What’s New in CloudKit

Session 704

Olivier Bonnet iCloud Client
Eric Krugler iCloud Server
CloudKit
CloudKit
CloudKit Adoption
CloudKit Adoption

240B Records
CloudKit Adoption

240B Records

250 PB of Assets
CloudKit Adoption

240B Records
250 PB of Assets
300M Users
CloudKit
CloudKit
“With CloudKit, we were able to focus on building our app, and even squeeze in a few extras.”
“CloudKit is very fast, efficient, and makes it easy to detect and troubleshoot errors.”
“One of the best parts about CloudKit is there’s no complicated sign-in process or set up.”
What Does It Cost?
What About the Web?
CloudKit Usage and Pricing
CloudKit Architecture
CloudKit Architecture

CloudKit Container
CloudKit Architecture

CloudKit Container

Private Database
CloudKit Architecture

CloudKit Container

Private Database

Public Database
CloudKit Architecture

CloudKit Container

Private Database
- User’s private data
- iCloud Photo Library
- User’s storage

Public Database
CloudKit Architecture

CloudKit Container

Private Database
- User’s private data
- iCloud Photo Library
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Public Database
- Application’s public data
- News
- Developer’s storage
Public Database Offering

Free offering
Fee structure
Usage data
<table>
<thead>
<tr>
<th>Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
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## Public Database Free Limits

<table>
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<tr>
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| **Transfer**      |         |                          |            |
| Assets            |         |                          |            |
| Database          |         |                          |            |
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<td>+10 req/sec per 100K Users</td>
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## Public Database Fees

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<th>Service</th>
<th>Type</th>
<th>Monthly Fees</th>
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<tr>
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<td>Database</td>
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<tr>
<td>Transfer</td>
<td>Assets</td>
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<tr>
<td><strong>Push</strong></td>
<td>FREE</td>
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</table>
Demo
CloudKit calculator
CloudKit Dashboard
Dwayne Dryer

About Usage

Users

Requests per Second

Asset Transfer per Day
CloudKit Dashboard
CloudKit Dashboard

New section to keep track of usage data and free limits
CloudKit Dashboard

New section to keep track of usage data and free limits
Available now as a beta release at developer.apple.com
CloudKit Web Services
Features

Full CloudKit API via JSON / HTTPS
CloudKit JS Library
Web Sign in with Apple ID
CloudKit Web Services

How it works

CloudKit Server

CloudKit

Your Application

iOS and OS X
CloudKit Web Services

How it works

CloudKit Server

Web Sign in
CloudKit Web Services

JSON / HTTPS

CloudKit
Your Application

iOS and OS X

Your Web Application
Web Browser
CloudKit Web Services

How it works

CloudKit Server

Web Sign in
CloudKit Web Services

CloudKit
Your Application
iOS and OS X

CloudKit JS
Your Web Application
Web Browser
CloudKit Web Services API

Public and private database access
Record operations
Assets
Query
Subscriptions and notifications
User discoverability
Sync
CloudKit JS

Javascript API
Matches native CloudKit API
No intermediate servers
New notes web app built with CloudKit JS
CloudKit JS

Javascript API
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No intermediate servers
New notes web app built with CloudKit JS

<script src="https://cdn.apple-cloudkit.com/ck/1/cloudkit.js" />
Demo
Notes web app
Web Sign-in with Apple ID
Sign in with Apple ID
Already a Member
Dwayne Dryer
My Cart Wish List Sign In
Monthly men's accessory delivery
Dwayne Dryer
Copyright 2015 Dryer Inc. All rights reserved.
Sign in with Apple ID
Sign in
email@address.com
or
Password
Apple ID
Forgot Apple ID or password?
Don't have an Apple ID? Create yours now.
Forgot Apple ID or password?
Don't have an Apple ID? Create yours now.
Copyright © 2015 Apple Inc. All rights reserved. Terms of Use Privacy Policy
CloudKit Web Service Offering
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iCloud Web-only accounts offer 1GB of storage for private database usage
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Public database usage is the same for iOS, OS X, and Web
Requires a comparable application on iOS or OS X
Available now in beta for development, releasing with iOS 9
More Information

Documentation
CloudKit Resources
developer.apple.com/cloudkit

Technical Support
Apple Developer Forums
developer.apple.com/forums

Developer Technical Support
developer.apple.com/support/technical

General Inquiries
cloudkit@apple.com
## Related Sessions

<table>
<thead>
<tr>
<th>Session</th>
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<td>Pacific Heights</td>
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<td>CloudKit Tips and Tricks</td>
<td>Pacific Heights</td>
<td>Thursday 4:30PM</td>
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<tr>
<td>Labs</td>
<td>Frameworks Lab E</td>
<td>Wednesday 9:00AM</td>
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<td>Frameworks Lab A</td>
<td>Thursday 9:00AM</td>
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<tr>
<td>CloudKit Lab</td>
<td>Frameworks Lab D</td>
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