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Hello

Thank you for downloading the Hovel House CloudKit Plugin

The plugin was written specifically with Apple Arcade in mind. It is a thin wrapper over the CloudKit framework and made to work on MacOS, iOS and TVOS. It's aim is to be as close as possible to writing the equivalent in Objective-c and makes very few assumptions and how you intend to use it. It simply marshals your data to the appropriate API calls.

The CloudKit plugin is a work in progress. While the majority of the API is covered, some of it is not yet. It will become available shortly. We welcome your feedback on what to prioritize.

Support

Forums

Support is mainly handled via the [forums](#) but you are welcome to send an e-mail directly to us at support@hovelhouse.com

API Documentation

Auto-generated API documentation is available online at: hovelhouse.com/docs It's thin on explanations, but it does provide an outline of which API methods are currently covered. For the moment, if you need explanations of what the various API methods do please refer to the [apple documentation](#). By and large, the method names and parameters will be the same.

Setup

Requirements

- Xcode 11
- iOS version 11 or higher
- C# Scripting run-time 4.0
- You will also need an active account with the apple developer program. You will not be able to add the appropriate CloudKit capability to your project without one

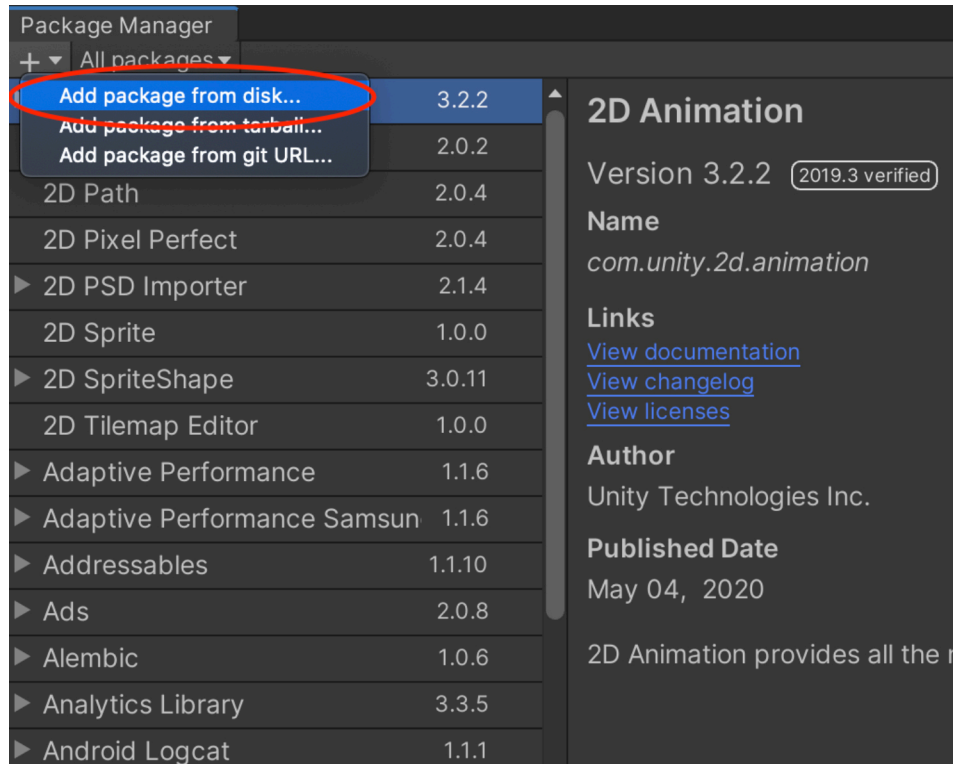
Installation

Unity 2018 users - be sure to set the **Scripting Runtime Version** to **.NET 4.x Equivalent** in player settings to avoid errors after importing

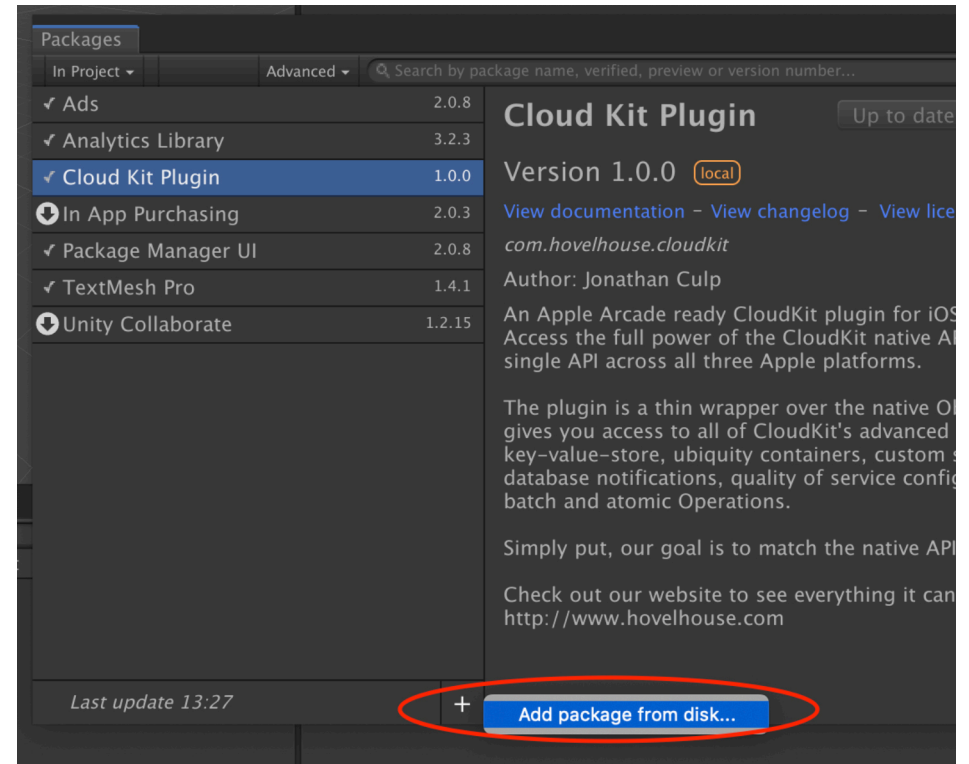
Import the UPM Package

This plugin is provided as a zipped up unity package manager (UPM) package.

- Unzip the archive to a location on your file-system.
- Open the package manager by going to Window → Package Manager
- Click the "+" button and select "Add Package From Disk"

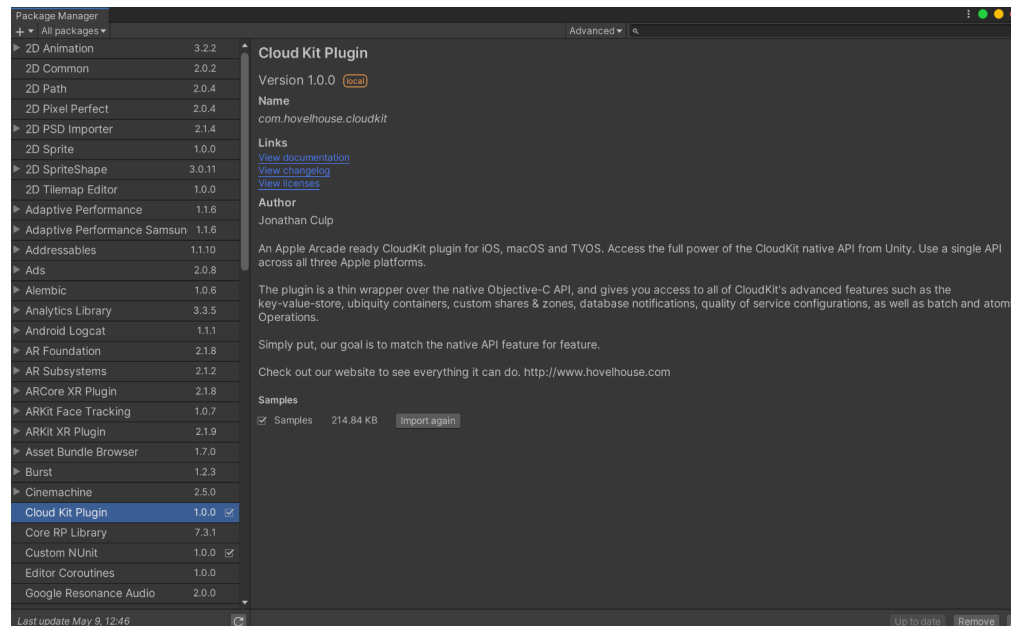
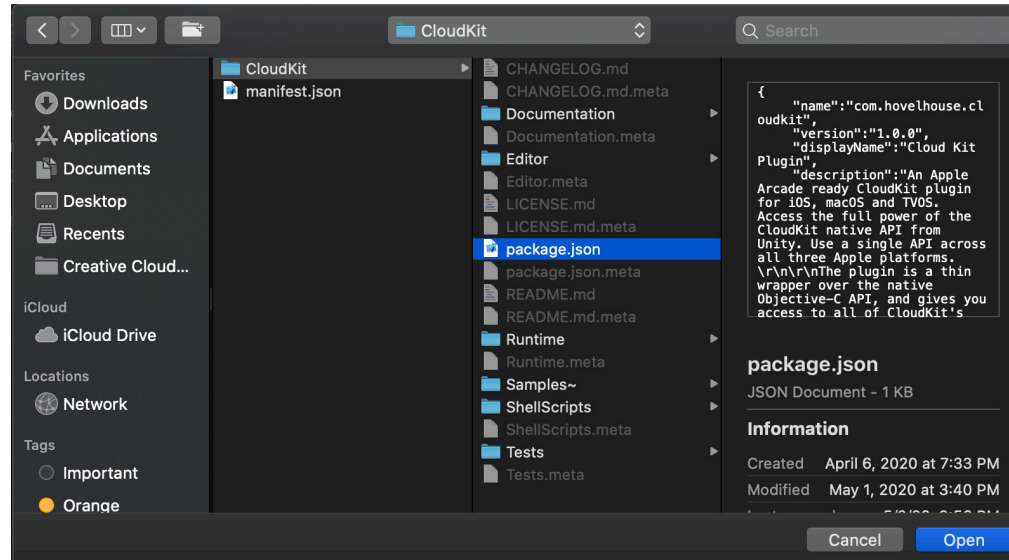


In Unity 2019 the "+" button is at the top of the window



In Unity 2018 the "+" button is at the bottom of the column

- Select the "package.json" file in the inside the unzipped directory



- Unity will then add the package to the Unity Package Manager window. Hit the "install" button to import it into your current project.

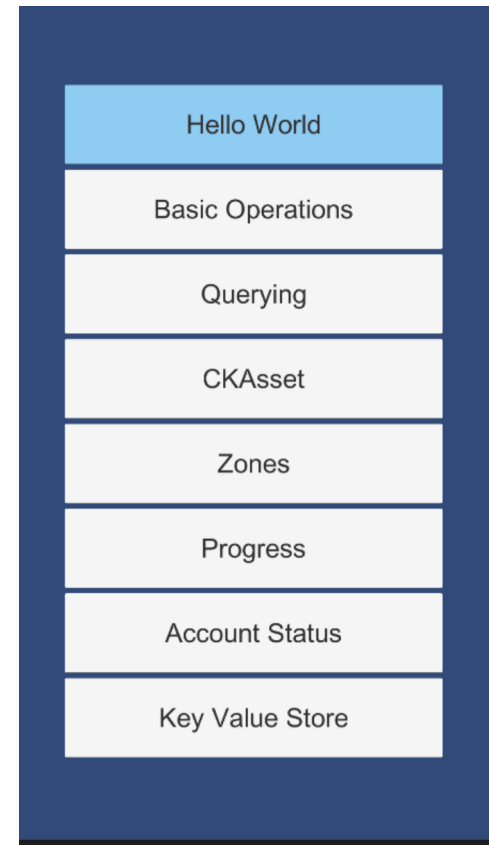
Samples

- We recommend that you also install the provided examples. They illustrate the basic uses of CloudKit and are the quickest way to get starting using the plugin in your project.
- The option to install samples from the unity package manager is not present in Unity 2018. To run the samples, copy the "samples" directory from the unzipped folder into your project's assets folder.
- Add ExampleHub, and the numbered example scenes to the build scenes list to run them on an iOS device or as a MacOS standalone build.
- The examples cannot be run in the editor. This is not a plugin limitation, it's an Apple one. Using CloudKit requires entitlements and that means that the app it runs in is cryptographically signed with your apple developer signing identity.
- In order to run "Example 8 - Key Value Storage" - make sure that you enable Key Value Storage in the plugin's build settings. It is not enabled by default.

Usage

To use, import the namespace "HovelHouse.CloudKit" in your C# scripts. No plugin initialization is needed and you do not need to add anything to your scenes. Just start using the classes as you would if this were an objective-c project. Class names and methods very closely match their Objective-C counterparts. See the provided examples for details.

We recommend that you run the provided example scene to ensure that you have everything set up correctly.



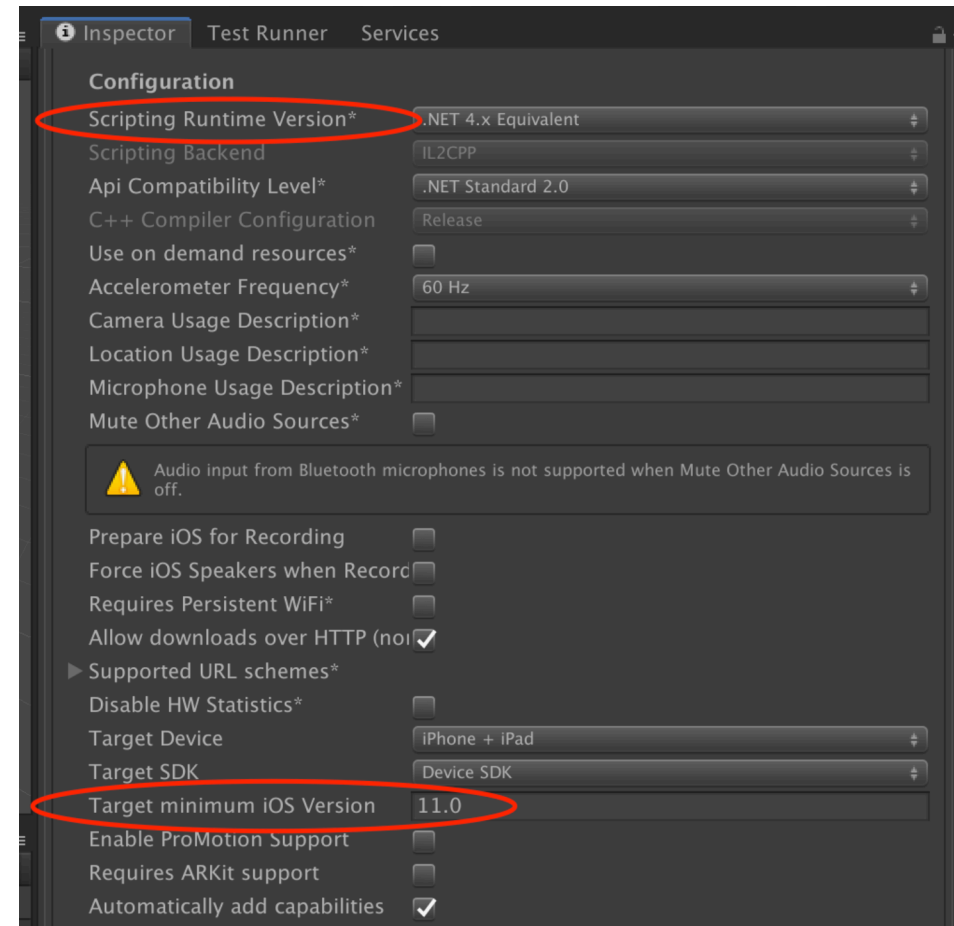
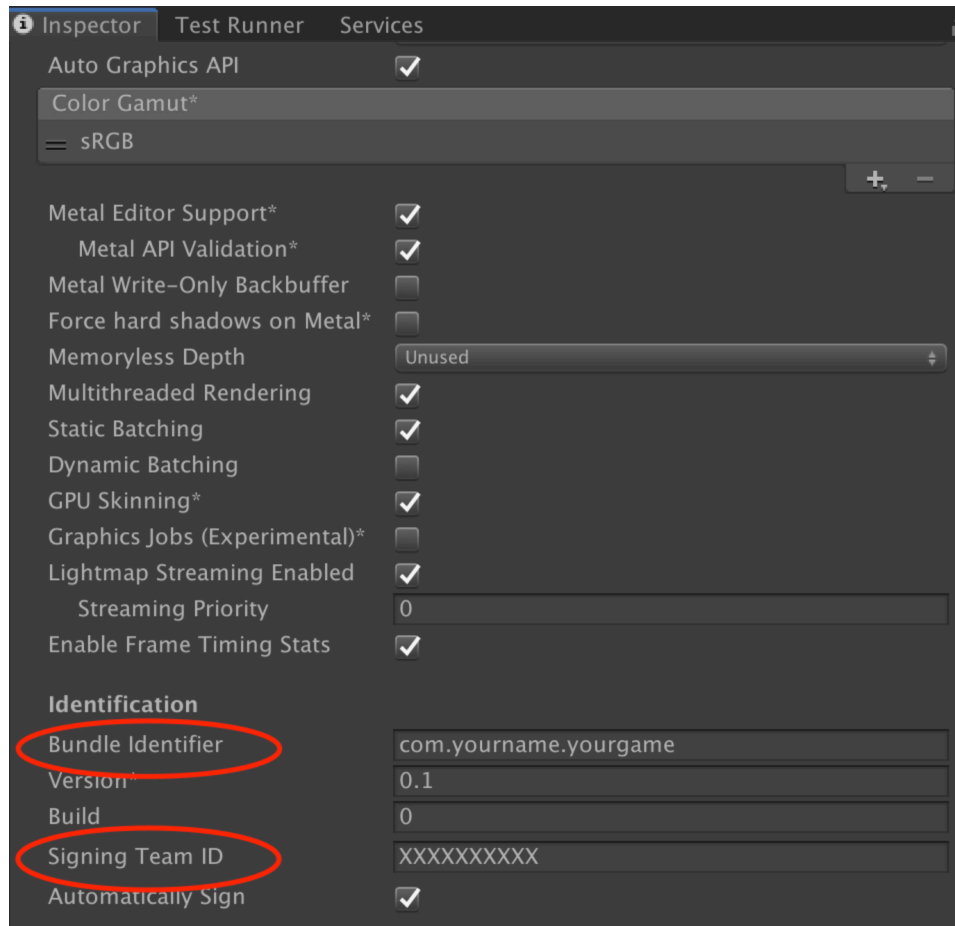
Building

Configuration

You'll need to set a few settings in your project to ensure the plugin will work on your target device.

Player Settings

- In the iOS build settings, set **Target Minimum iOS Version** to **11.0** or higher
- Set you apps **bundle identifier**. Your bundle id determines your apps default container name
- In iOS build settings, set the **Signing Team ID** to match the apple developer team in your provisioning profile. Although this step is optional for iOS and TVOS projects, this step is required by the signing script for MacOS Standalone builds.



Plugin Settings

The plugin will create a **BuildSettings** asset in the folder *Assets/Plugins/HovelHouse/CloudKit/Resources*. The default settings here will work for most projects. To learn about advanced settings, keep reading, but you may skip ahead to the build step if you do not need to change these settings.

The plugin will run post build scripts to create the required entitlements and plist files for Xcode and MacOS standalone projects. You can configure the behavior of those scripts here.

Common Settings

These settings apply to all build targets

Entitlements

The entitlements section controls which CloudKit entitlements to add. By default, CloudKit is enabled. Key-Value-Storage and Document Storage are disabled.

Custom Containers

Each CloudKit enabled app will have a default container of the form “*iCloud.your.bundle.identifier*” but if you need to add additional containers, you can specify them here.

Mac OS Settings

Code Signing Identity

The common name of the code signing identity that is tied to the certificate you want to use during code signing.

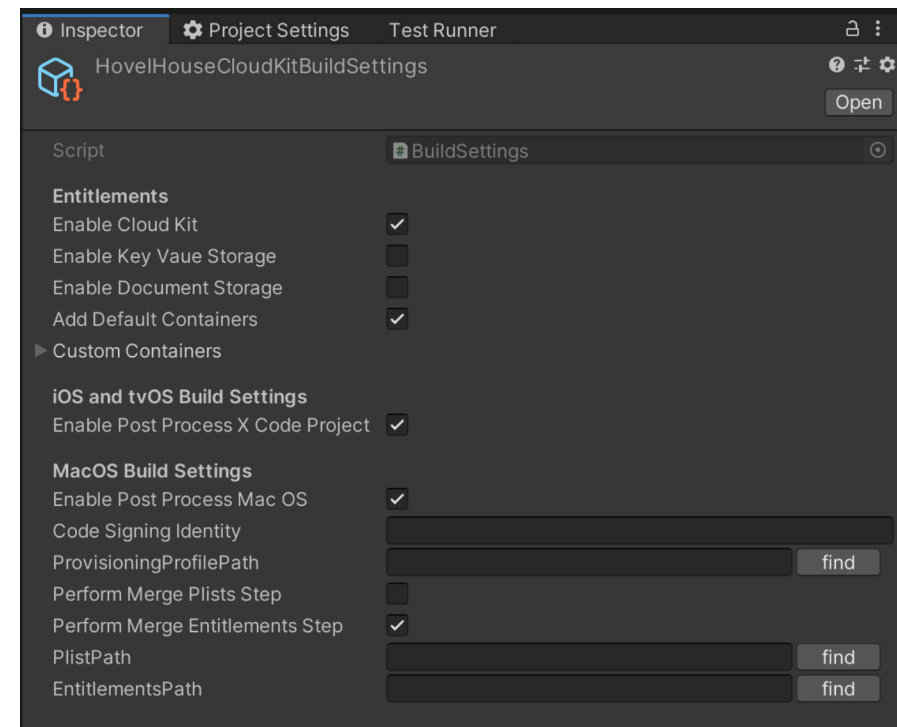
Provisioning Profile Path

The path to the provisioning profile that will be used to sign your MacOS application

Perform Merge Plists Step

If this is checked, merges in a custom plist you provide into the final plist file used to sign the MacOS build

Plist path



The filepath of the plist file to merge

Perform Merge Entitlements Step

If this is checked, merges in a custom entitlements file that you provide, into the final entitlements file used to sign the MacOS build

Entitlements path

The filepath of the entitlements file to merge

Building for iOS

You shouldn't need to do anything special for iOS or TVOS as long as you have codesigning set up correctly. Just hit Build or Build and Run

Building for MacOS

MacOS has a more complicated set up. We've written a whole standalone guild for it. Follow the online instructions at [building for MacOS](#)

FAQ

No questions yet. Be the first! Send an e-mail to support@hovelhouse.com