribution

Roles

Agent accepts legal terms

Admins manage team members, prepare apps for distribution

Team members develop and test code

Roles

Agent accepts legal terms

Admins manage team members, prepare apps for distribution

Employees

Team members develop and test code

Roles

Agent accepts legal terms Admins manage team members, prepare apps for distribution	Employees
Team members develop and test code	Employees or Contractors

Admins

Add and remove team members

Create App IDs

Request Push Certificates

Add devices to team development provisioning profile

Manage distribution code signing certificate

Create distribution provisioning profiles

Package apps for distribution

Team Members

Have personal code signing certificates

Use team development provisioning profile to debug

Create Ad-Hoc distributions

Contractors

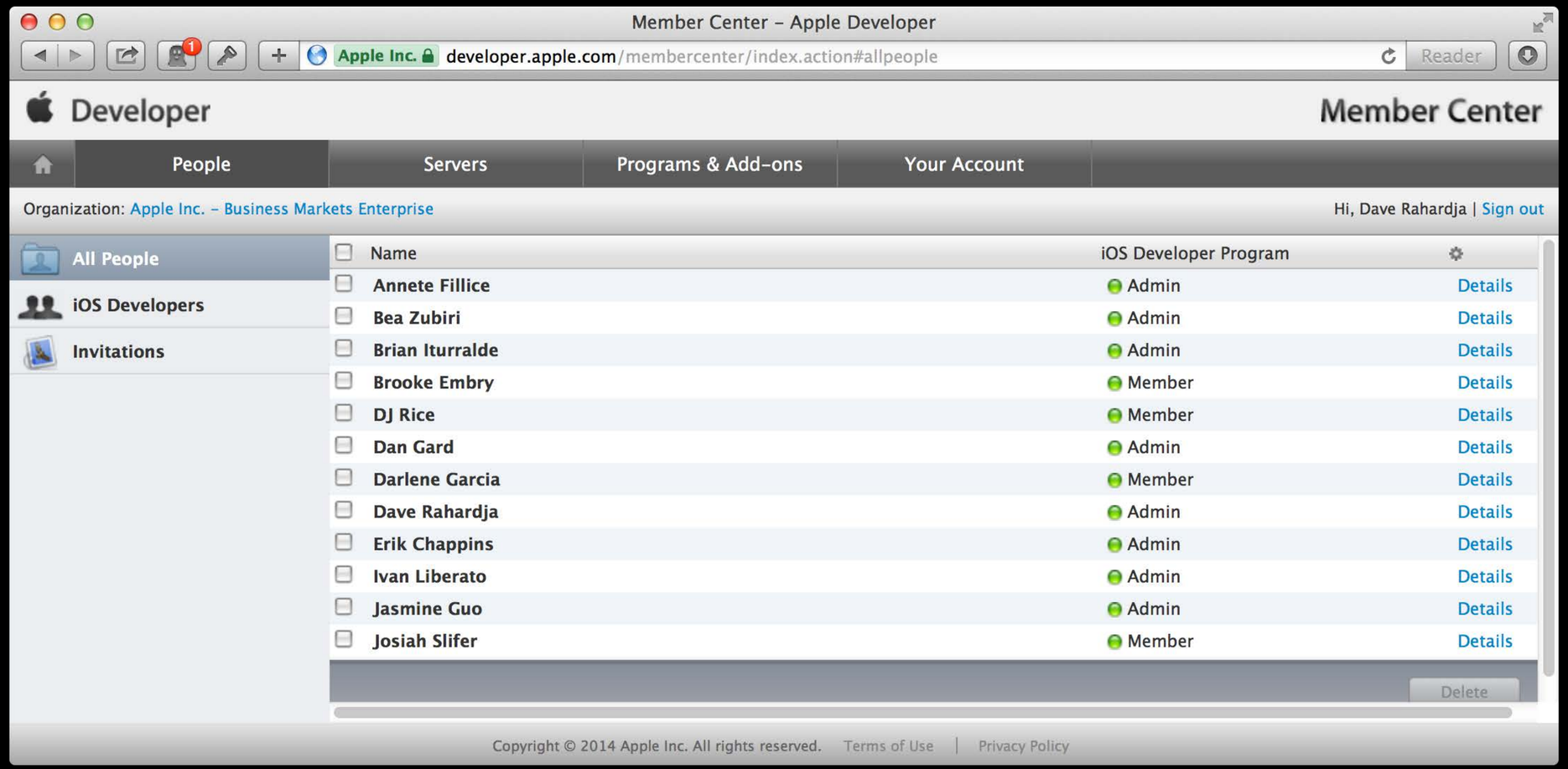
Contractors are Team Members

Invite them using their email address

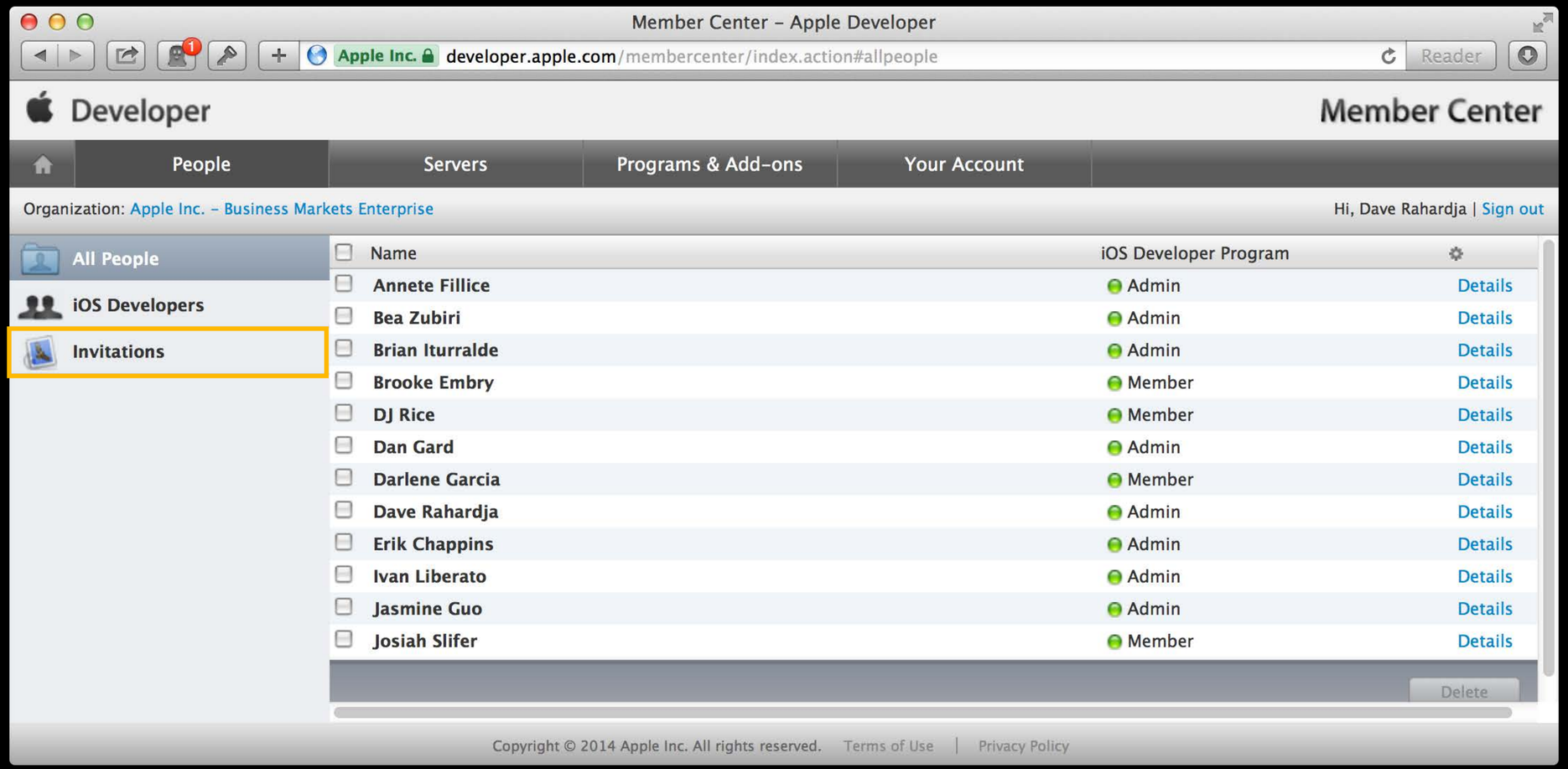
Get their own code signing certificate

Remove contractors from team when they leave

Invite Team Member



Invite Team Member



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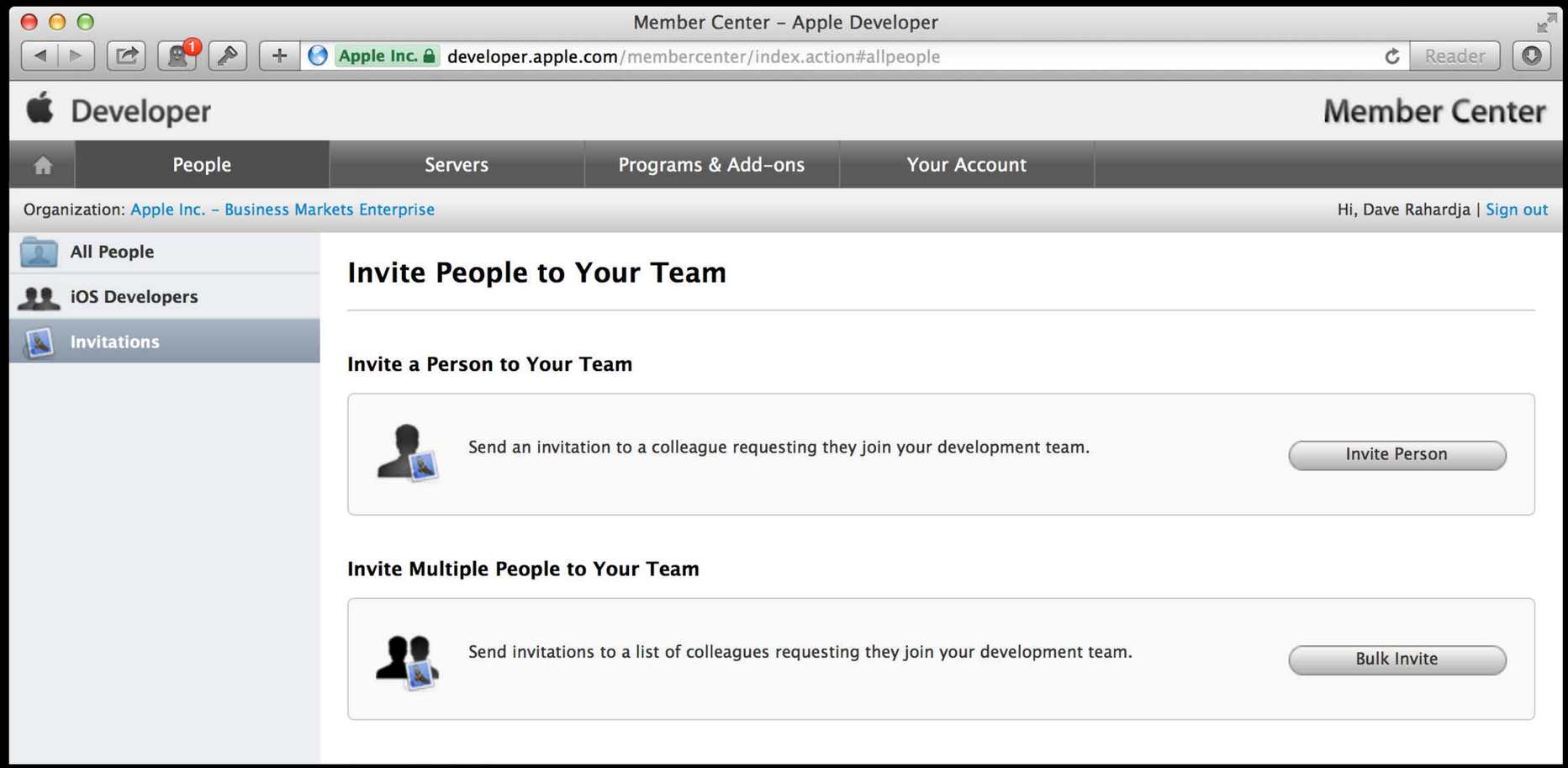

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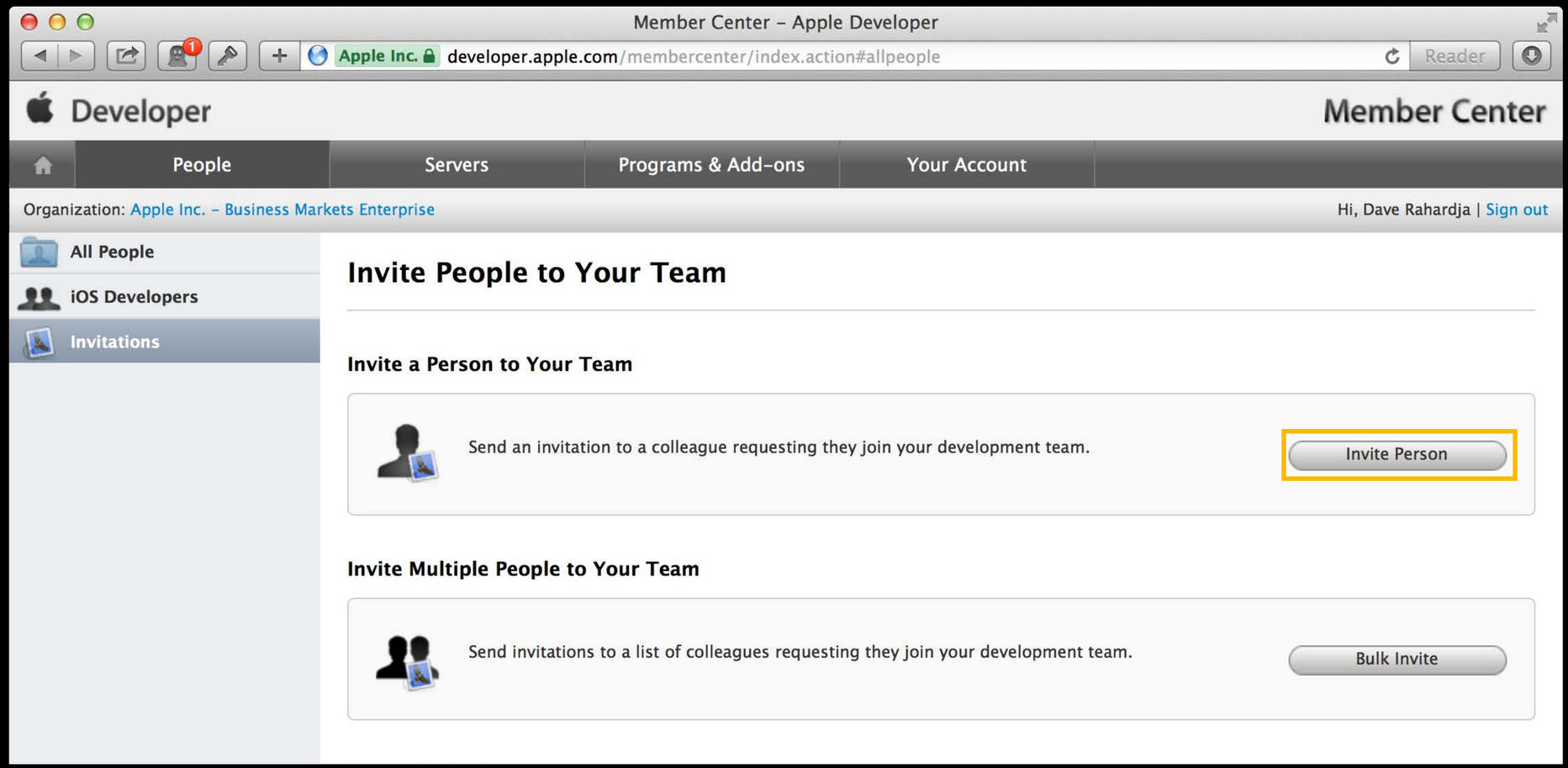

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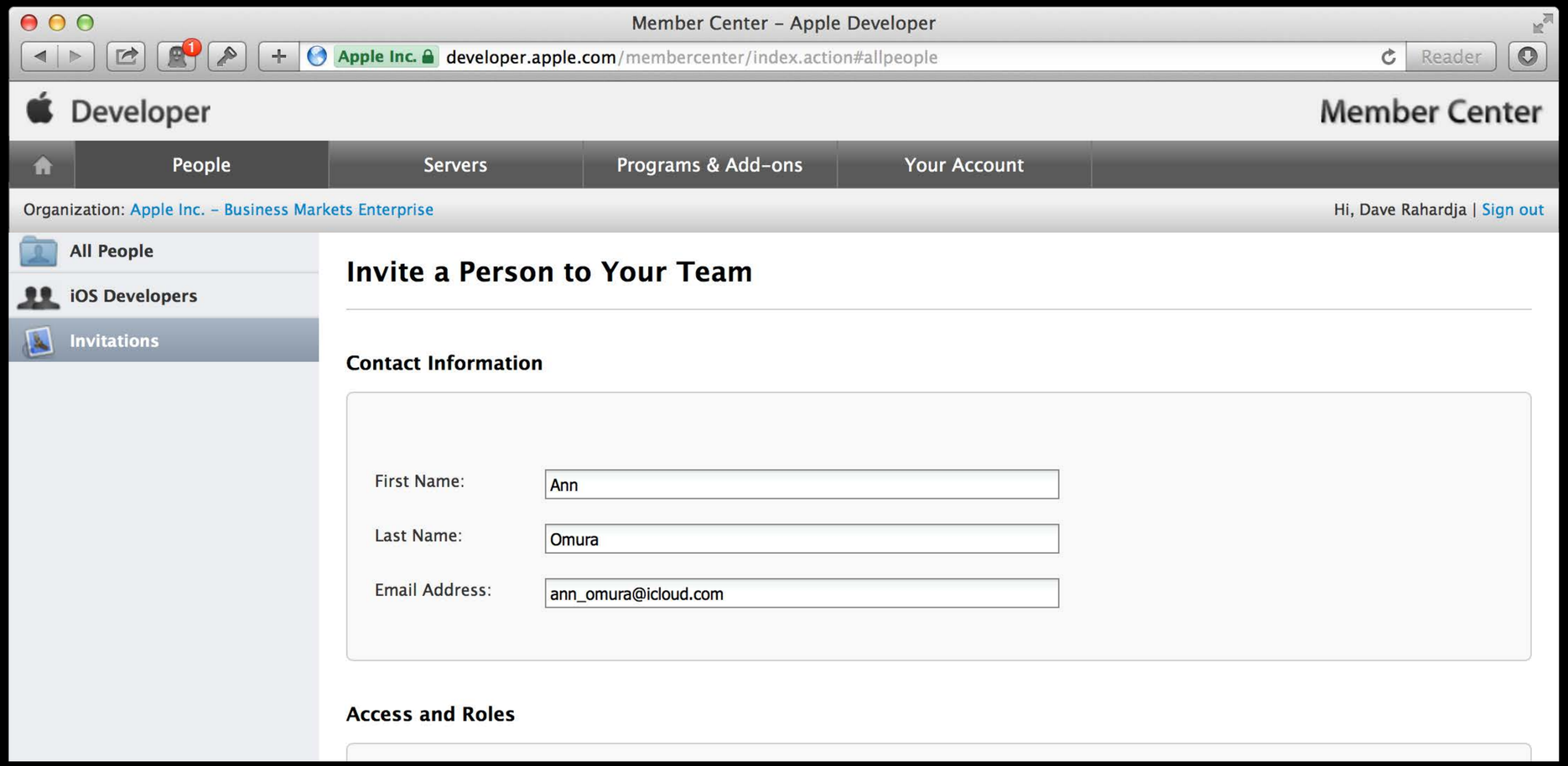
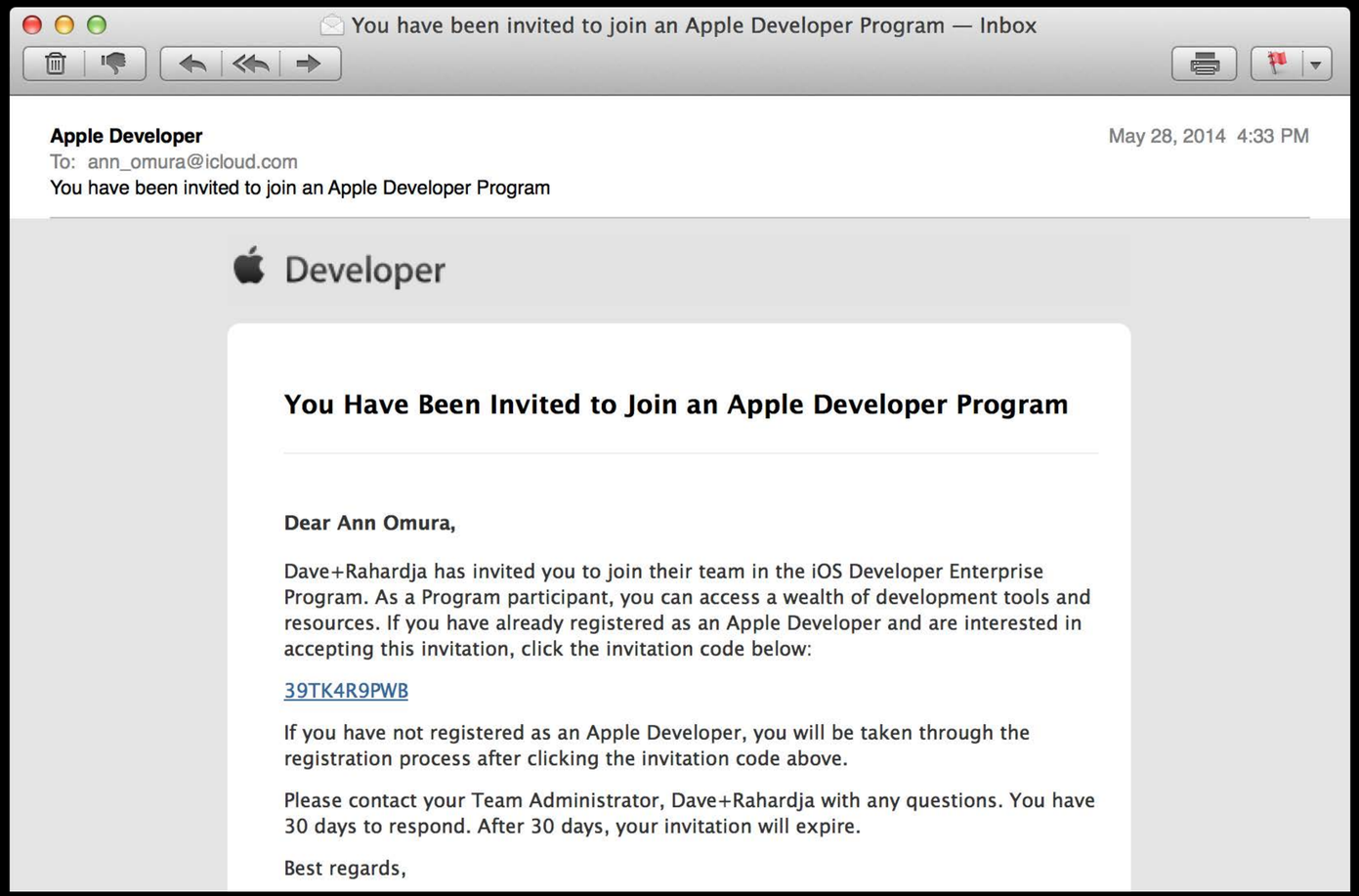


Accept Invitation



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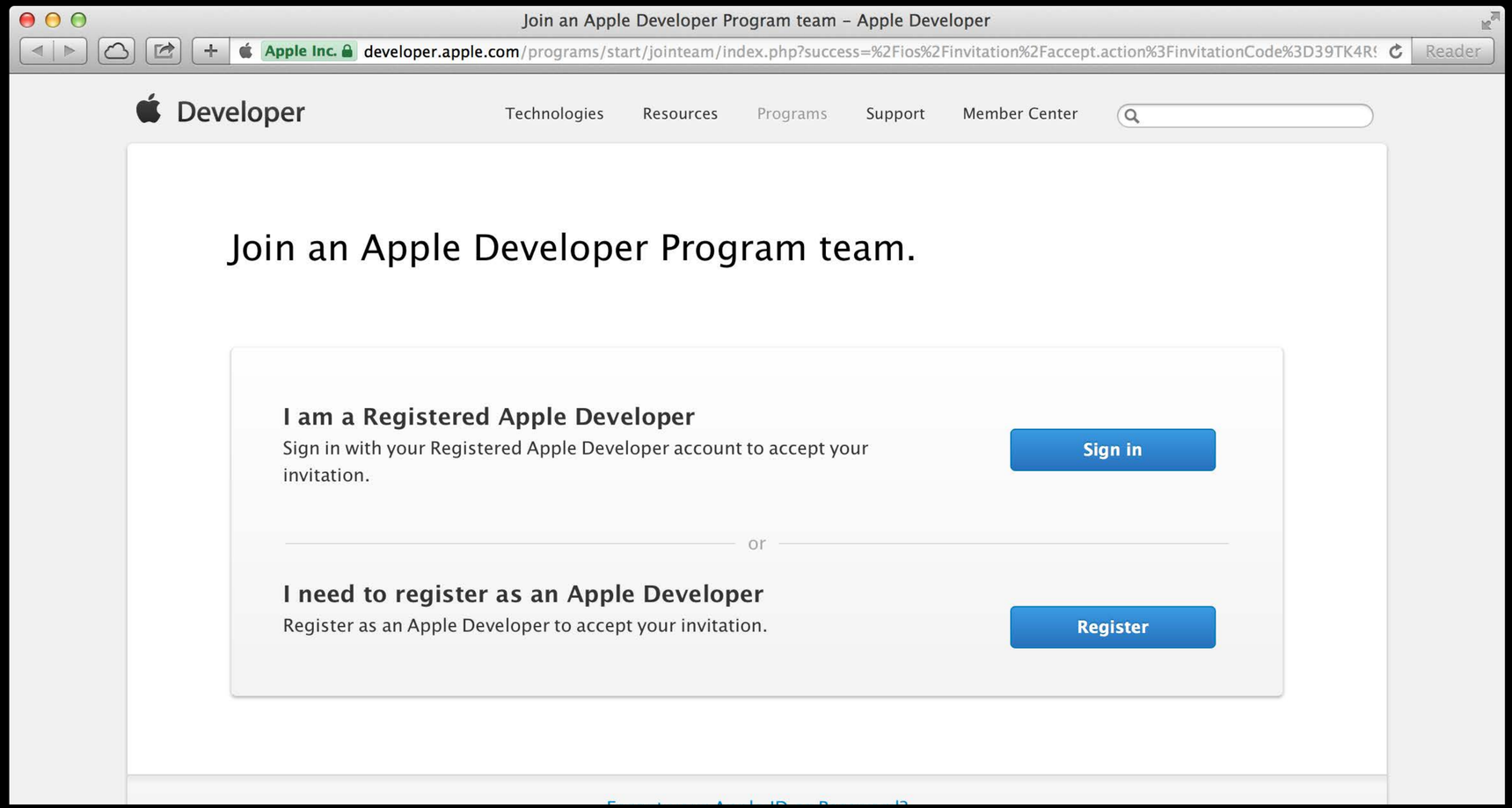

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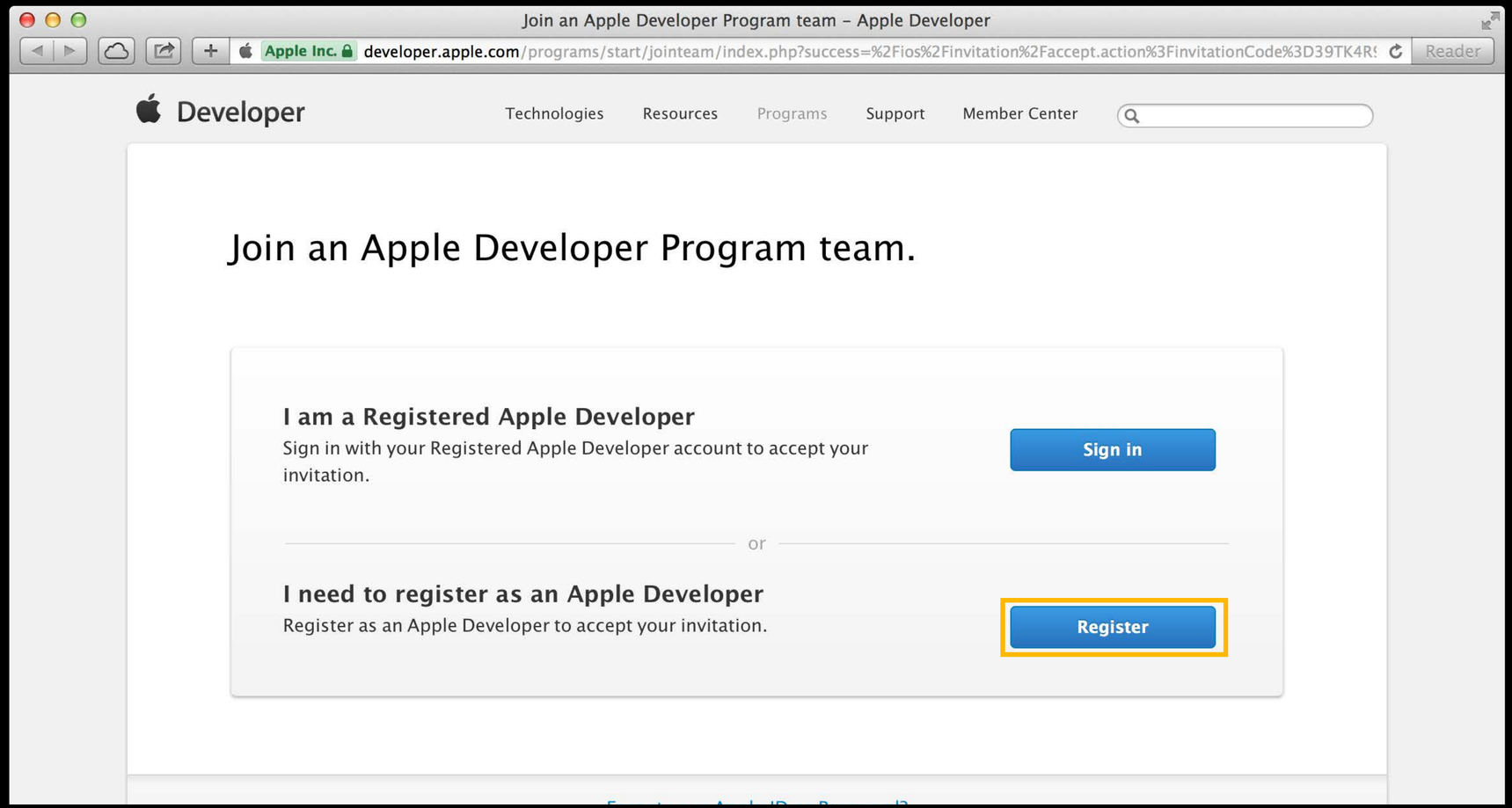
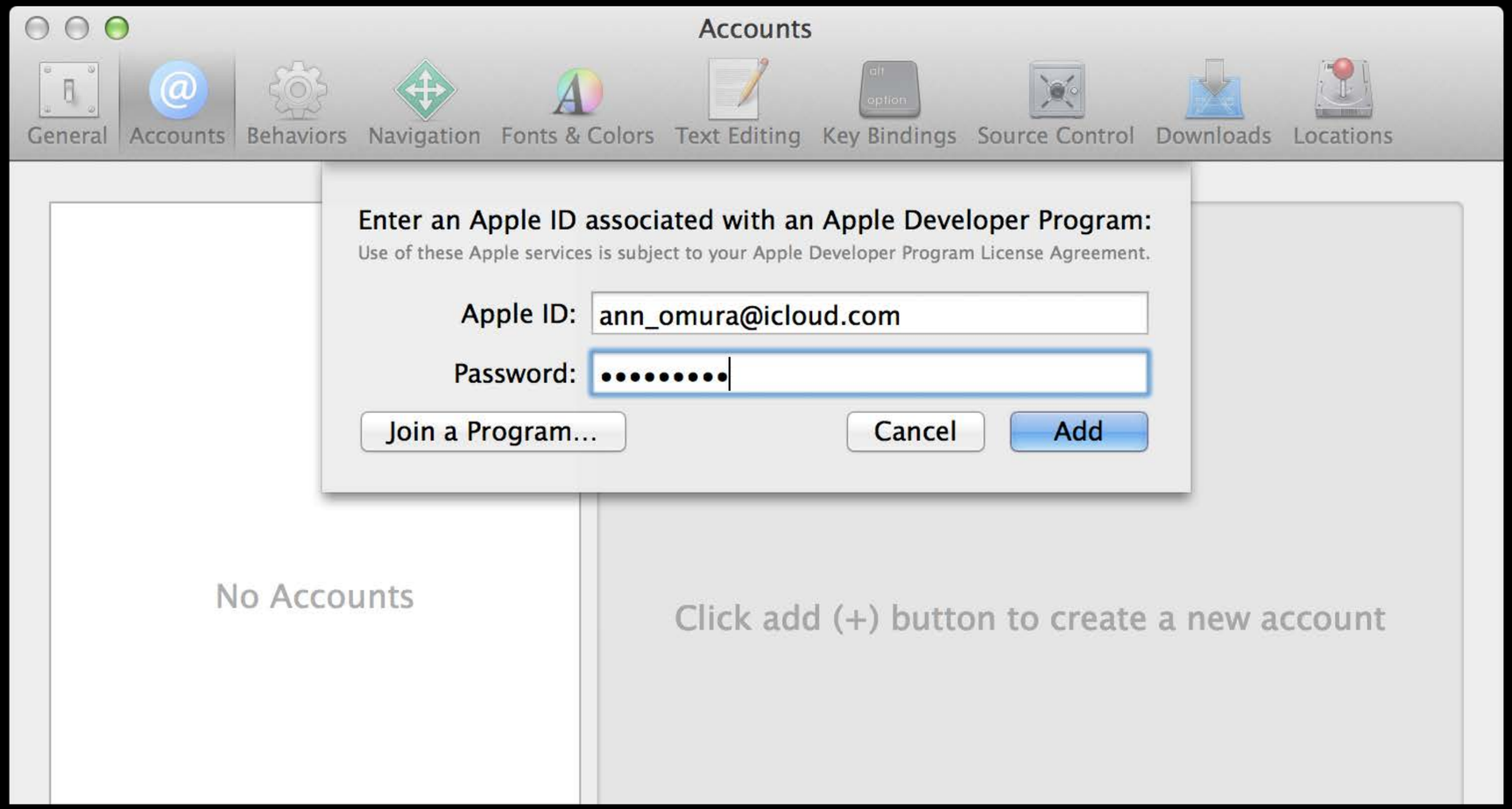
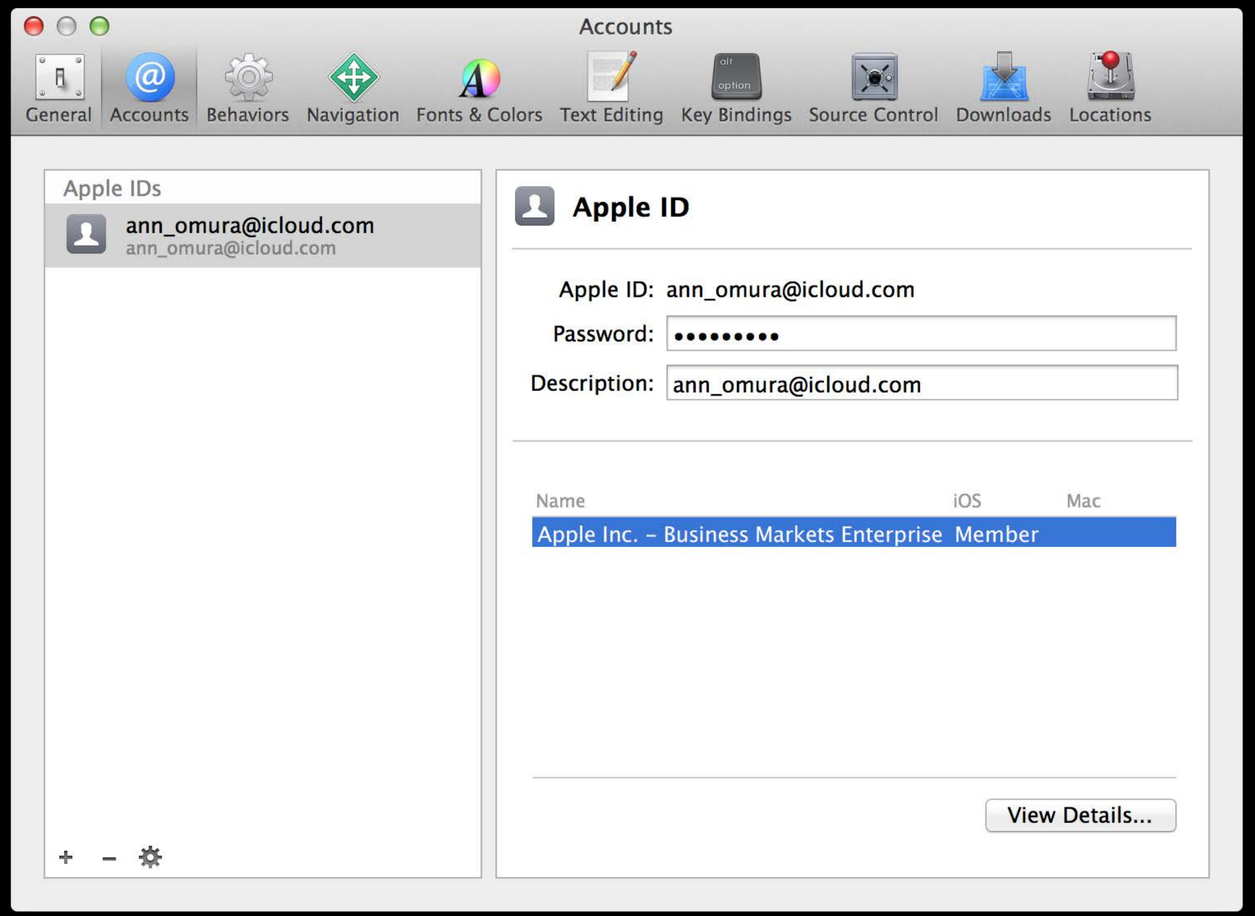


Add Account to Xcode



Request Code Signing Certificate



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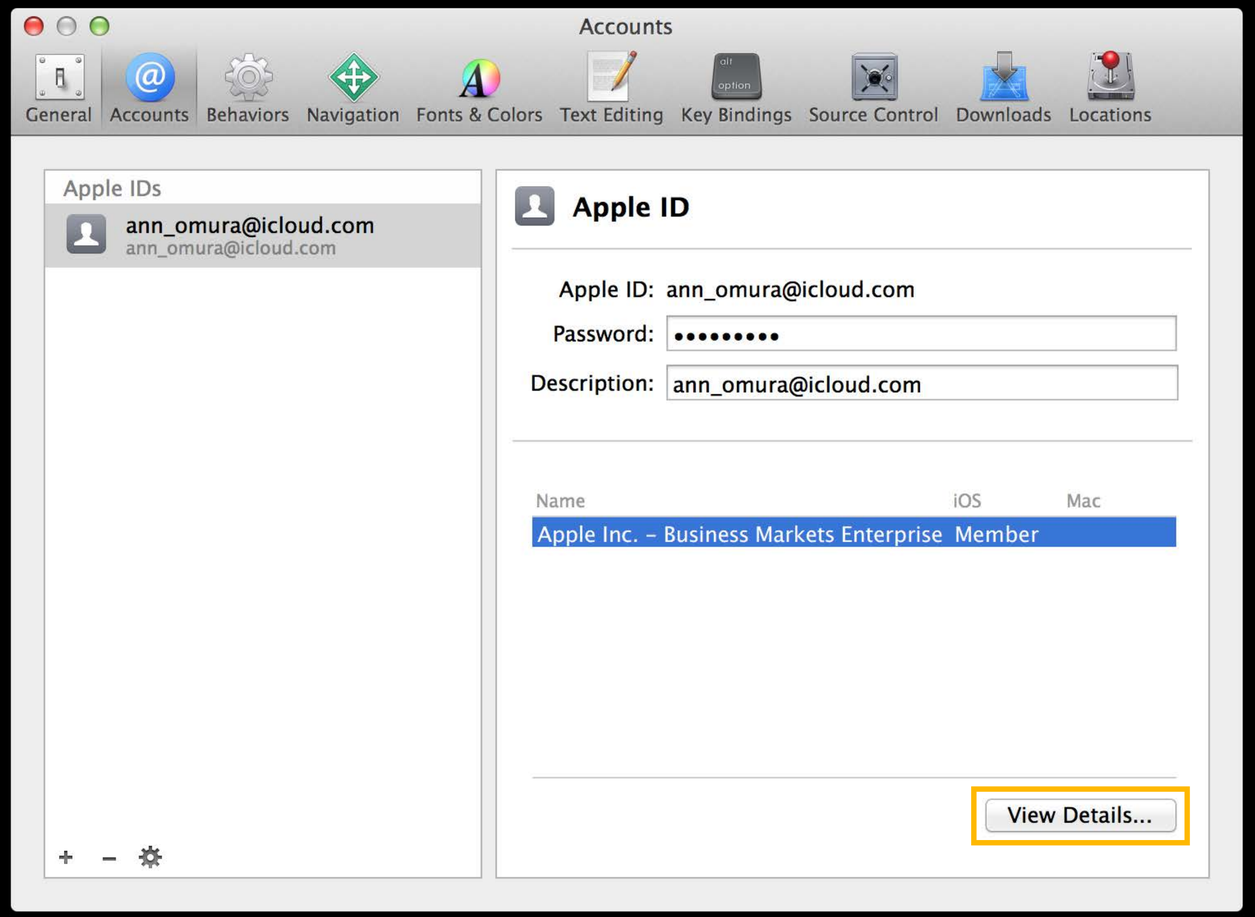

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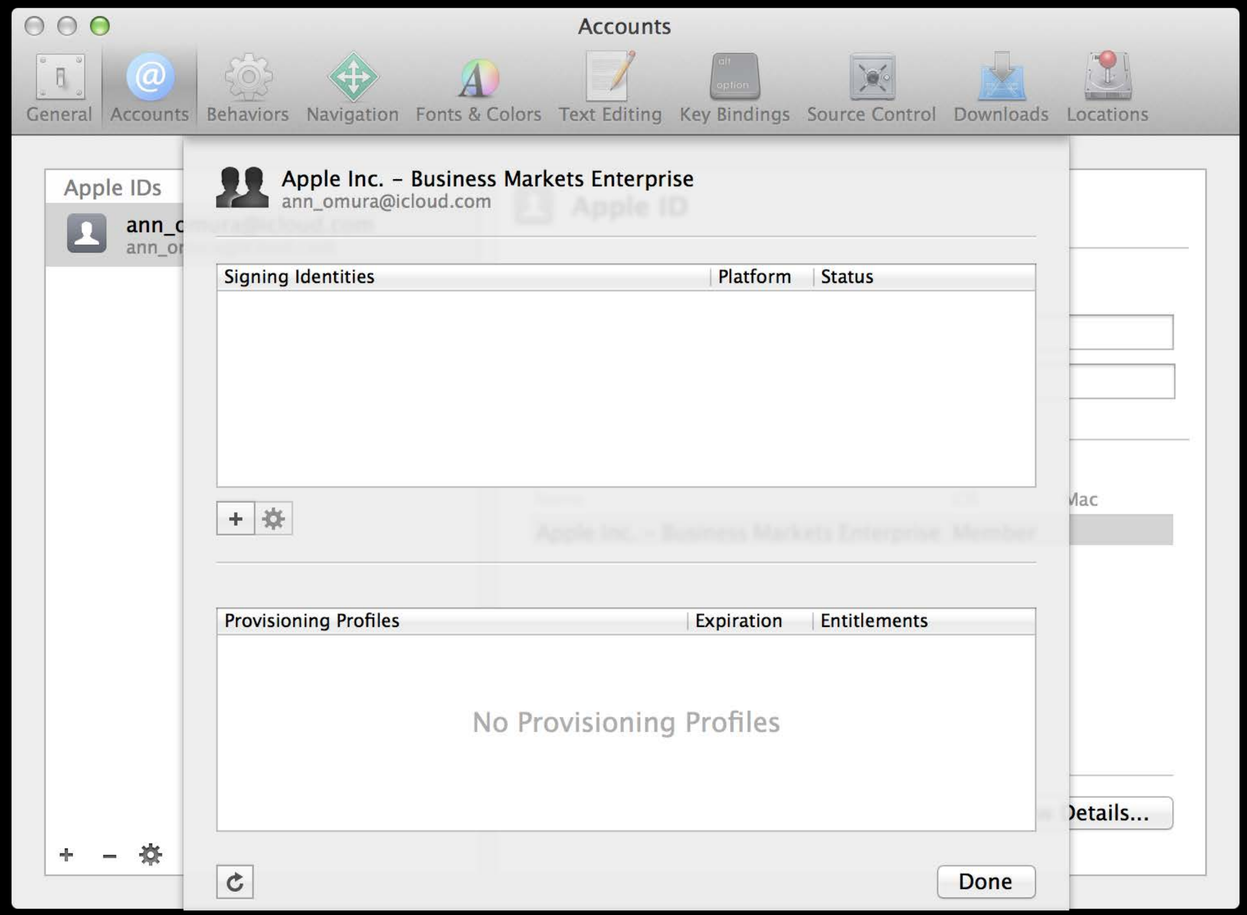

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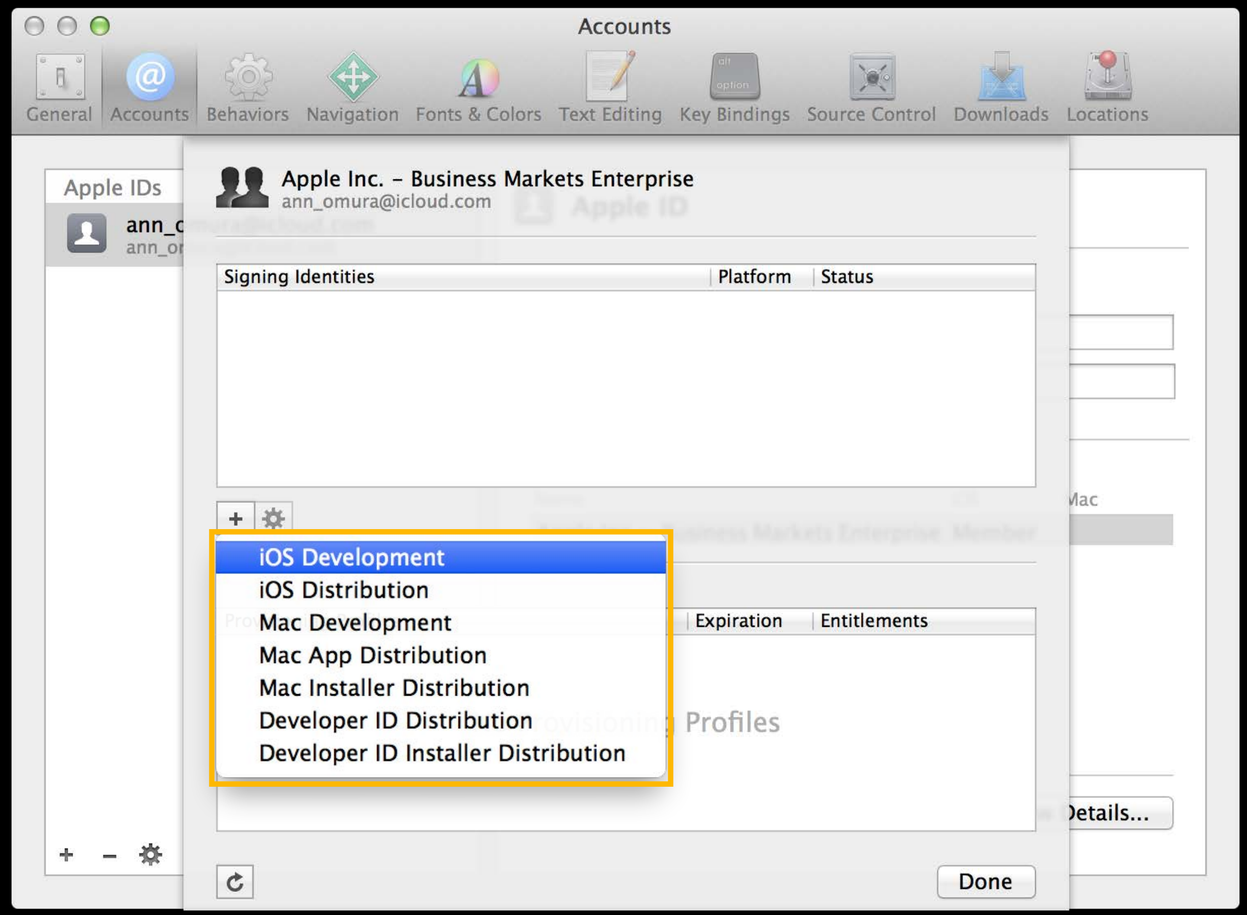
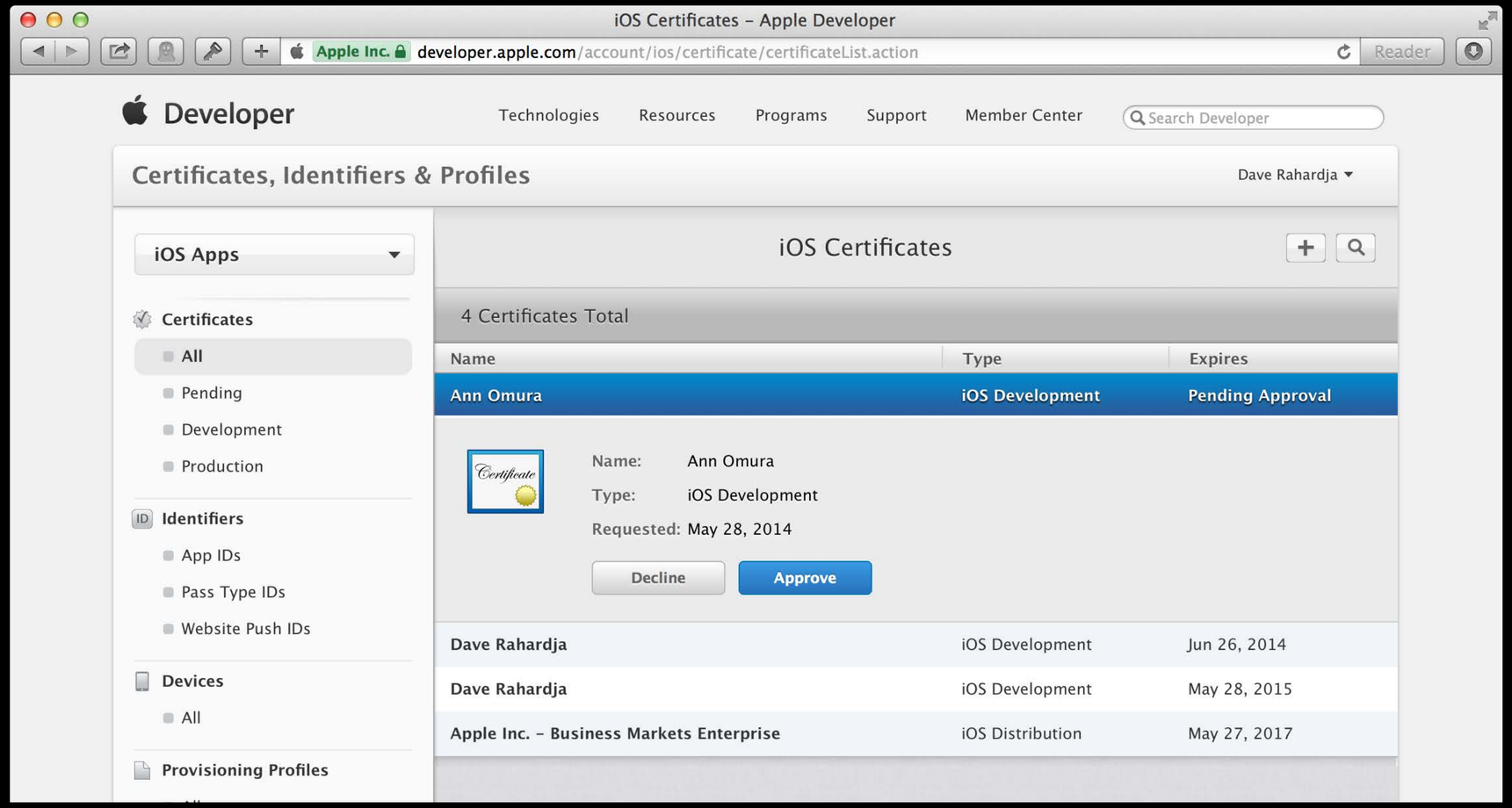


Approve Code Signing Certificate



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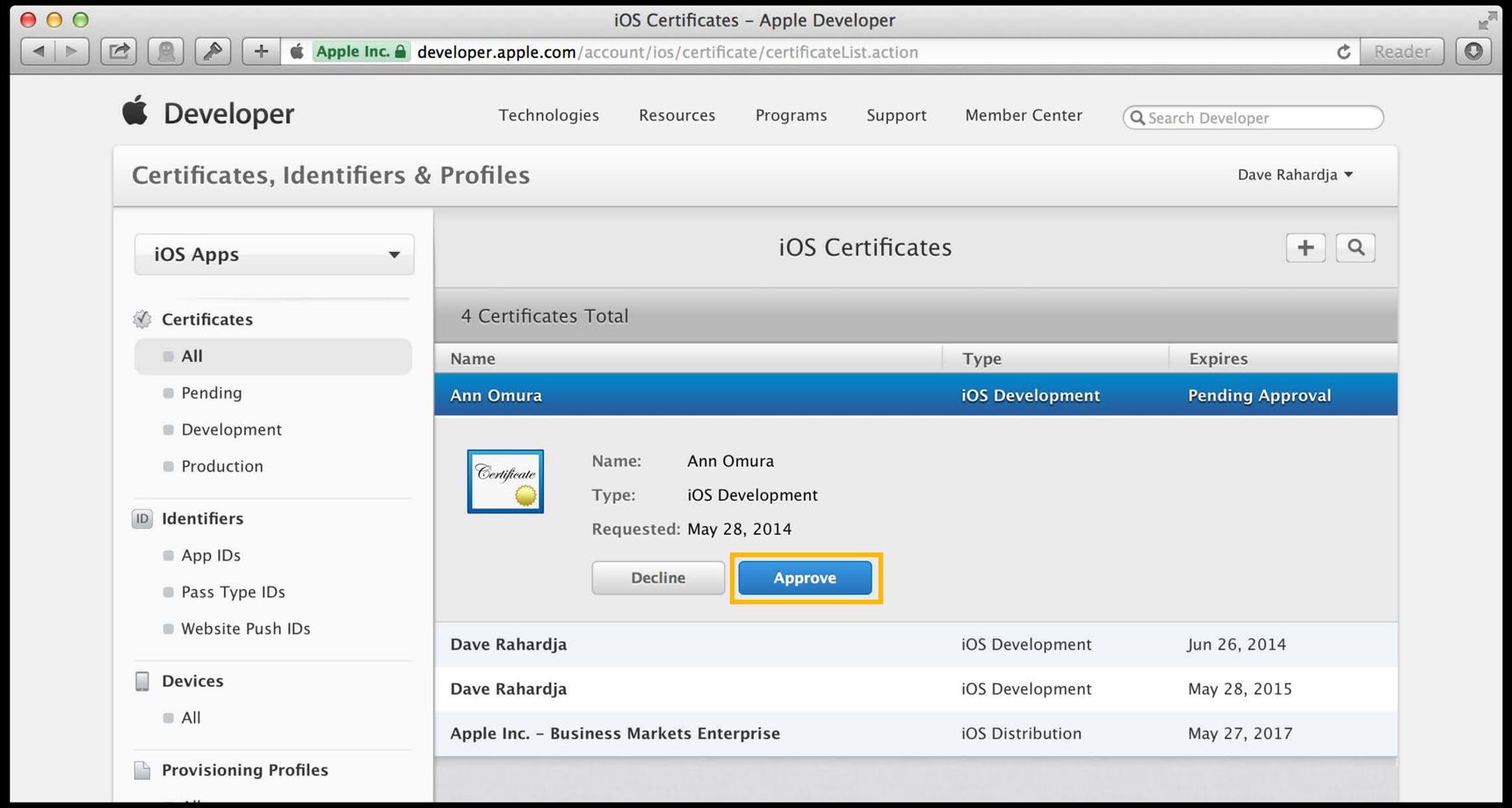

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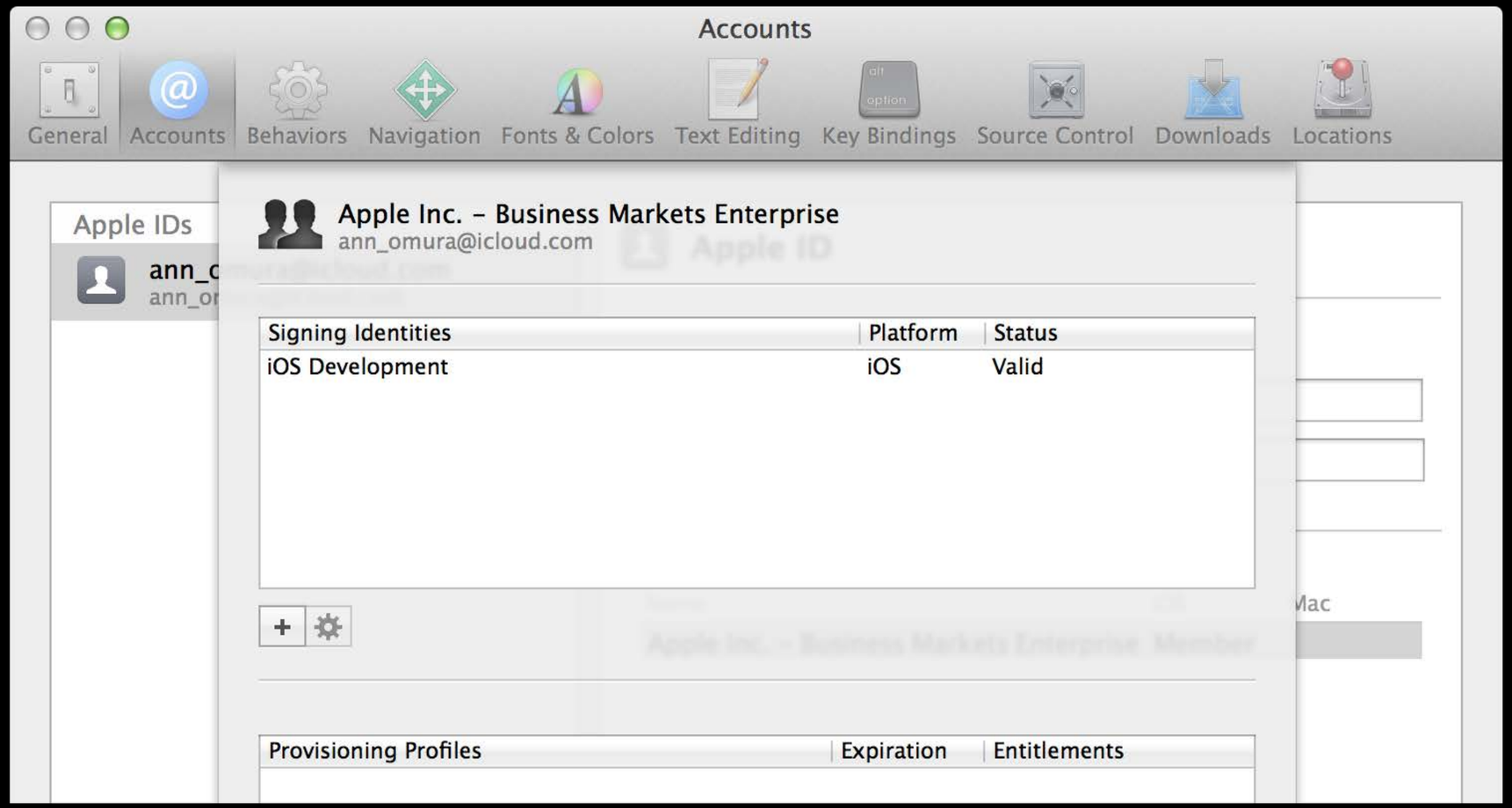

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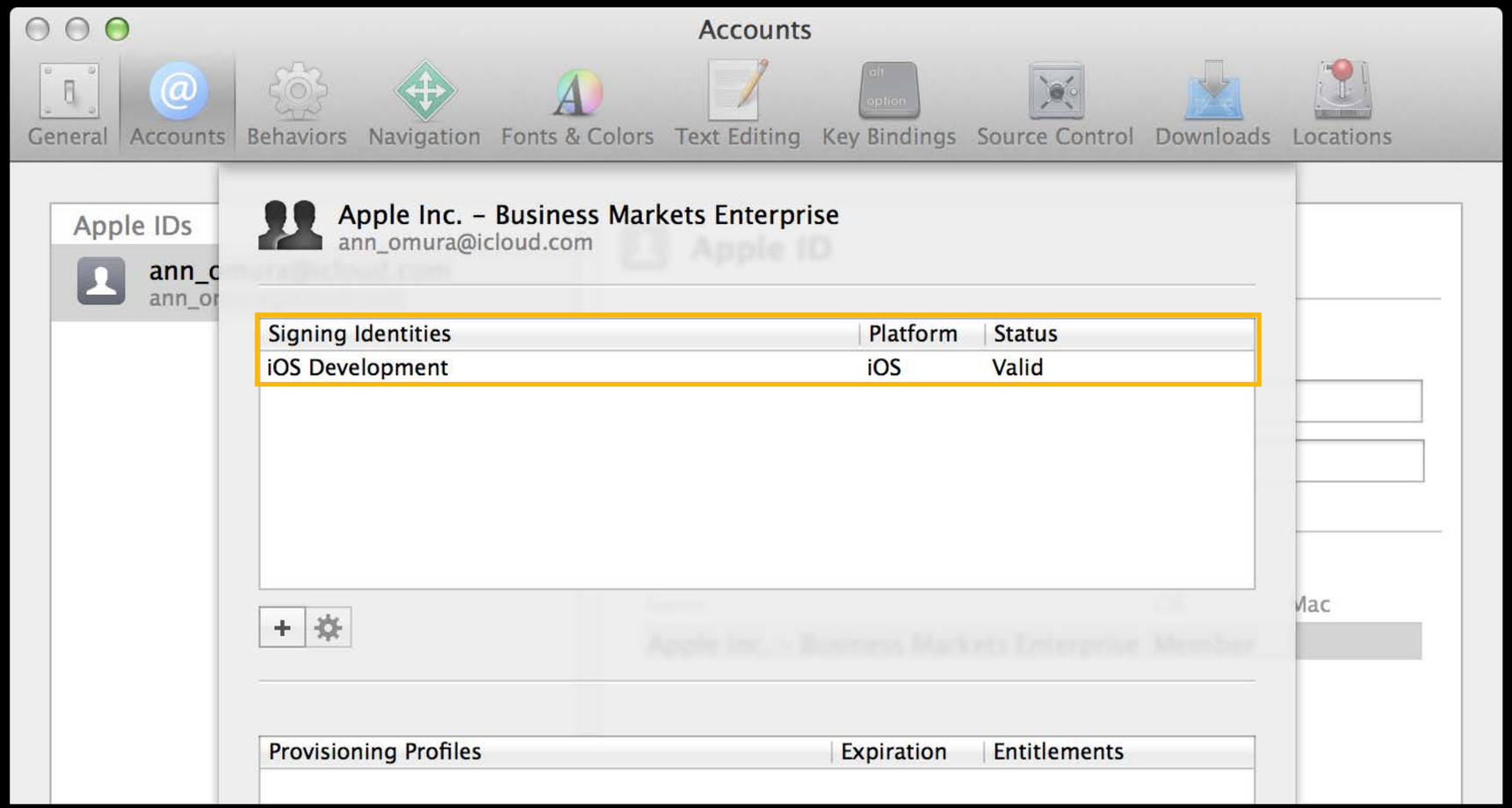
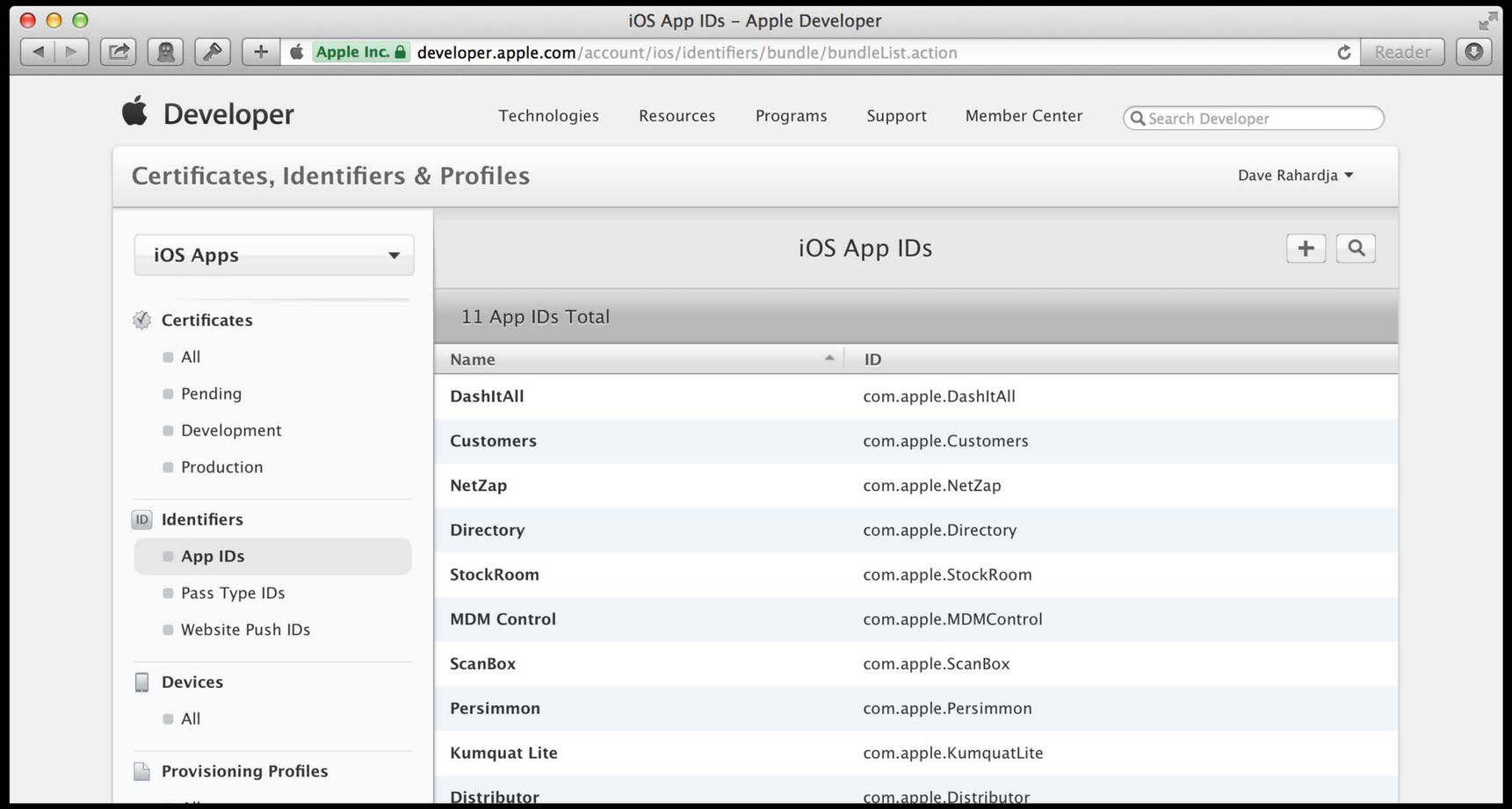


Create App IDs



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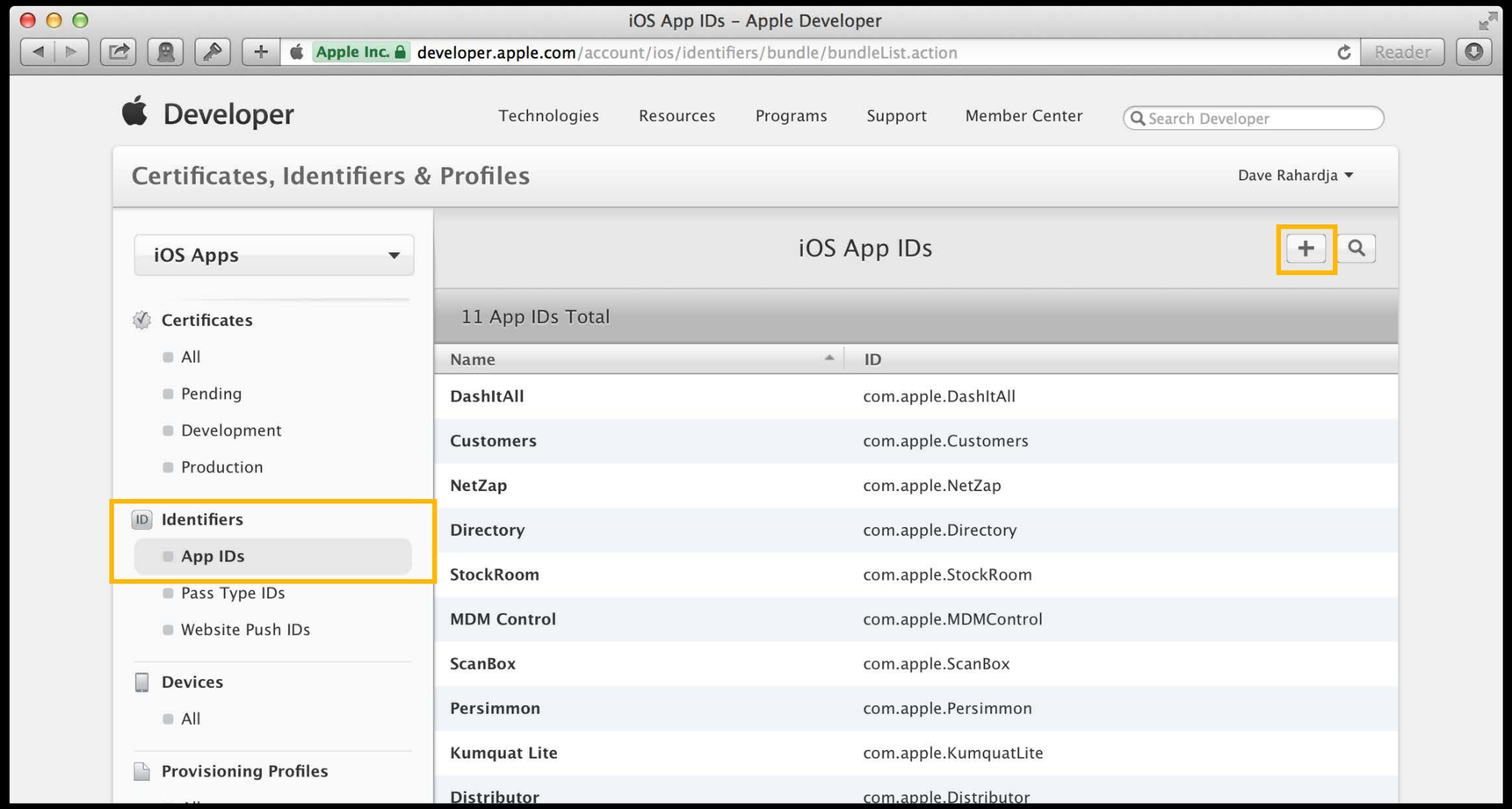

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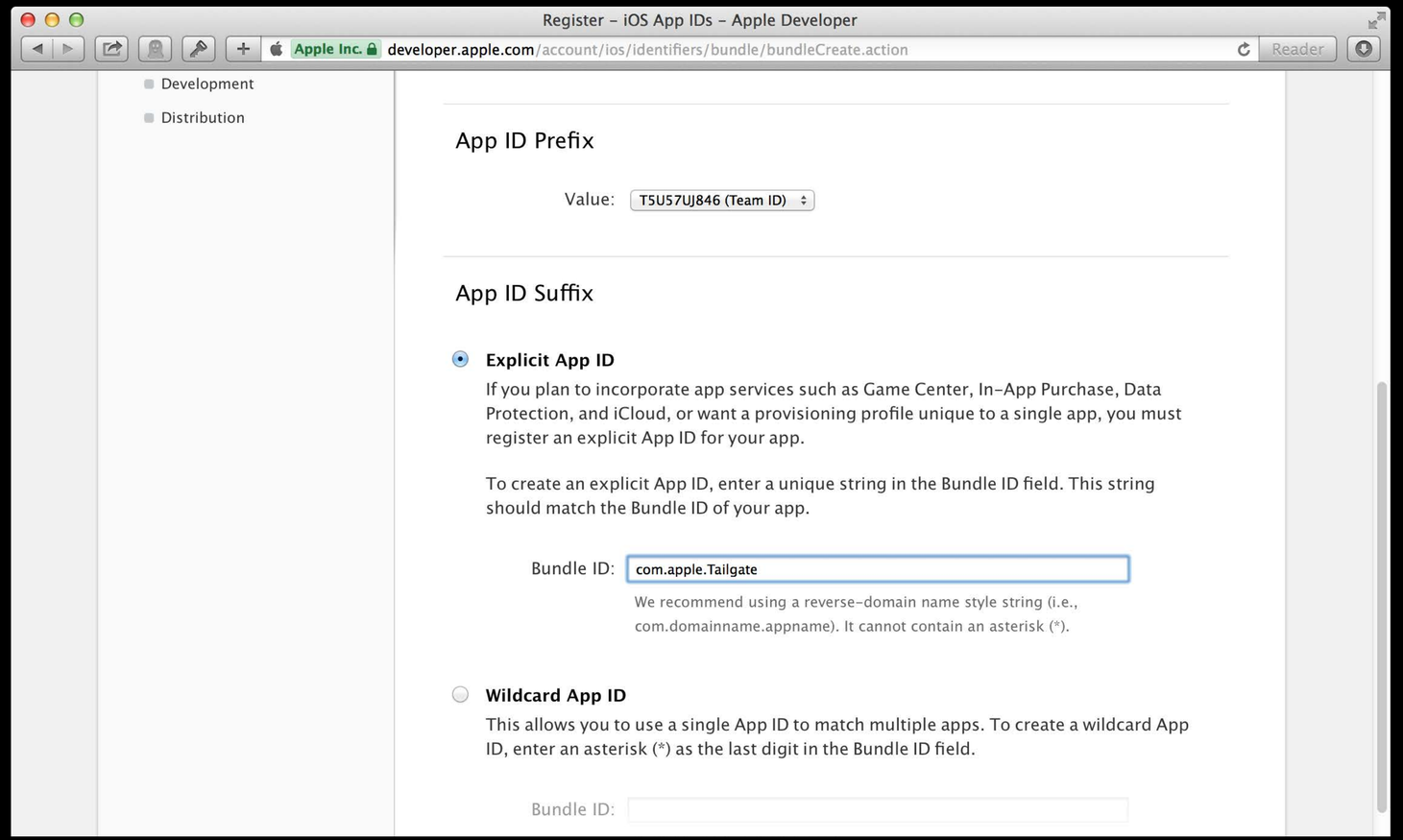
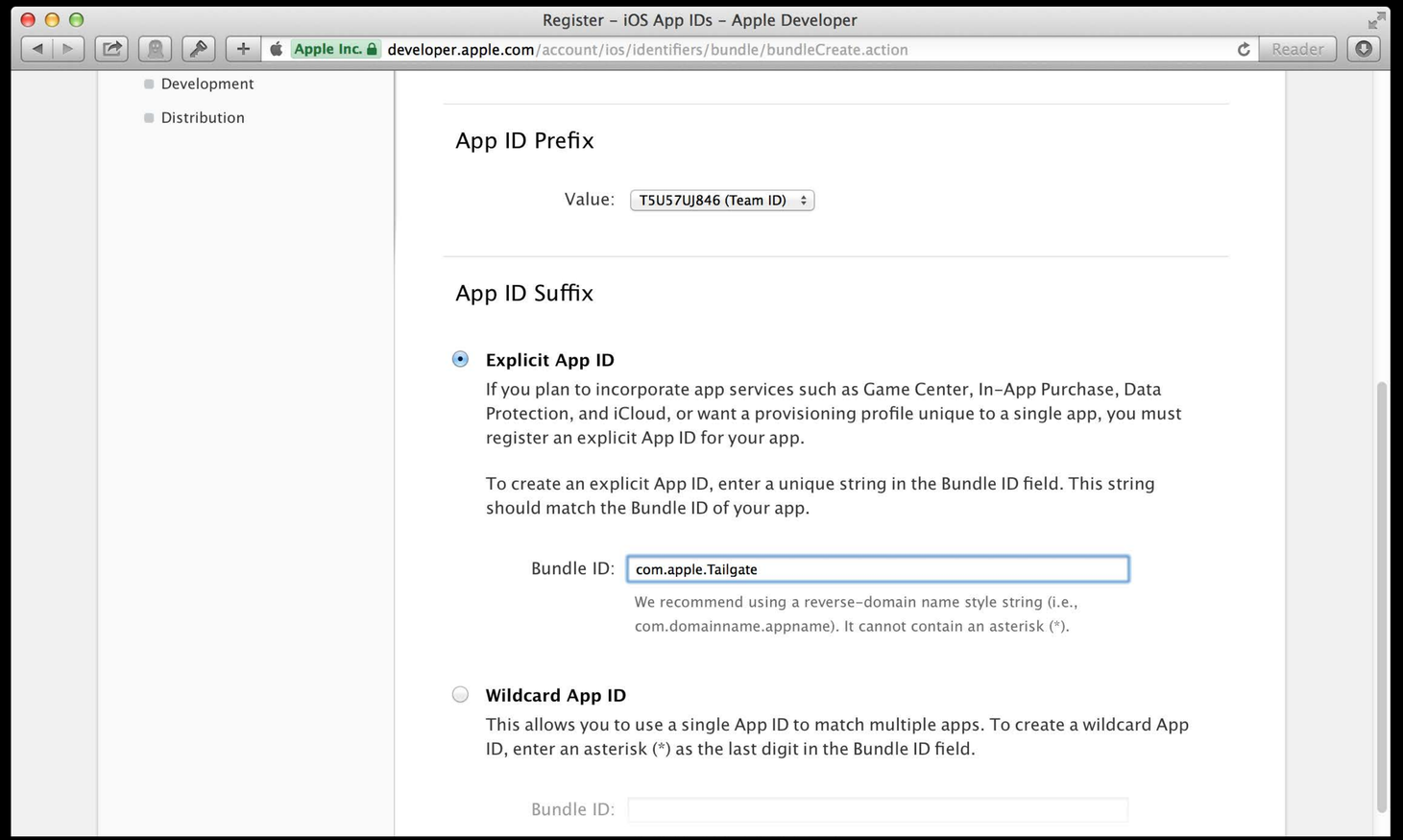


Create App IDs

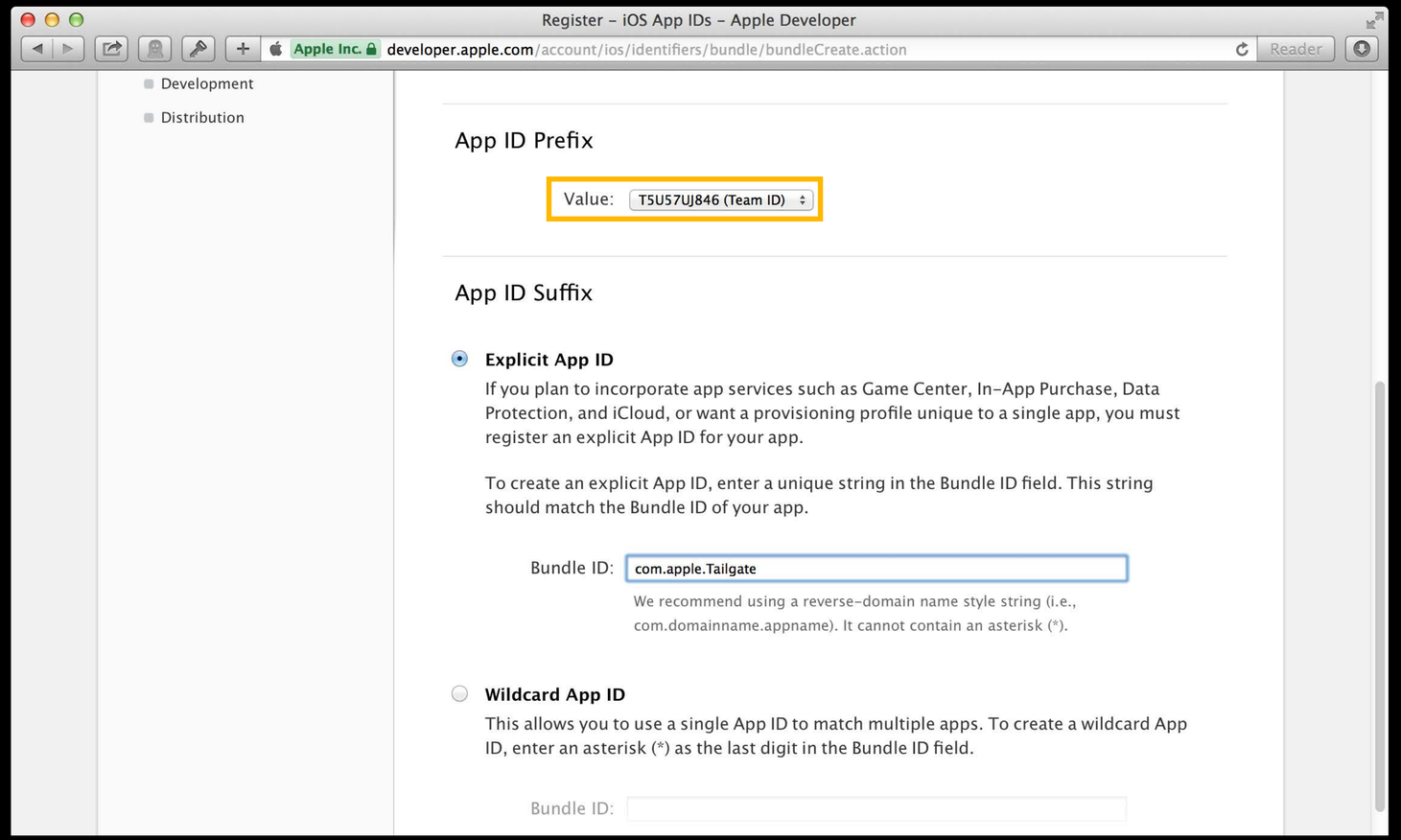
Create App ID to
begin development



Create App IDs

Create App ID to
begin development

Use Team ID prefix

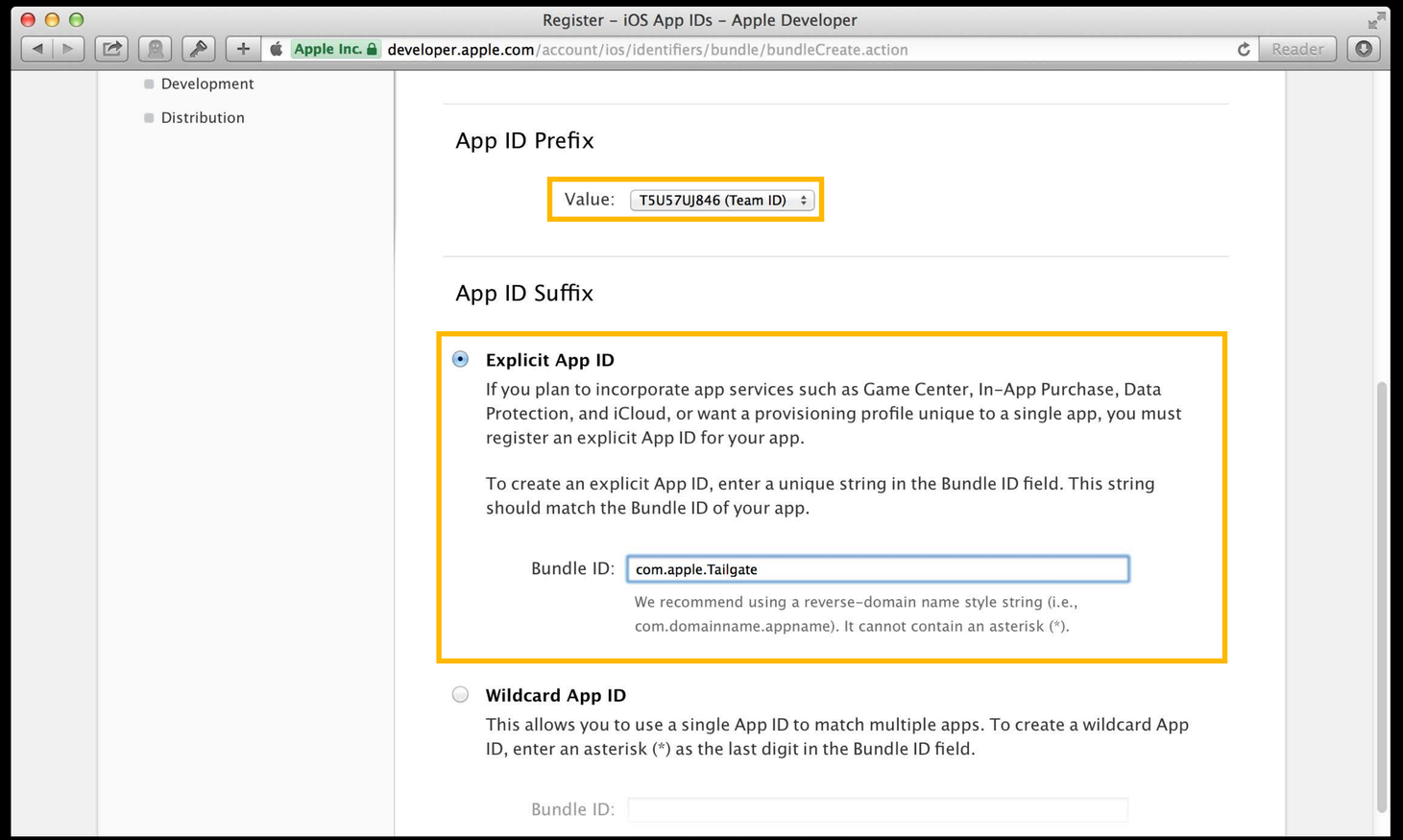


Create App IDs

Create App ID to begin development

Use Team ID prefix

Use explicit App ID



Summary

Enroll in iOS Developer Enterprise Program

Agent and Admins should be employees

Contractors should be Team Members

Invite Team Members

Approve code signing certificate requests

Create App IDs to begin development

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Xcode Server

Hub for development

Install OS X Server from Mac App Store

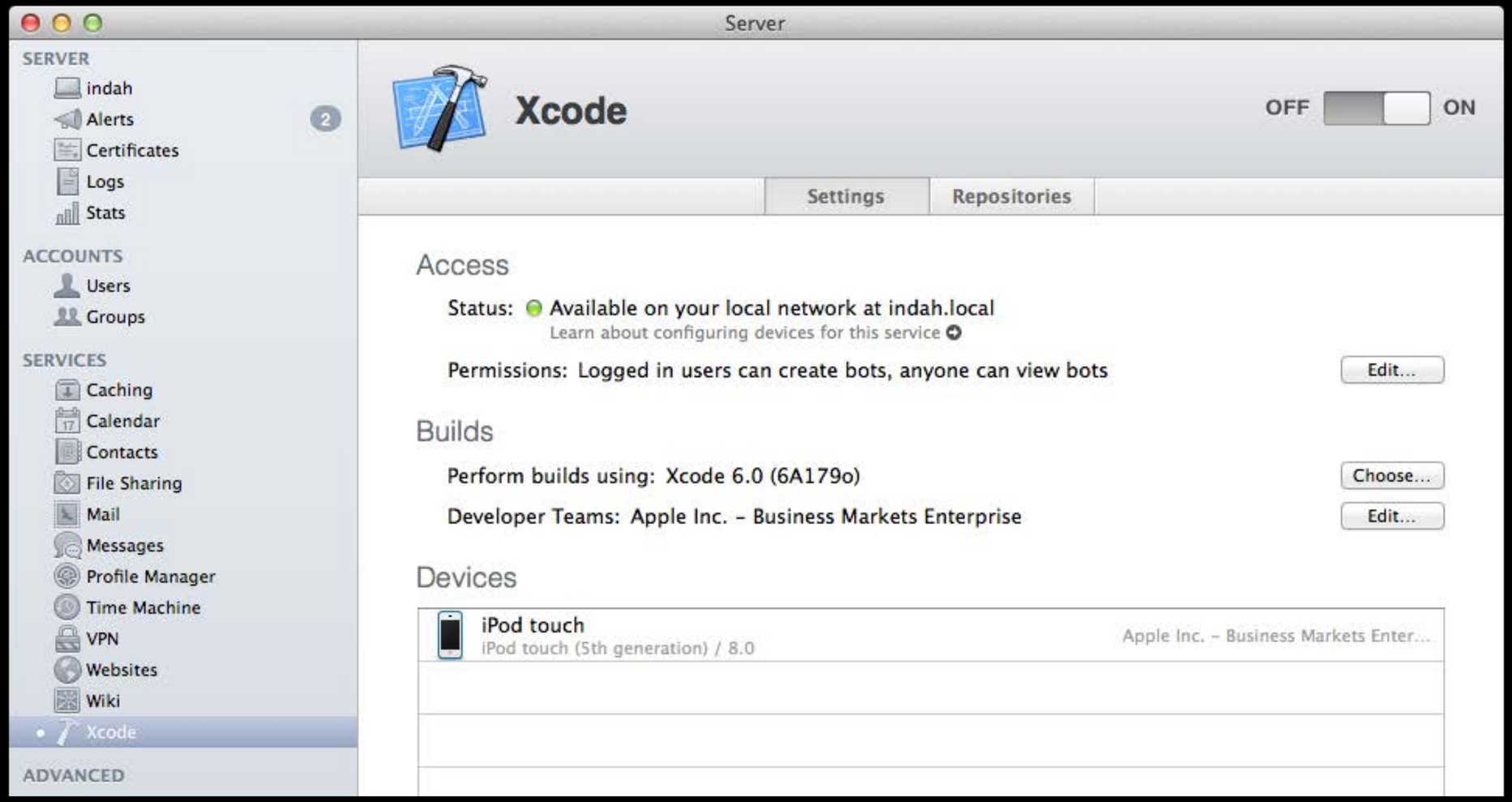
Install Xcode

Enable Xcode service

Setup

Setup

Log in with your Enterprise account



Setup

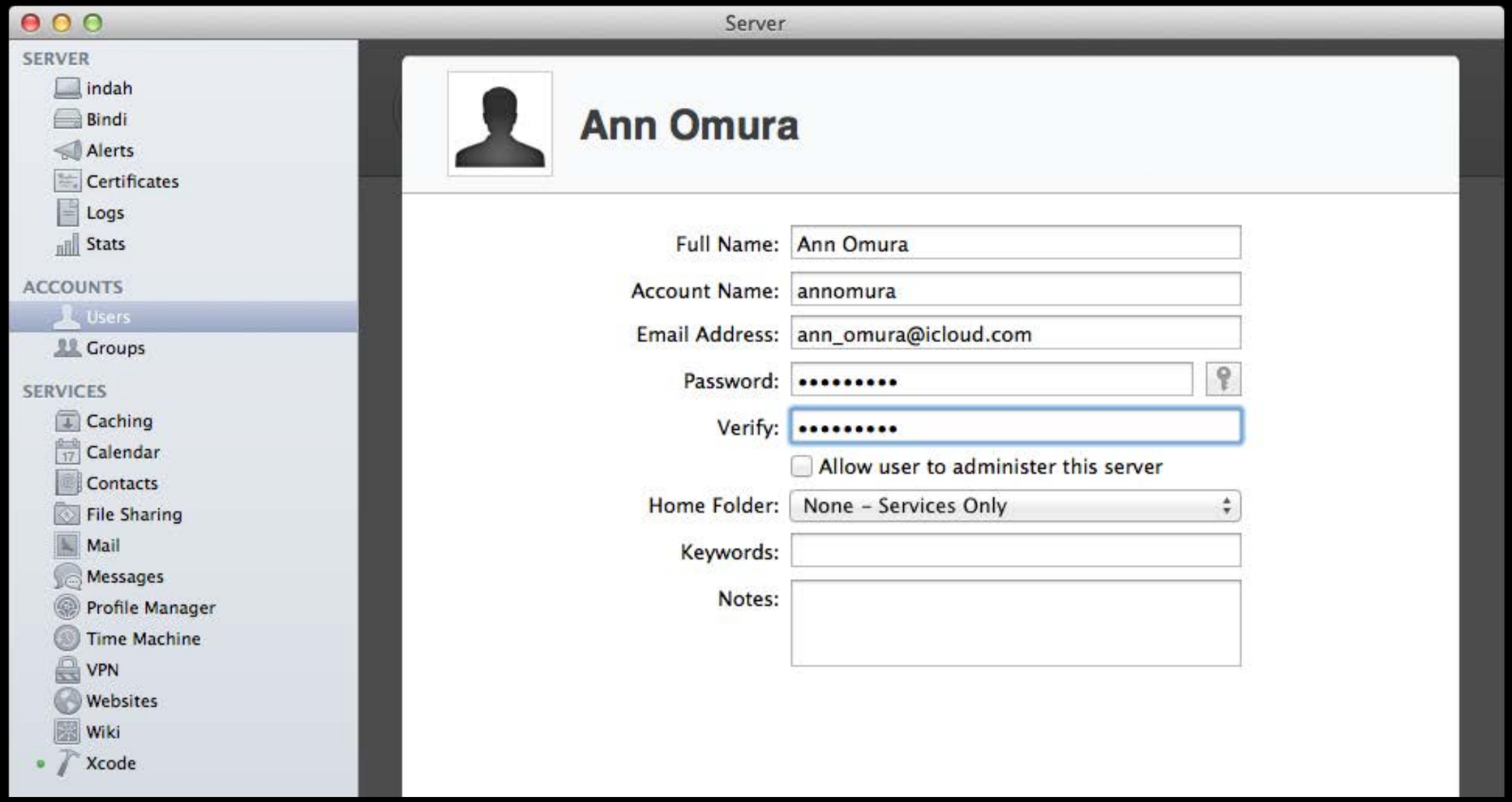
Log in with your Enterprise account

Setup

Server gets own code signing certificate

Users

Create a user for each Admin and Team Member



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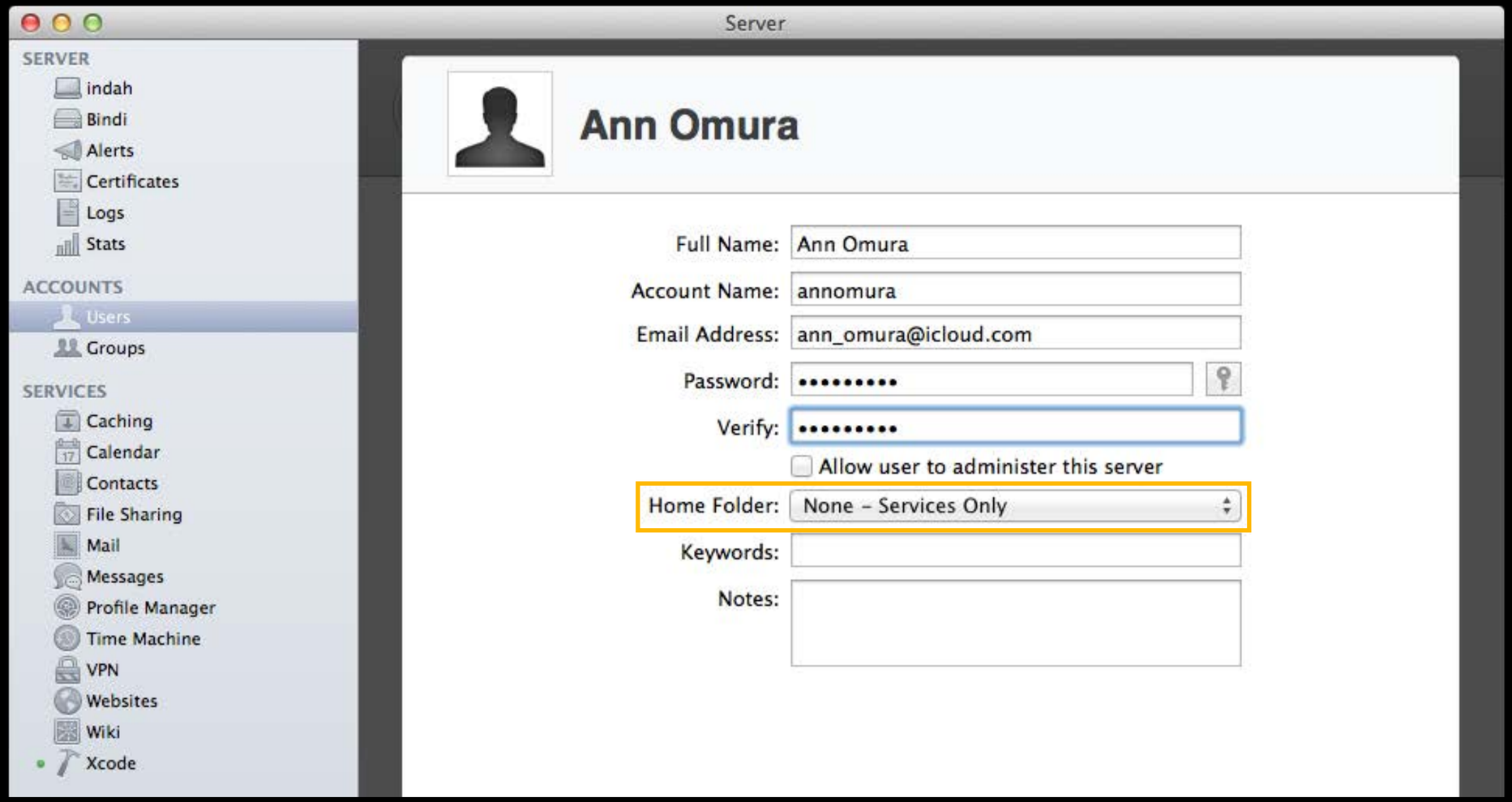
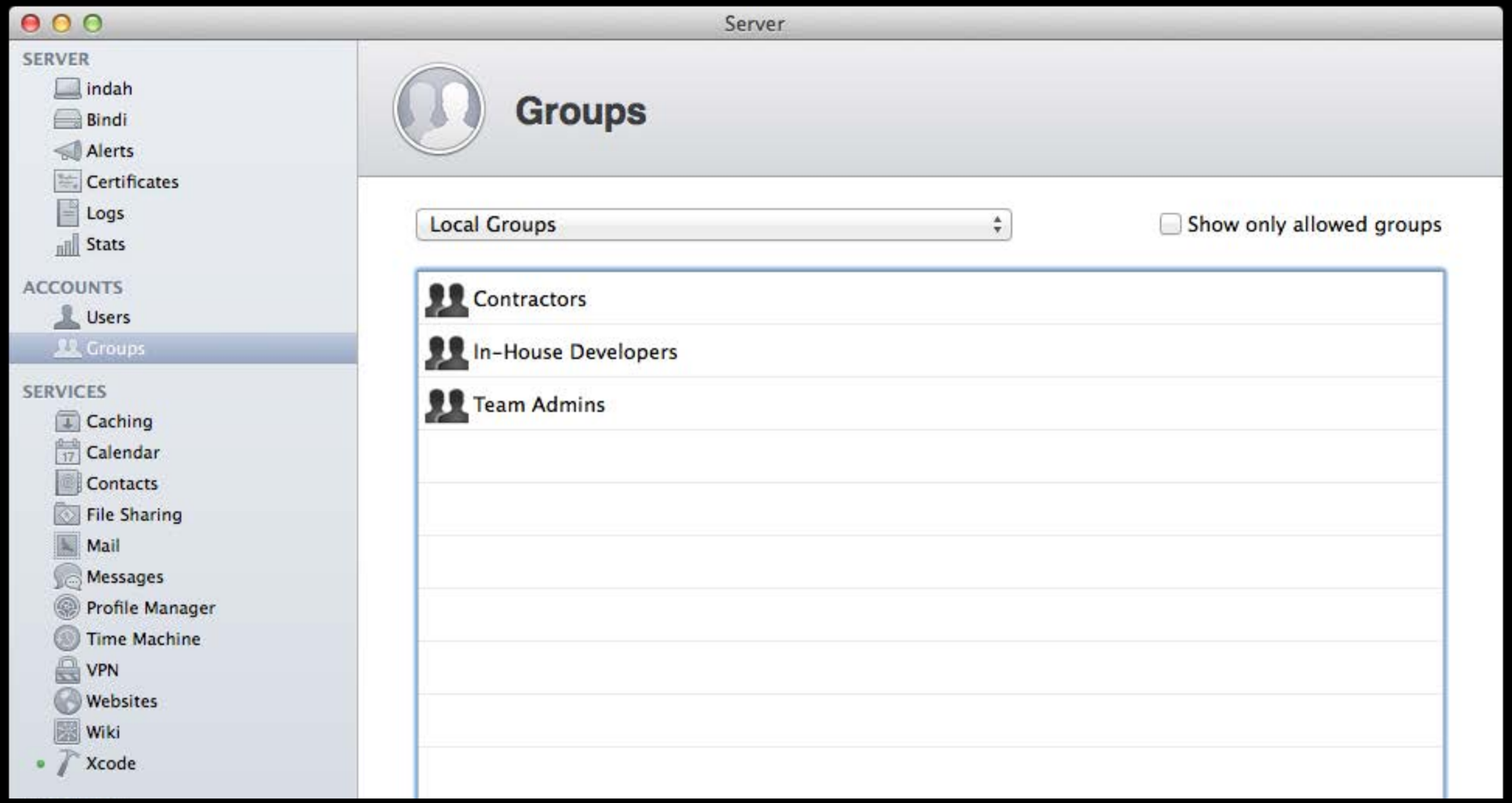


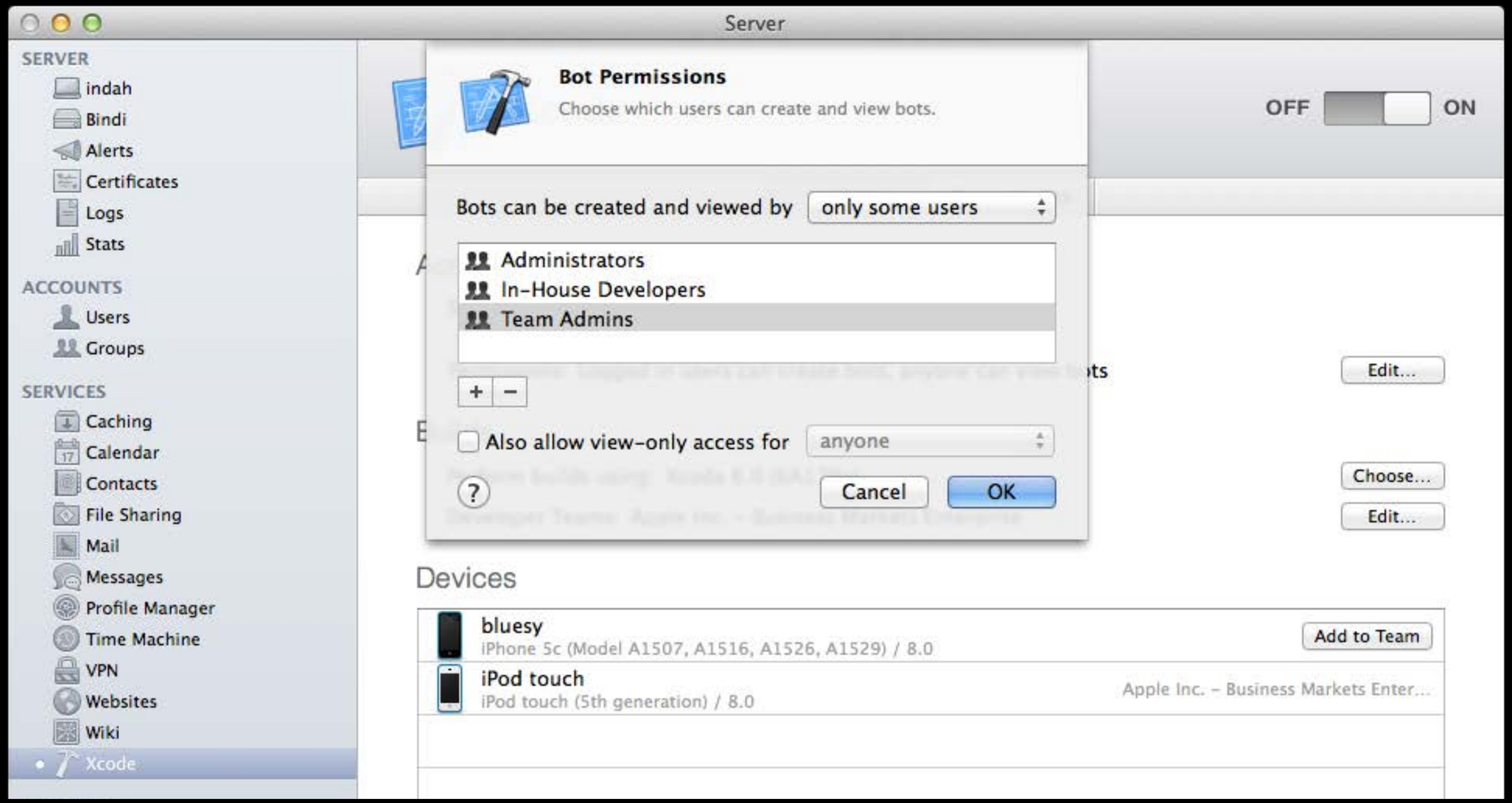
Users

Create groups



Users

Create access controls



Code Repository

Code Repository

Code Repository

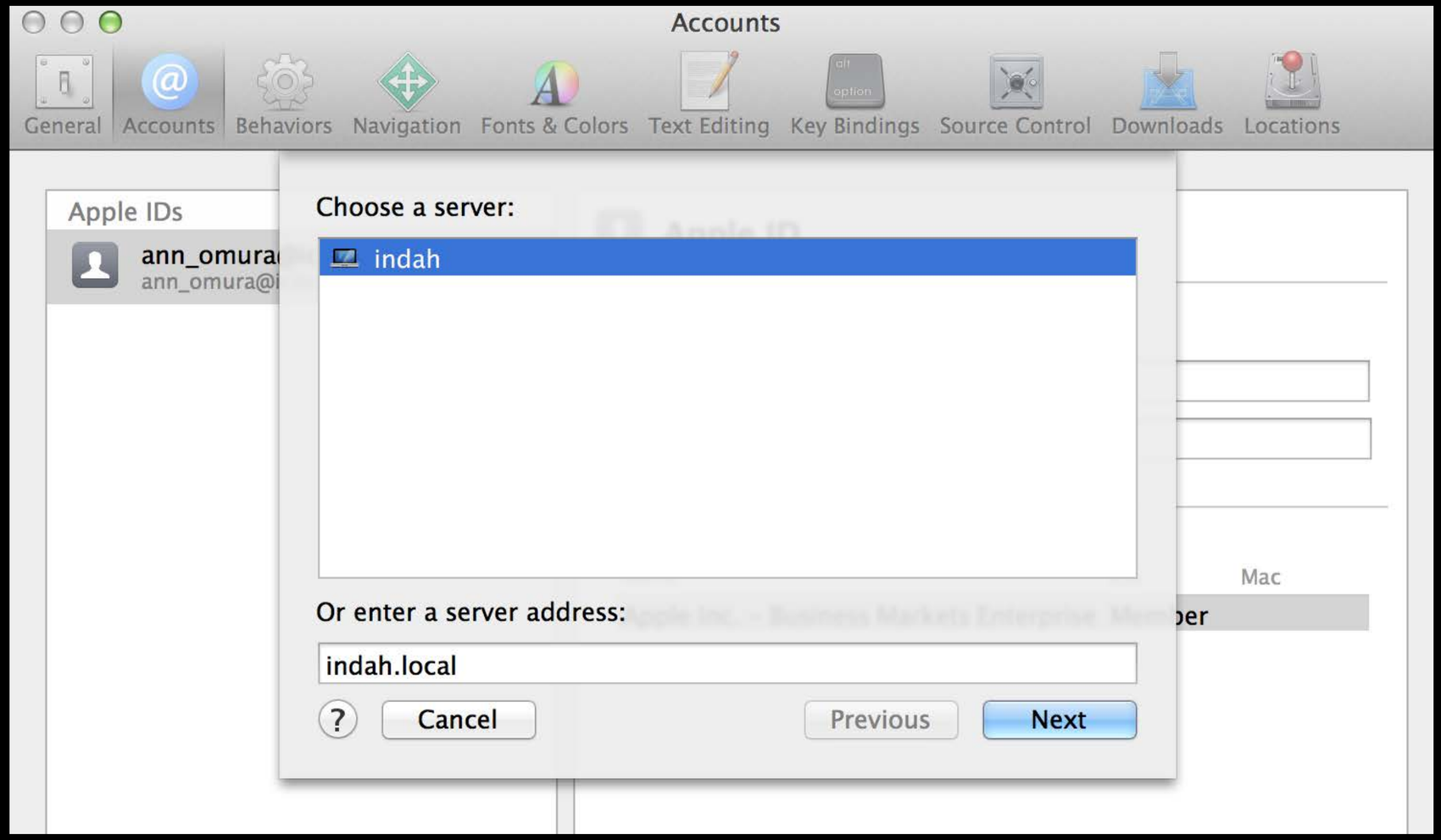
Git or Subversion

One repository per app

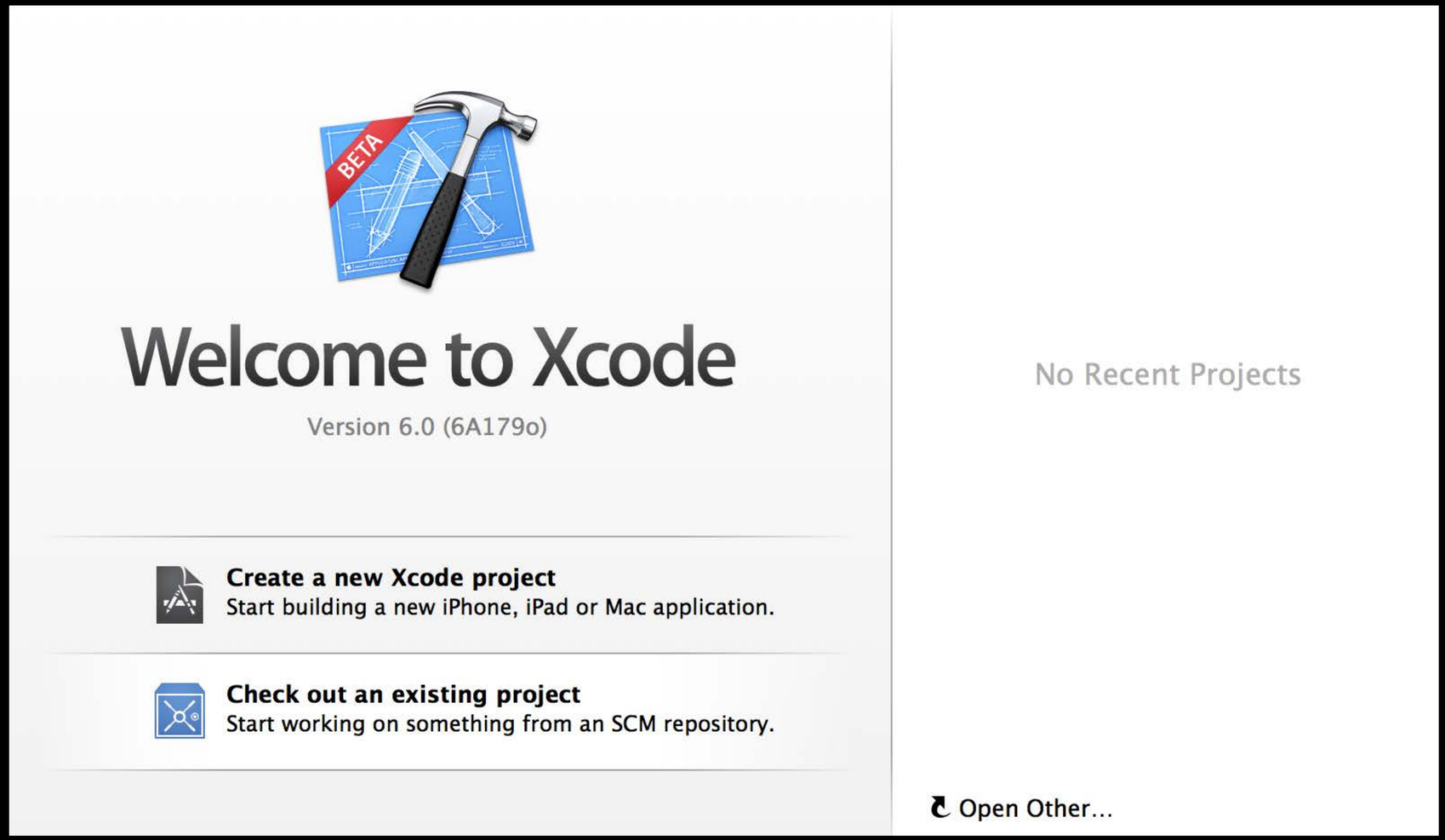
Create access controls

Initial Checkout

Add Server to Xcode



Initial Checkout



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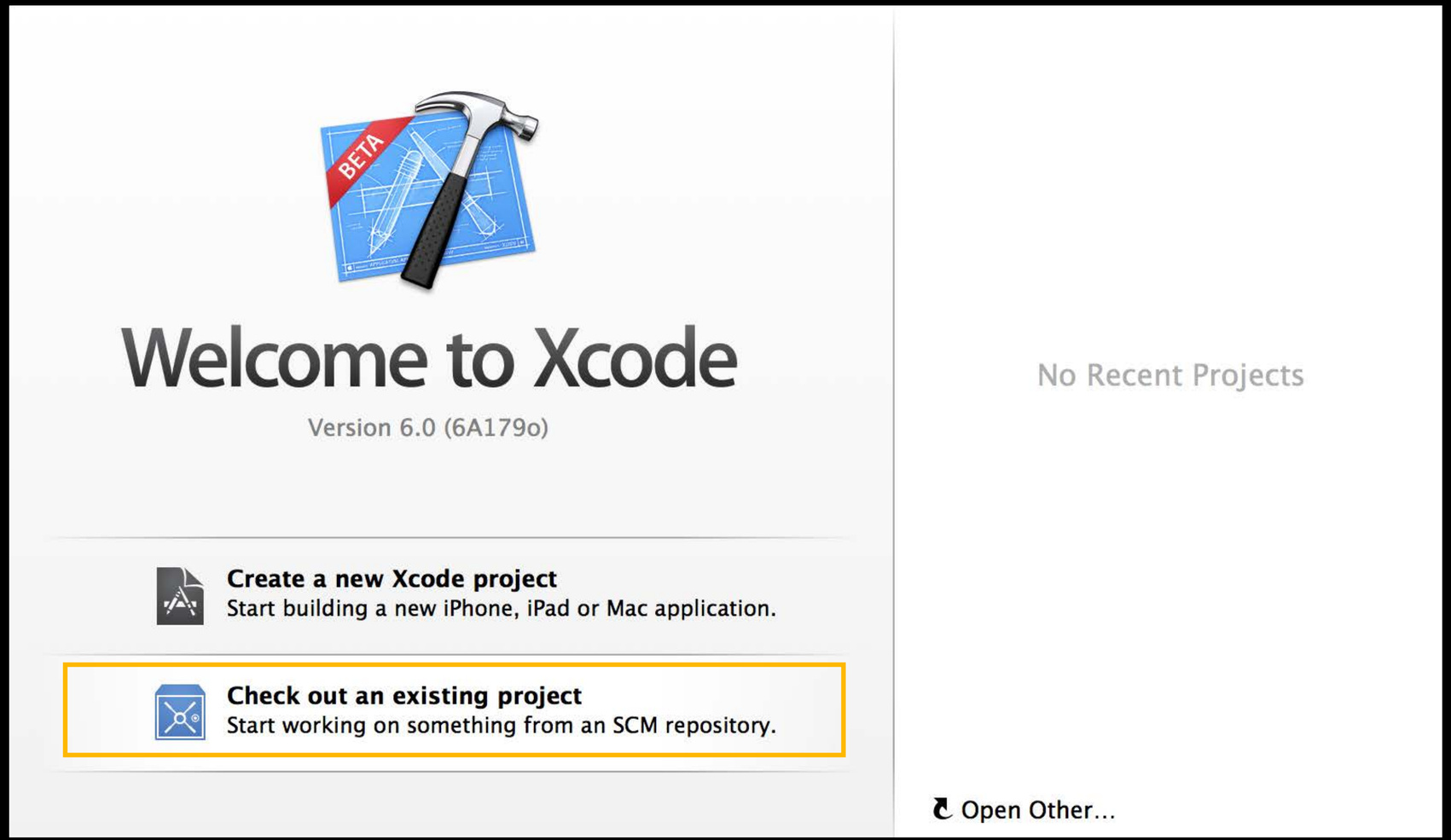

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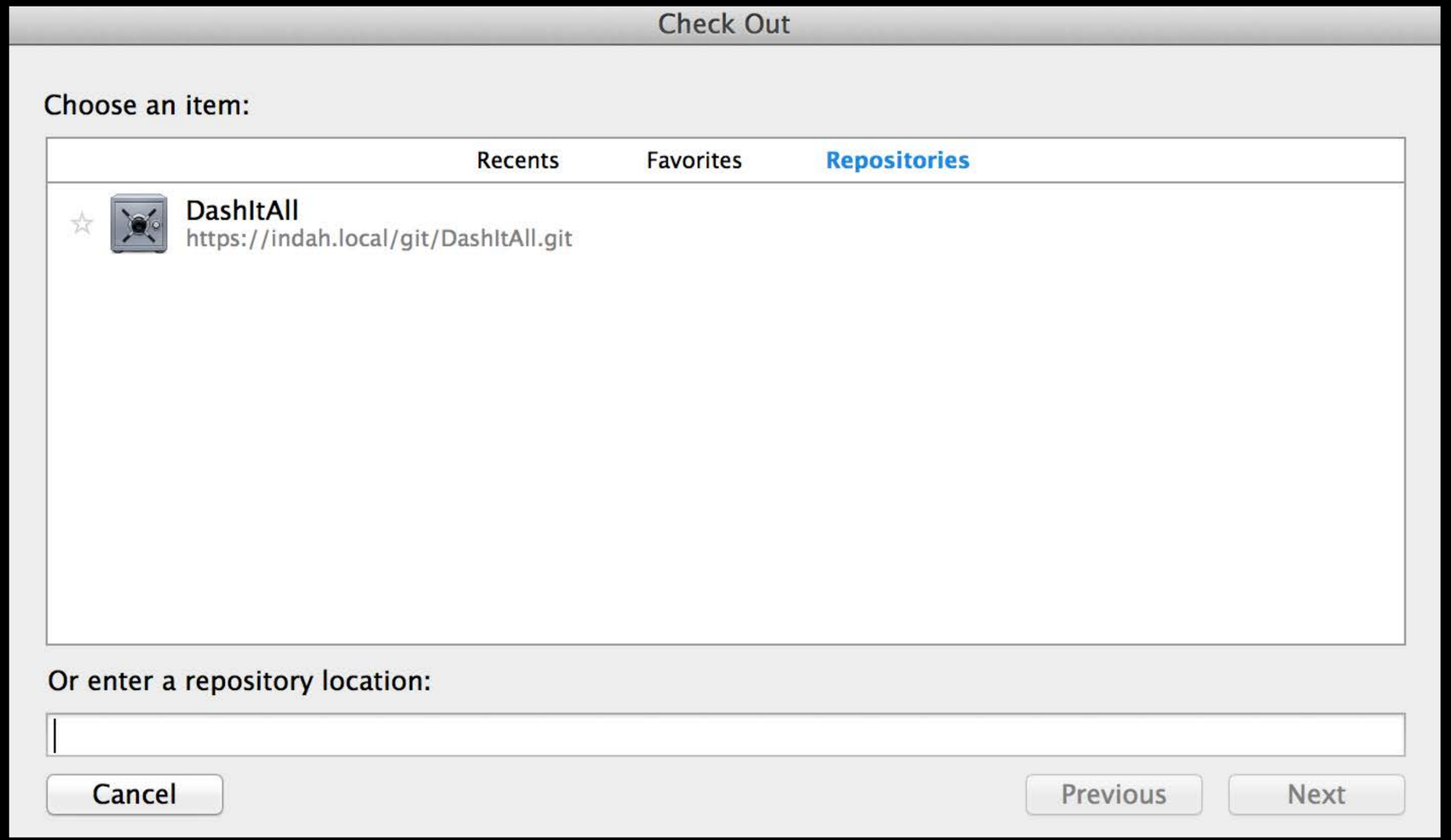


Bots

Bots

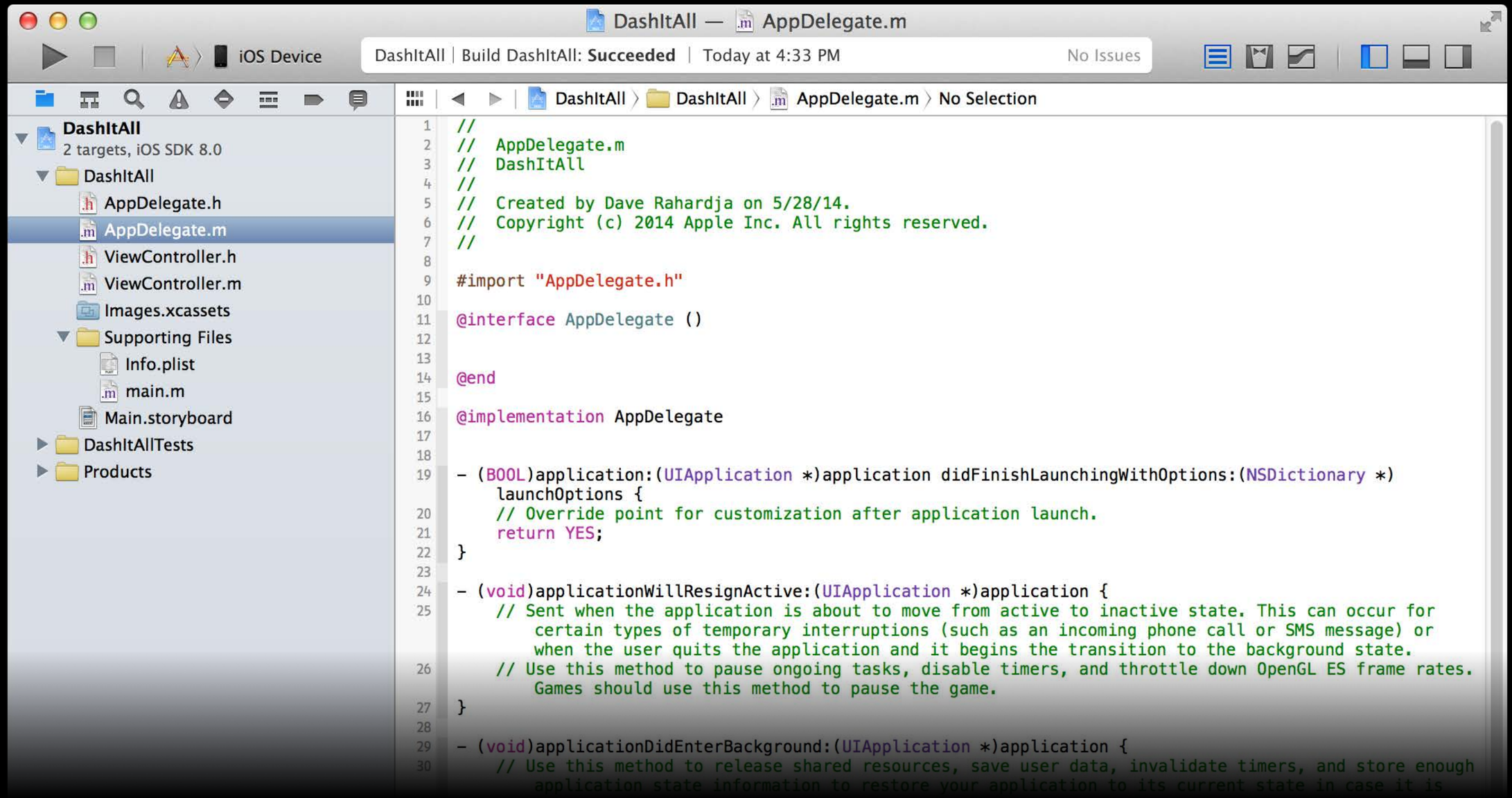
Continuous Integration

Run Unit Tests on connected devices

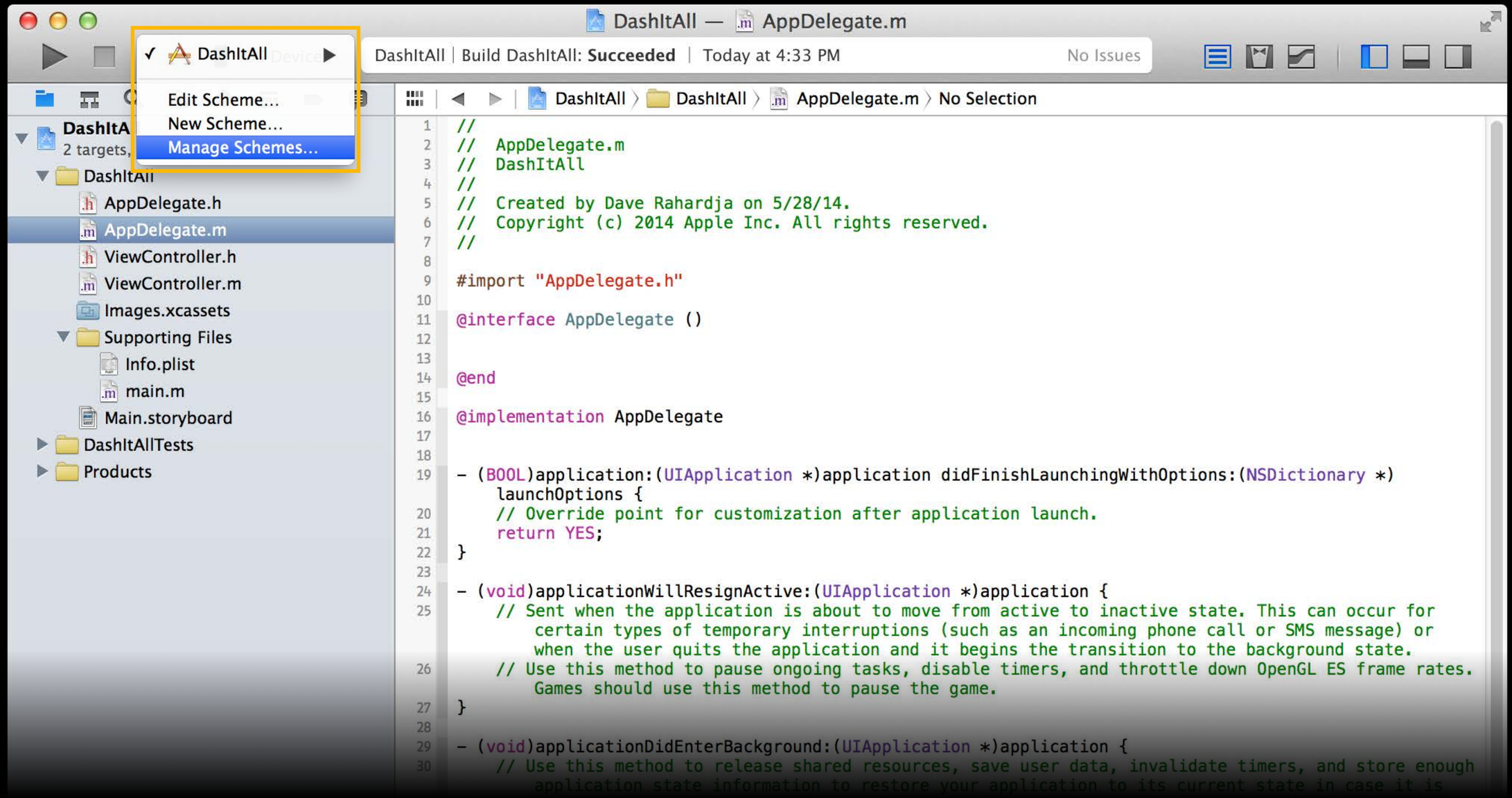
Reports

Archives

Create Shared Scheme



Create Shared Scheme



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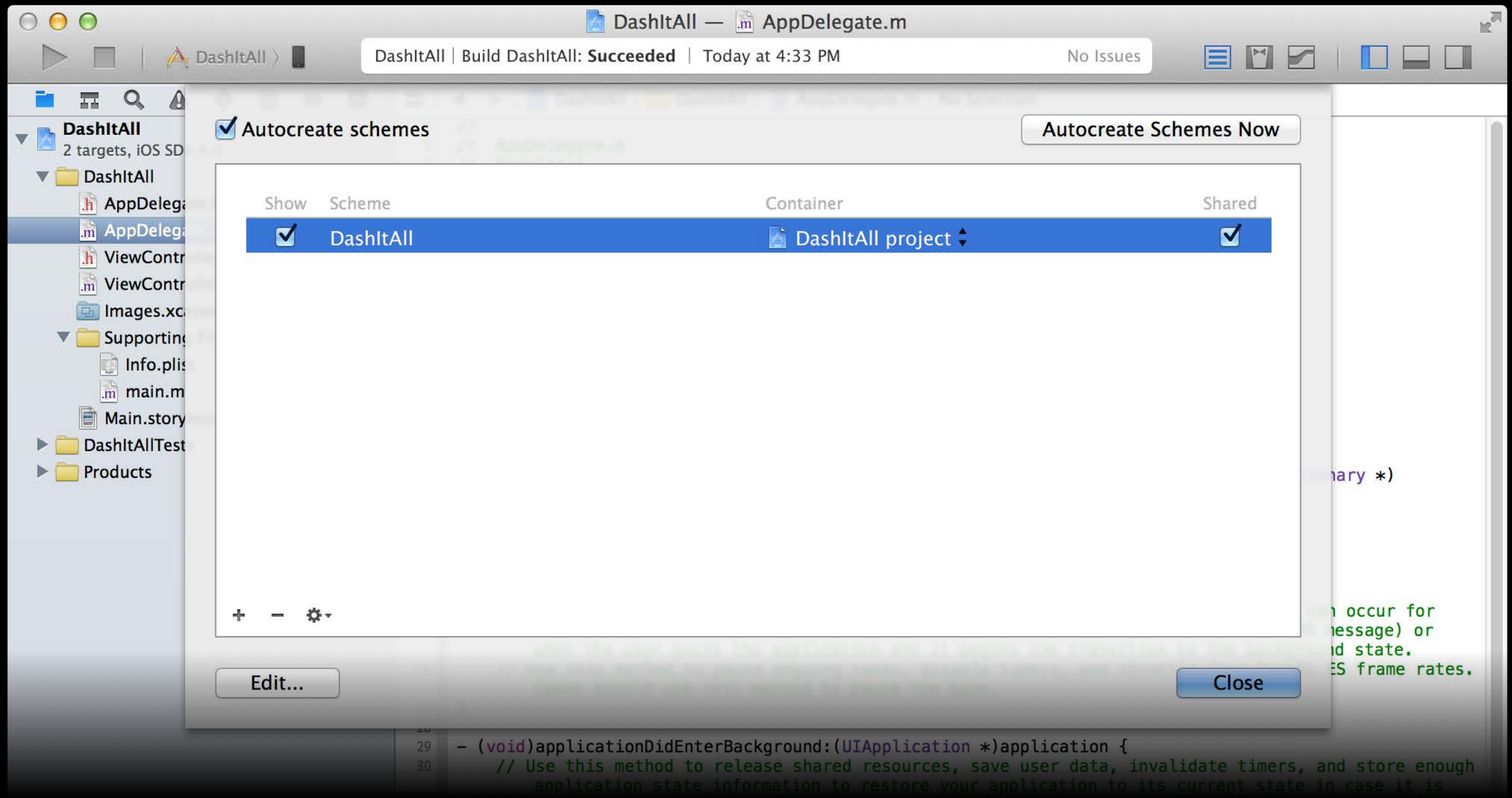

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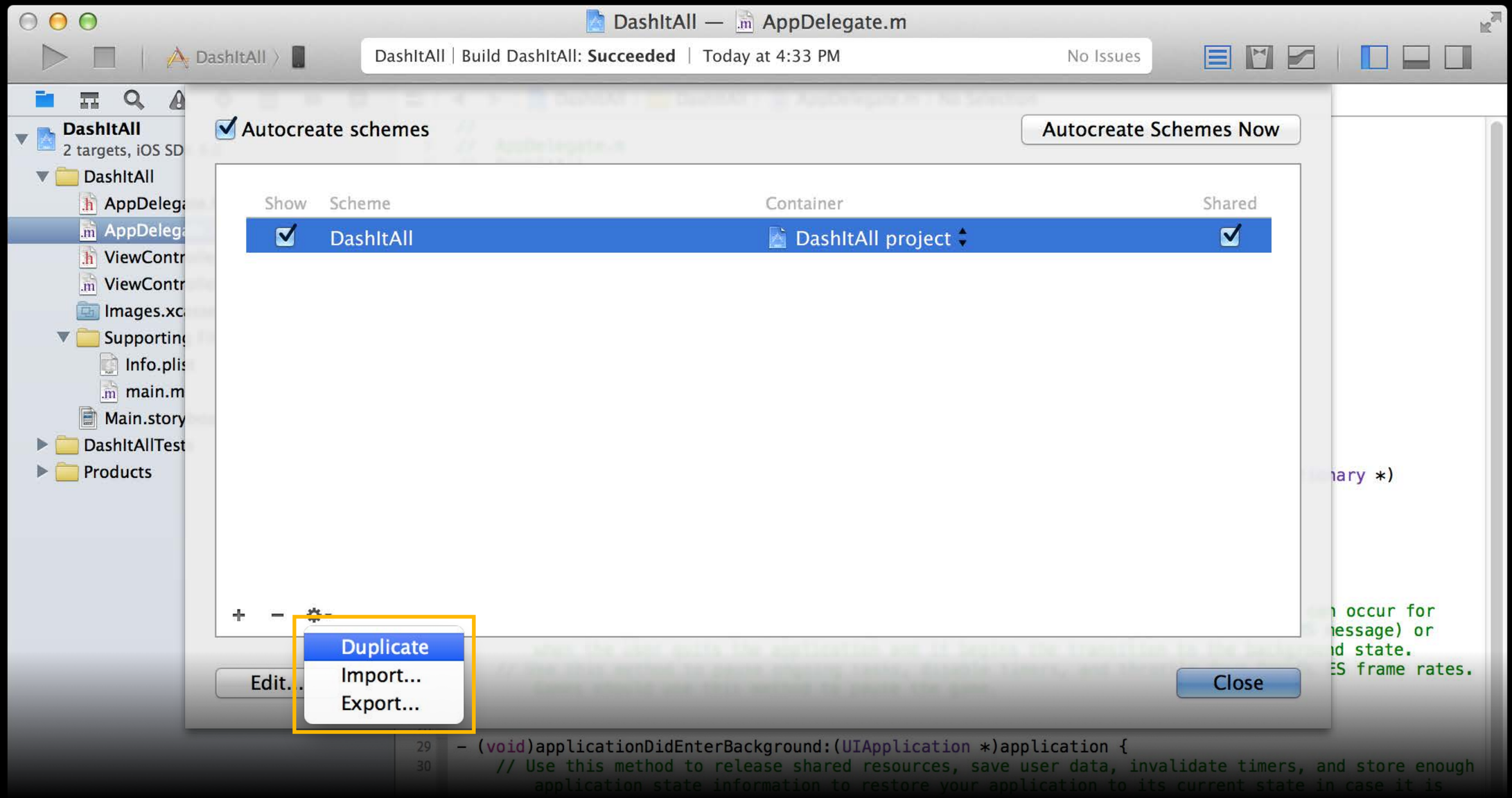
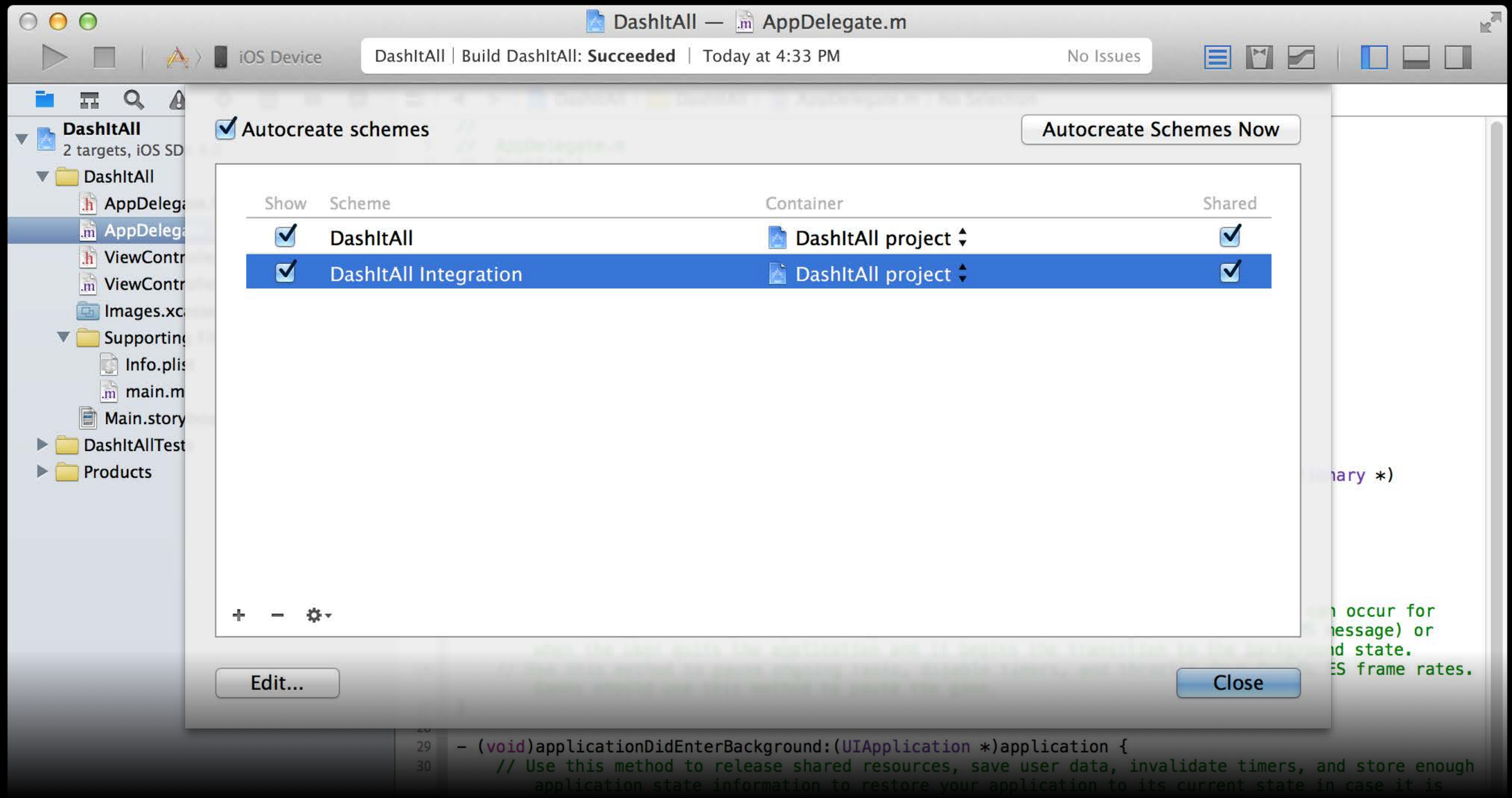


Create Shared Scheme



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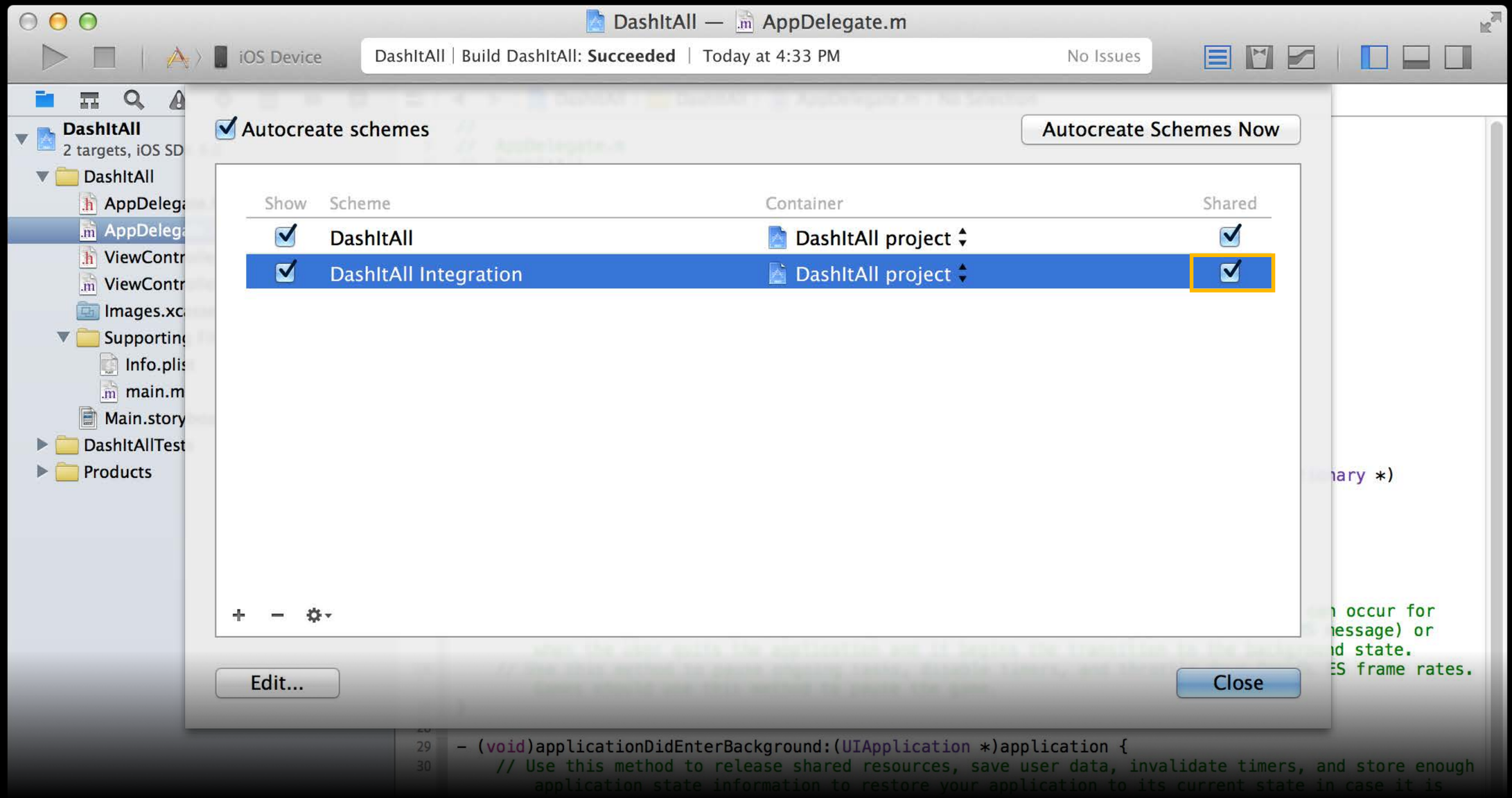
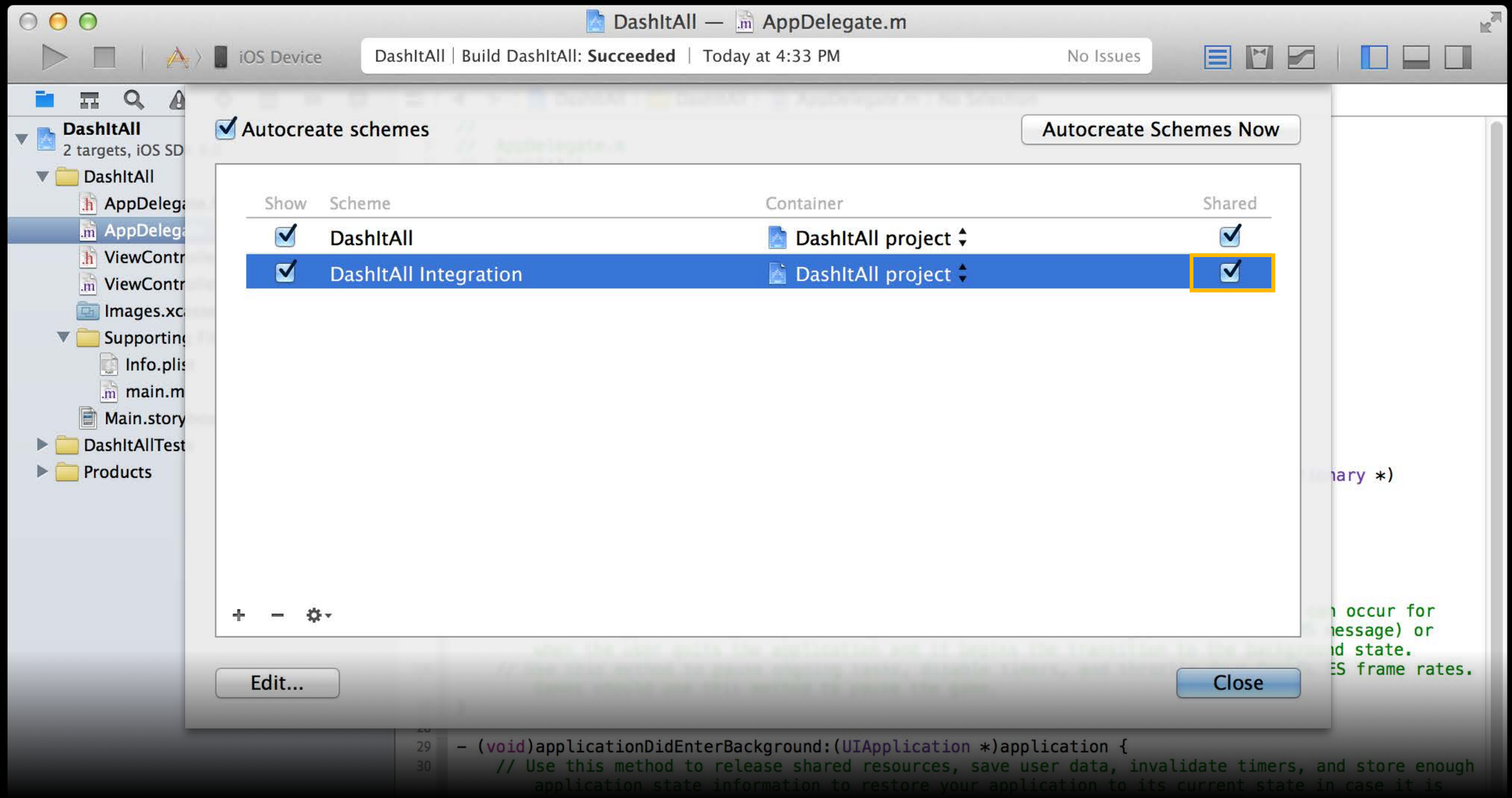


Create Shared Scheme

Remember to commit the scheme to the server



Connect Test Devices

Connect Test Devices

Connect Test Devices

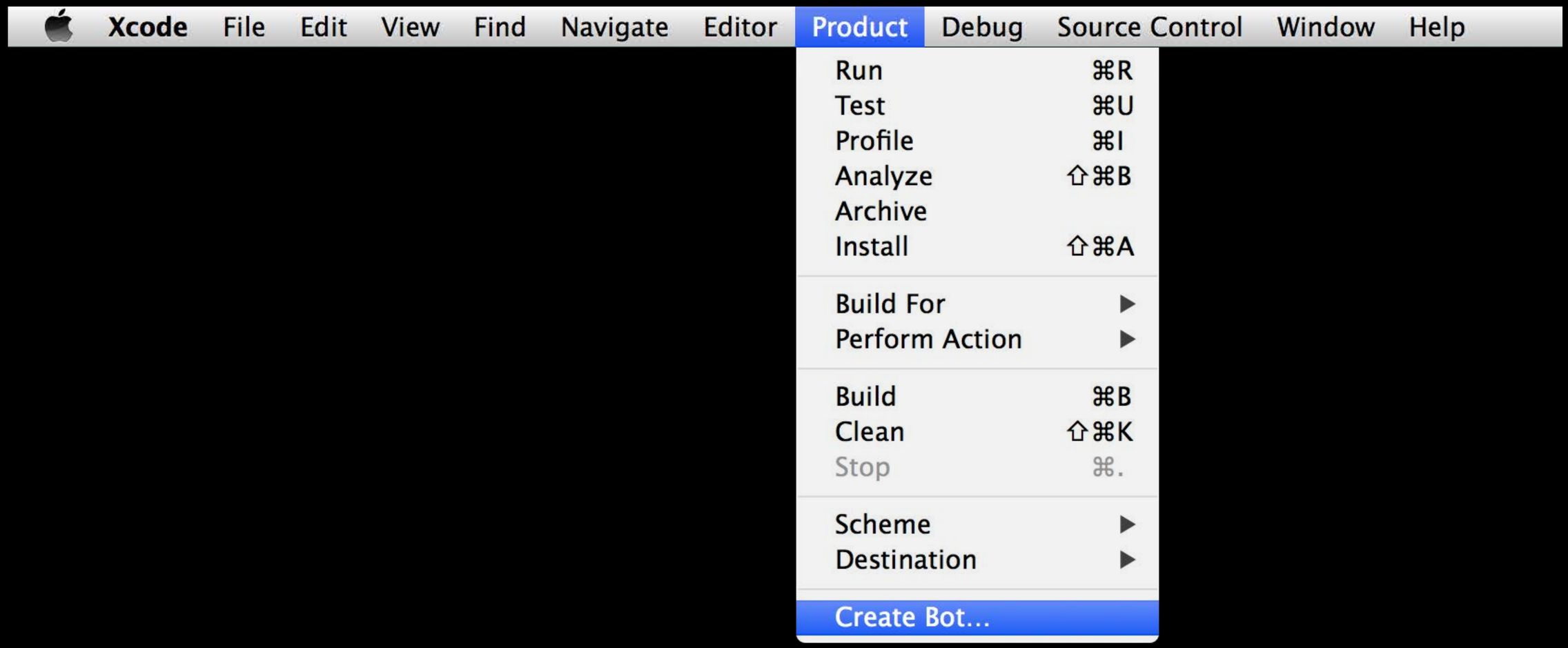
Used for Unit Test

Connect a variety of devices

- iPad
- iPod touch
- iPhone

Development Provisioning Profile automatically updated

Create the Bot



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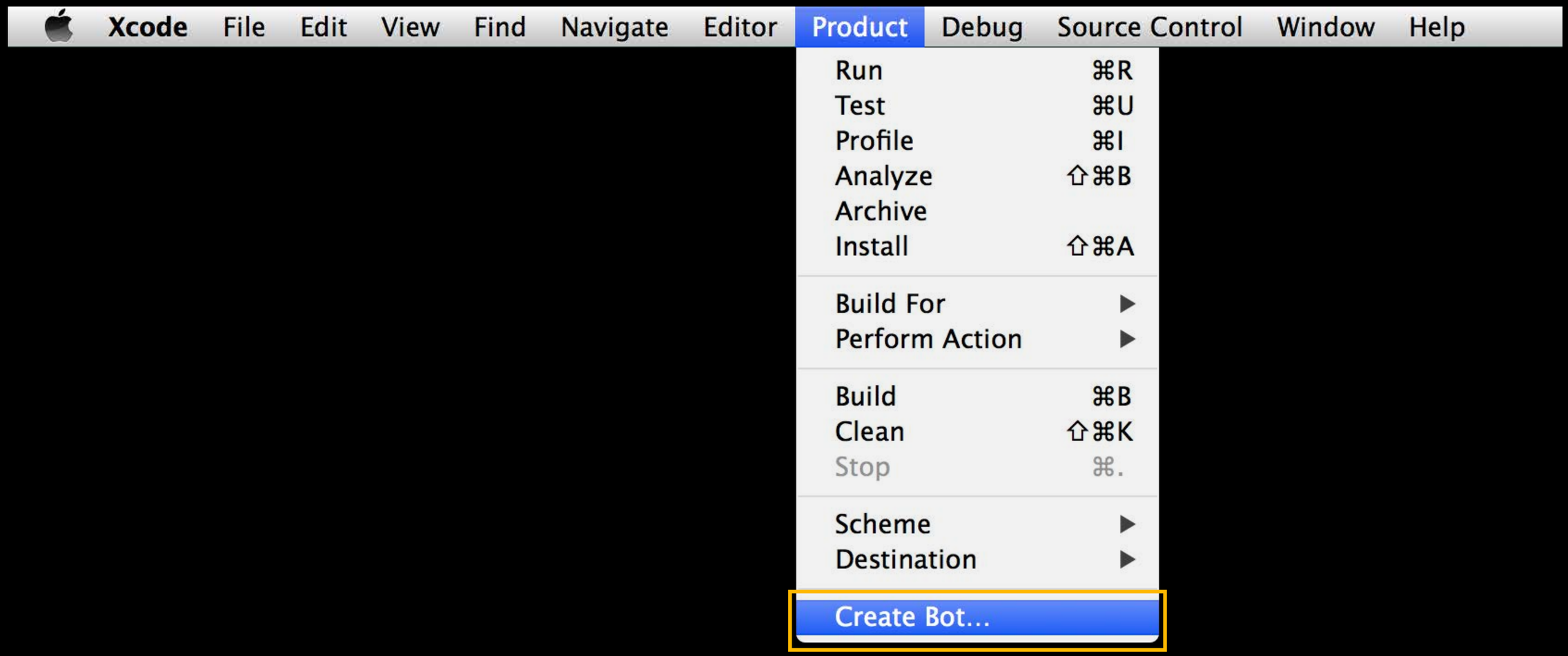

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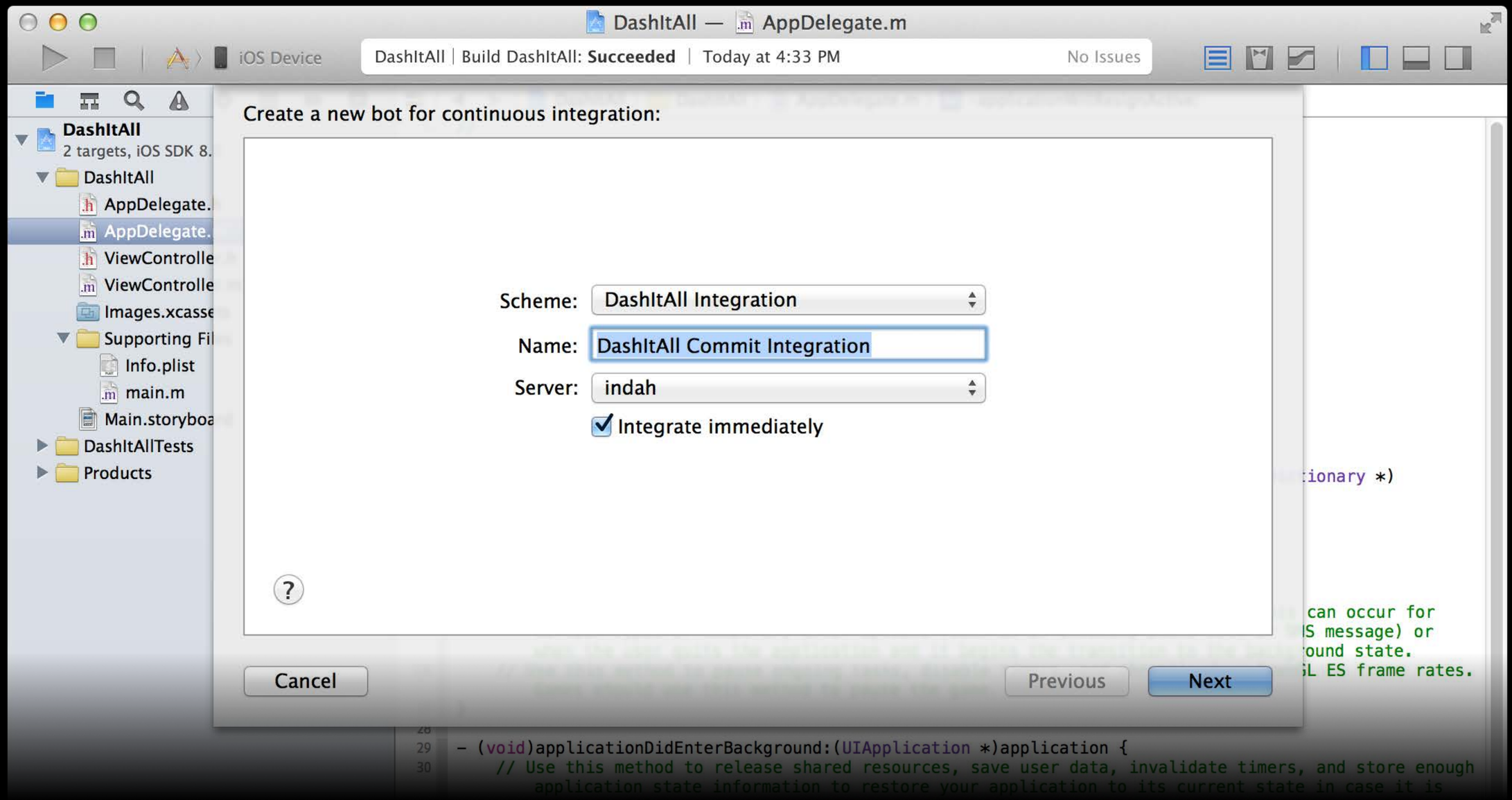

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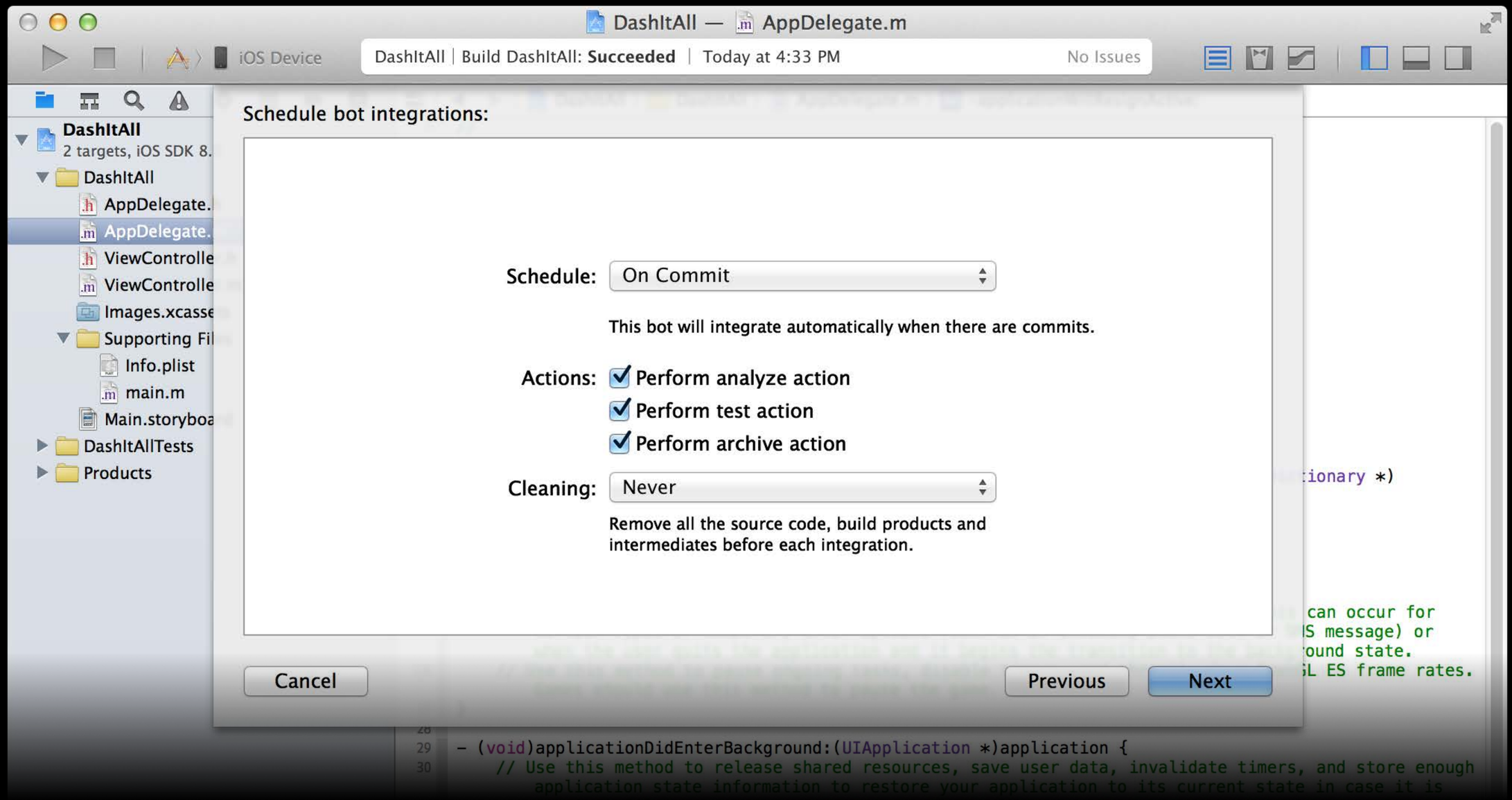

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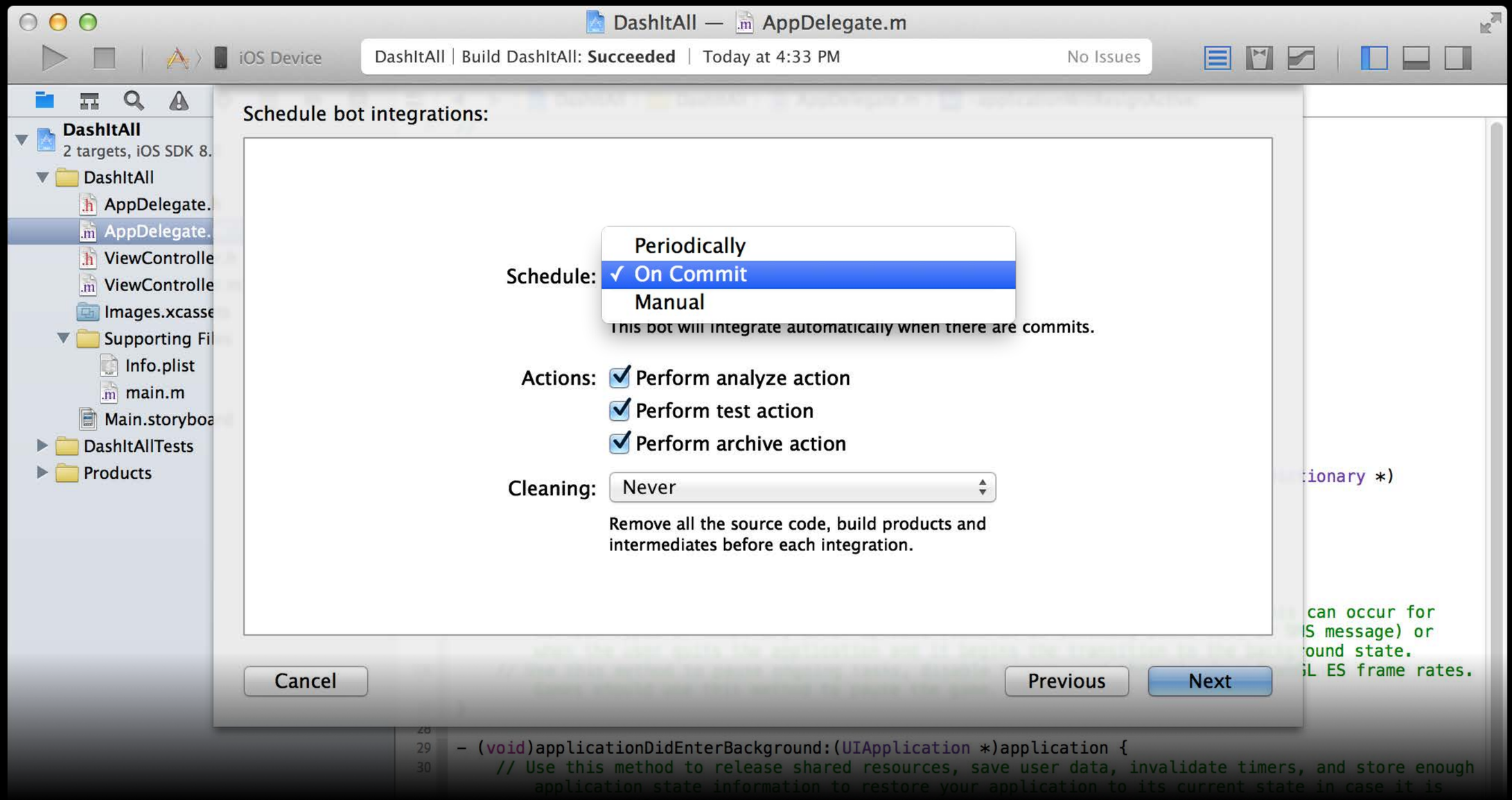

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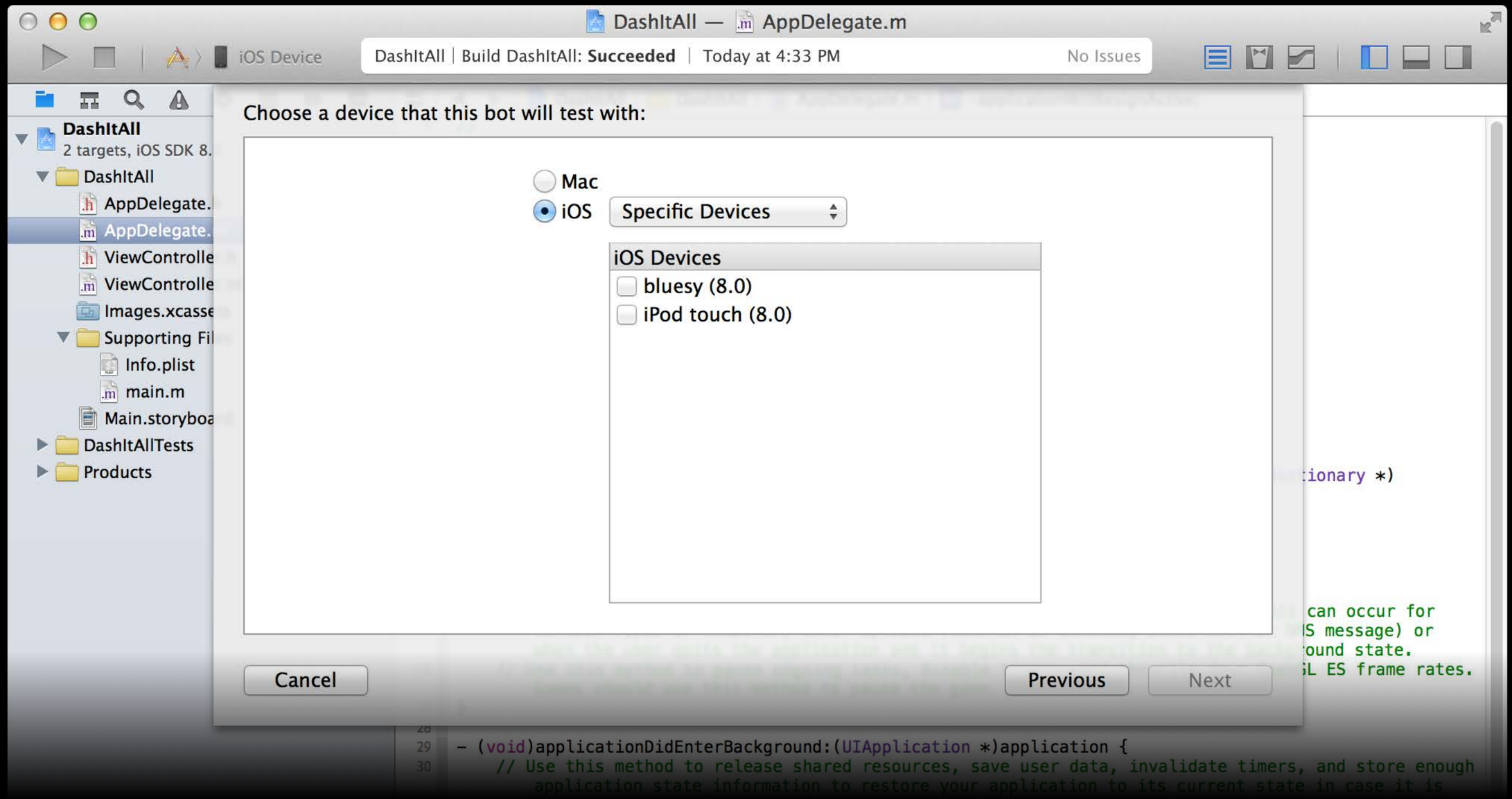
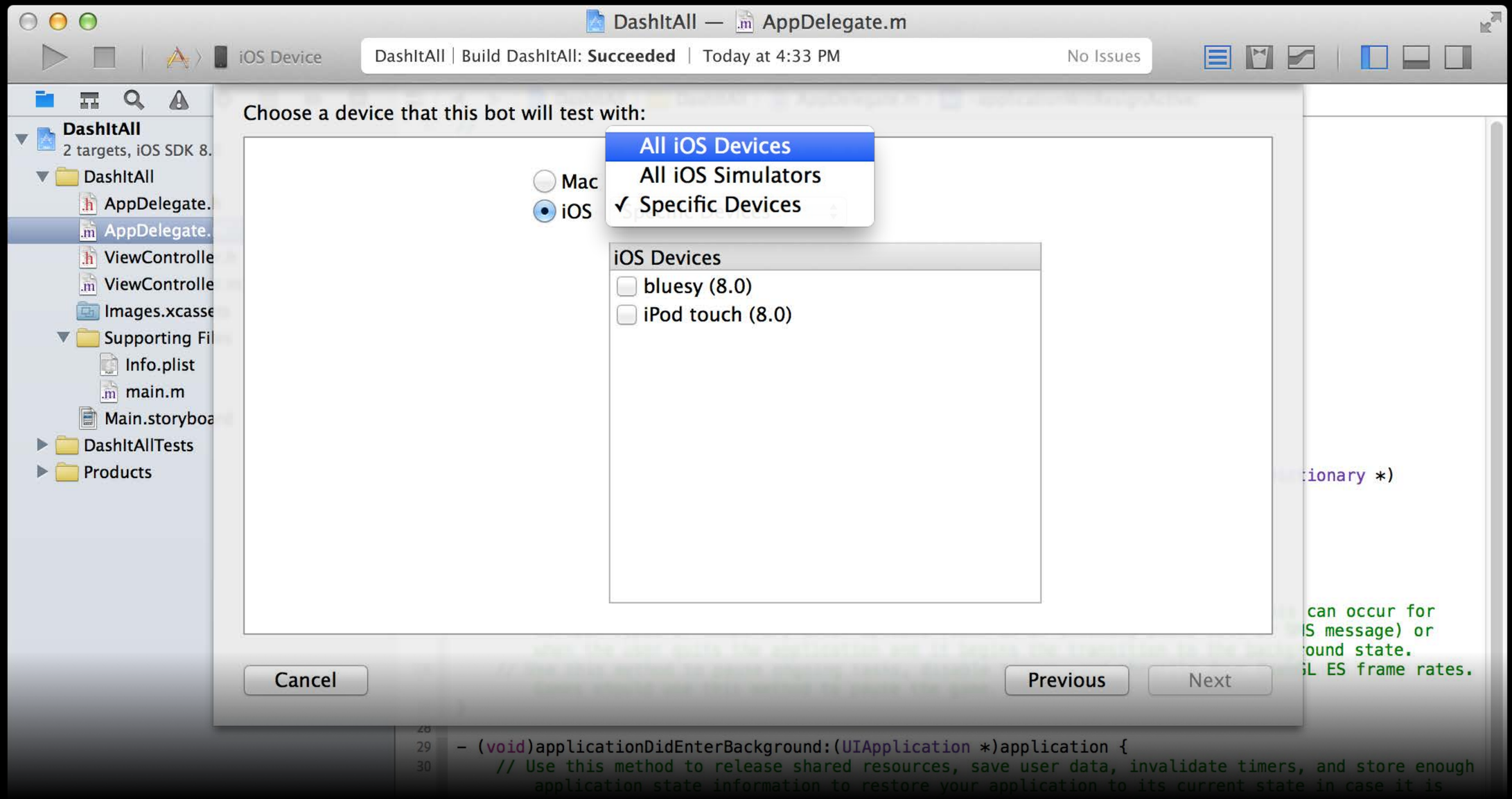


Create the Bot



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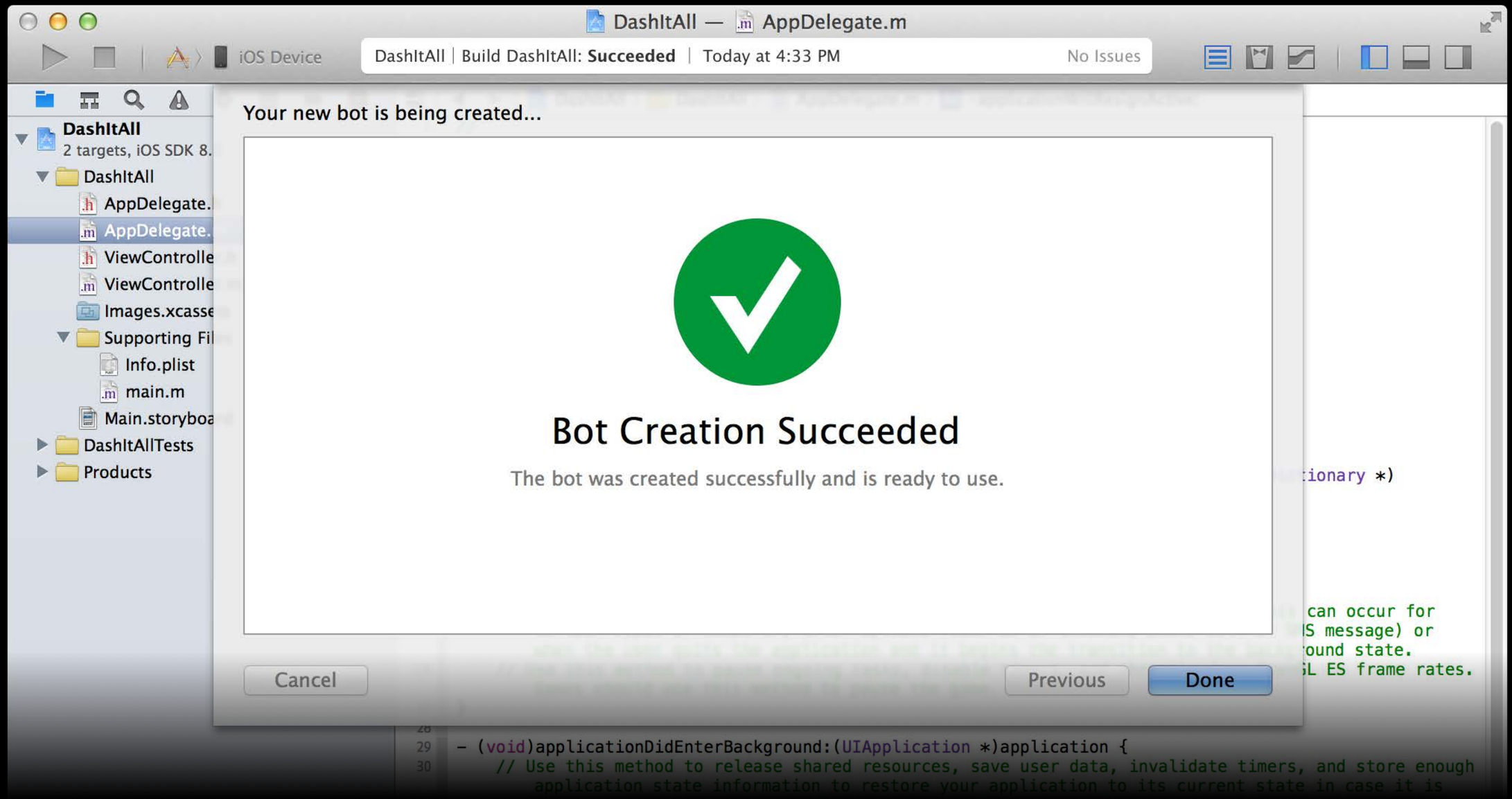
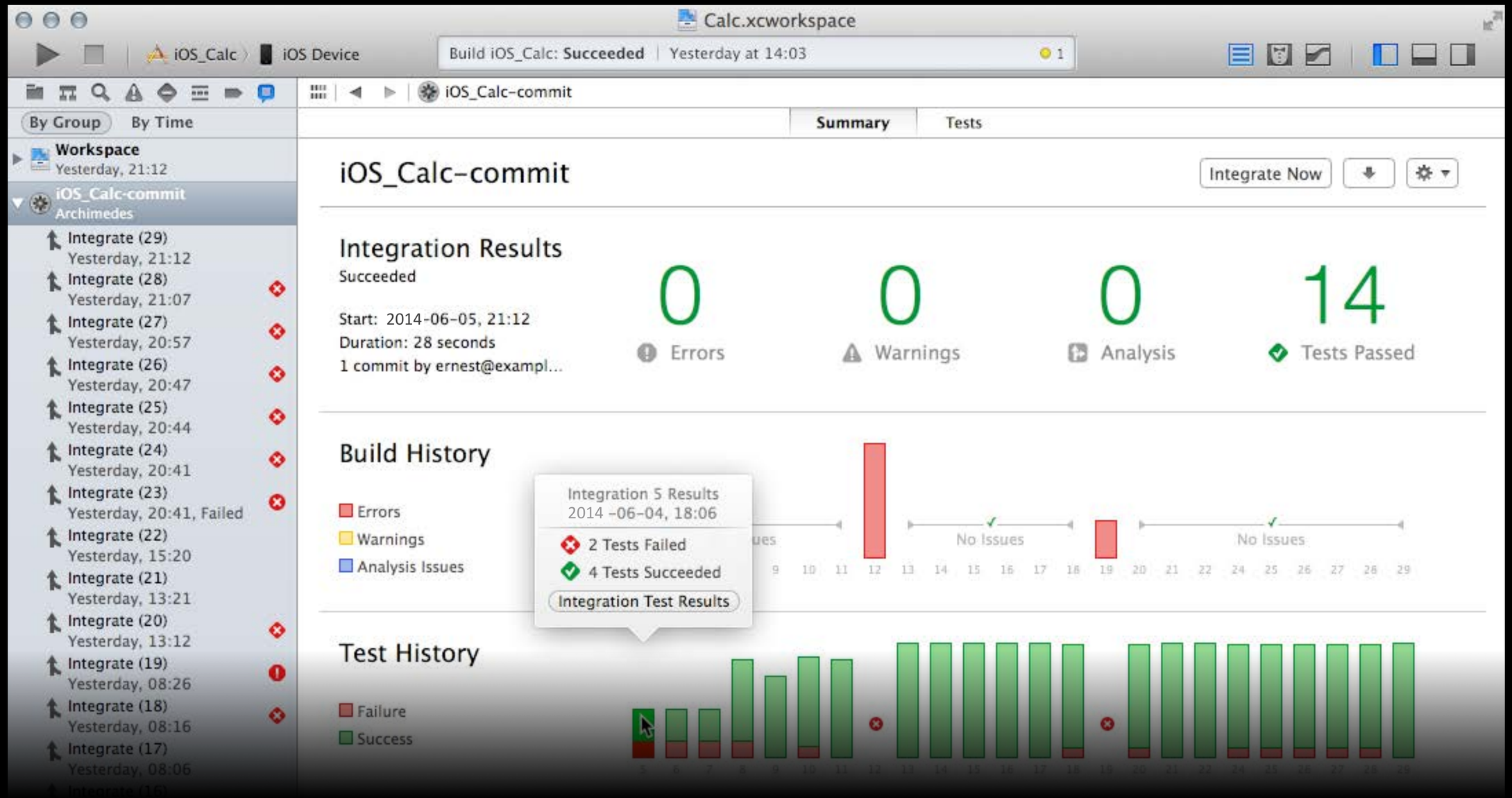
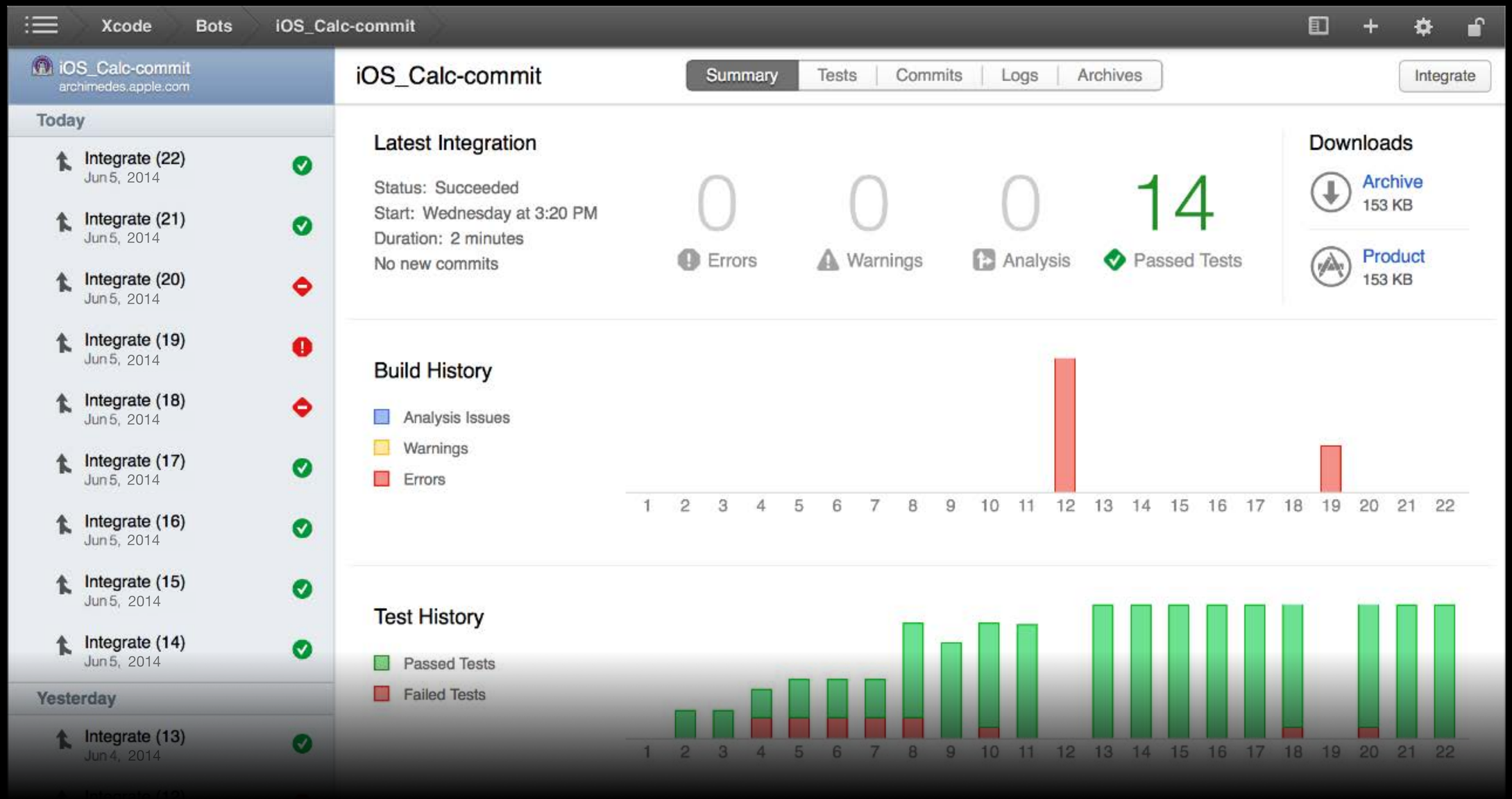


View Bot Reports



View Bot Report

https://servername/xcode/bots



Bot Output

Test results

Static analysis

Logs

Xcode project archives

Ad-Hoc signed products

Great for QA

Summary

Hub for development

Install OS X server and Xcode

Sign in with Enterprise account

Host code repository

Connect to test devices

Bots for continuous integration

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

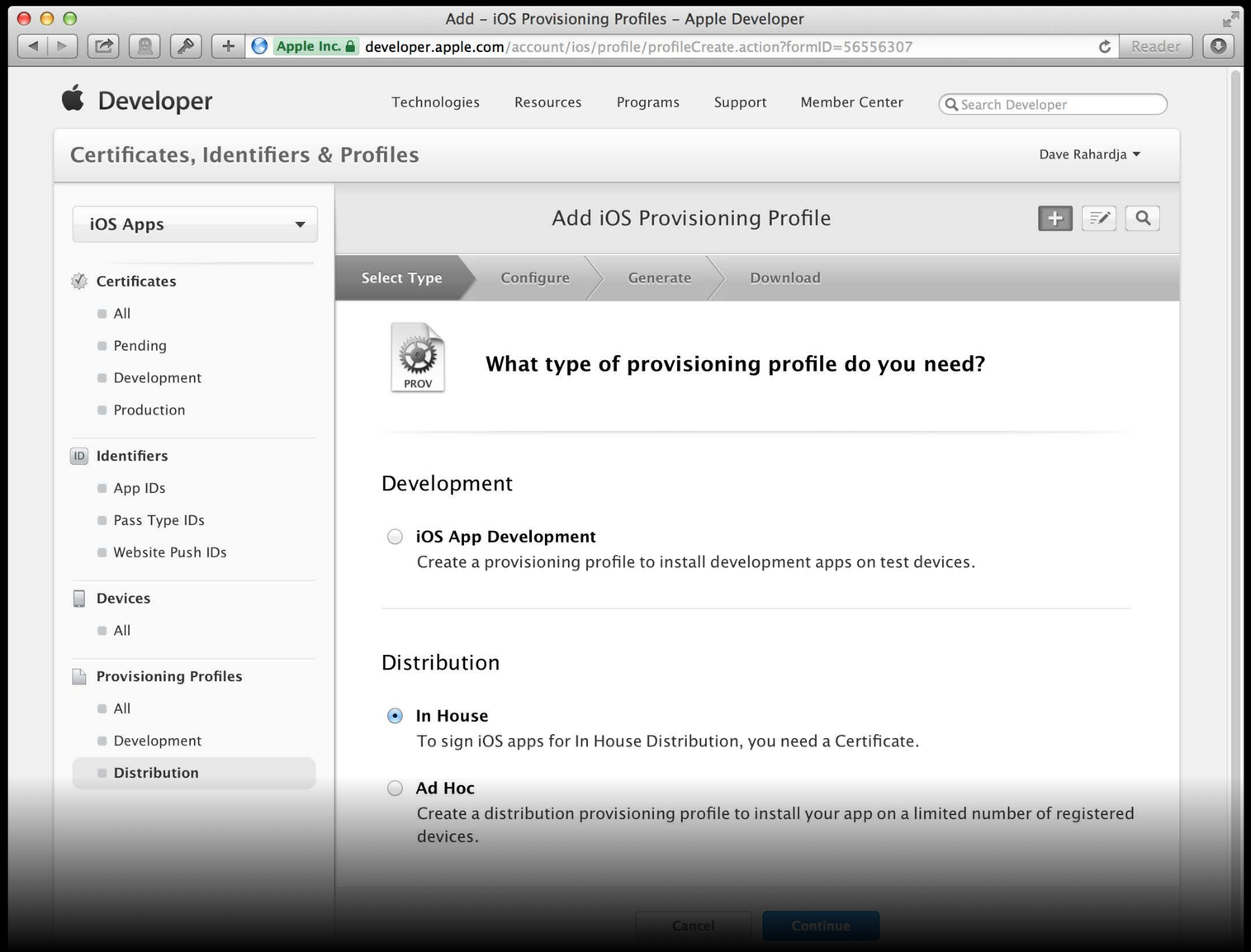
Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Distribution Provisioning Profile



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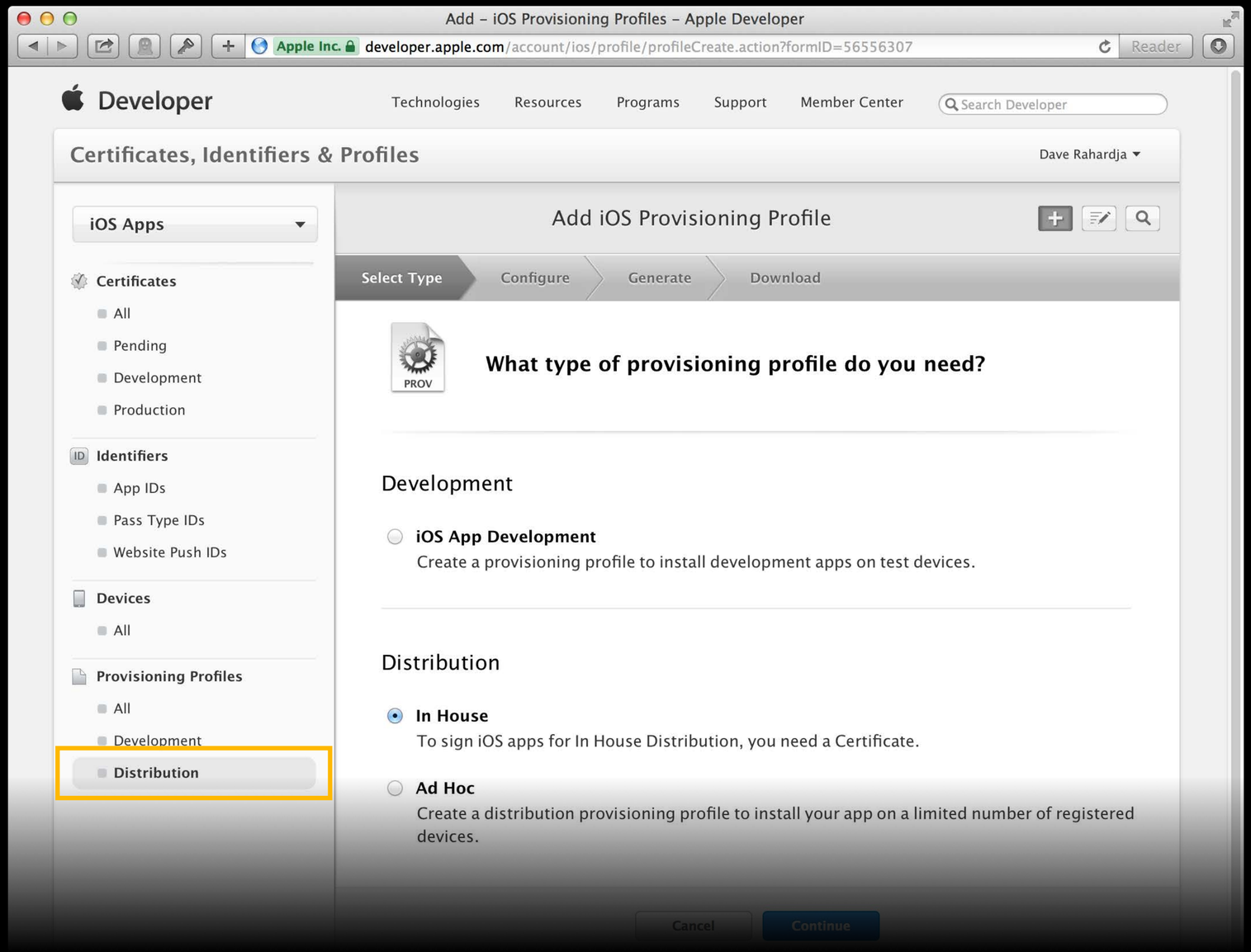

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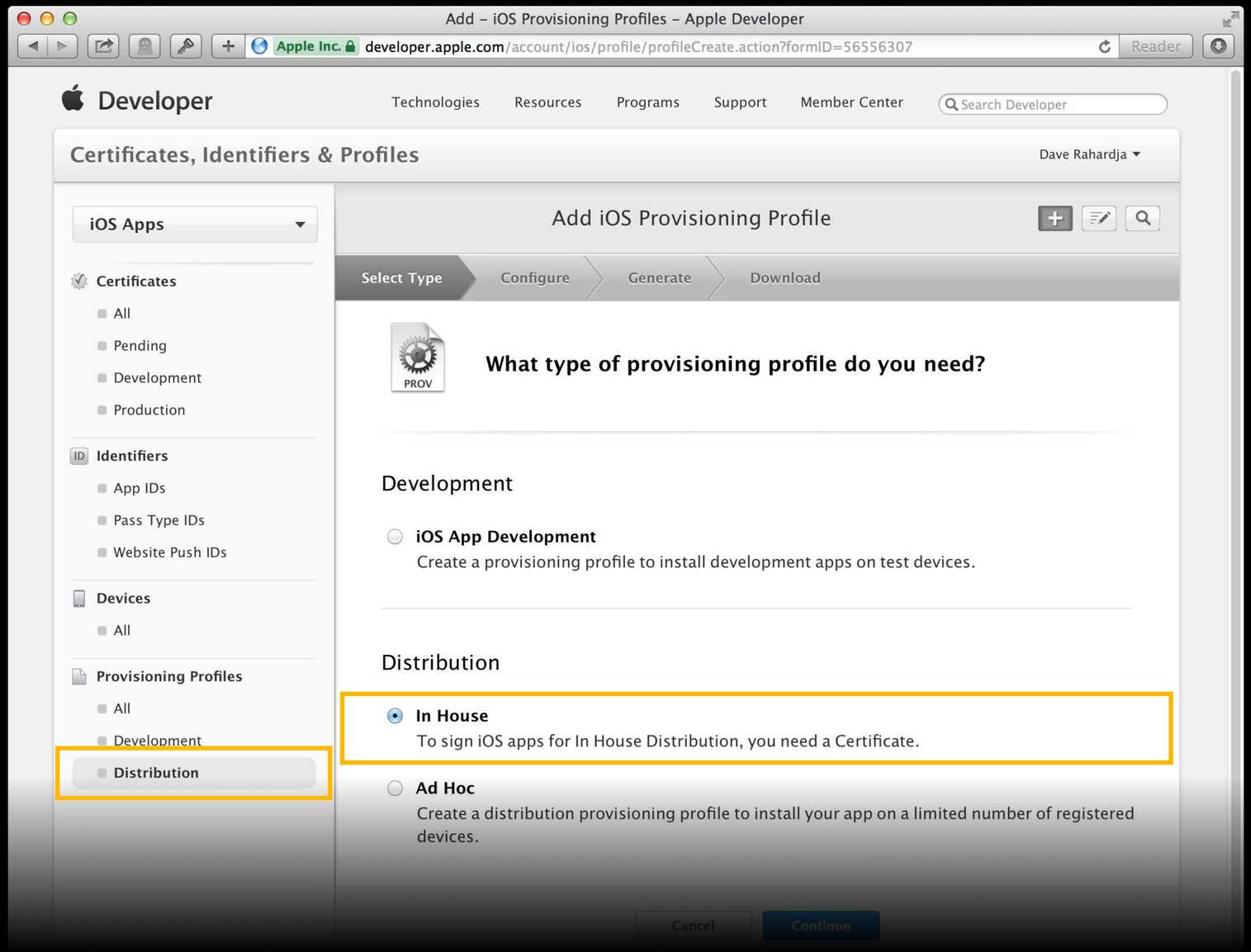

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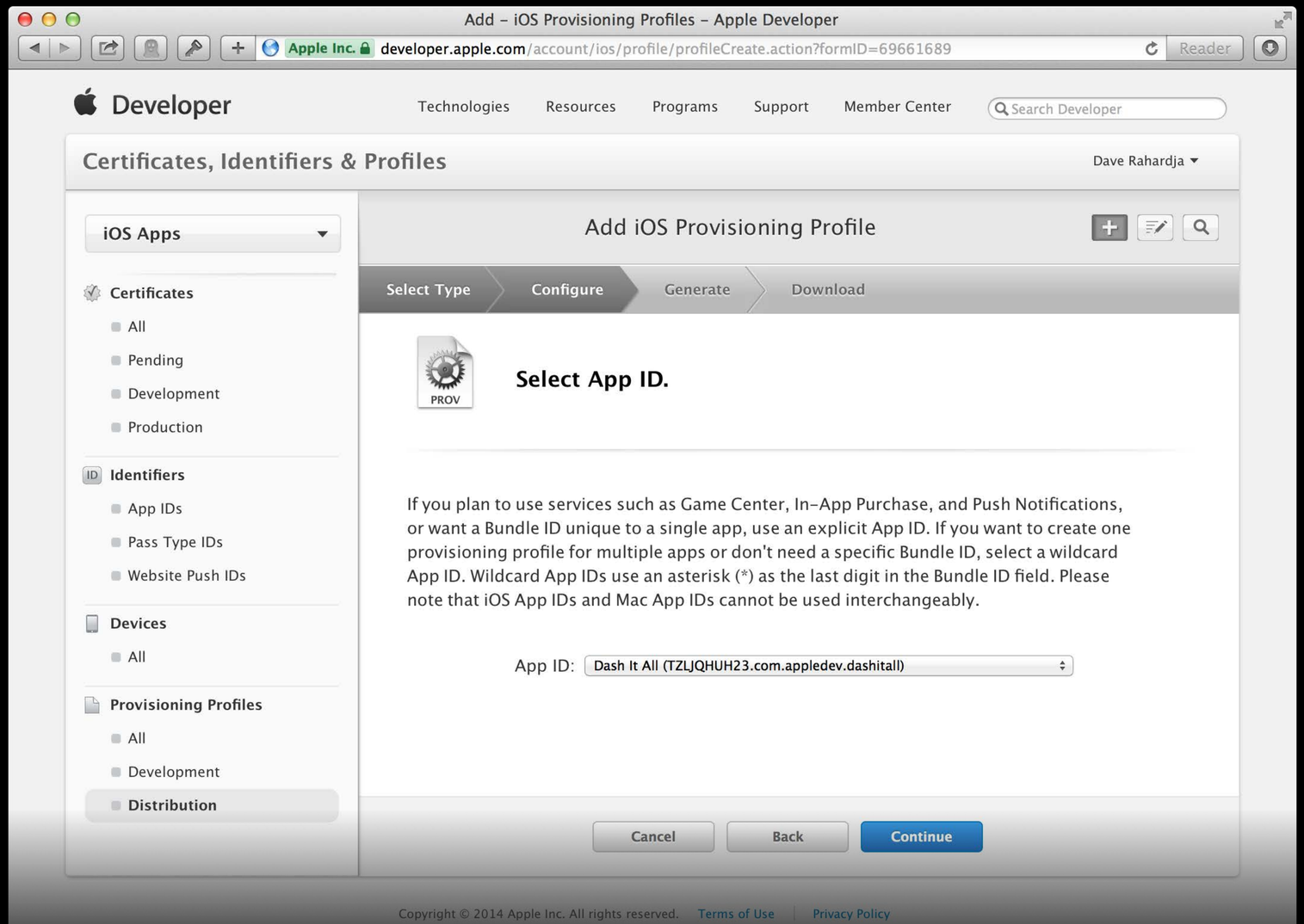

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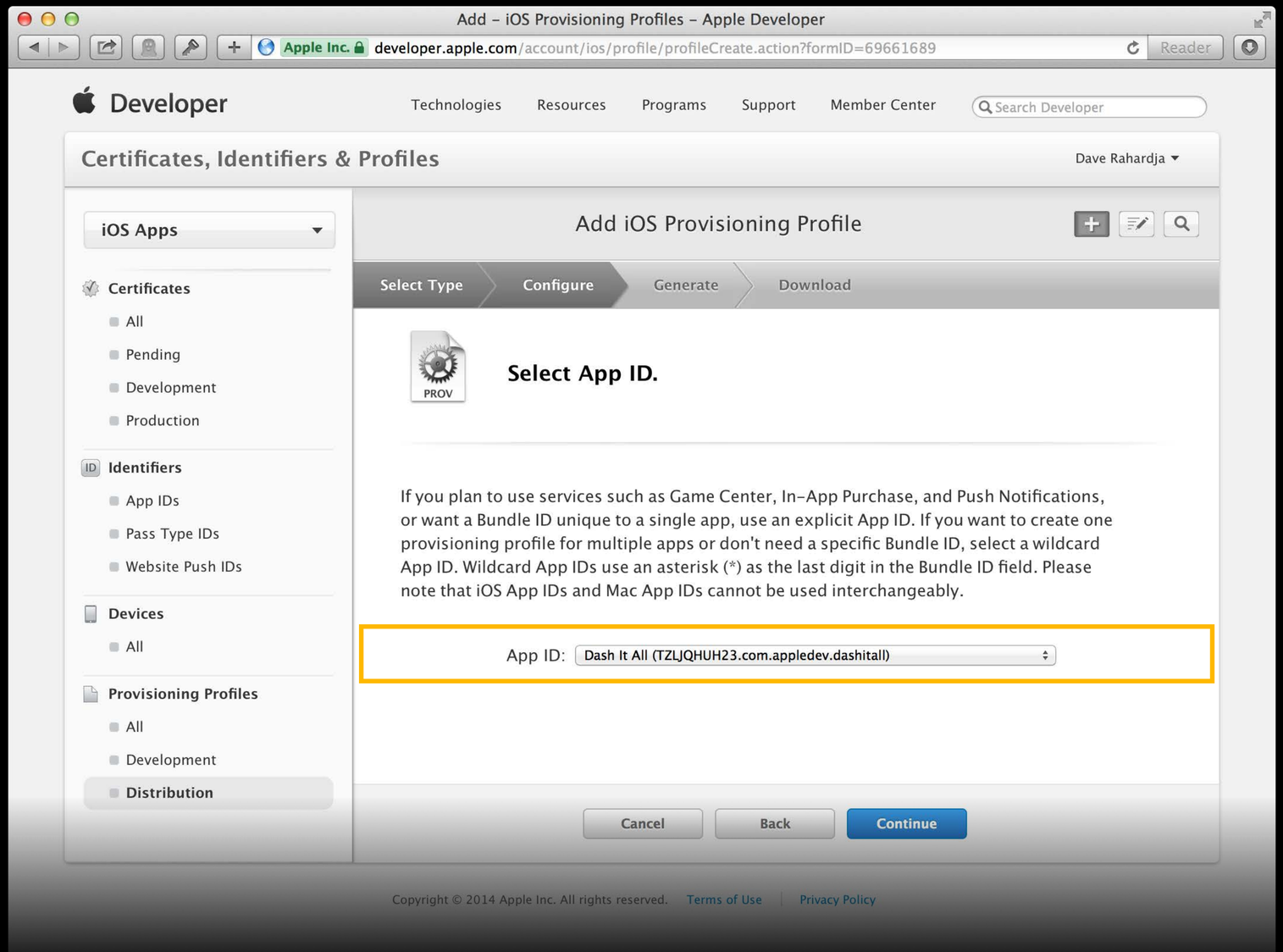
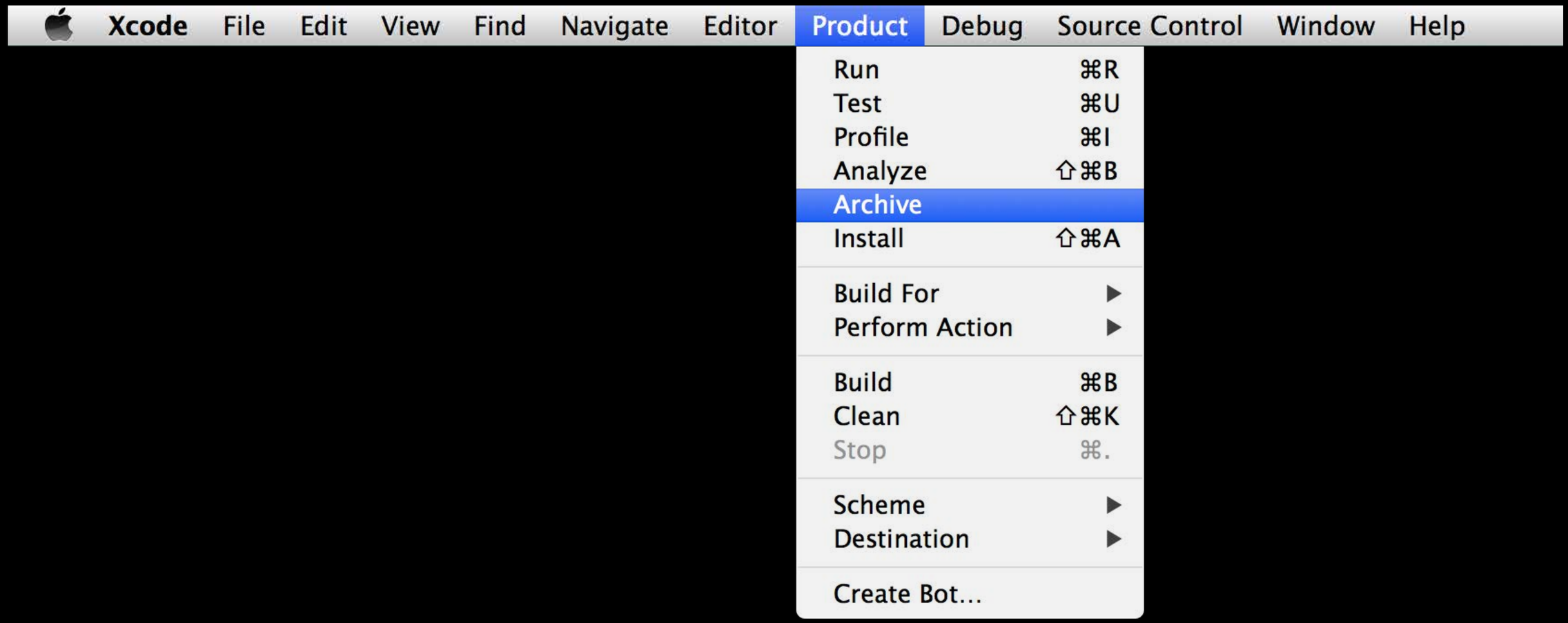


Packaging for Distribution



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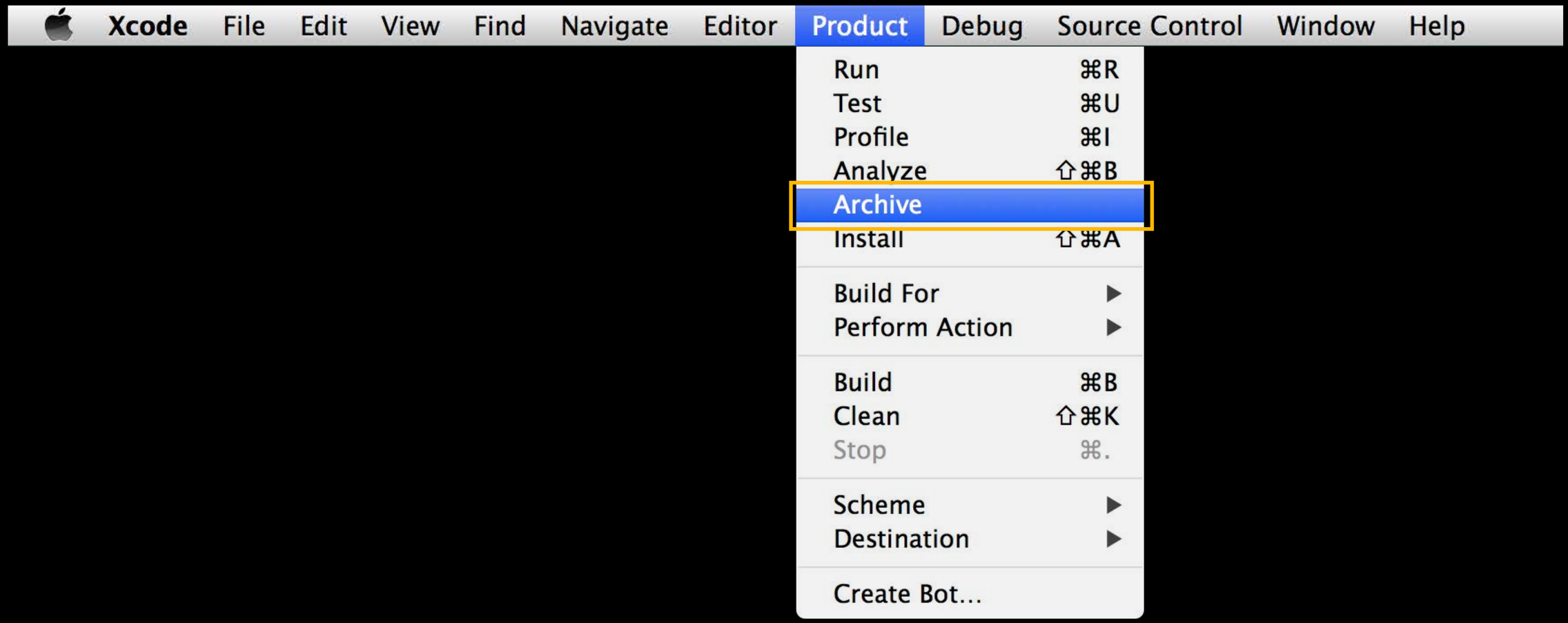

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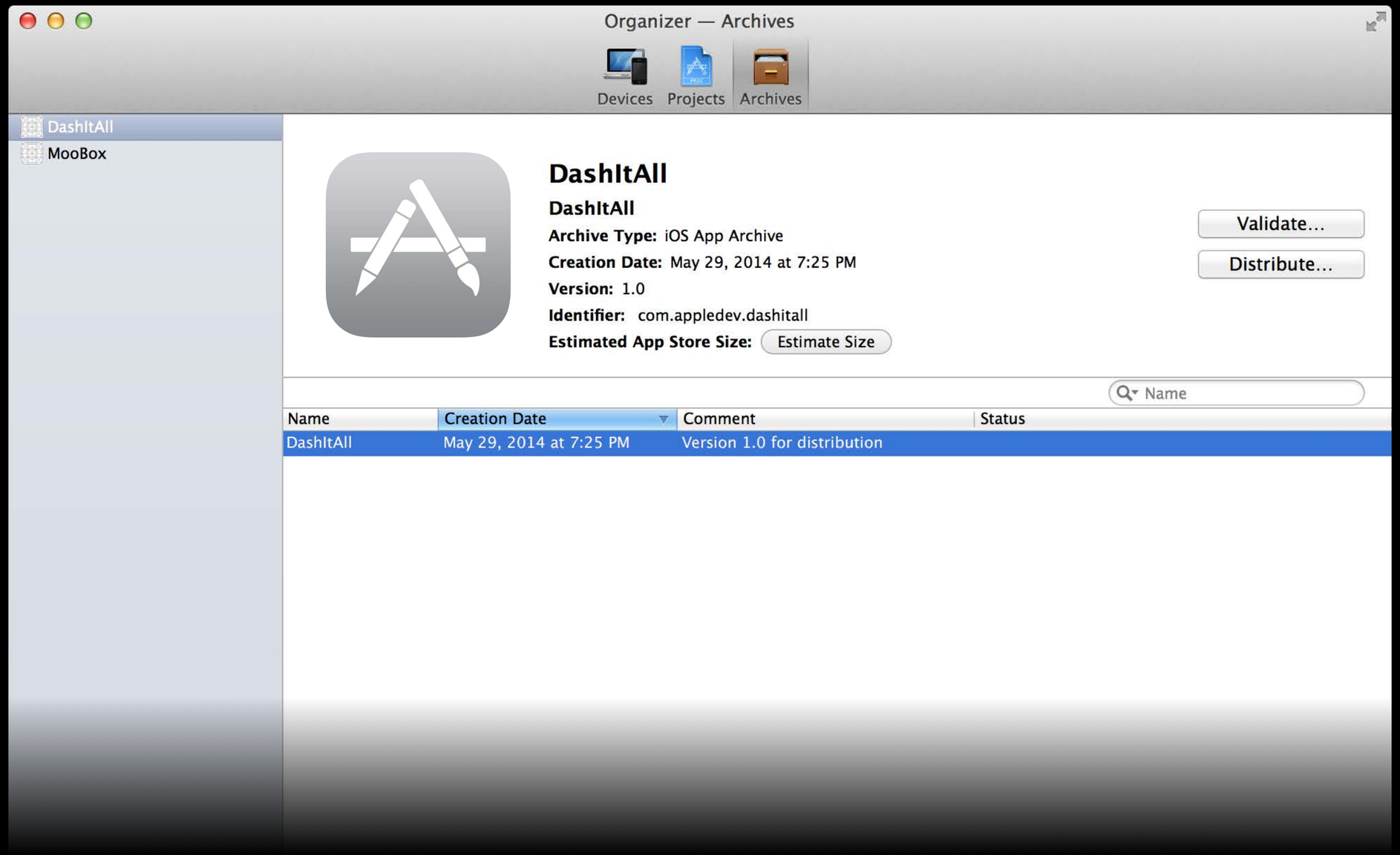

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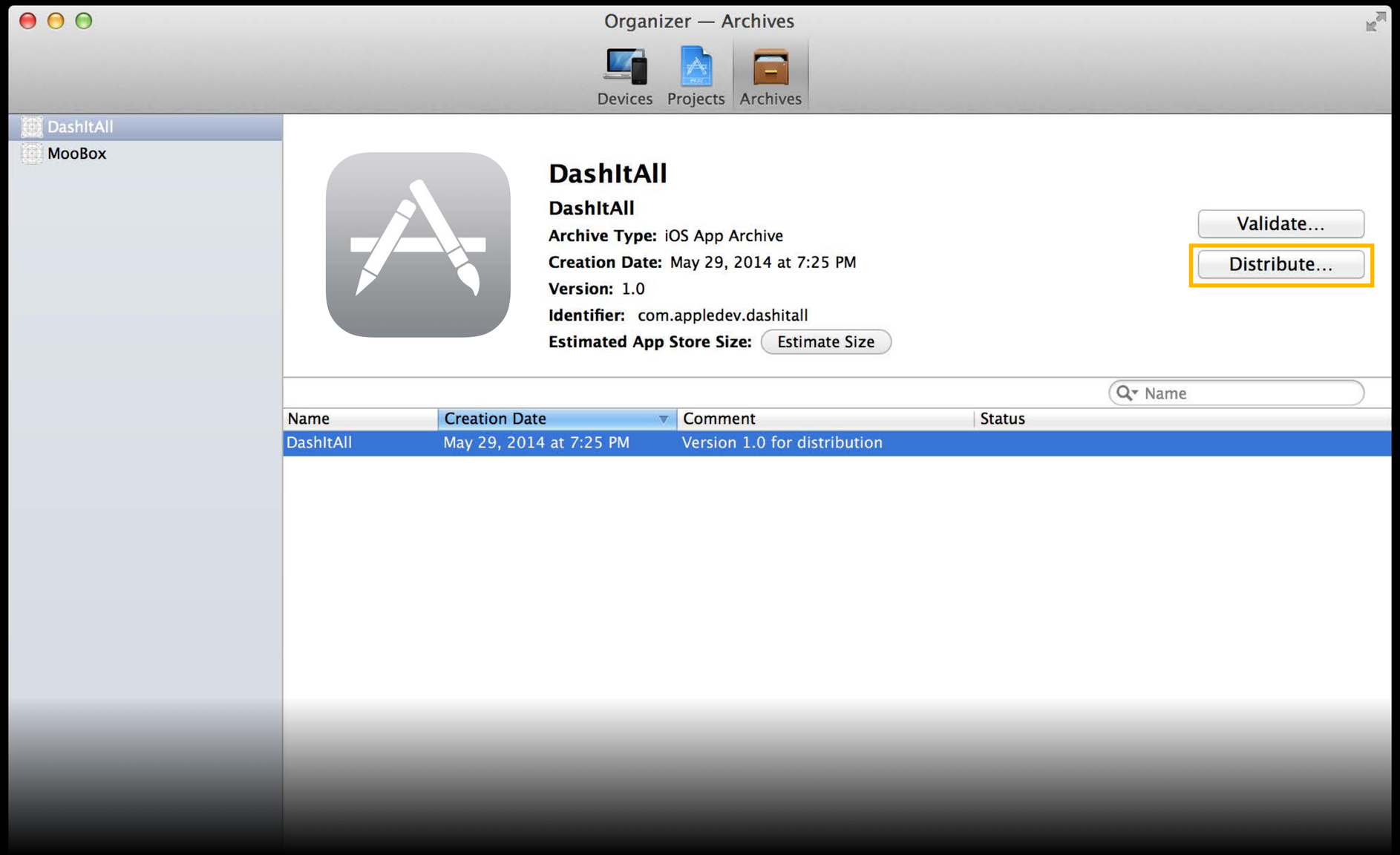

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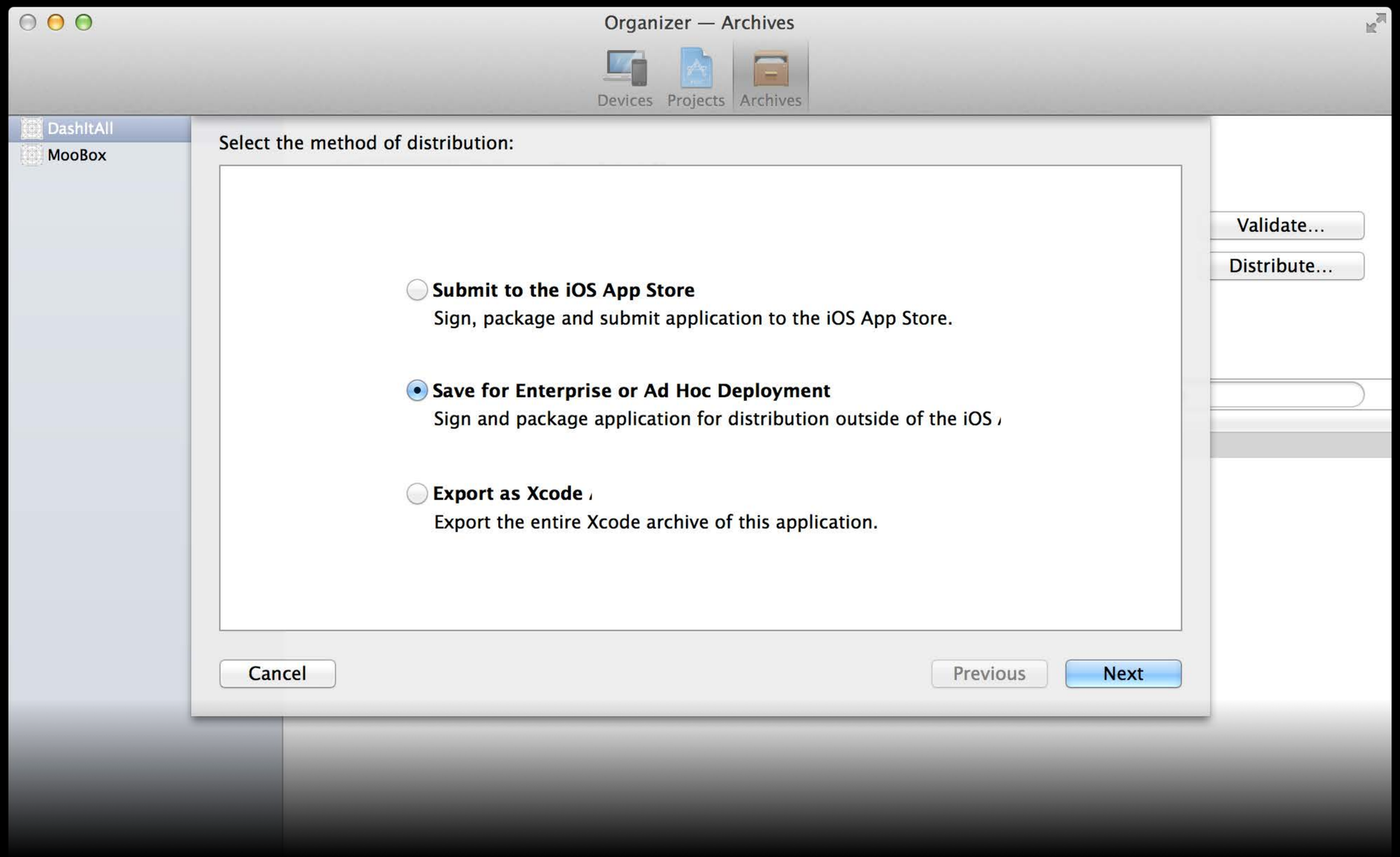

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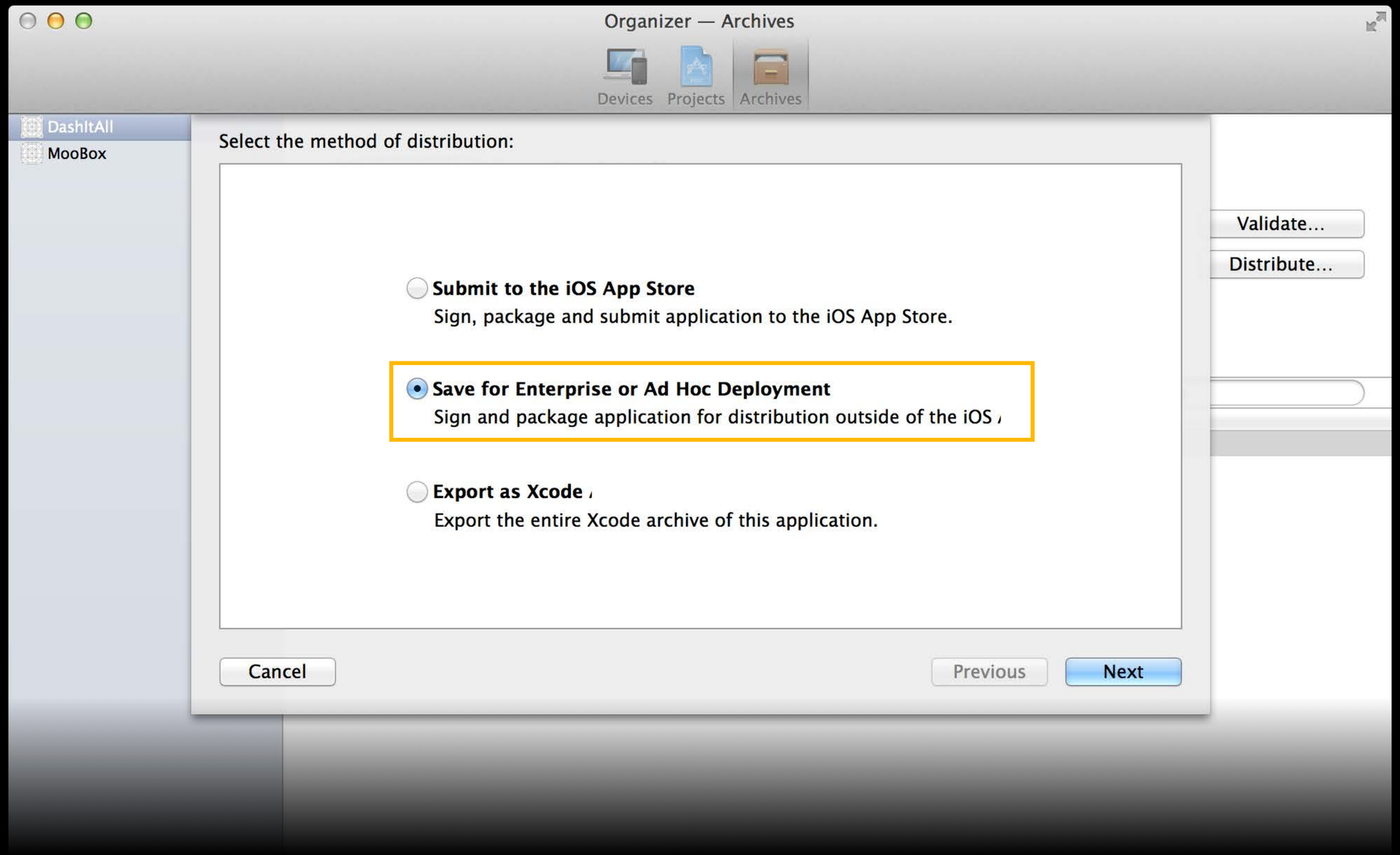

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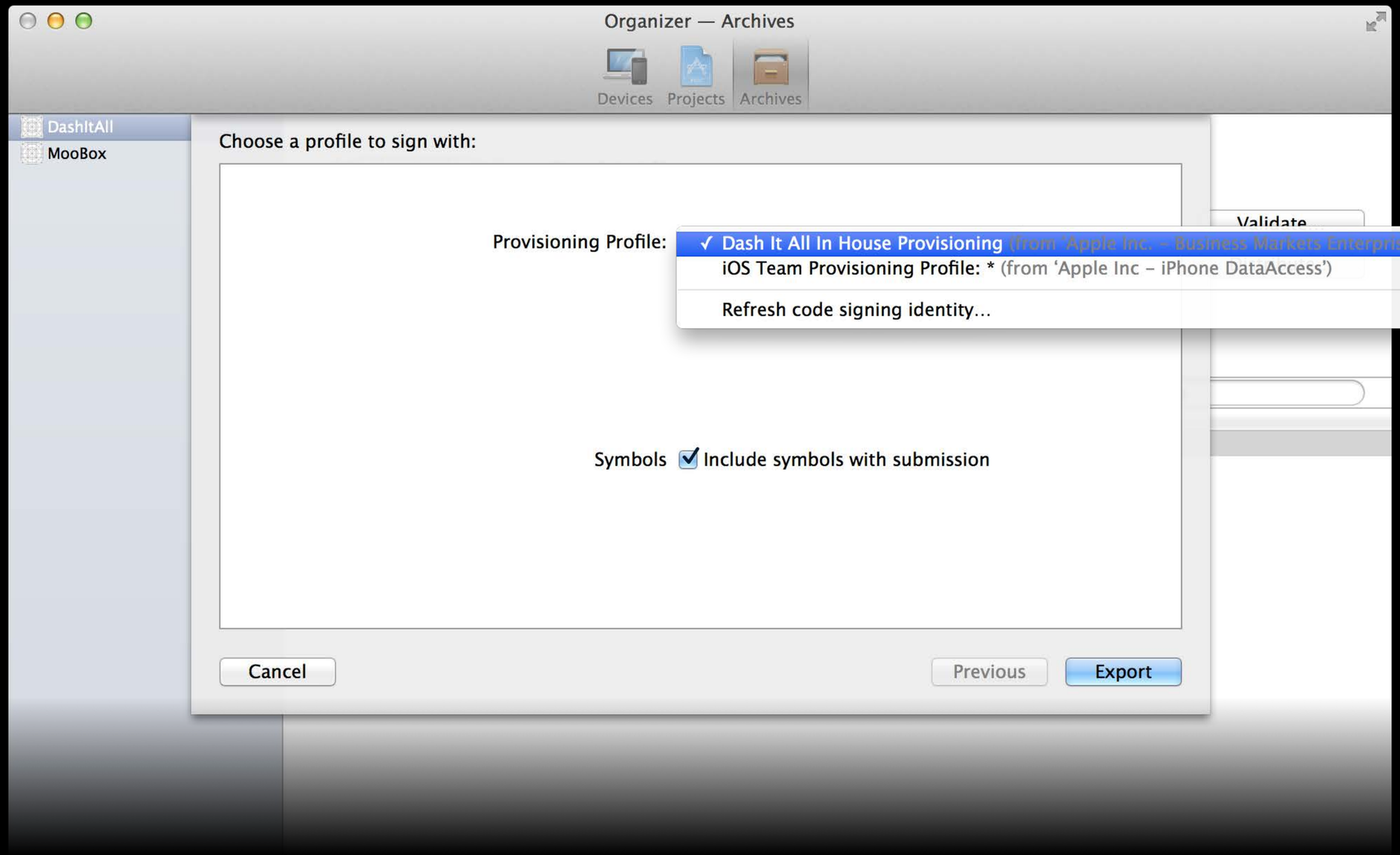

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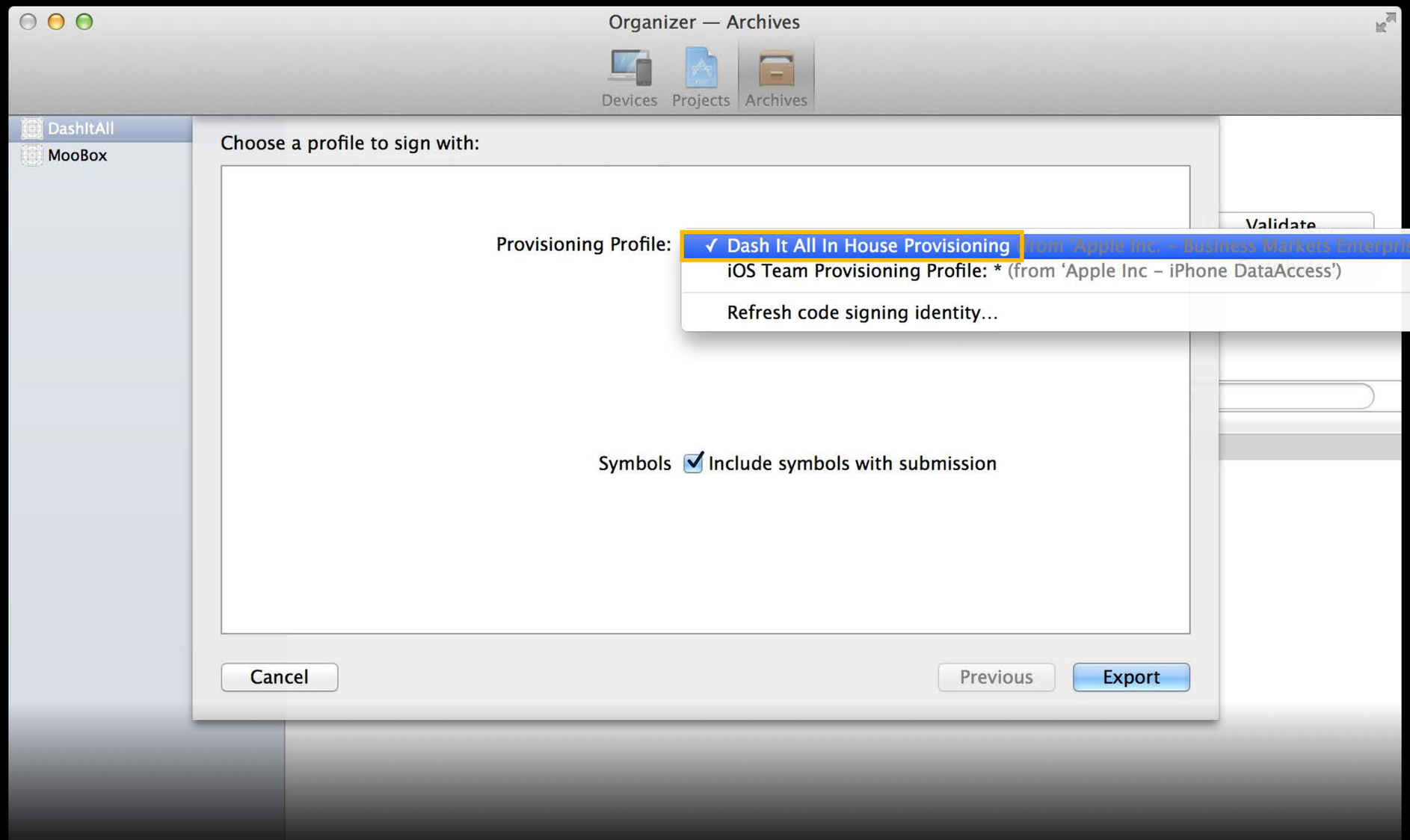

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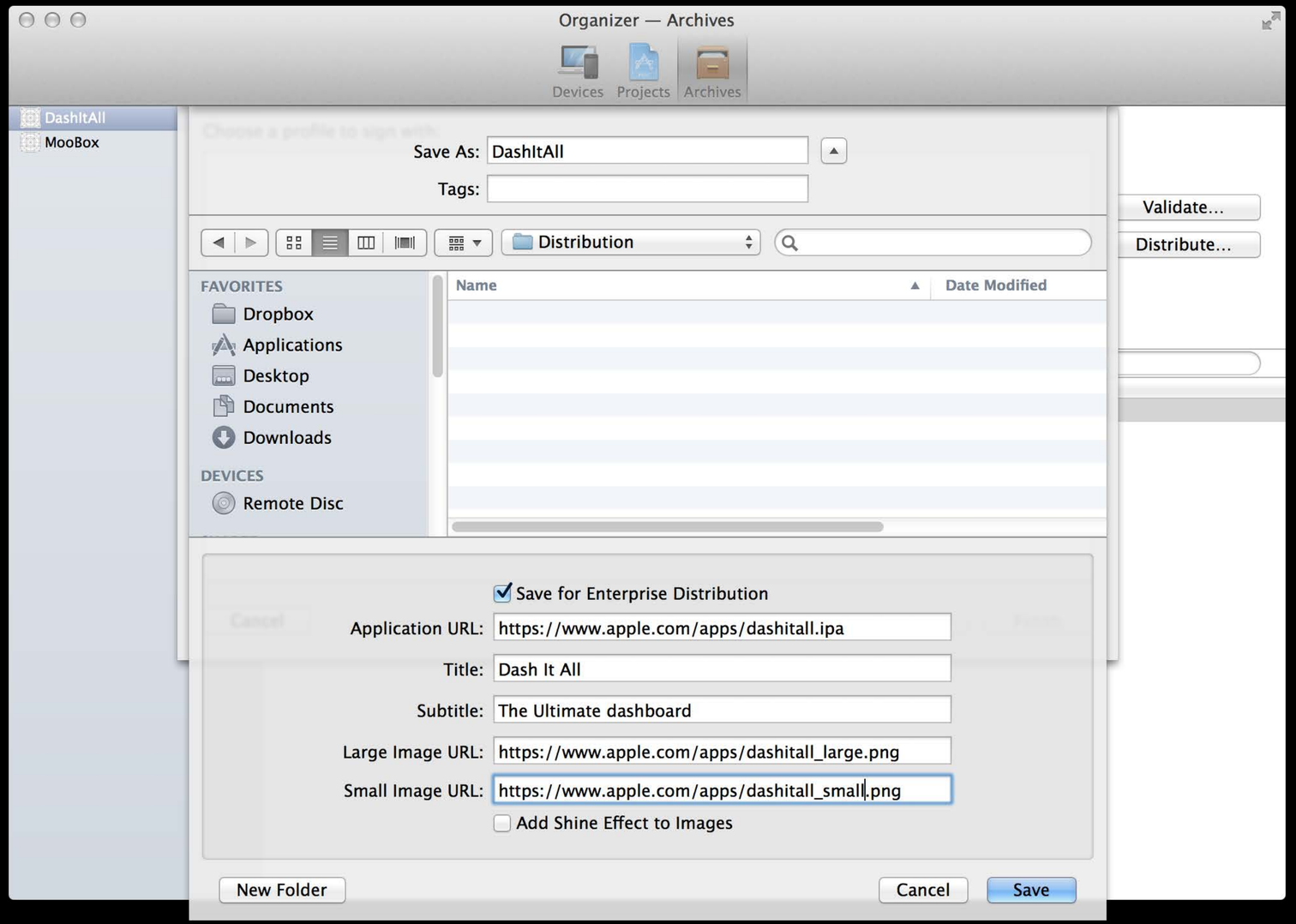

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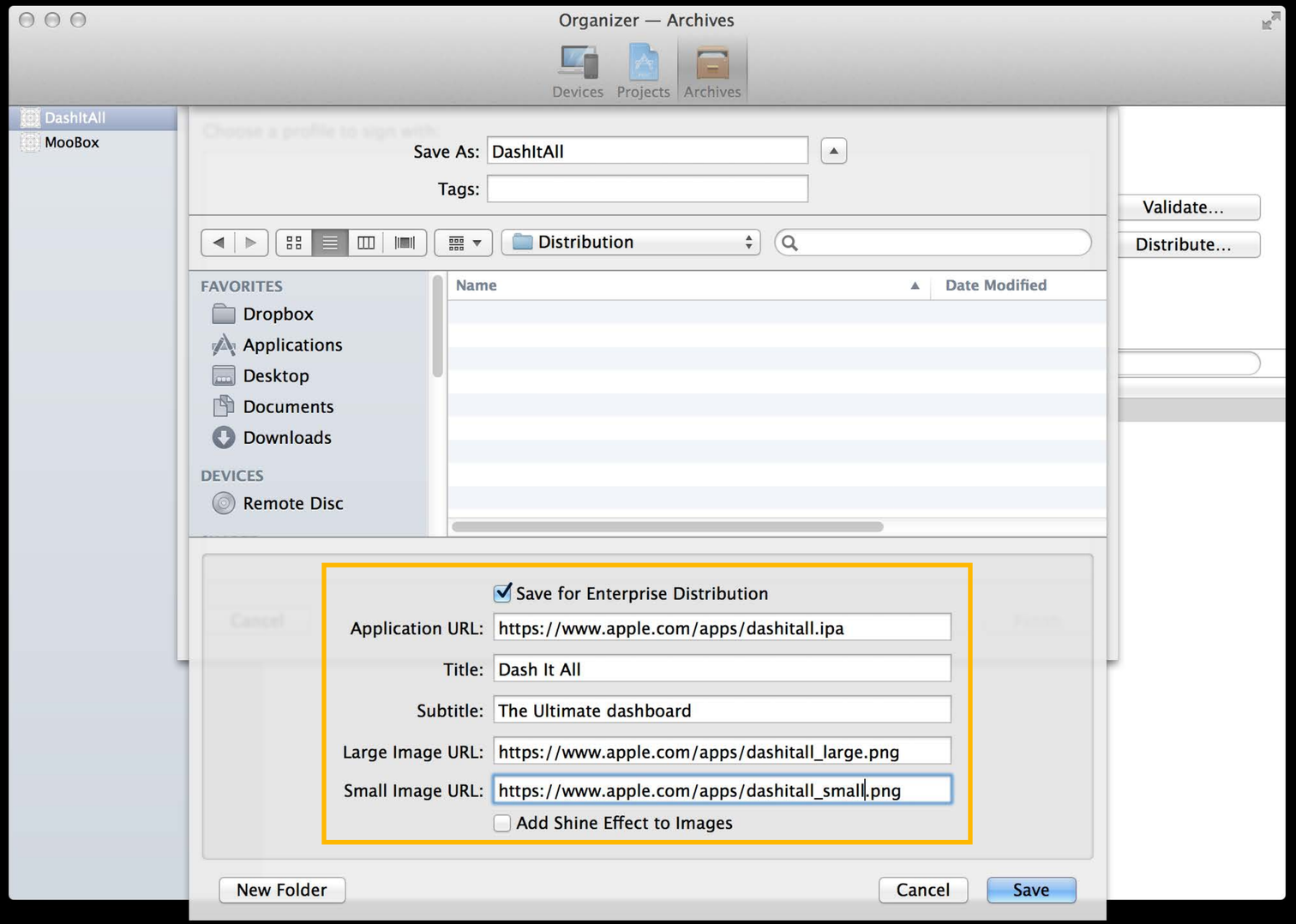

Code Signing and Provisioning Profiles

Code Signing and Provisioning Profiles

Code Signing Certificates

- Valid for three years
- Up to two valid certs at a time
- Update app binary to renew

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Enterprise Apps need valid code signing and provisioning profile to run

Code Signing and Provisioning Profile

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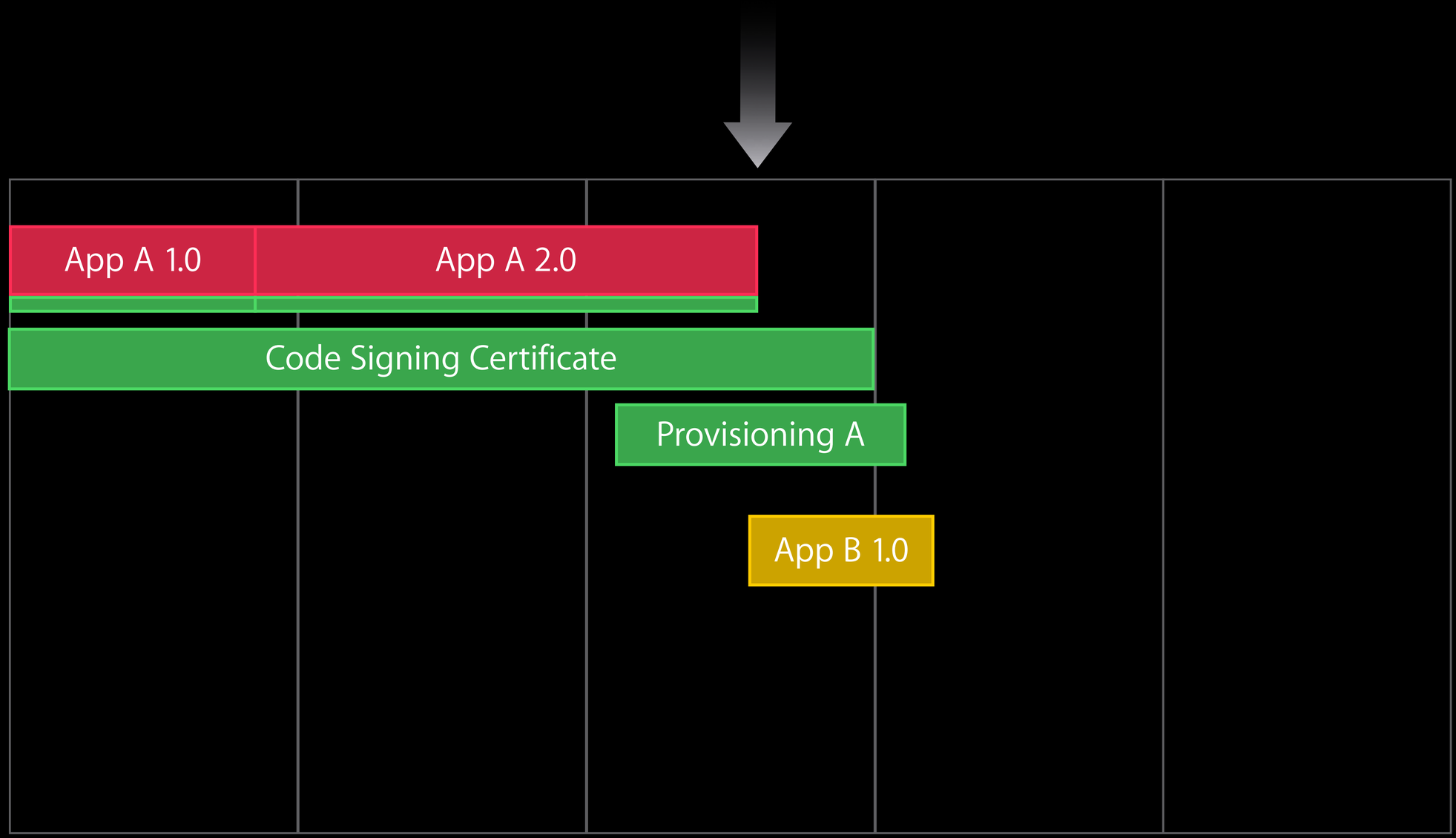

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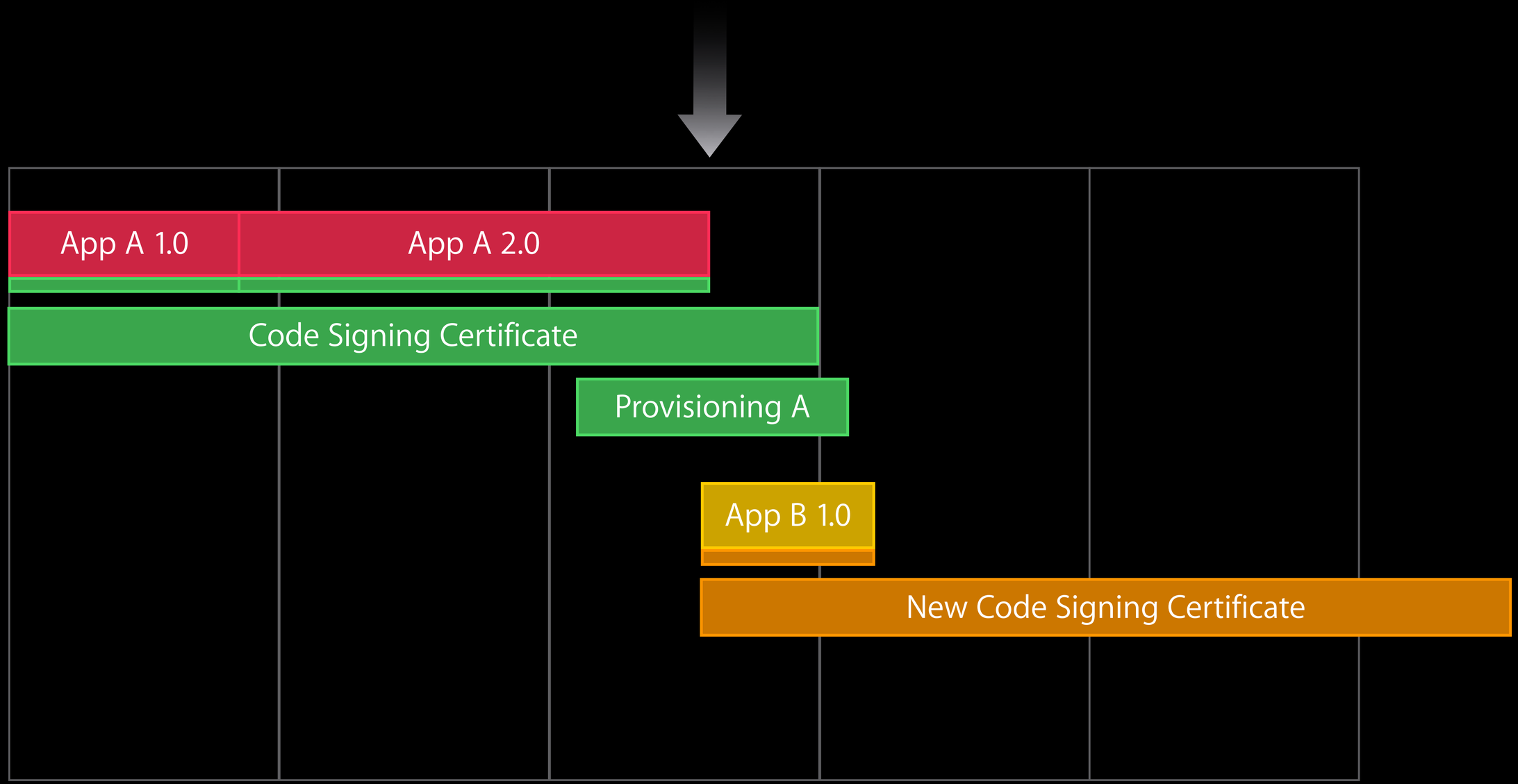

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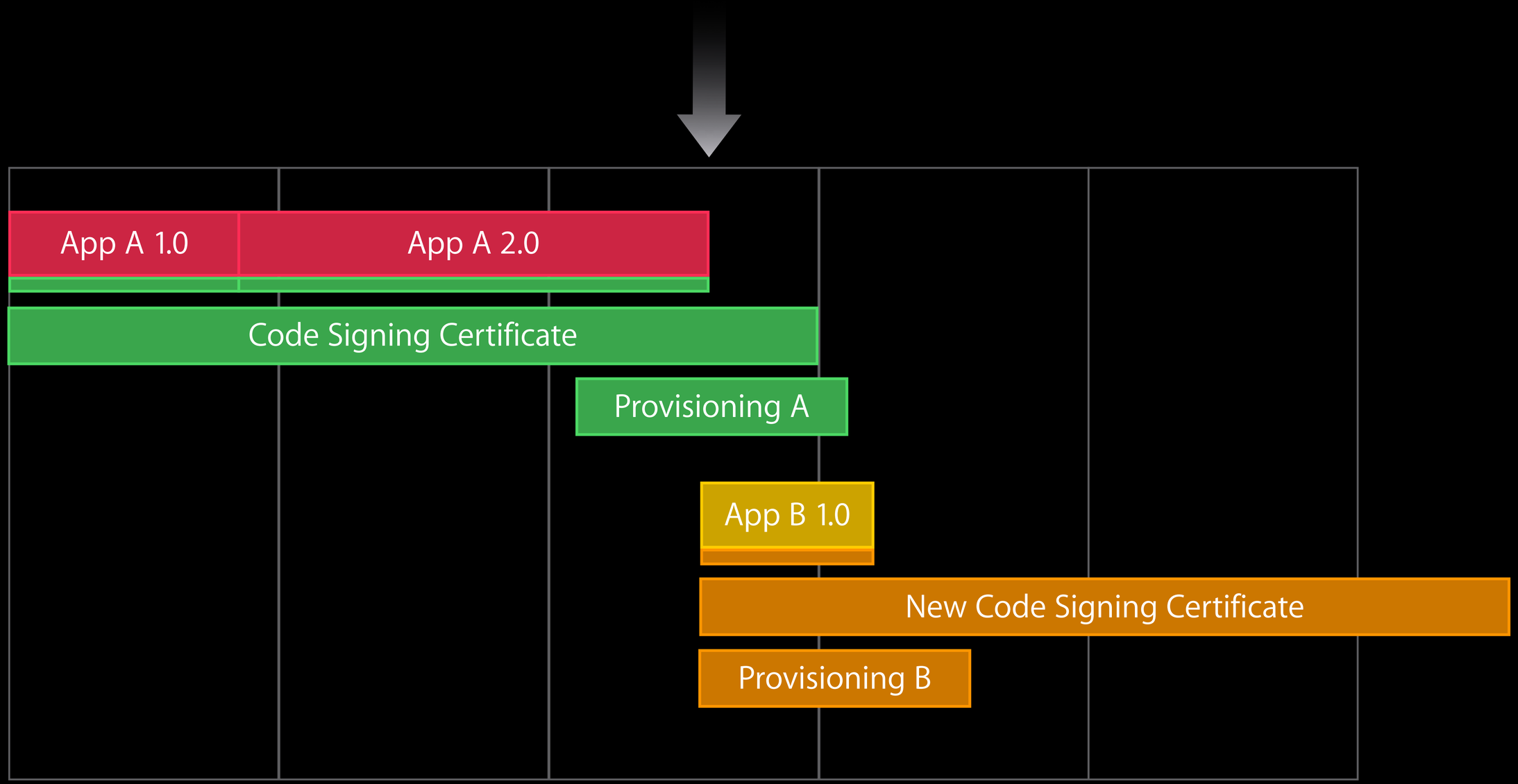

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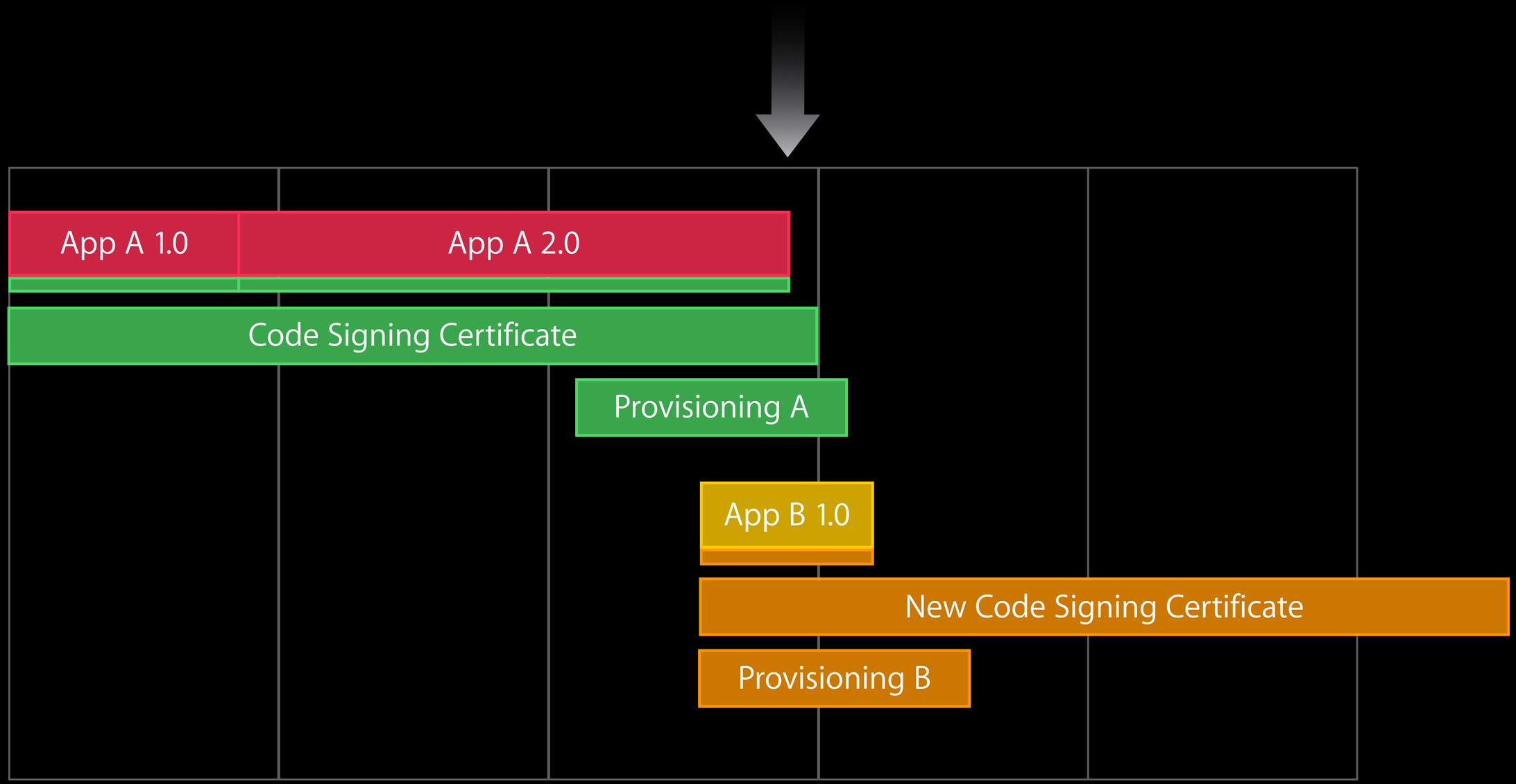

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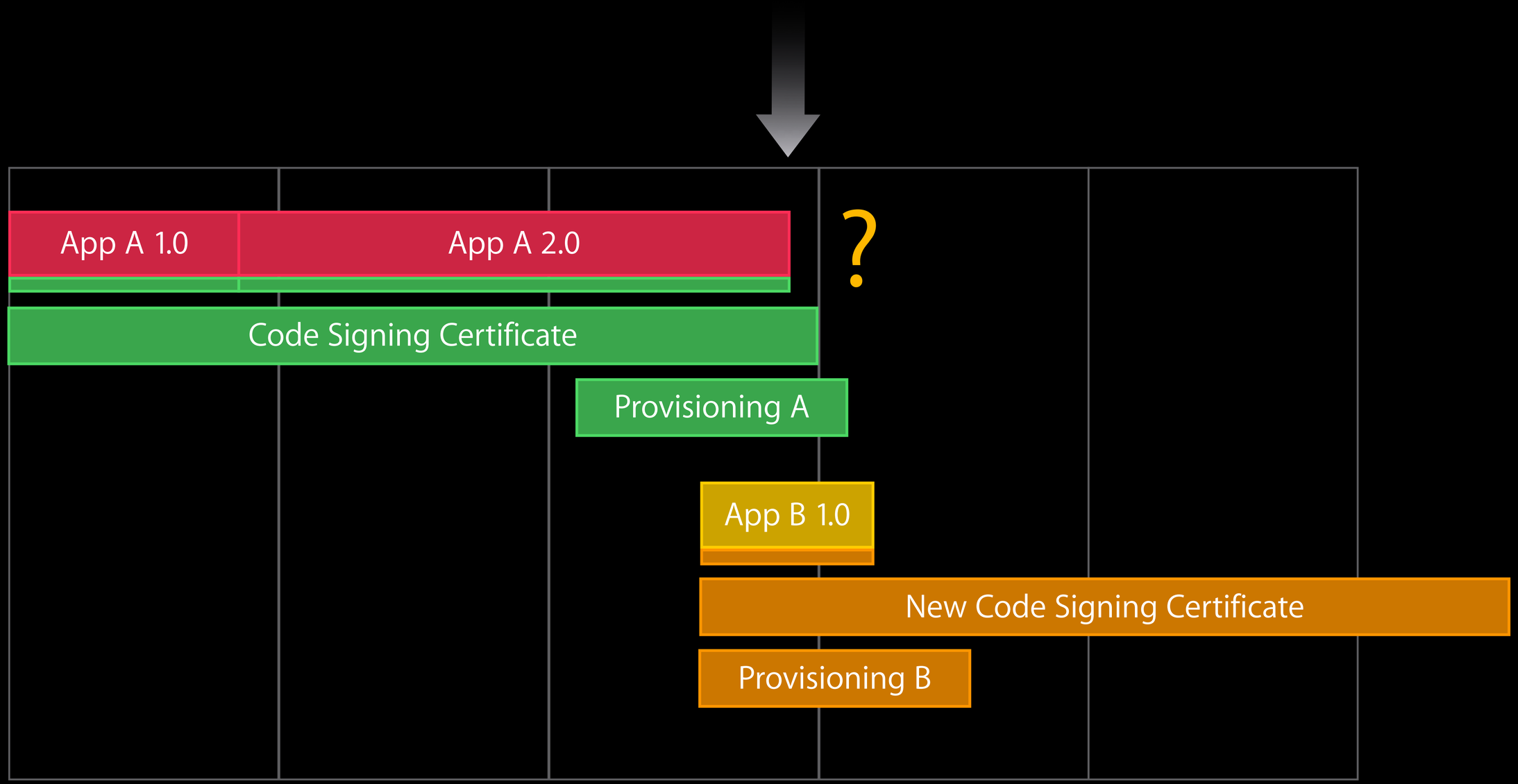

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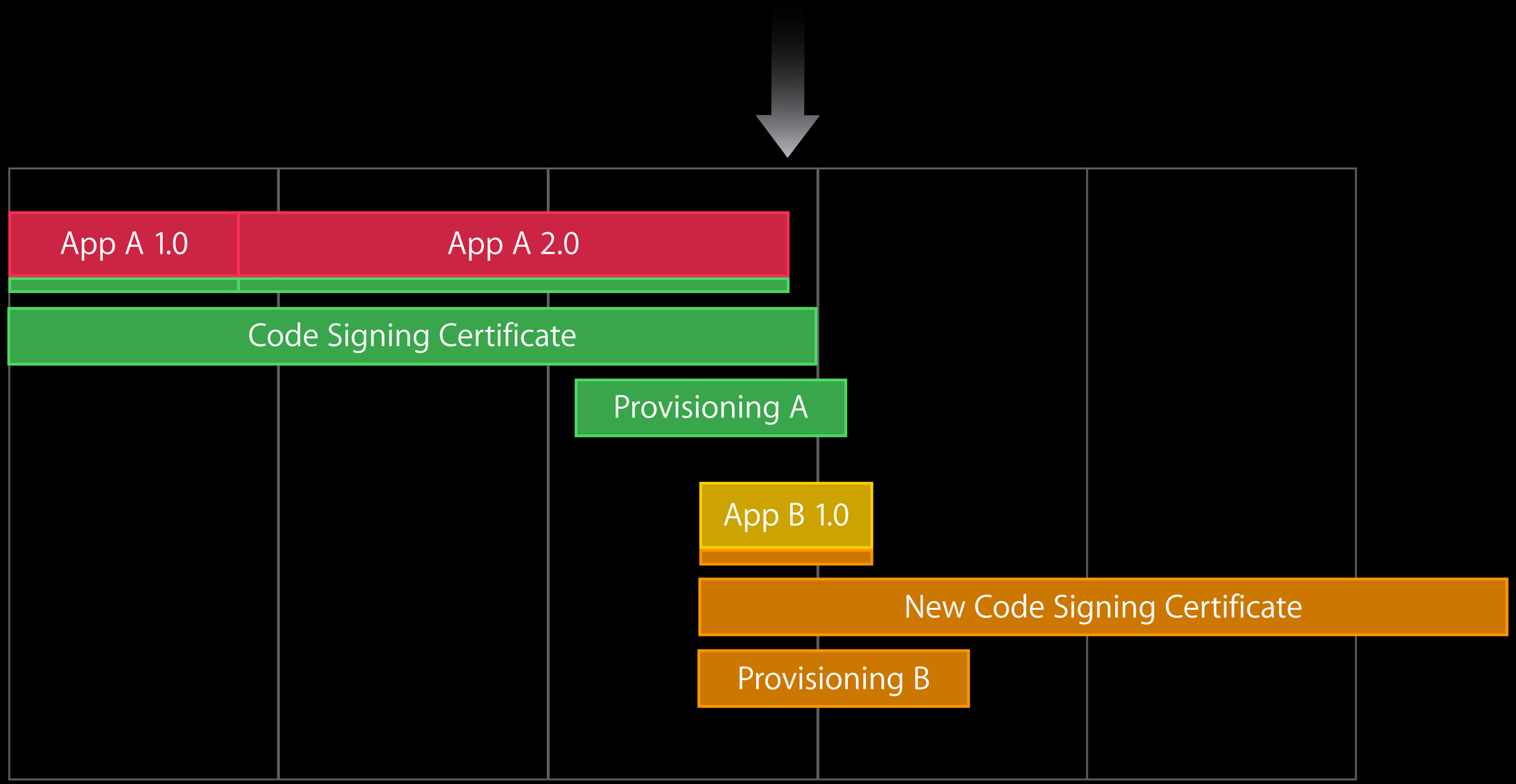

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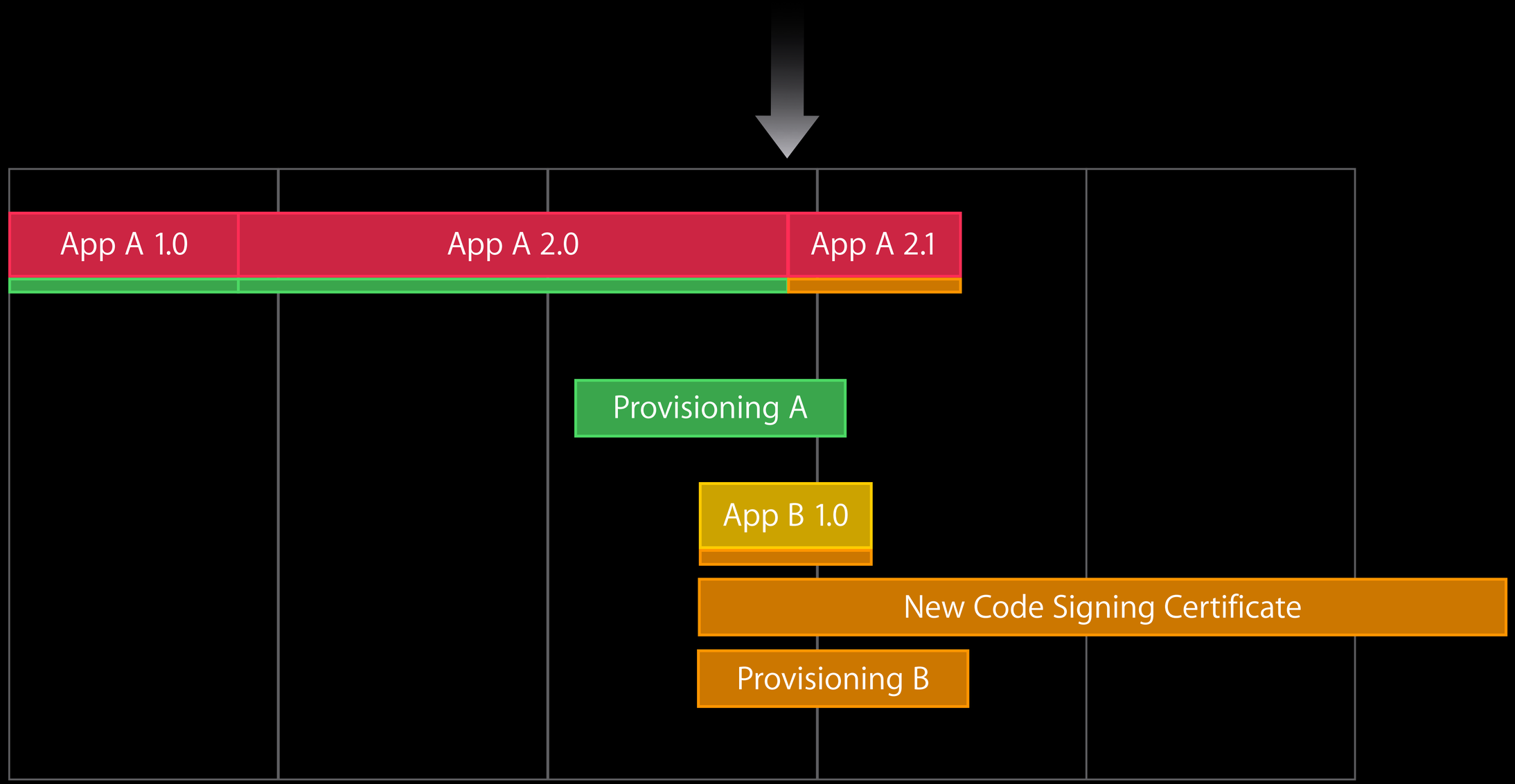

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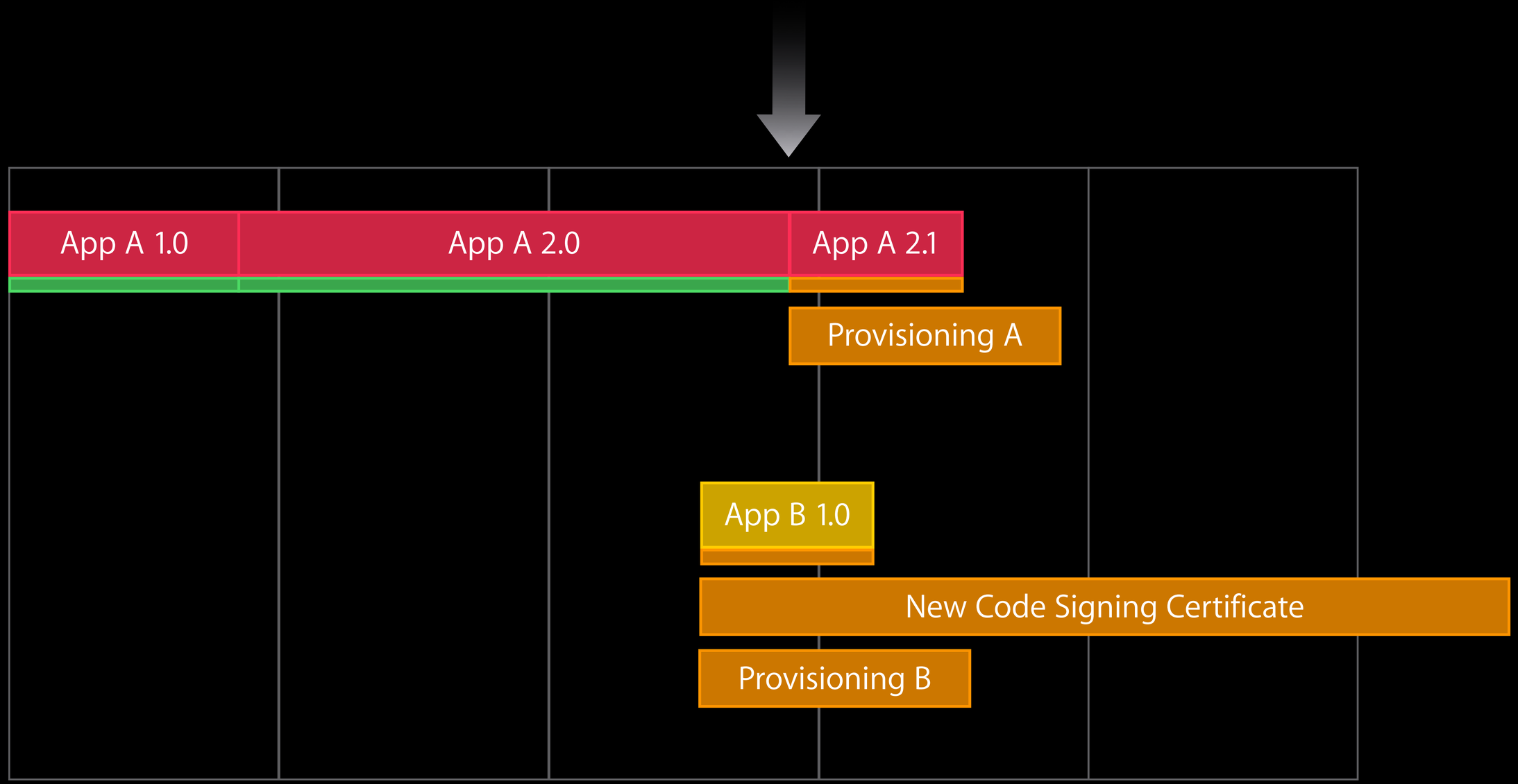


Best Practices

Notice code signing expiration date

Use newest code signing certificate

Embed a new provisioning profile

Host in-house apps using HTTPS

Use MDM to distribute apps and refresh provisioning profiles

App must be updated to change code signing certificate

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Custom B2B

Hosted in the App Store

Visible to limited audience

Reviewed by Apple

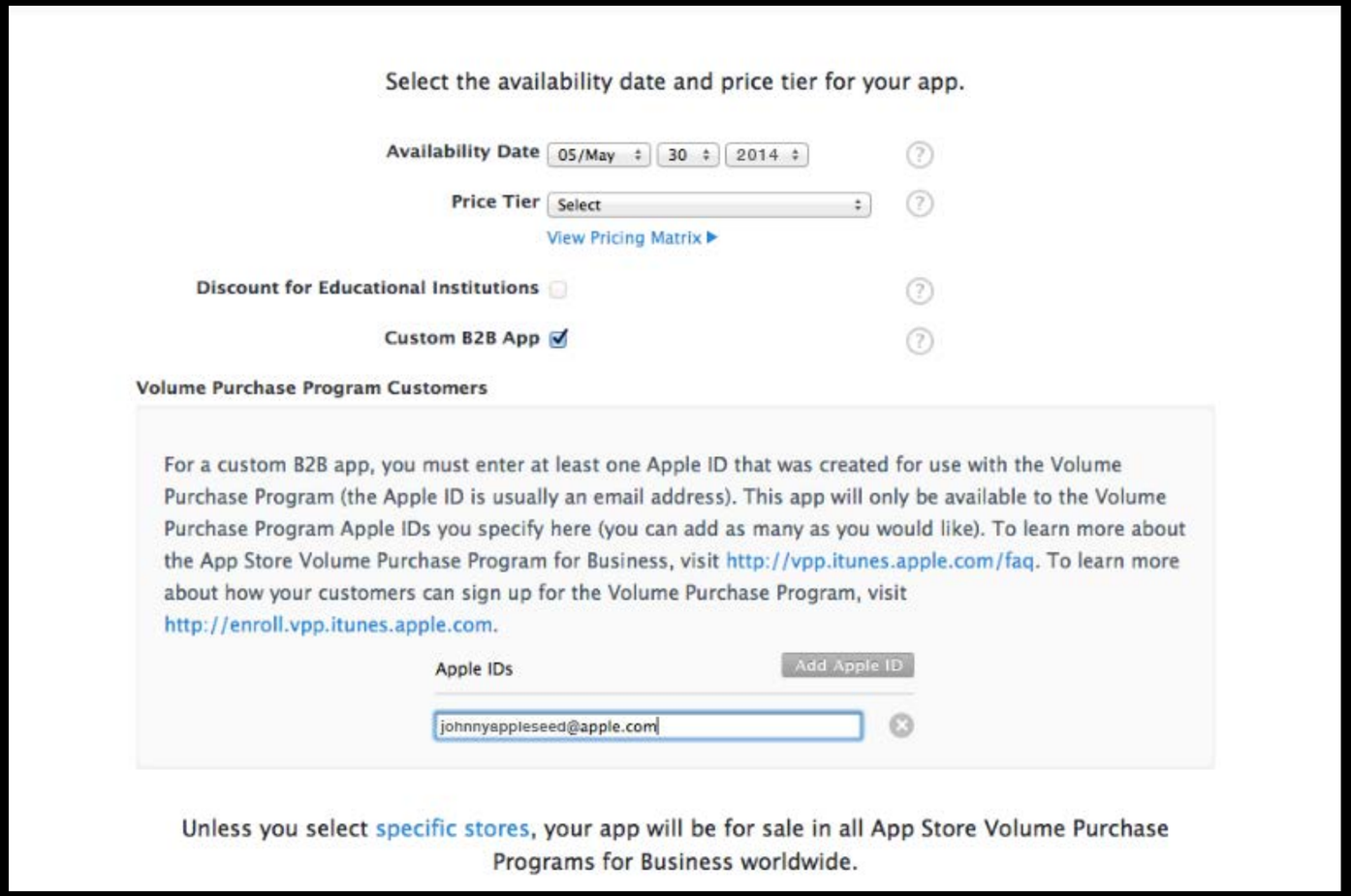
No provisioning profiles needed

Publishing Custom B2B

App Store Developer

Use iTunes Connect

Check “Custom B2B”

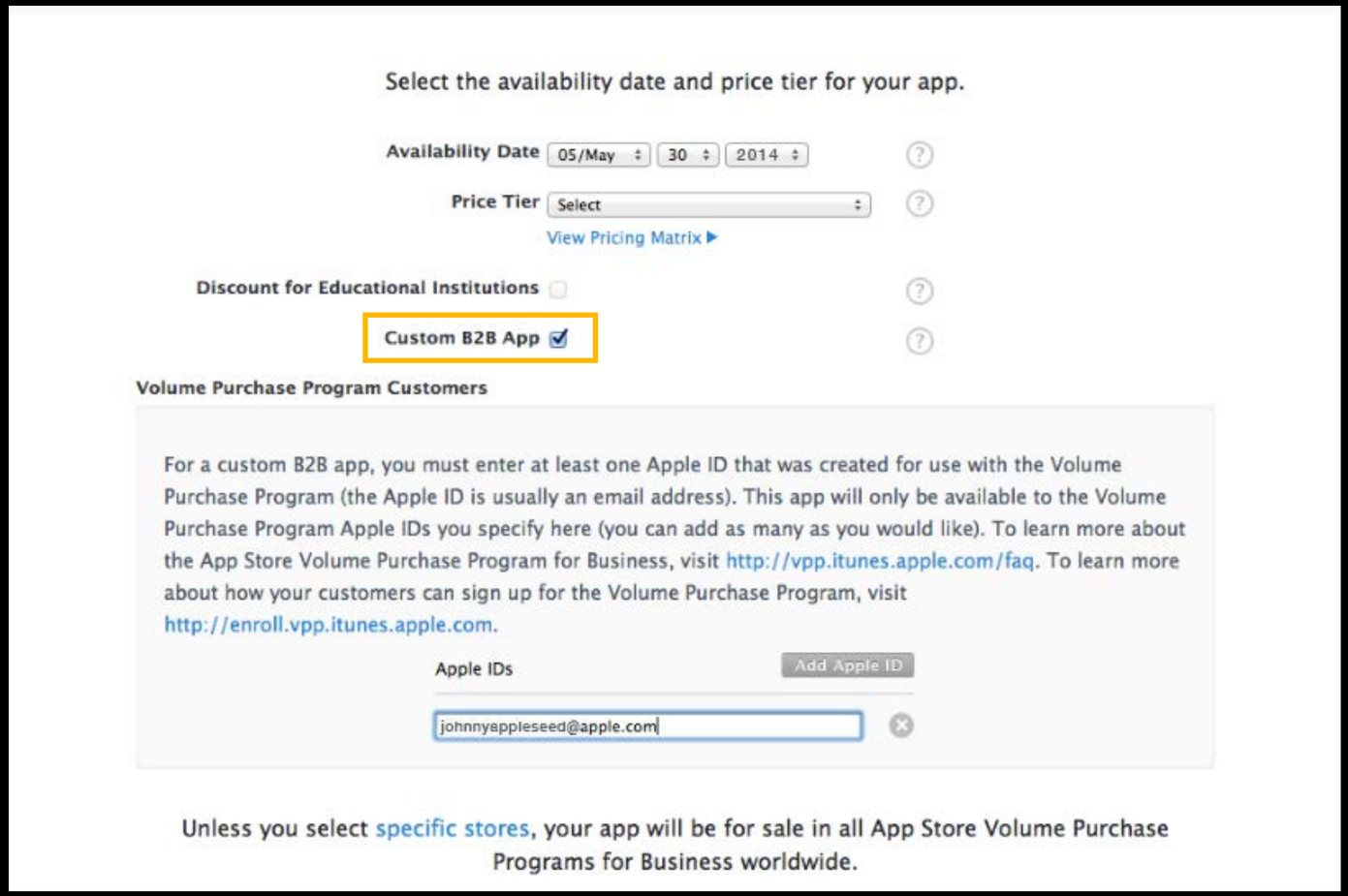


Publishing Custom B2B

App Store Developer

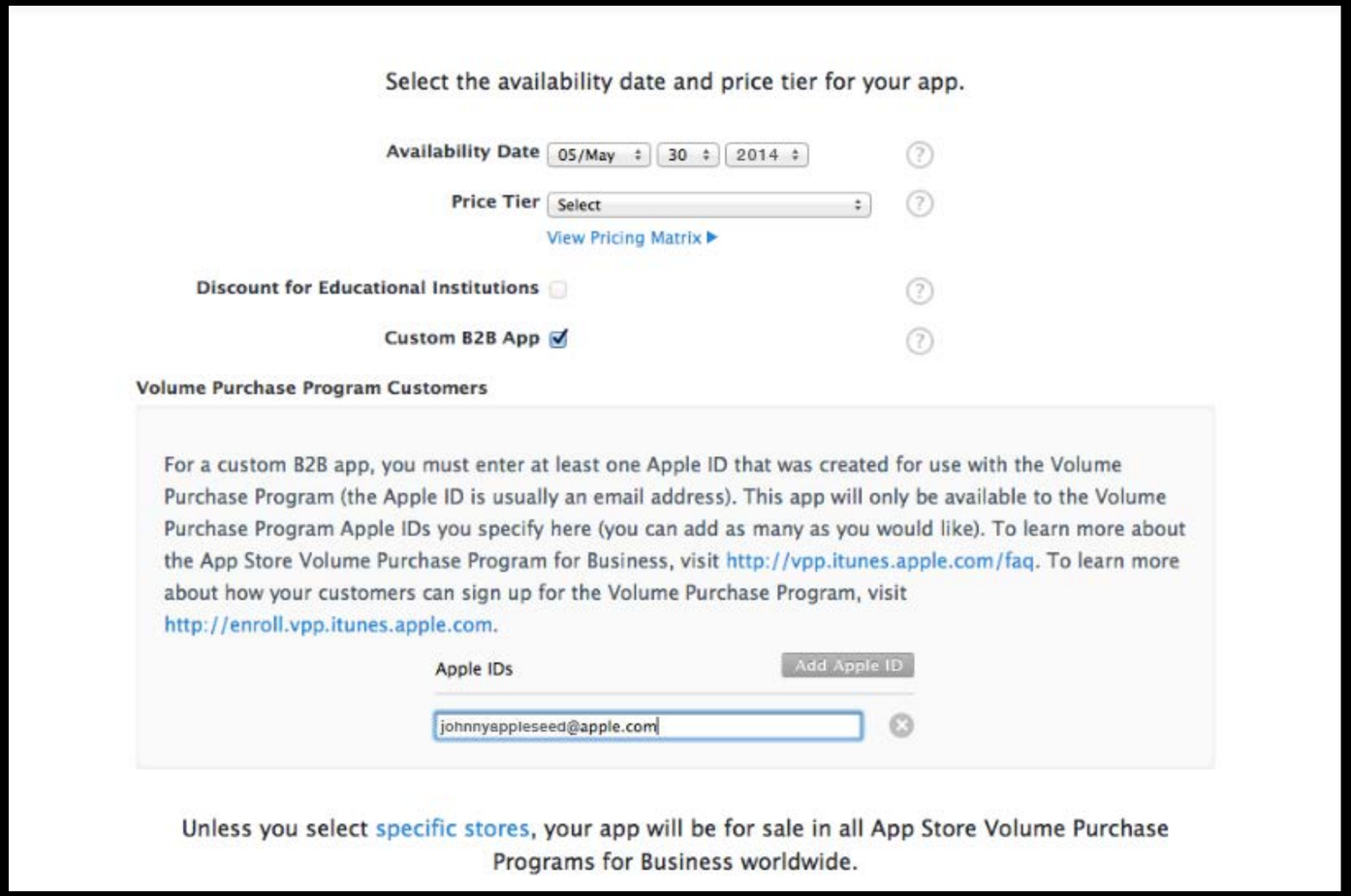
Use iTunes Connect

Check “Custom B2B”



Publishing Custom B2B

Specify customer Apple IDs



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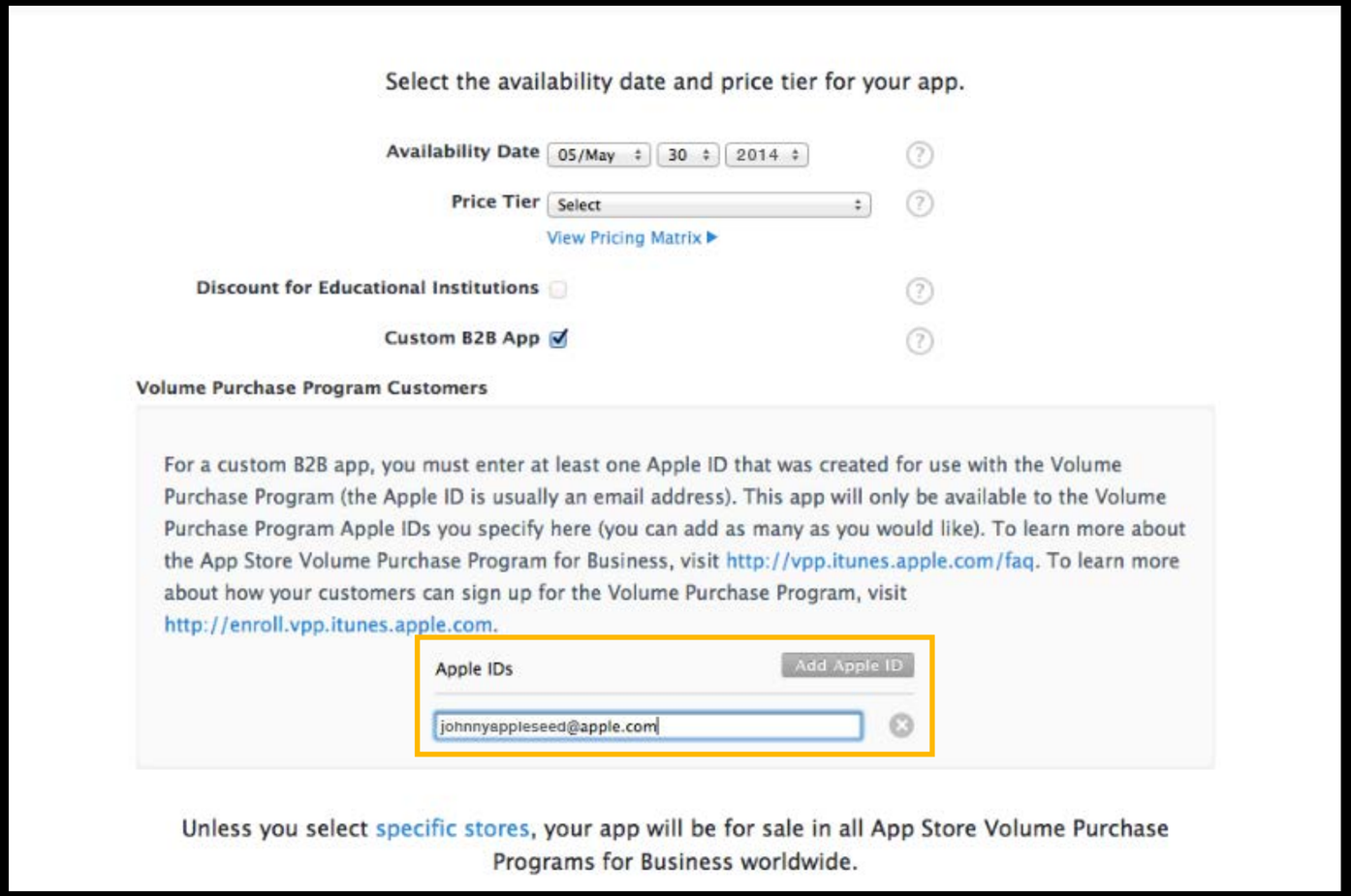
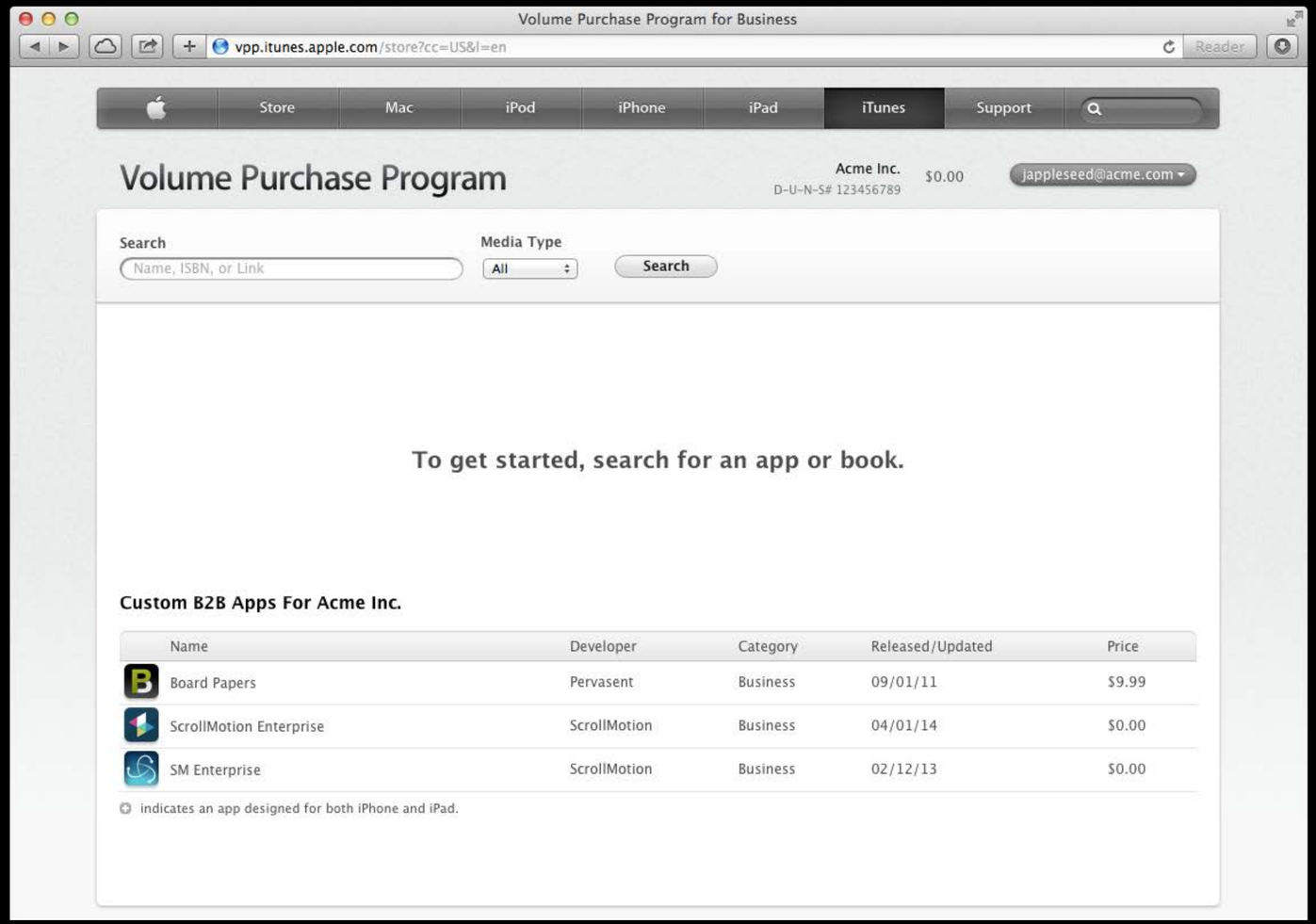


Purchasing Custom B2B

VPP Portal

Purchase licenses

Push using MDM



Custom B2B

Great for custom apps if you don’t own the code

Great for subsidiaries

Hosted by Apple

No code signing or provisioning profile expiration

Promo codes for beta testing

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Managing Your Team

Xcode Server

App Distribution Strategy

Custom B2B

Summary

Agents and Admins should be employees

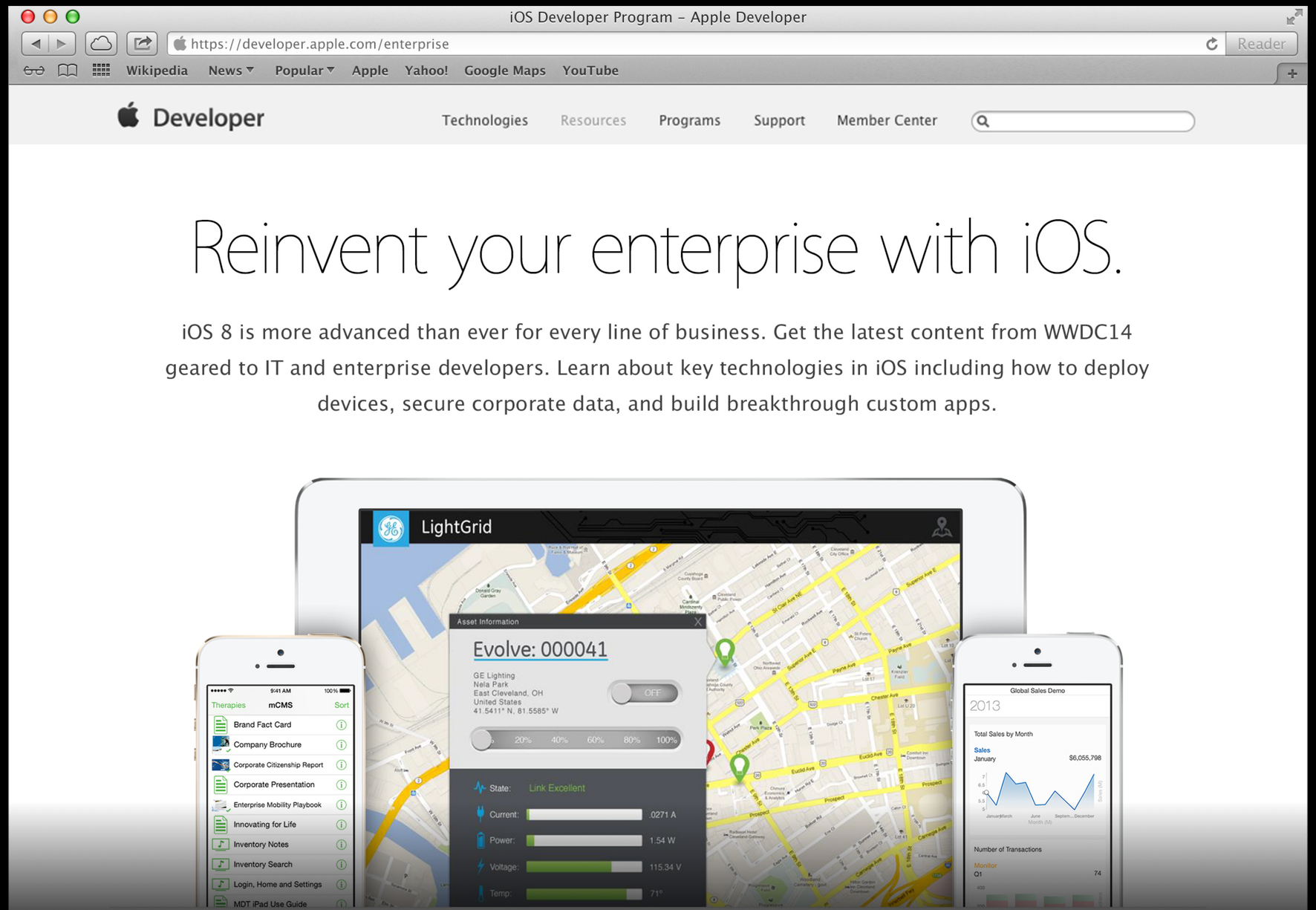
Contractors should be Team Members

Use Xcode Server for continuous integration

Keep an eye on code signing certificate expiration

Use Custom B2B if you don’t own the code

developer.apple.com/enterprise



More Information

Paul Danbold
Core OS Technologies Evangelist
danbold@apple.com

Documentation
iOS Developer Program
http://developer.apple.com/enterprise

Apple Developer Forums
http://devforums.apple.com

Related Sessions

• Managing Apple Devices	Pacific Heights	Tuesday 9:00AM
• Building Apps for Enterprise and Education	Pacific Heights	Tuesday 10:15AM

Labs

• Developing Apps for Enterprise and Education	Core OS Lab A	Wednesday 2:00PM
• Managing Apple Devices	Core OS Lab B	Thursday 9:00AM

WWDC14