

# Intro to CloudKit

Hands-On

# What is CloudKit?

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- ⚙ It is the framework which powers all other iCloud technologies such as iCloud CoreData, iCloud Drive, etc.
- ⚙ Is a way to move structured and bulk data between your app and Apple iCloud servers
- ⚙ Data is organized by records stored in private and public databases.



## When You Should Use It

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- ⚙️ Create and manage data that can be consumed by a community of end users instead of just one.
- ⚙️ Looking to create a data centric app without wanting to write all the server logic that goes with it.
- ⚙️ Finer grained control regarding how iCloud data is managed.



# CloudKit Pros

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- ⚙ Easy to way to create a data driven app without having to write server side code.
- ⚙ Sends push notifications to clients when data changes on the sever level
- ⚙ Has built in mechanisms to find friends of the user, using the app.
- ⚙ Supported on both iOS and OS X





## CloudKit Cons

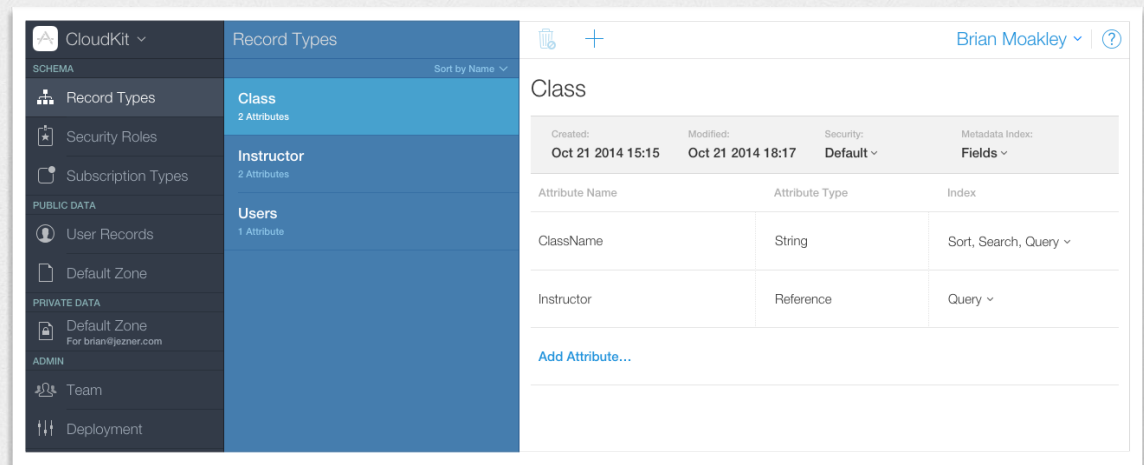
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- ⚙ No way to run custom code on the server level.
- ⚙ Not cross platform - will effectively lock you into Apple's platform.
- ⚙ Free with limits.



# Parts 1-2: CloudKit Objects

- ⚙️ CKContainers
- ⚙️ CKDatabases
- ⚙️ CKRecords
- ⚙️ CKRecordTypes
- ⚙️ CKRecordZones



## Parts 3-8: Talking with CloudKit

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- ⚙ Introduced to the convenience API.
- ⚙ Read, Write, Delete data.
- ⚙ Define relationships.
- ⚙ Create Subscriptions.
- ⚙ Use Operations.
- ⚙ Manage Conflicts.

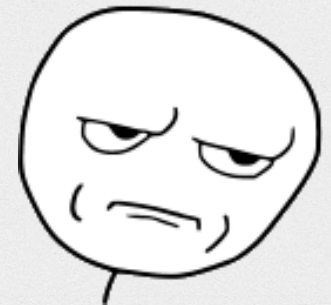
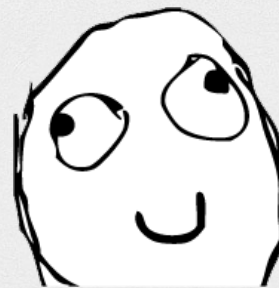




## Parts 9 - 11: Working with Users

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- ⚙ Getting the user account status
- ⚙ Add metadata to users
- ⚙ Enable user discovery





## Part 12: Deploying Your App

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- ⚙ Differences between development and production
- ⚙ How to deploy your CloudKit app



# Challenge

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