

# 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.”

Hipstamatic - Hipstamatic DSPO

“CloudKit is very fast, efficient, and makes it easy to detect and troubleshoot errors.”

AgileBits - 1Password Blog Post

“One of the best parts about CloudKit is there’s no complicated sign-in process or set up.”

IconFactory - Flare

What Does It Cost?

What About the Web?

# CloudKit Usage and Pricing

# CloudKit Architecture

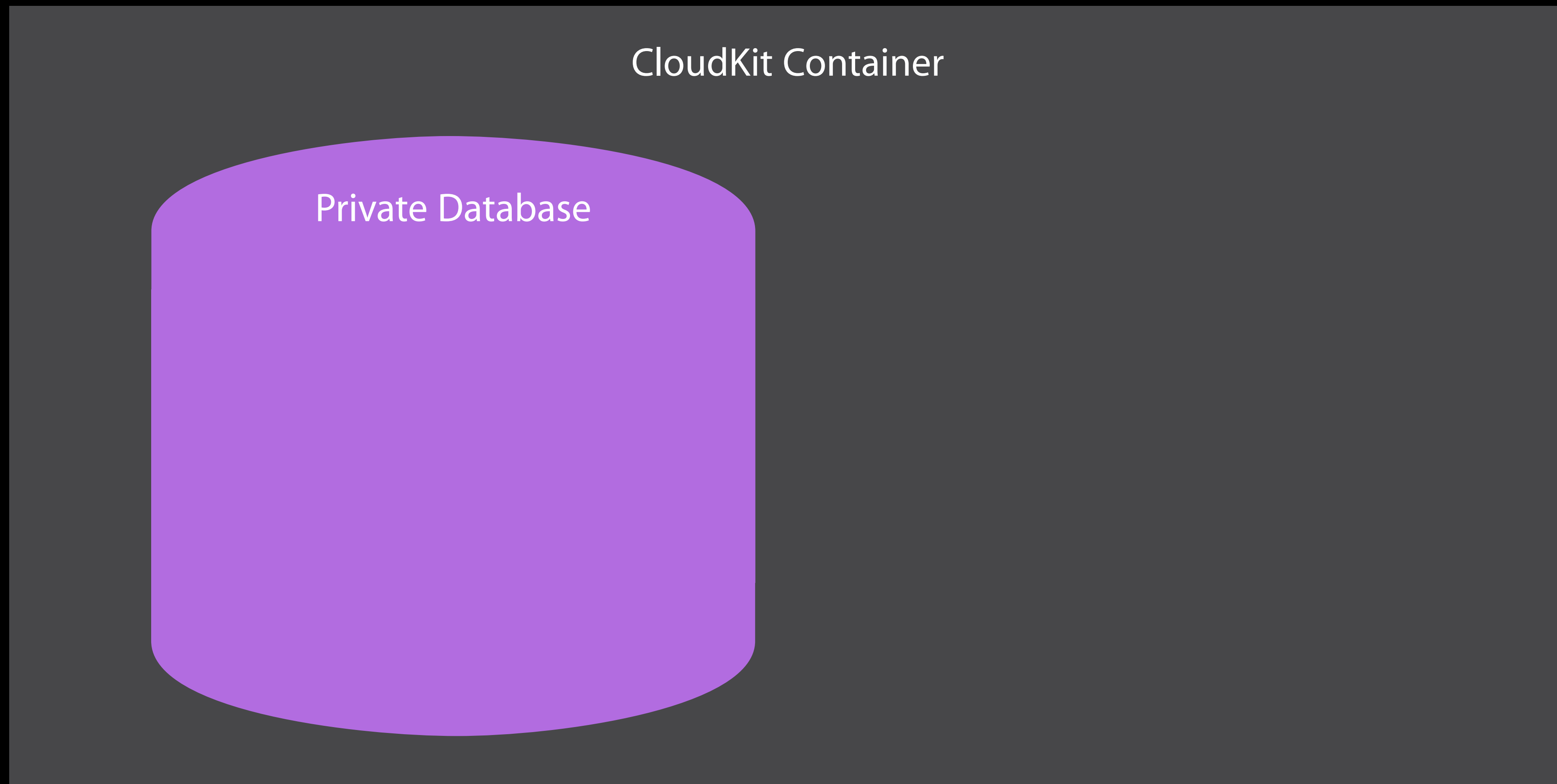


# CloudKit Architecture

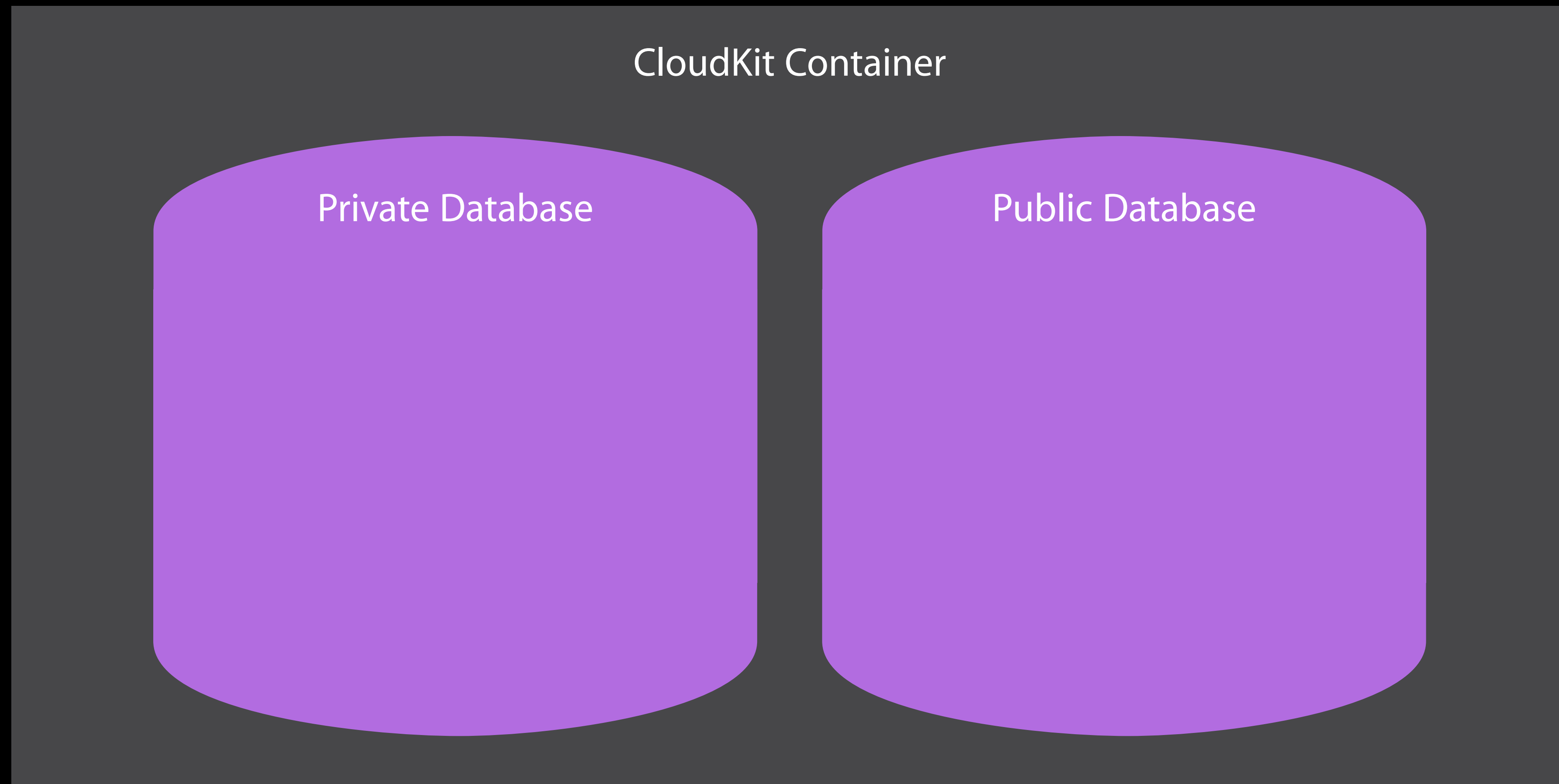
CloudKit Container



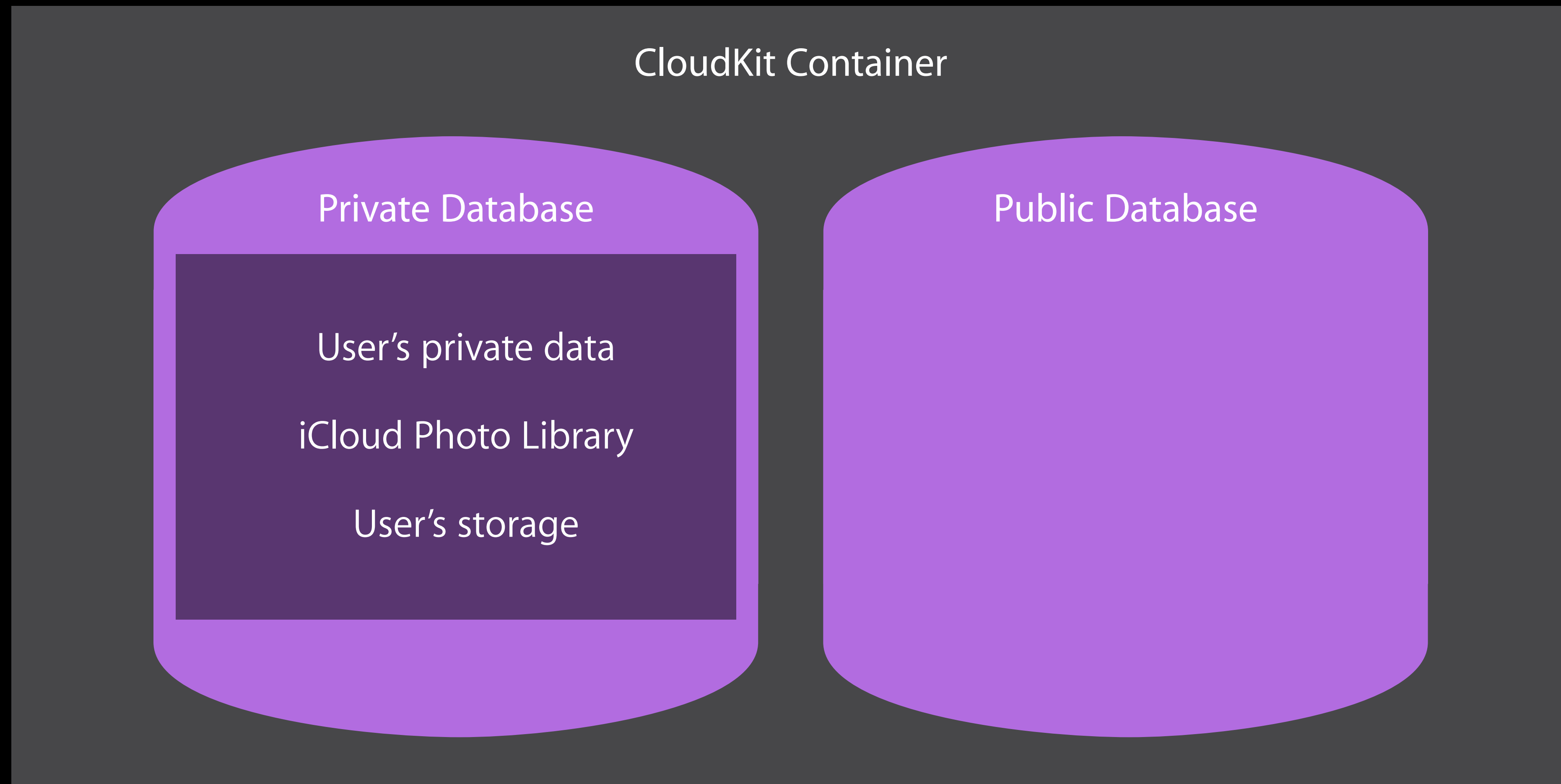
# CloudKit Architecture



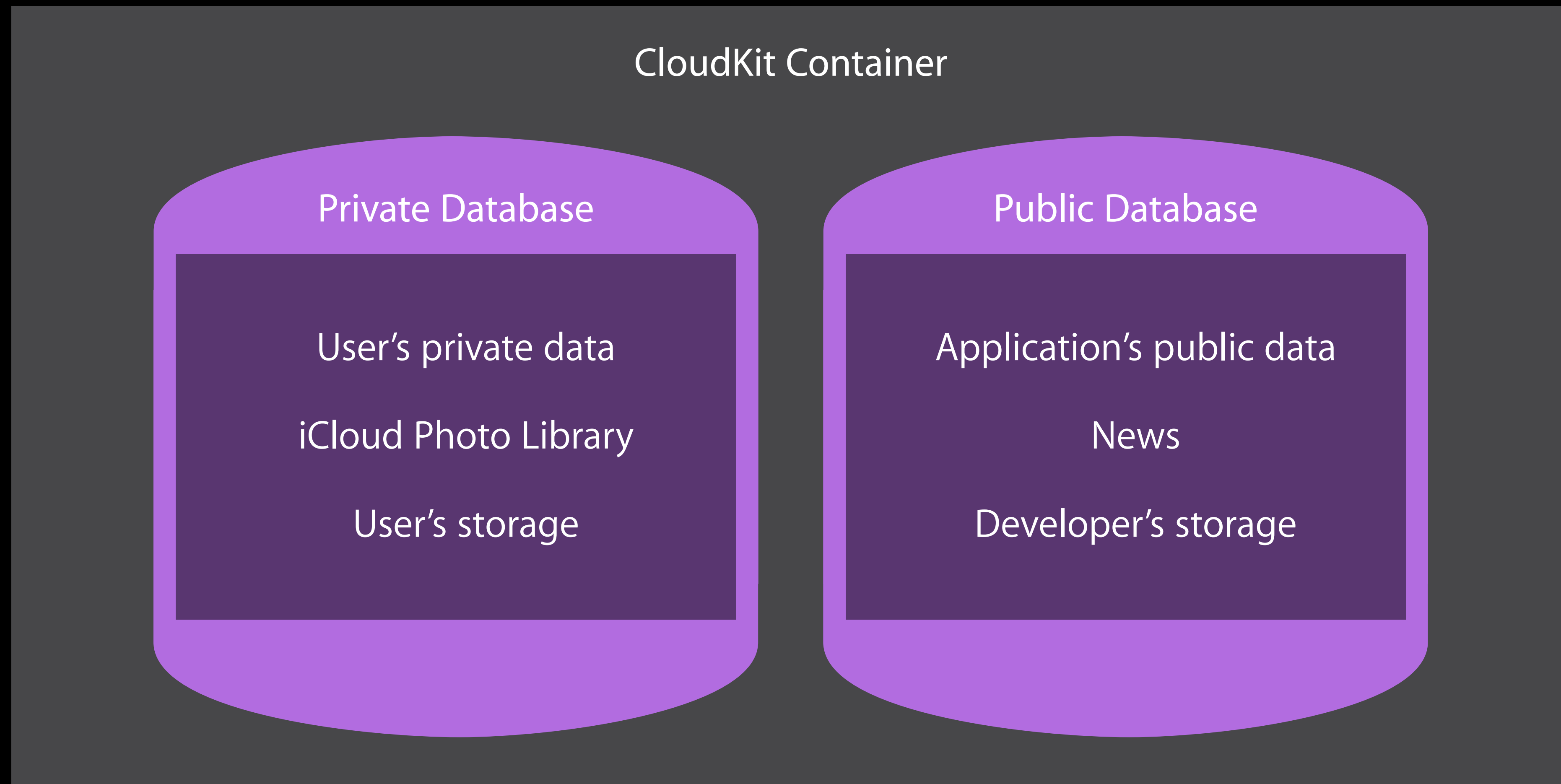
# CloudKit Architecture



# CloudKit Architecture



# CloudKit Architecture



# Public Database Offering

Free offering

Fee structure

Usage data

# Public Database Free Limits

Start

---

Storage

Assets

10 GB

---

# Public Database Free Limits

		Start	Grow with Users
Storage	Assets	10 GB	+250 MB per User



# Public Database Free Limits

		Start	Grow with Users	Free up to
Storage	Assets	10 GB	+250 MB per User	1 PB

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		Start	Grow with Users	Free up to
Storage	Assets	10 GB	+250 MB per User	1 PB
	Database	100 MB	+2.5 MB per User	10 TB

# Public Database Free Limits

		Start	Grow with Users	Free up to
Storage	Assets	10 GB	+250 MB per User	1 PB
	Database	100 MB	+2.5 MB per User	10 TB
Transfer	Assets			
	Database			

# Public Database Free Limits

		Start	Grow with Users	Free up to
Storage	Assets	10 GB	+250 MB per User	1 PB
	Database	100 MB	+2.5 MB per User	10 TB
Transfer	Assets	2 GB	+50 MB per User	200 TB
	Database			

# Public Database Free Limits

		Start	Grow with Users	Free up to
Storage	Assets	10 GB	+250 MB per User	1 PB
	Database	100 MB	+2.5 MB per User	10 TB
Transfer	Assets	2 GB	+50 MB per User	200 TB
	Database	40 req/sec		

# Public Database Free Limits

		Start	Grow with Users	Free up to
Storage	Assets	10 GB	+250 MB per User	1 PB
	Database	100 MB	+2.5 MB per User	10 TB
Transfer	Assets	2 GB	+50 MB per User	200 TB
	Database	40 req/sec	+10 req/sec per 100K Users	400 req/sec

# Public Database Fees

## Monthly Fees

---

Storage	Assets	\$0.03/GB
	Database	\$3.00/GB

---

Transfer	Assets	\$0.10/GB
	Database	\$100/10 req/sec

---

# Public Database Fees

## Monthly Fees

---

Storage	Assets	\$0.03/GB
	Database	\$3.00/GB

---

Transfer	Assets	\$0.10/GB
	Database	\$100/10 req/sec

---

Push	<b>FREE</b>
------	-------------

---



*Demo*

CloudKit calculator

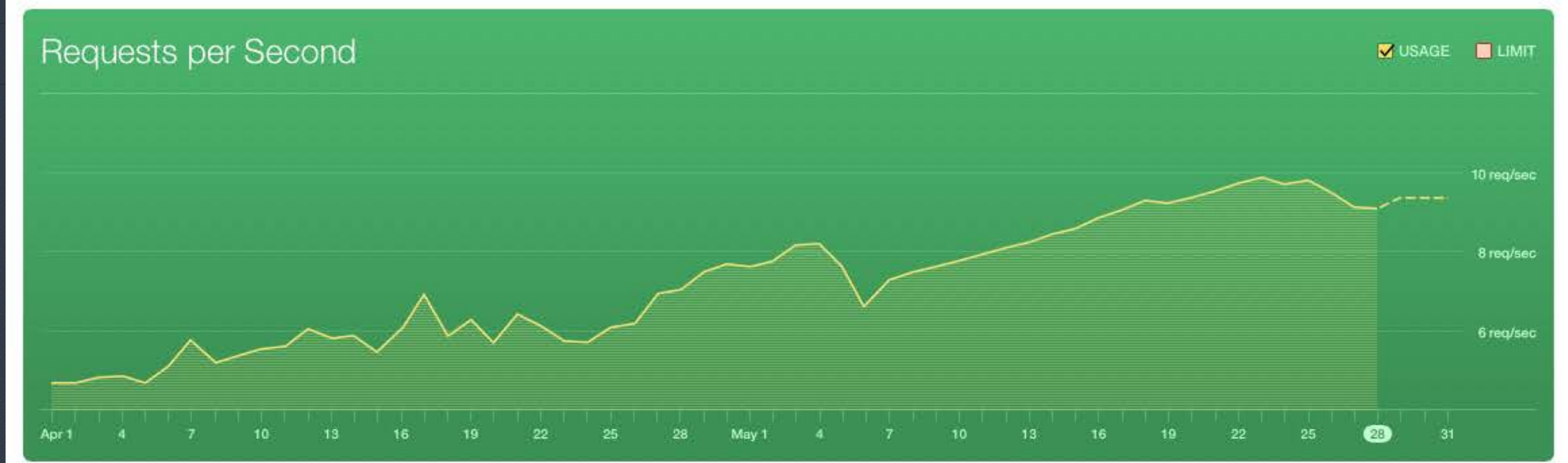
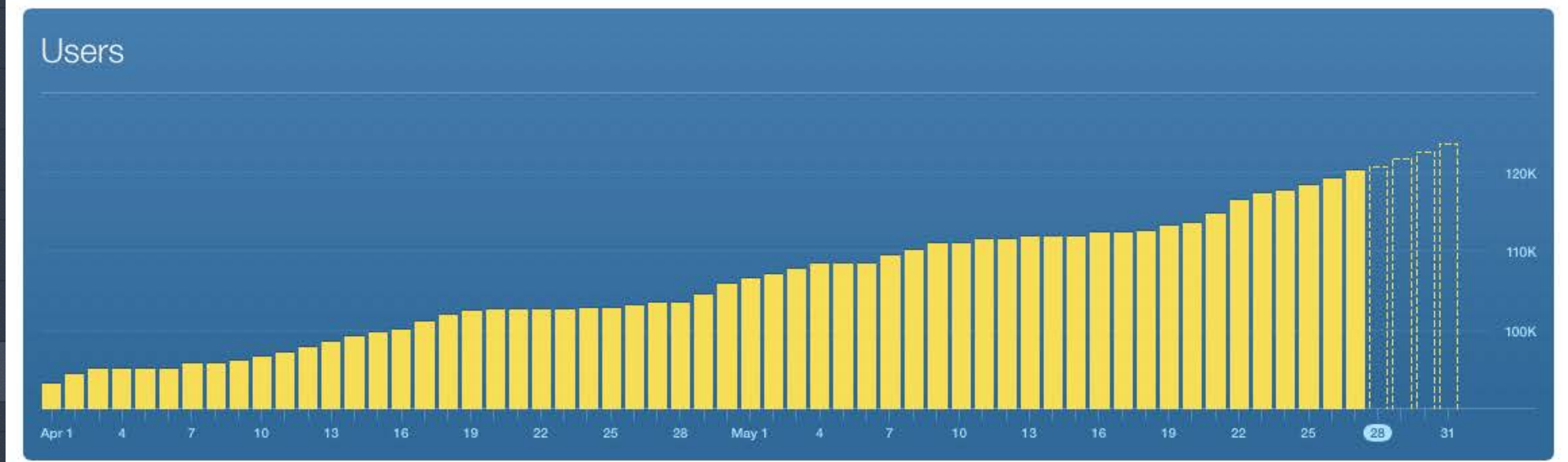
# CloudKit Dashboard

- SCHEMA
  - Record Types
  - Security Roles
  - Subscription Types
- PUBLIC DATA
  - User Records
  - Default Zone
  - Usage Beta
- ADMIN
  - API Tokens Beta
  - Deployment

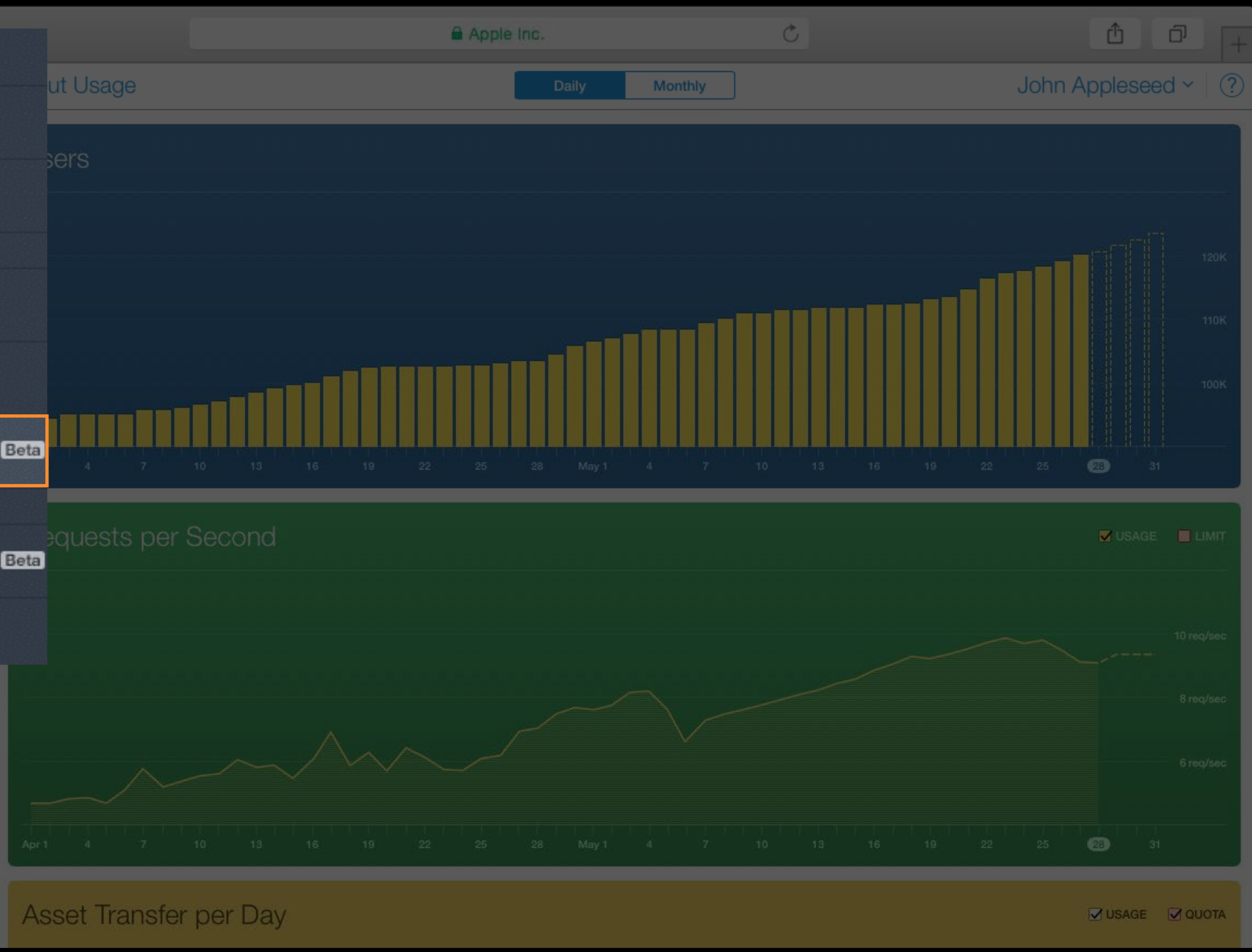
Environment: **DEVELOPMENT**

### About Usage

Daily | Monthly



- Record Types
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- Subscription Types
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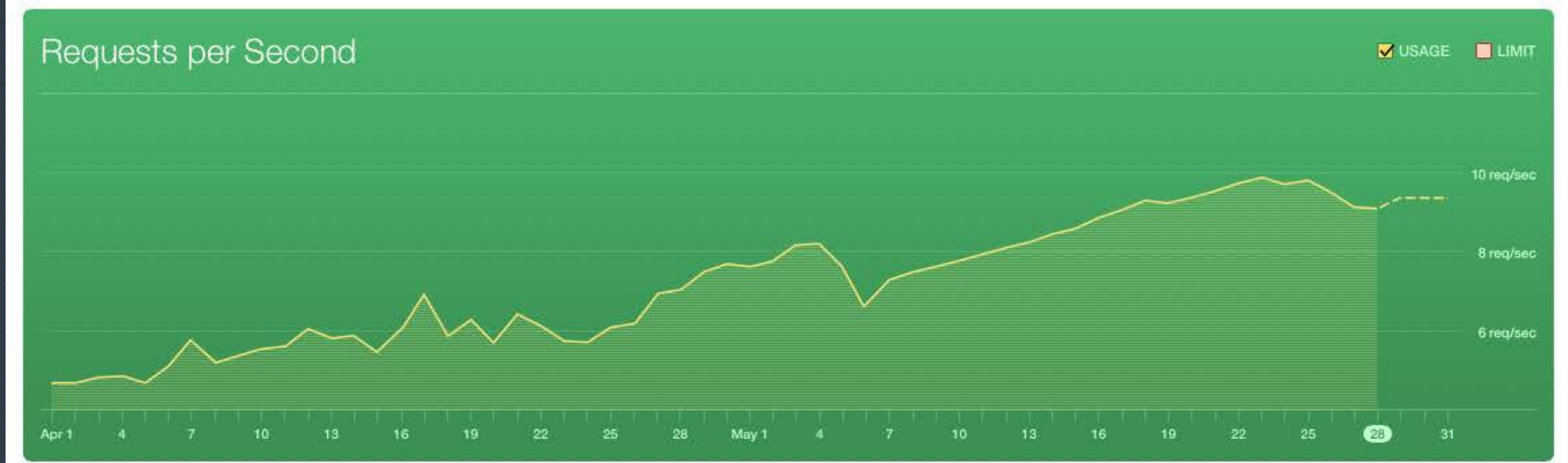
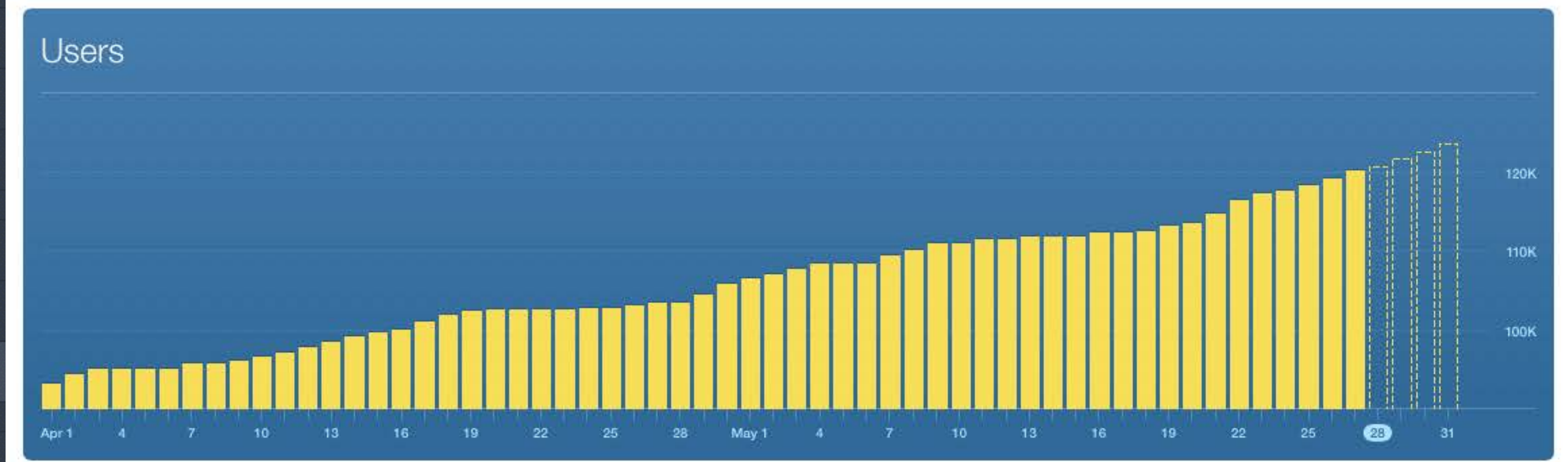


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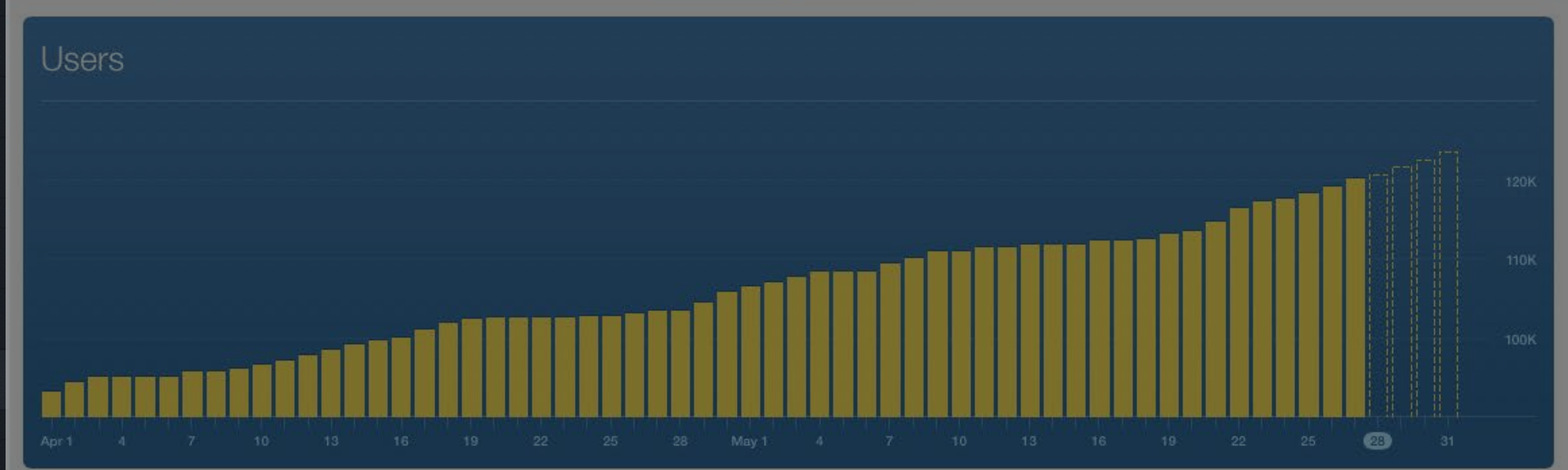
Daily Monthly



- Dwayne Dryer
  - SCHEMA
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### About Usage

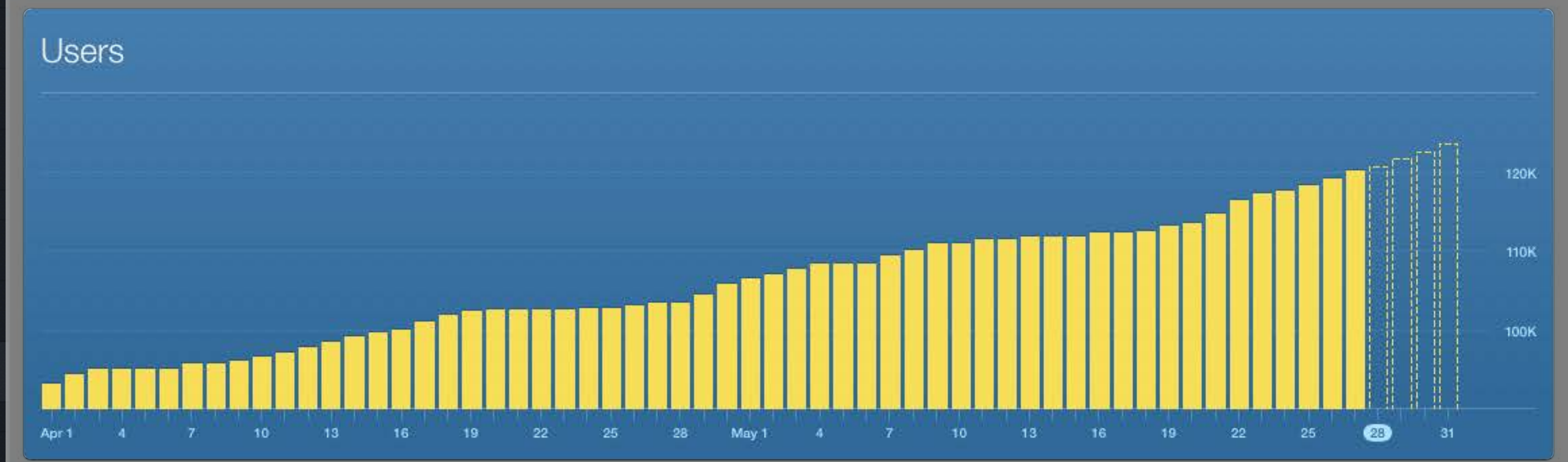
**Daily** | Monthly



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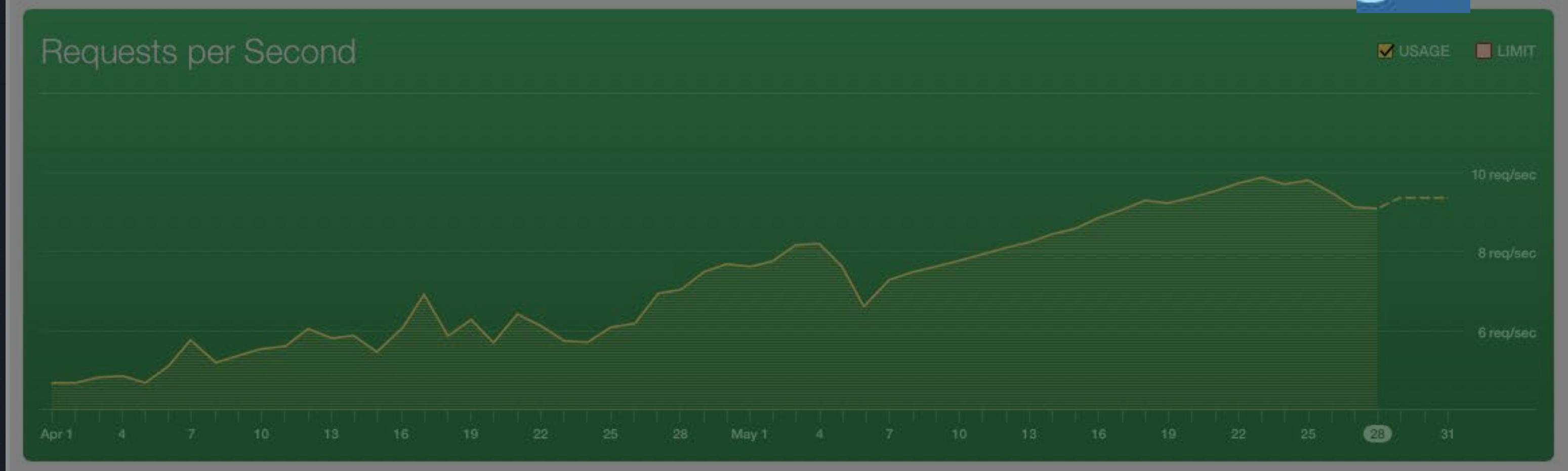
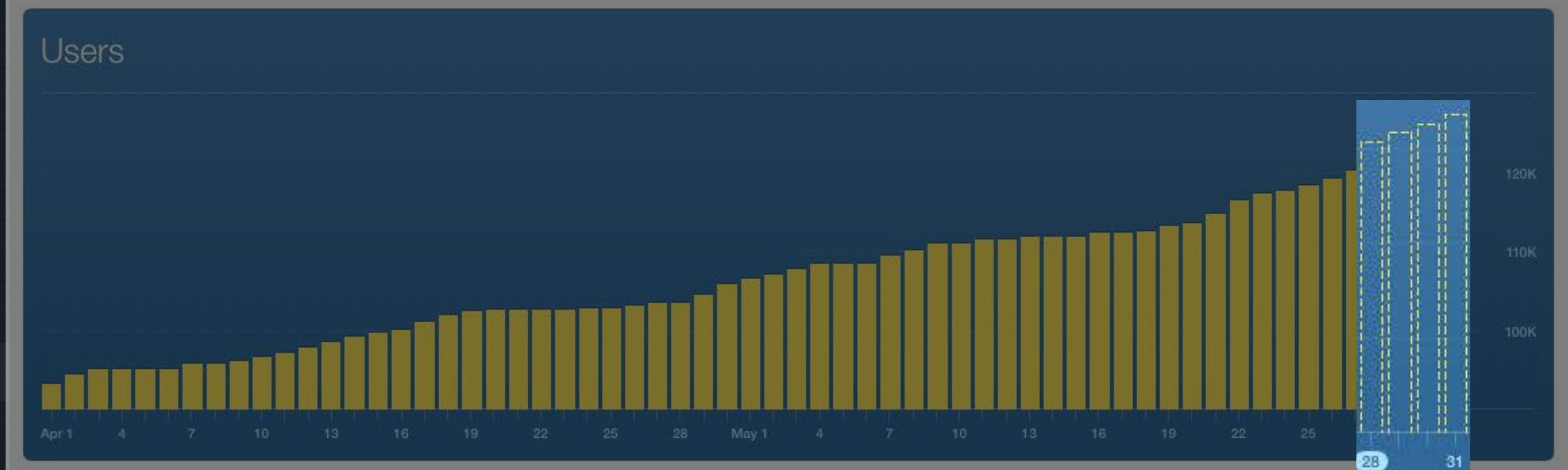
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Daily Monthly

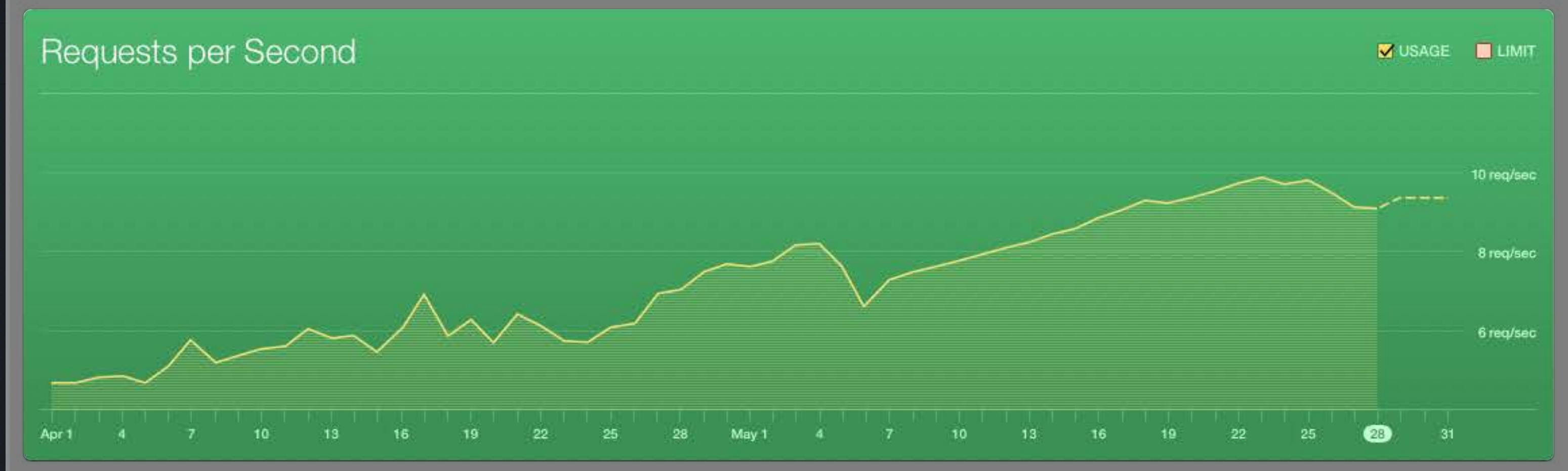
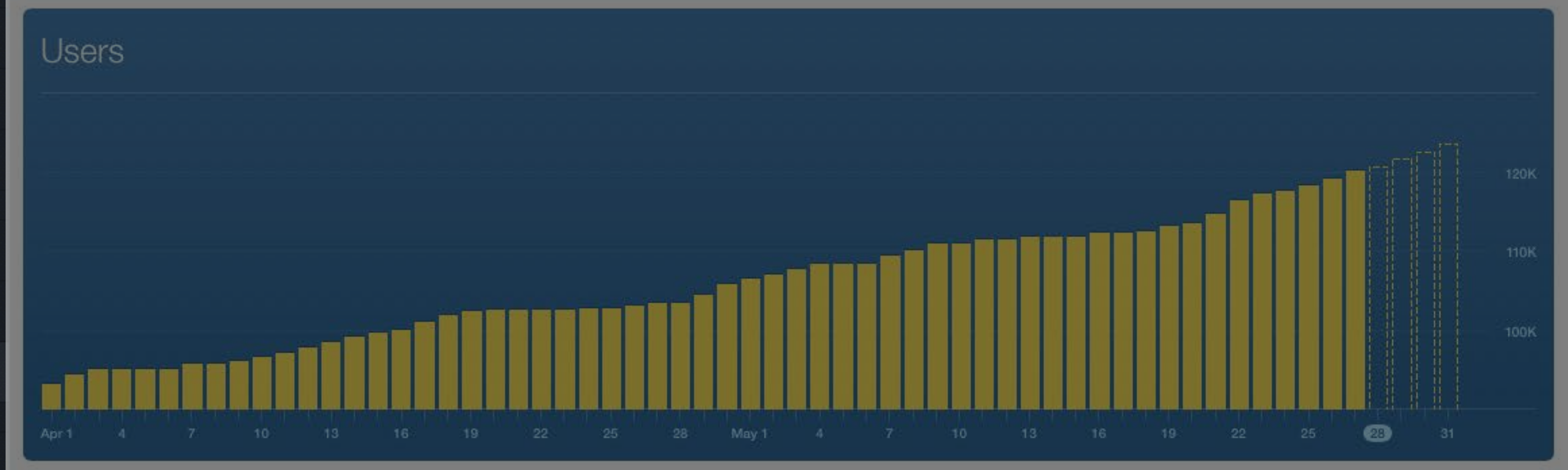




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### About Usage

Daily Monthly



**Dwayne Dryer**

SCHEMA

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PUBLIC DATA

- User Records
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- Usage** Beta

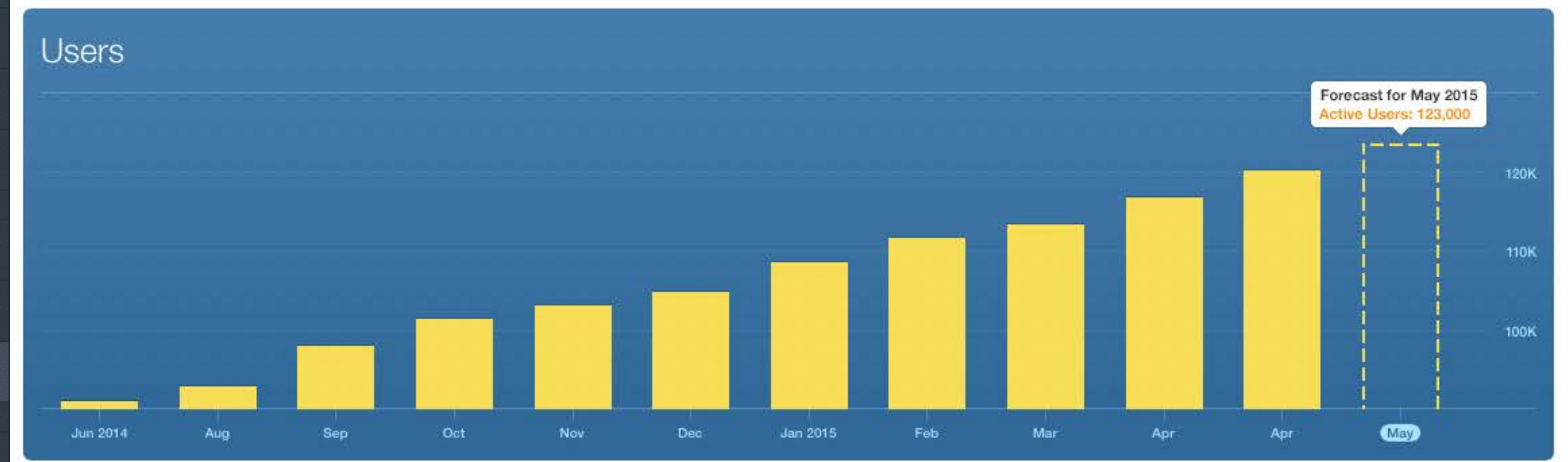
ADMIN

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### About Usage

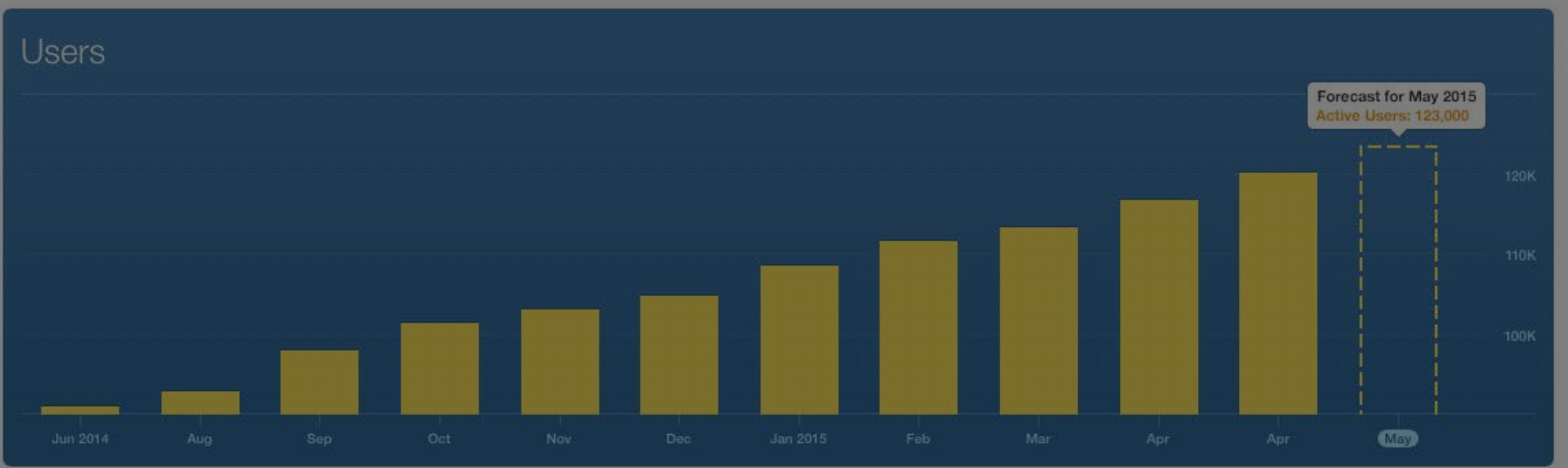
Daily | **Monthly**



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### About Usage

Daily Monthly



**Dwayne Dryer**

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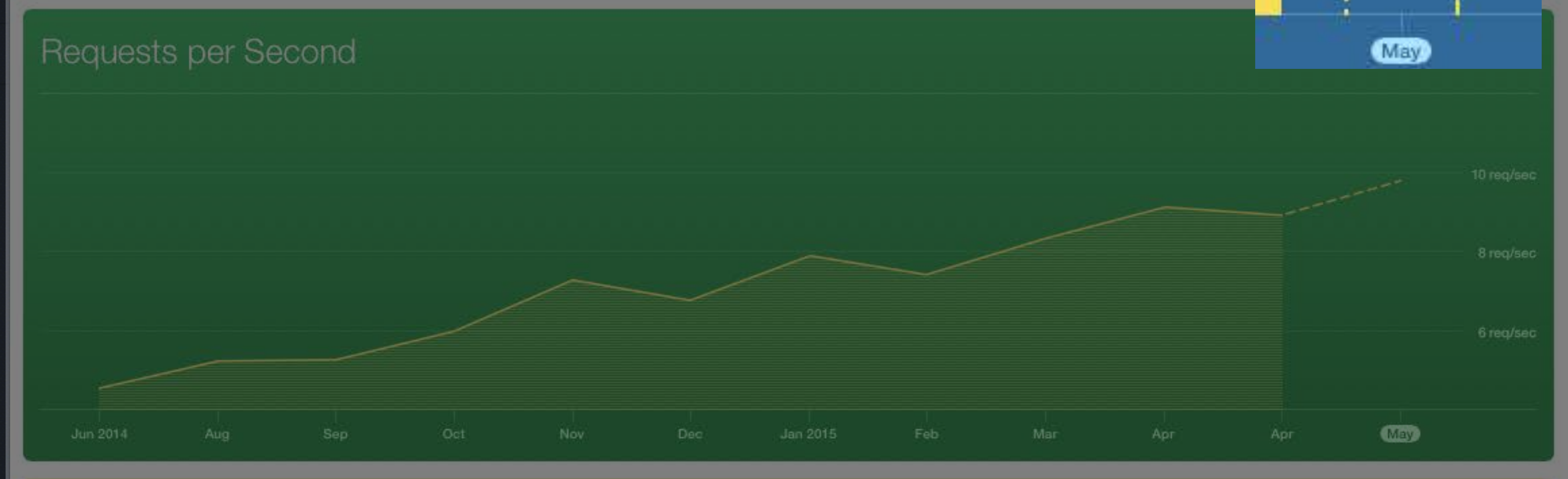
ADMIN

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### About Usage

Daily | **Monthly**



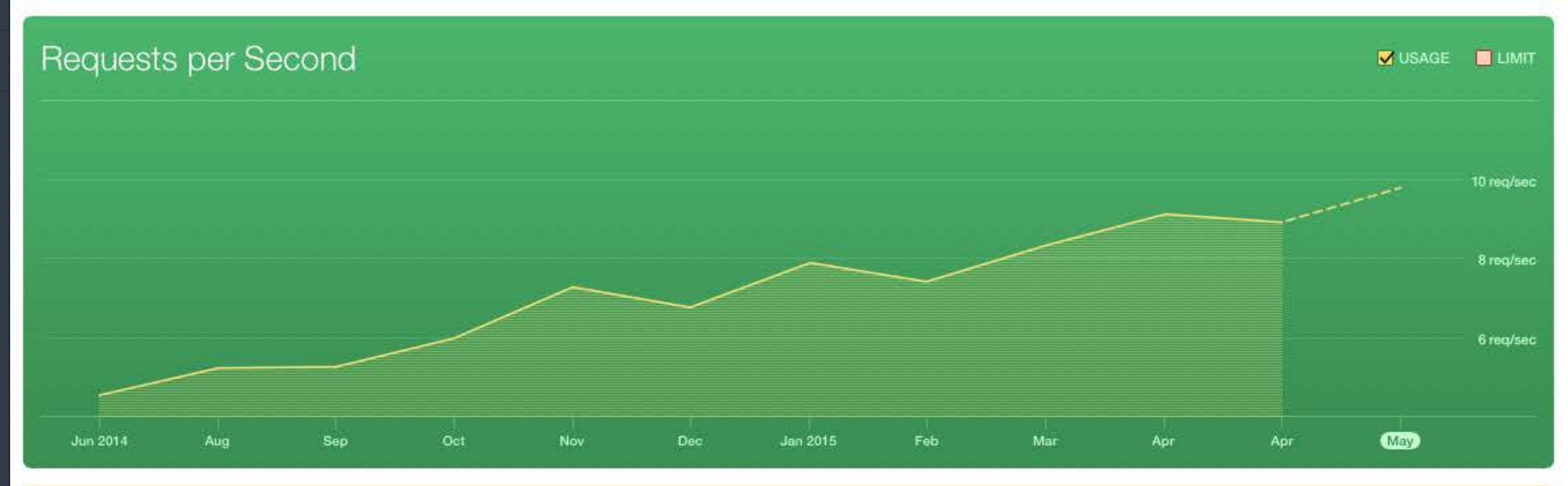
#### Asset Transfer per Month

USAGE  QUOTA

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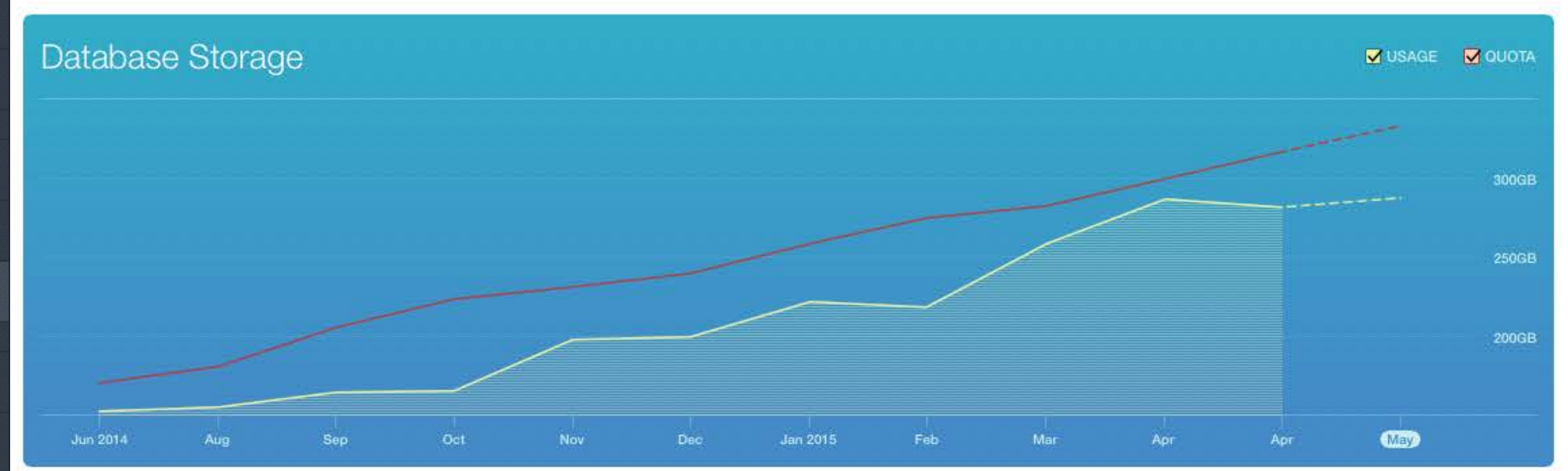
Daily | Monthly

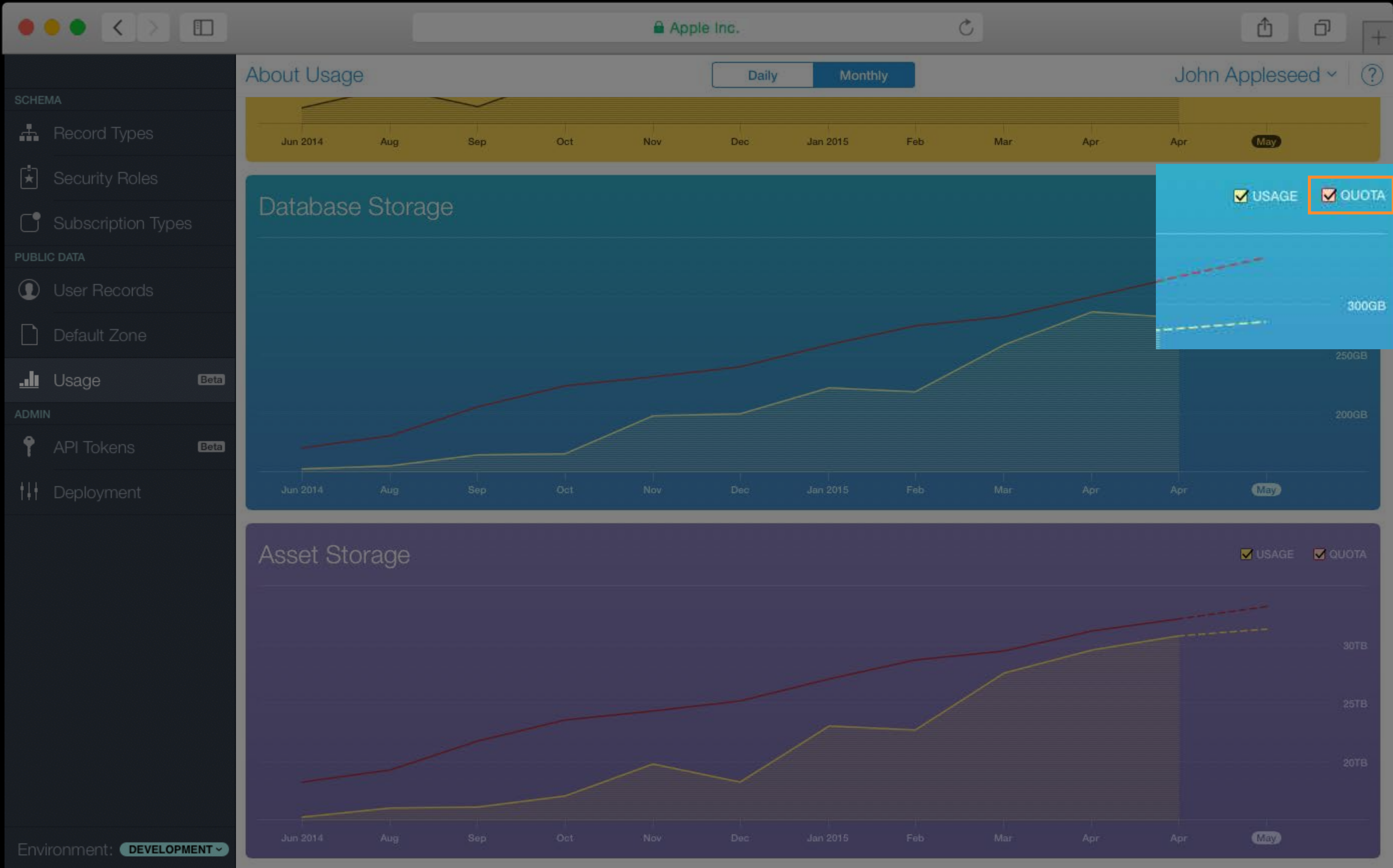


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### About Usage

Daily Monthly





# CloudKit Dashboard



# CloudKit Dashboard

New section to keep track of usage data and free limits

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Available now as a beta release at [developer.apple.com](https://developer.apple.com)

# CloudKit Web Services

# Features

Full CloudKit API via JSON / HTTPS

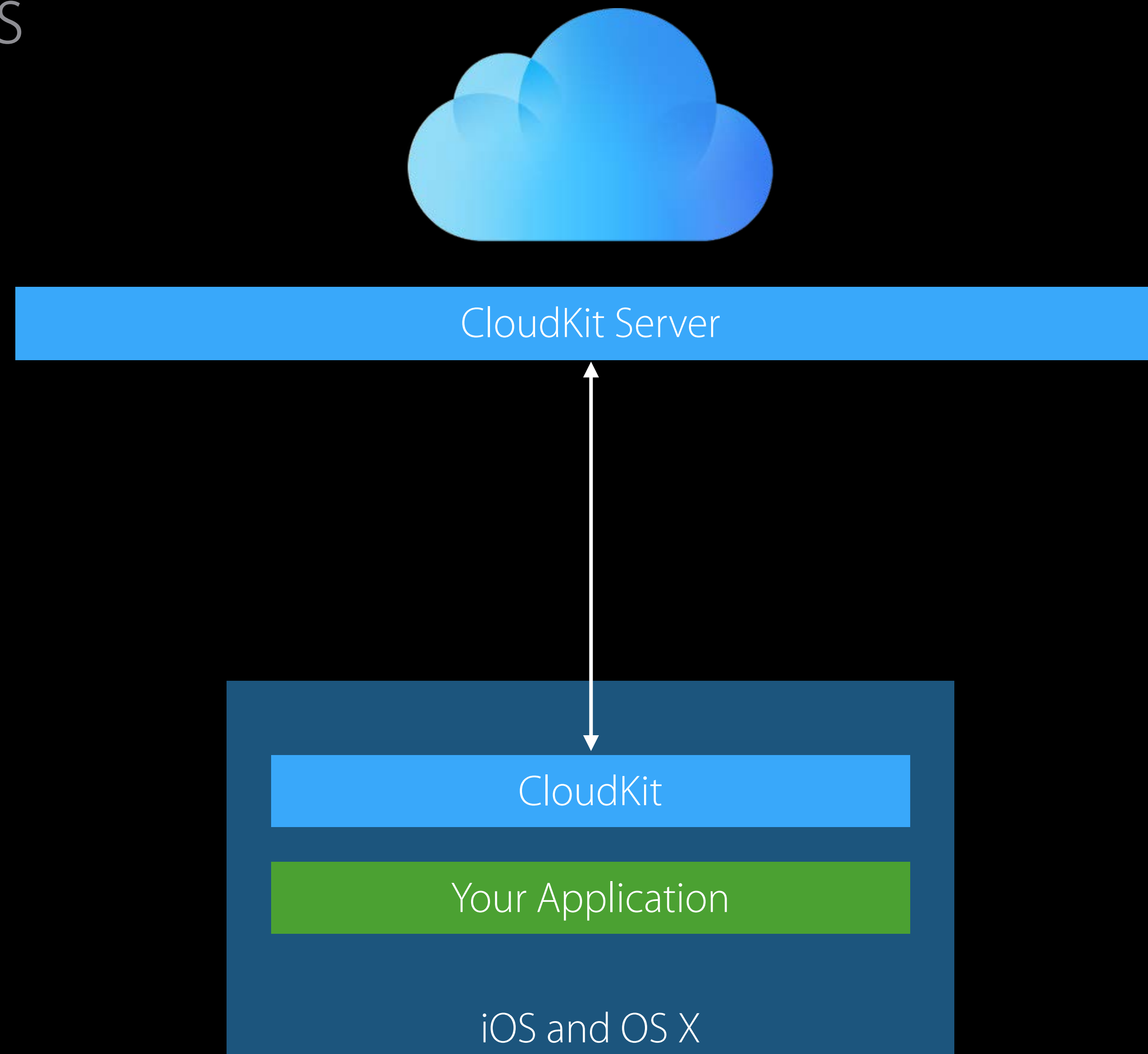
CloudKit JS Library

Web Sign in with Apple ID



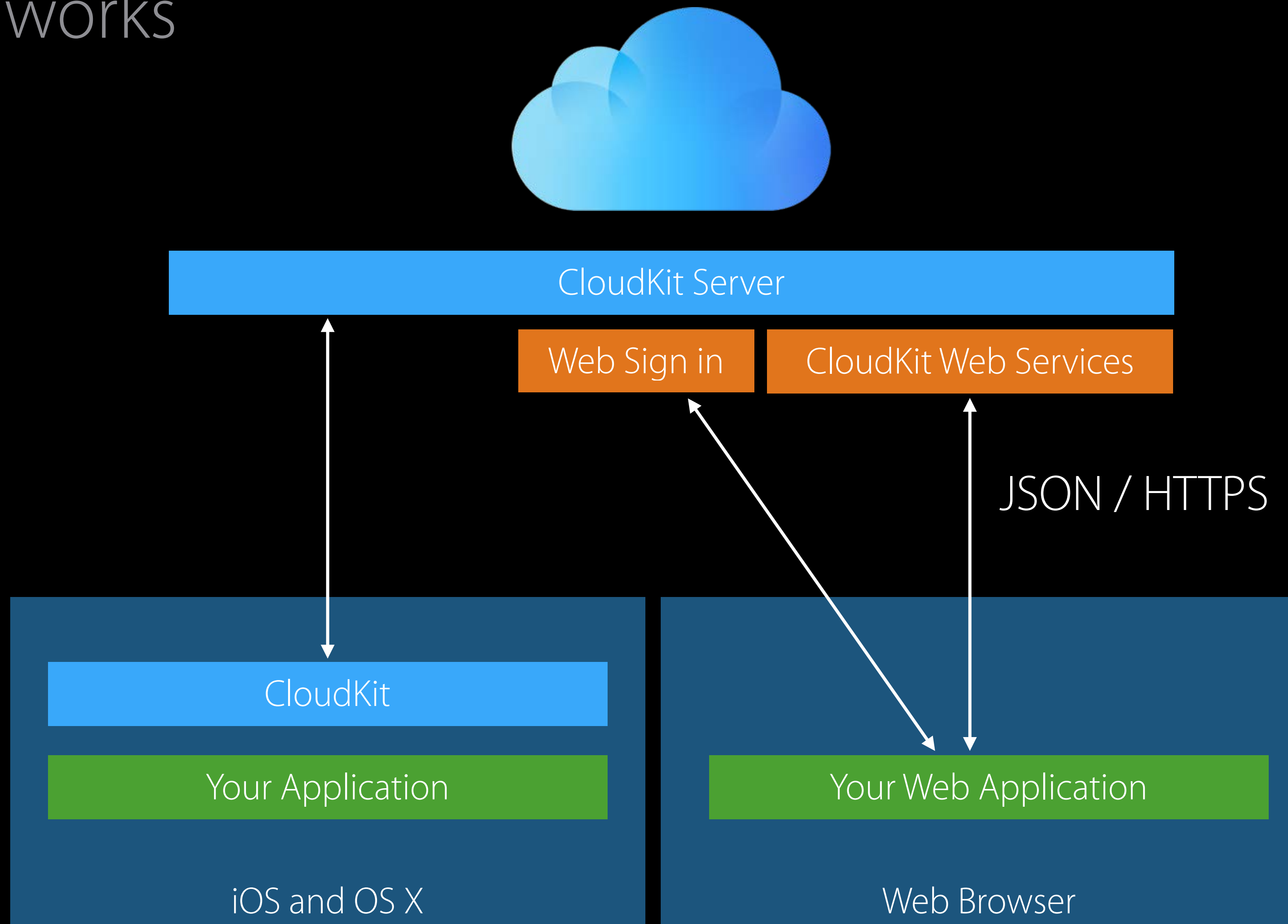
# CloudKit Web Services

How it works



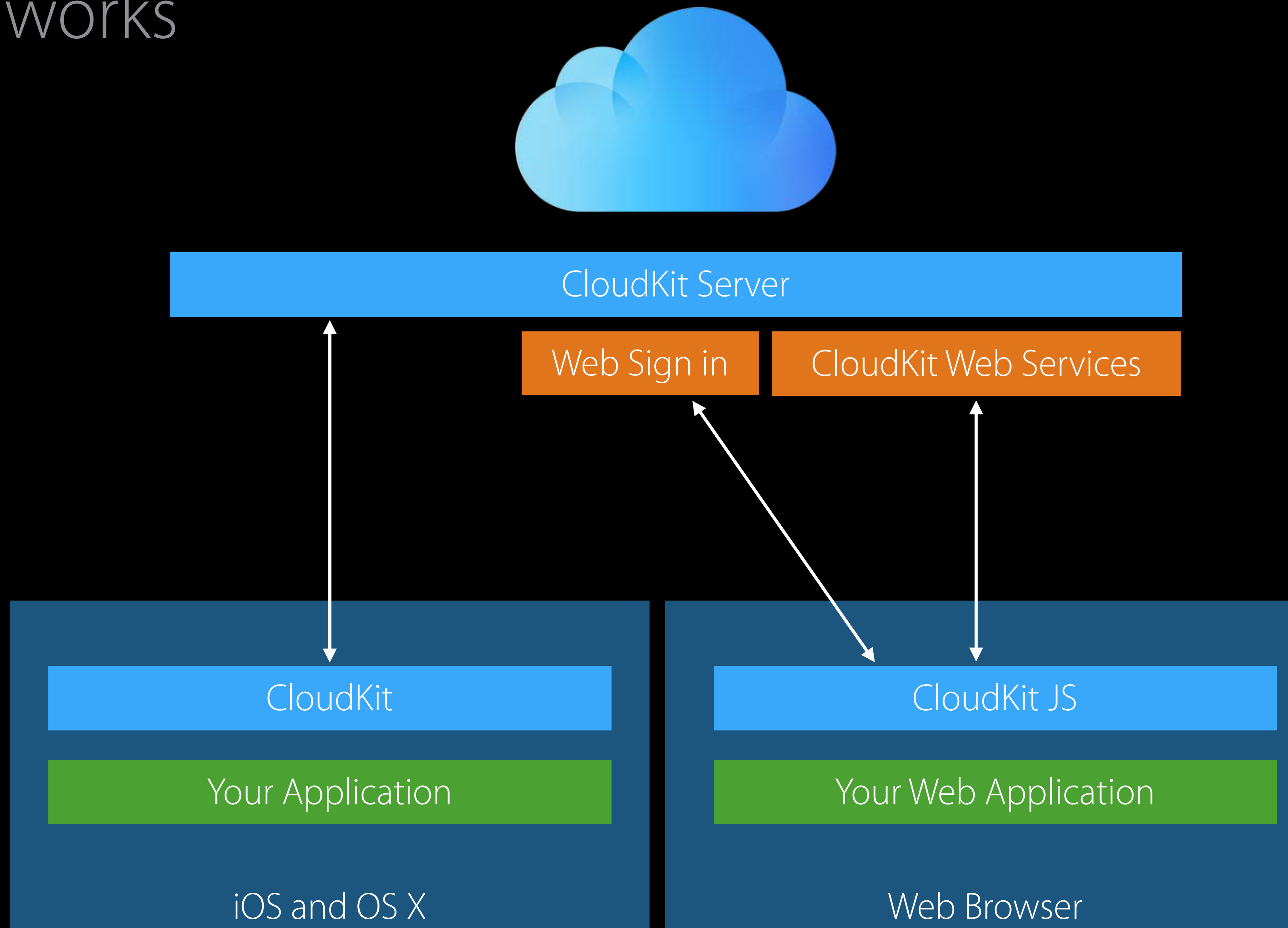
# CloudKit Web Services

How it works



# CloudKit Web Services

How it works



# CloudKit Web Services API

Public and private database access

Record operations

Assets

Query

Subscriptions and notifications

User discoverability

Sync



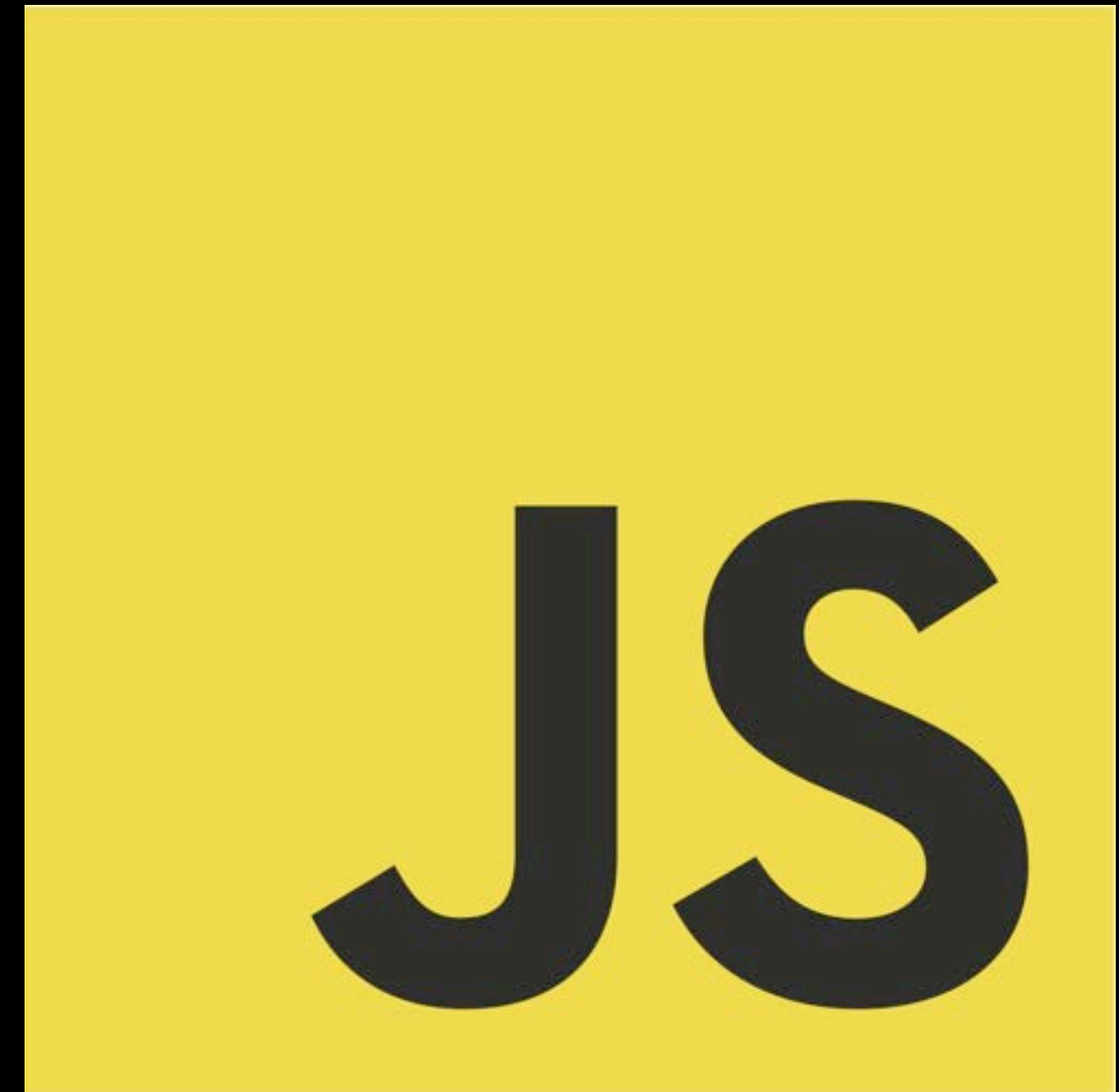
# CloudKit JS

Javascript API

Matches native CloudKit API

No intermediate servers

New notes web app built with CloudKit JS



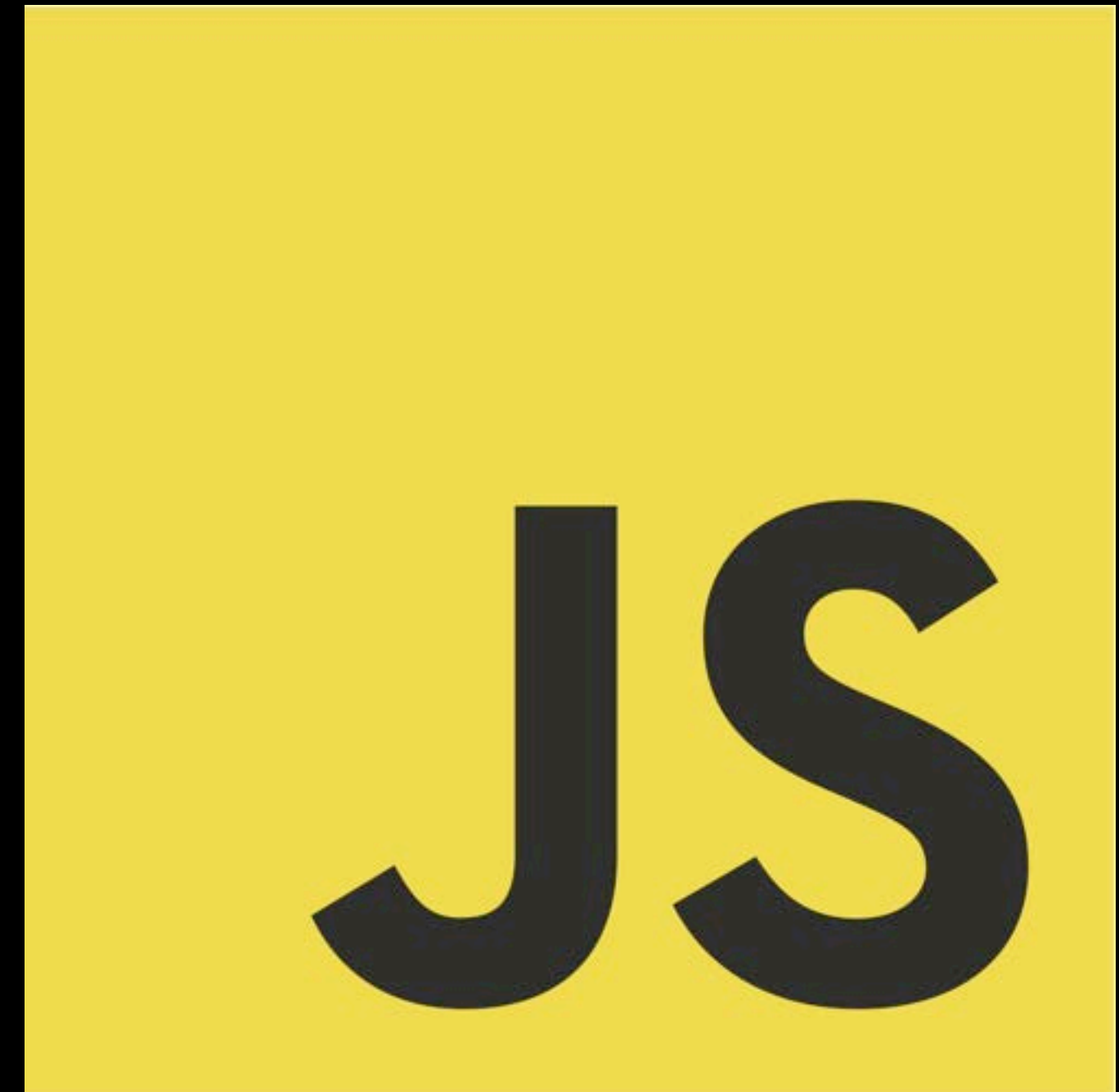
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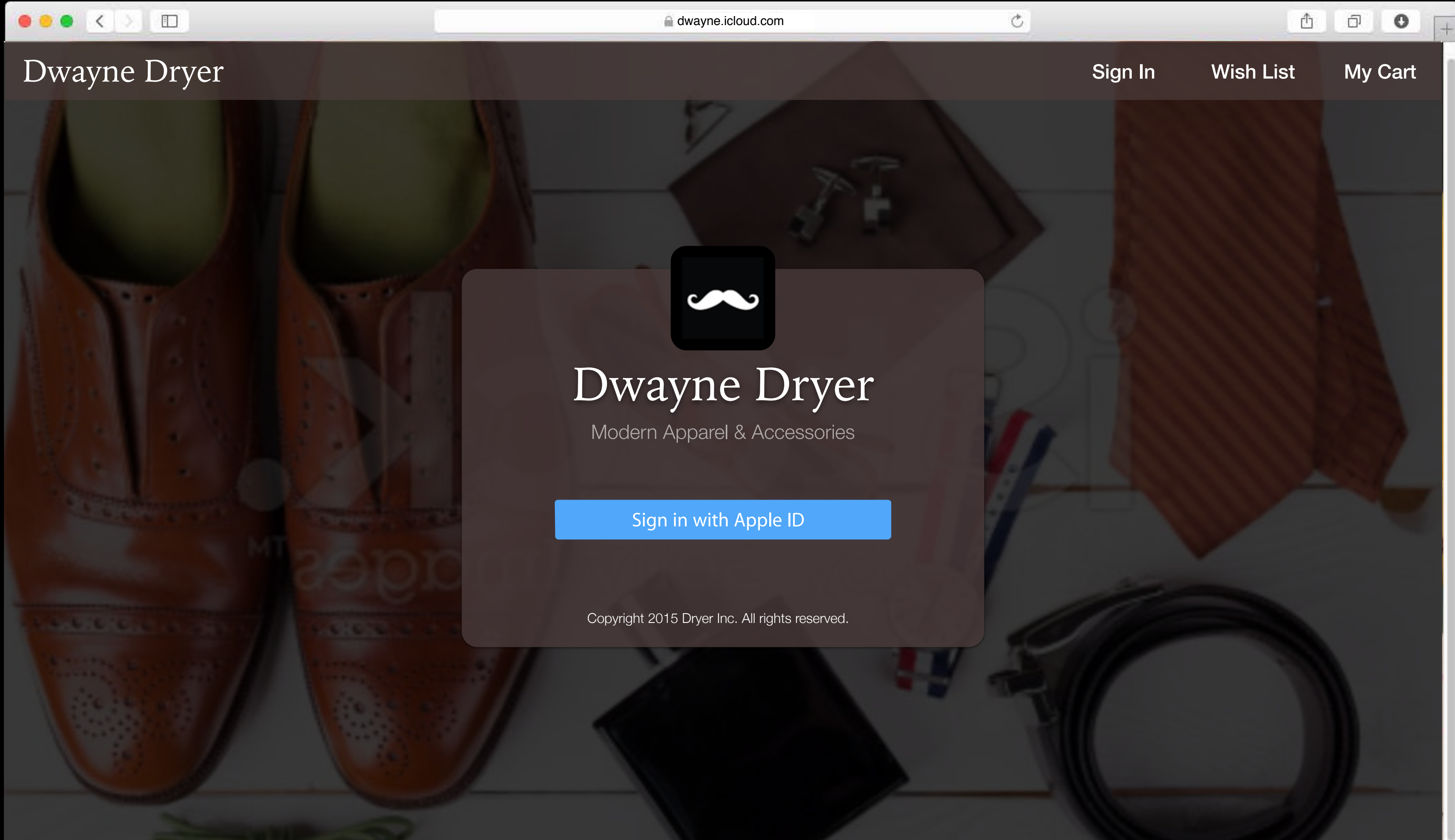


```
<script src="https://cdn.apple-cloudkit.com/ck/1/cloudkit.js" />
```

*Demo*

Notes web app

Web Sign-in with Apple ID

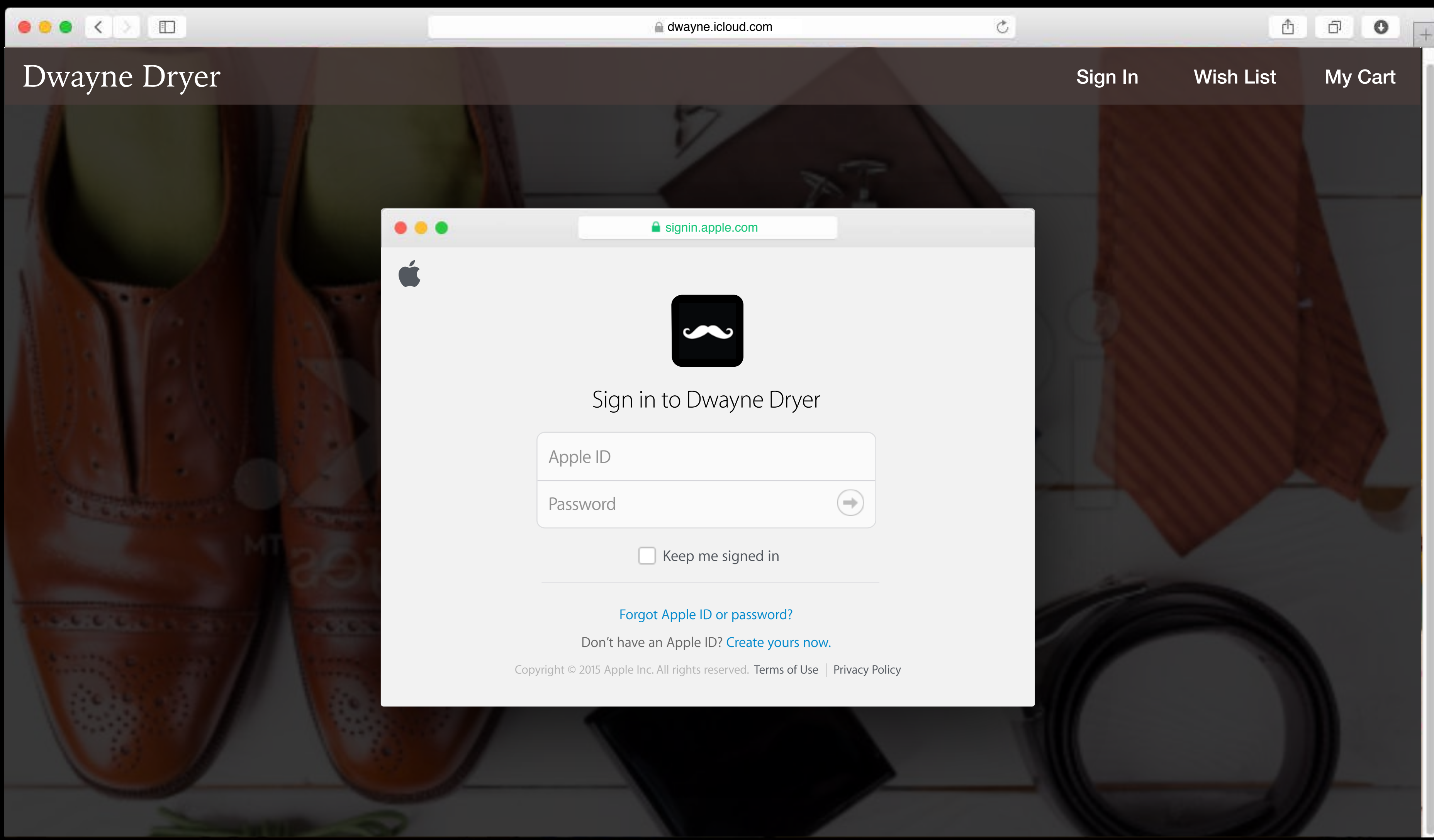


# Dwayne Dryer

Modern Apparel & Accessories

Sign in with Apple ID

Copyright 2015 Dryer Inc. All rights reserved.



Sign in to Dwayne Dryer

Apple ID

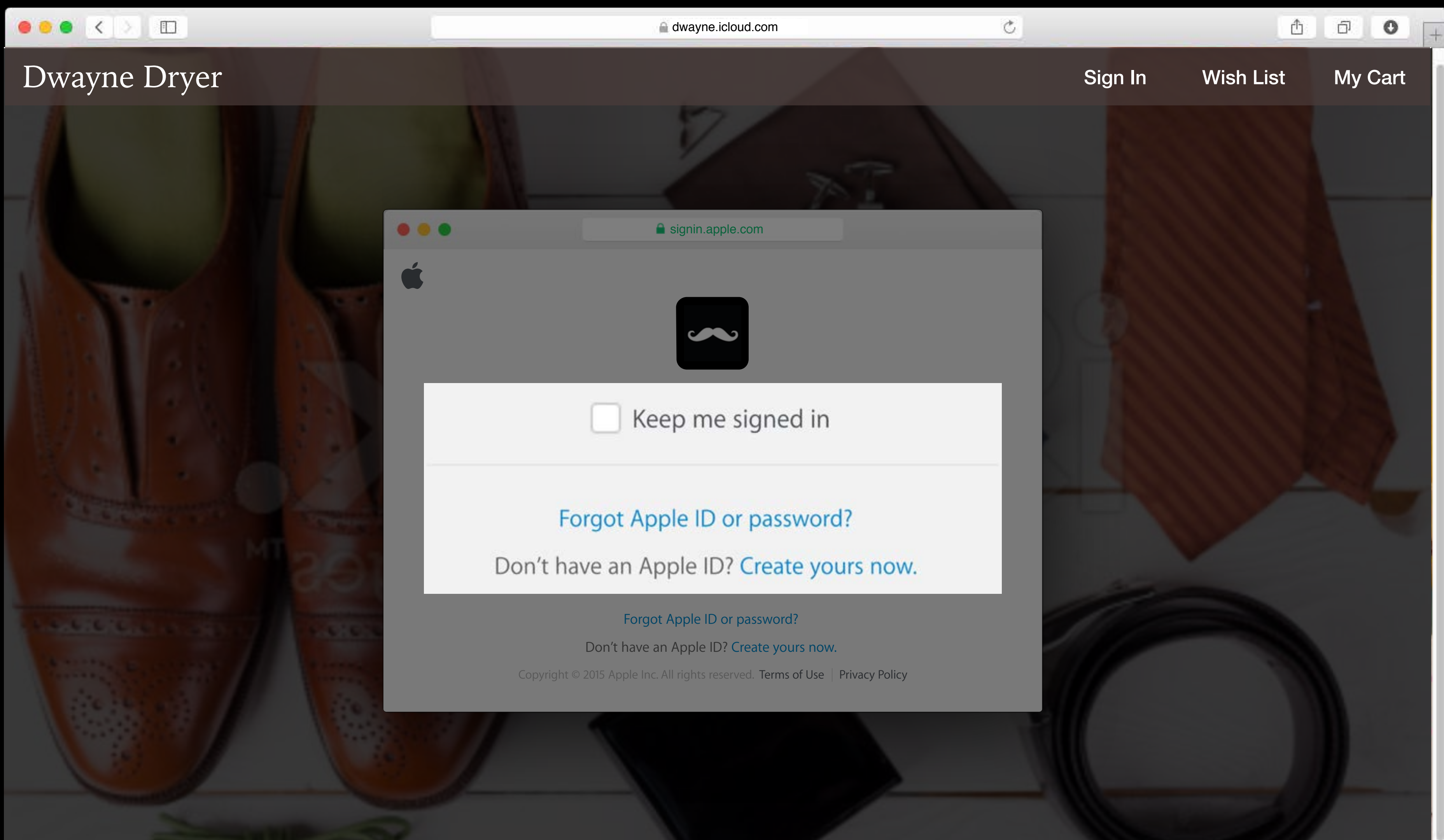
Password



Keep me signed in

[Forgot Apple ID or password?](#)

Don't have an Apple ID? [Create yours now.](#)



Keep me signed in

[Forgot Apple ID or password?](#)

Don't have an Apple ID? [Create yours now.](#)

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# CloudKit Web Service Offering



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iCloud Web-only accounts offer 1GB of storage for private database usage

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iCloud Web-only accounts offer 1GB of storage for private database usage

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](https://developer.apple.com/cloudkit)

## Technical Support

Apple Developer Forums

[developer.apple.com/forums](https://developer.apple.com/forums)

Developer Technical Support

[developer.apple.com/support/technical](https://developer.apple.com/support/technical)

## General Inquiries

[cloudkit@apple.com](mailto:cloudkit@apple.com)

# Related Sessions

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CloudKit JS and Web Services

Pacific Heights

Wednesday 3:30PM

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CloudKit Tips and Tricks

Pacific Heights

Thursday 4:30PM

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# Labs

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CloudKit Lab

Frameworks Lab E Wednesday 9:00AM

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CloudKit Lab

Frameworks Lab A Thursday 9:00AM

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CloudKit Lab

Frameworks Lab D Friday 9:00AM

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 WWDC 15