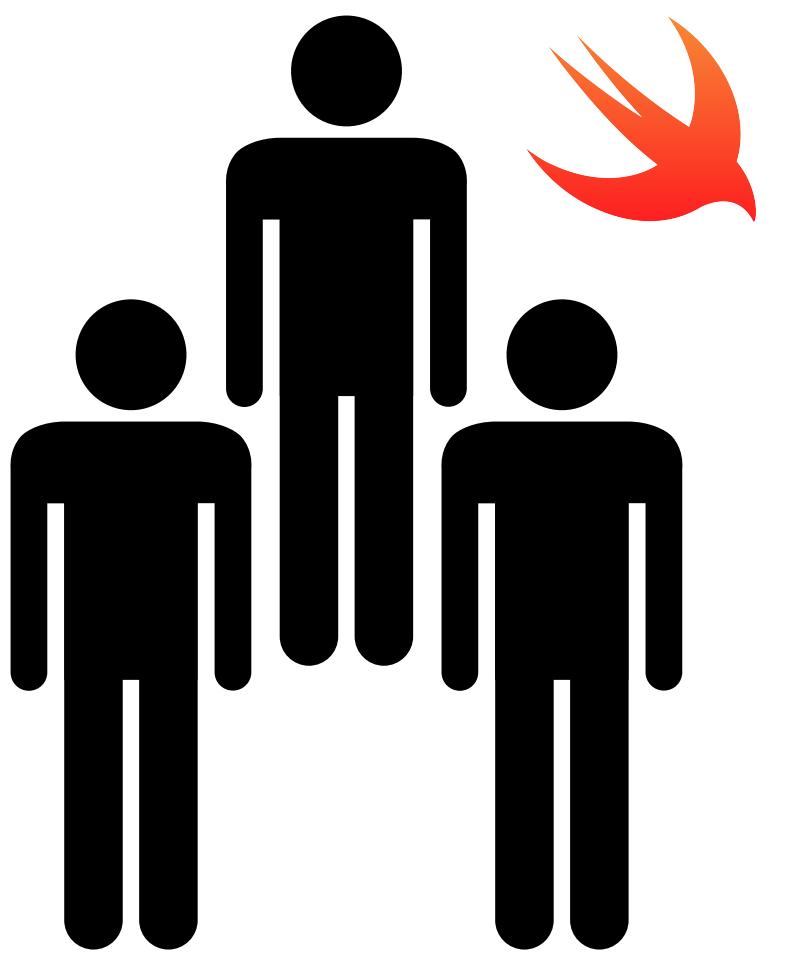


Server-Side Swift Services for Small Startup Success



Daniel Kennett
@iKenndac@mastodon.social



GO

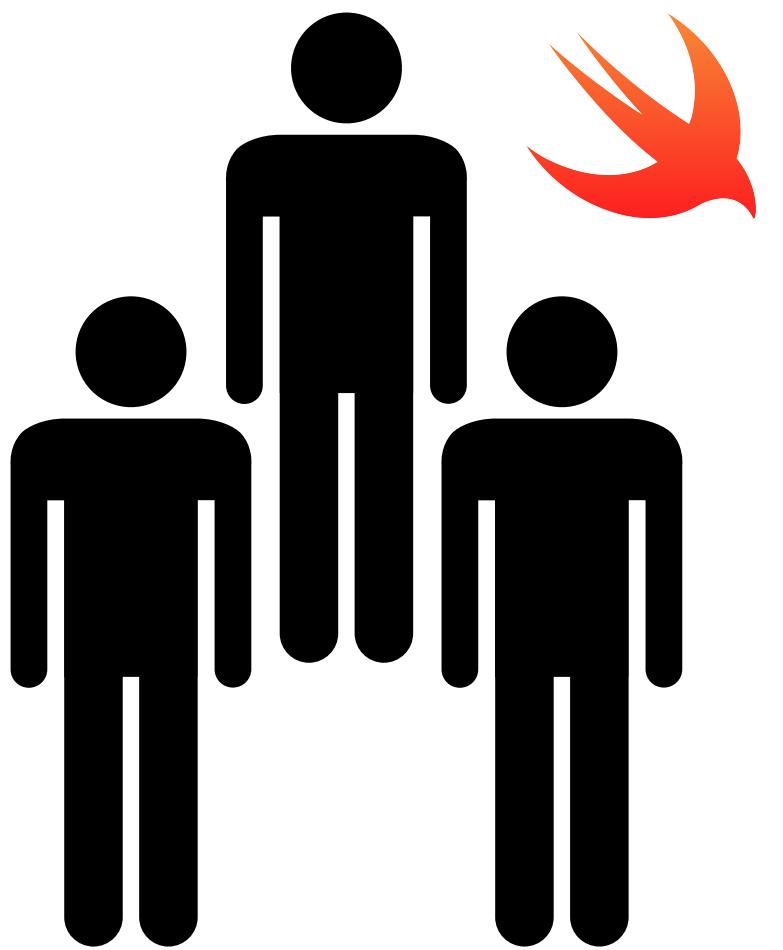
RAILS

php

The screenshot shows a web browser window for the Cascable Developer Portal. The URL in the address bar is `developer.cascable.se/portal/licenses`. The page has a green header with the Cascable logo and the text "Cascable Developer". On the right of the header are links for "Users", "Portal", and "Sign Out". The main content area has a title "Cascable Developer Portal" and a welcome message: "Welcome to the Cascable Developer Portal! Using the Developer Portal, you can update your profile, download your CascableCore licenses, and request a new license." Below this are three tabs: "Profile", "Licenses" (which is selected), and "Request Evaluation License". A large section titled "Your CascableCore Licenses" displays one license entry. The entry is for a "CascableCore License" licensed for the bundle ID "se.cascable.client". It shows the following details:

Expires	Version	Updated
2023-12-31	>= 4.3	2022-12-31

Next to the details are two buttons: "Download" and "Edit". At the bottom of this section is a button labeled "Add Licence".



GO



RAILS

php



Photo Scout



Photo Scout

Photo Scout

An opportunity for “Tip of the Eiffel Tower” is coming up today at 10:24.

Code Sharing

Swift, but like... somewhere else



Vapor

```
import Vapor
let app = try Application(.detect())
defer { app.shutdown() }

app.get("hello") { req in
    return "Hello, world."
}

try app.run()
```

Swift on Linux

- Swift Standard Library ✓
- Foundation ✓
 - URLSession is split out to FoundationNetworking
- Vapor has lots of additions for doing “web server stuff” ✓
- Not much else in the way of Apple frameworks
 - Core Data ✗
 - Core Graphics ✗
 - (etc)

Your Code

Swift

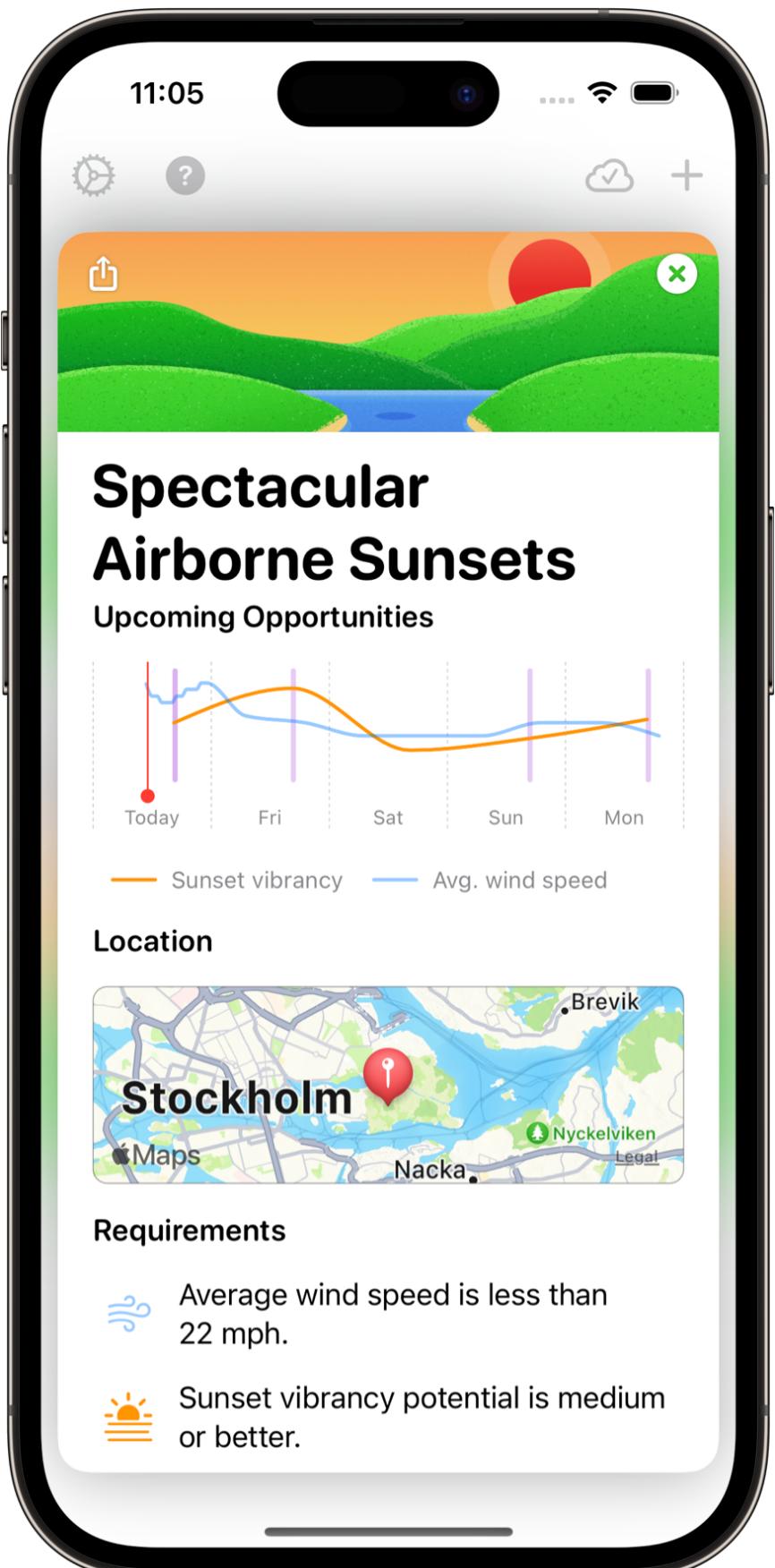
Foundation

Foundation

 **OSes**

Linux

**There is no such thing as
“write once, run anywhere”**



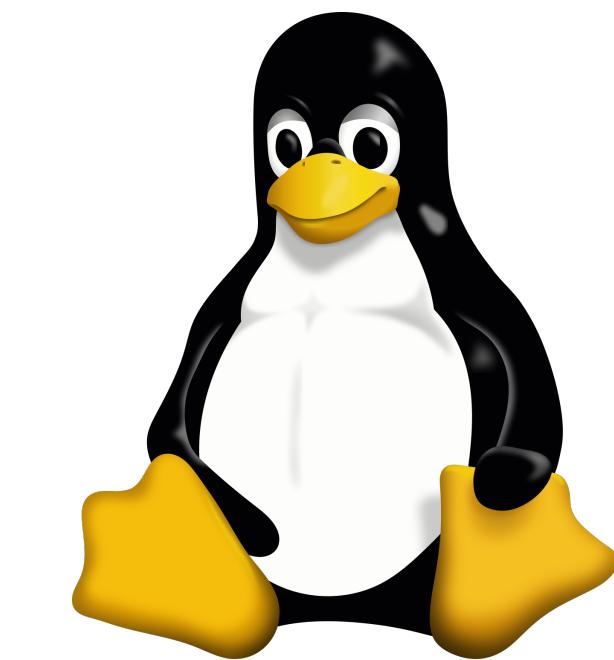
RAM Cache

Redis Cache

Photo Scout
Engine

URLSession

HTTPClient



Swift on Linux

Whistle-Stop Tour

**Remote debugging
can be a pain**

**Swift OSS community
tends to ignore Linux**

**SwiftNIO is a strong,
Apple-backed foundation**

**Vapor has an active community,
getting “stuck in” is easy**

**Apple bias due to Swift
means everything you want
for an iOS app already has
an official package**



DATADOG

- [Go to...](#)
- [Watchdog](#)
- [Events](#)
- [Dashboards](#)
- [Infrastructure](#)
- [Monitors](#)
- [Metrics](#)
- [Integrations](#)
- [APM](#)
- [CI](#)
- [Notebooks](#)
- [Logs](#)
- [Security](#)
- [UX Monitoring](#)
- [Contact Support](#)
- [Help](#)
- [Invite Users](#)

★ Photo Scout Metrics ▾

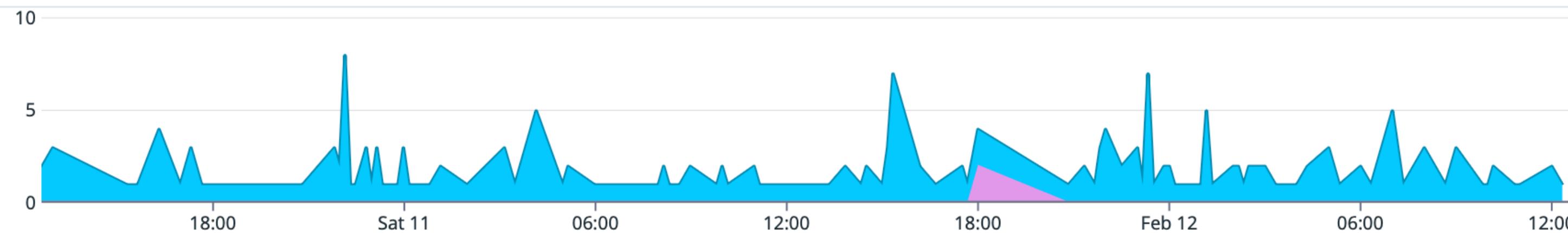
[+ Add Widgets](#)

2d Past 2 Days

🕒 ▾

[Add Template Variables](#) ?[Events & Logs](#)

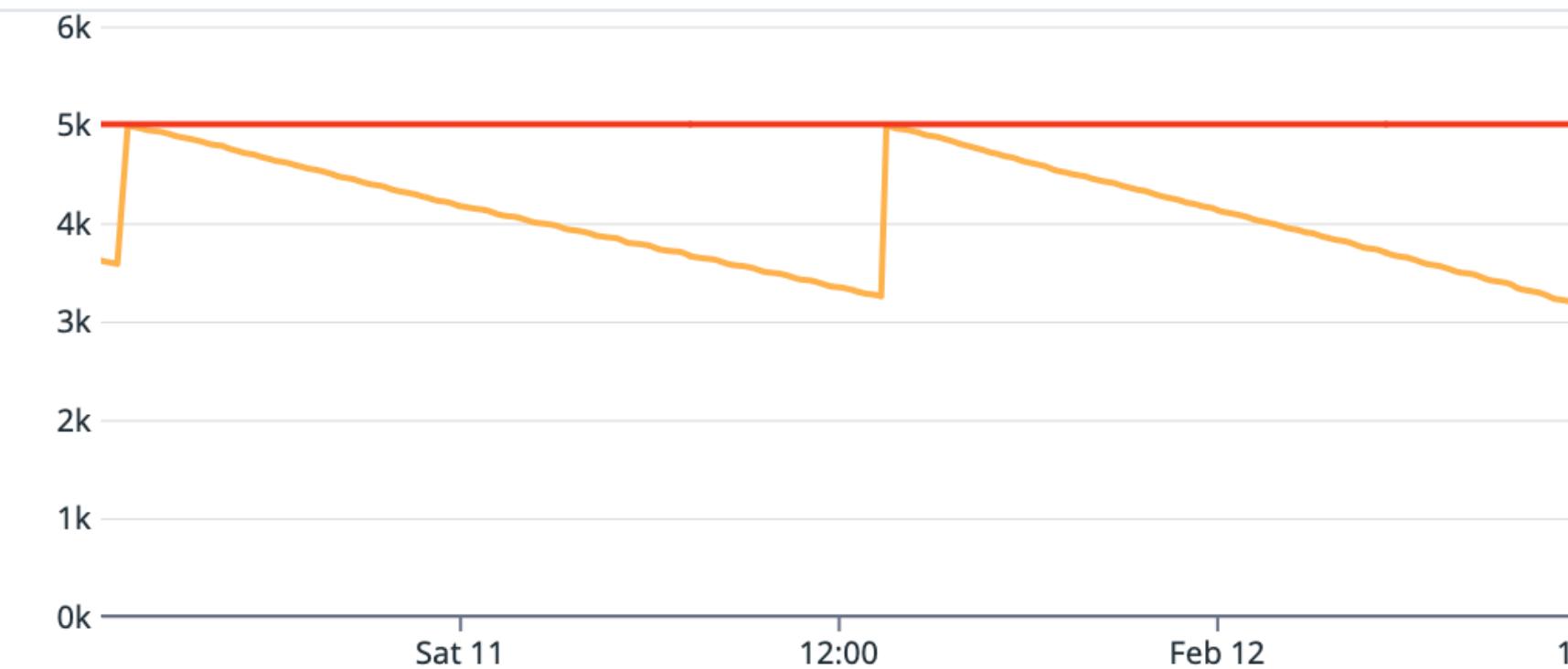
Push Notifications



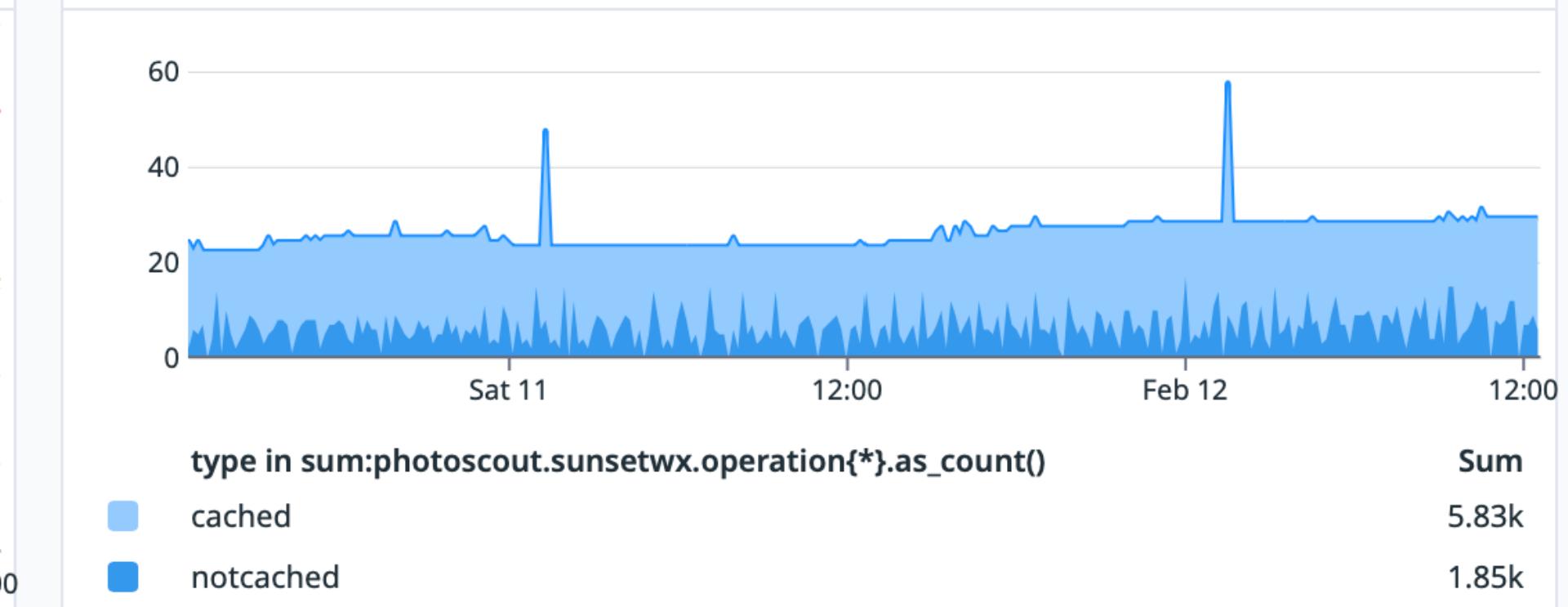
Account Count



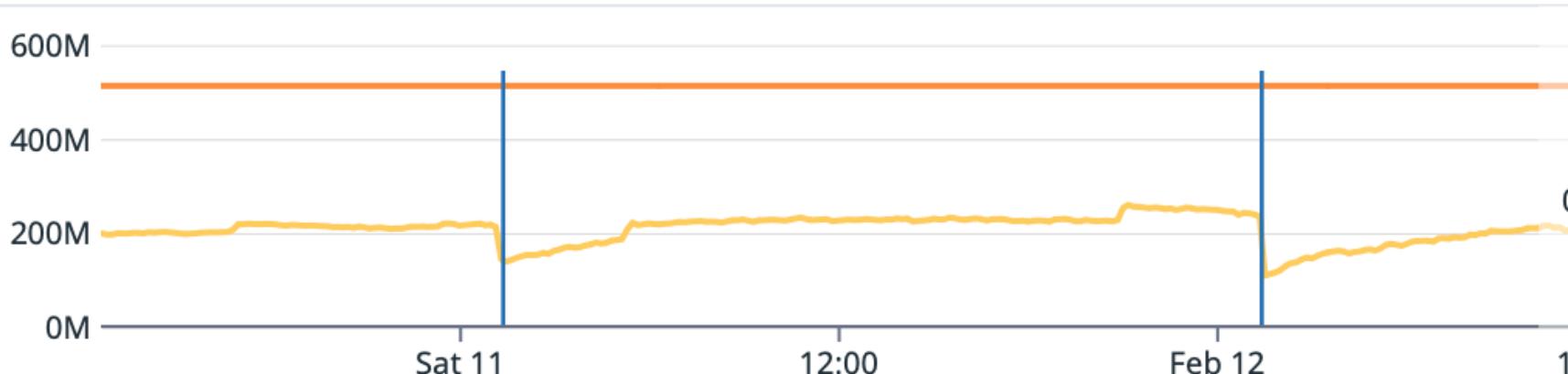
SunsetWX API Usage



SunsetWX Cache Hits

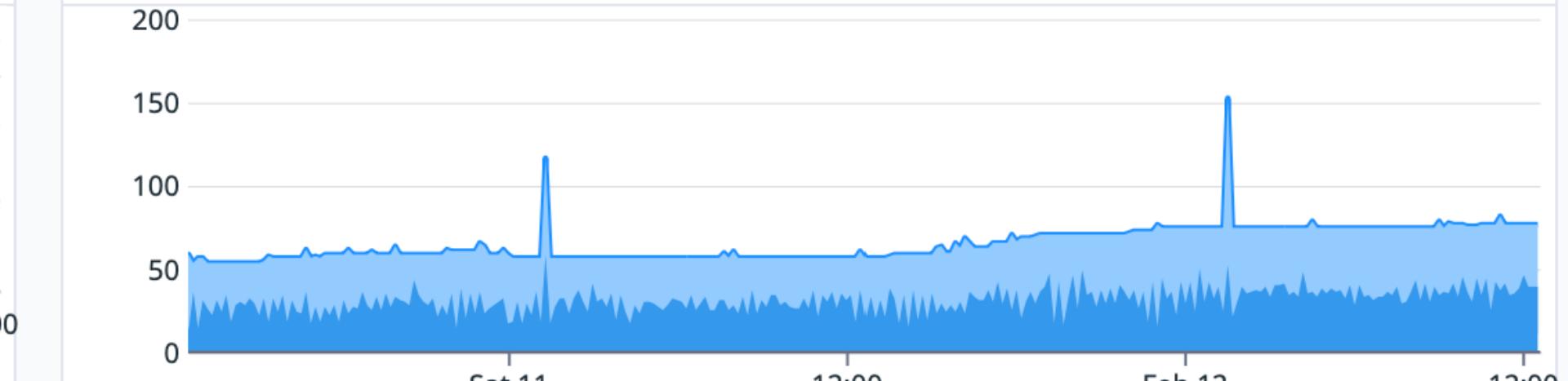


Heroku Web Dyno Memory Usage



host	Metric	Avg	Min	Max
photo-scout-service-production....	Used	210M	111.2M	262M
photo-scout-service-production....	Allowed	512M	512.0M	512M
photo-scout-service-production....	Restarts	1	1	1

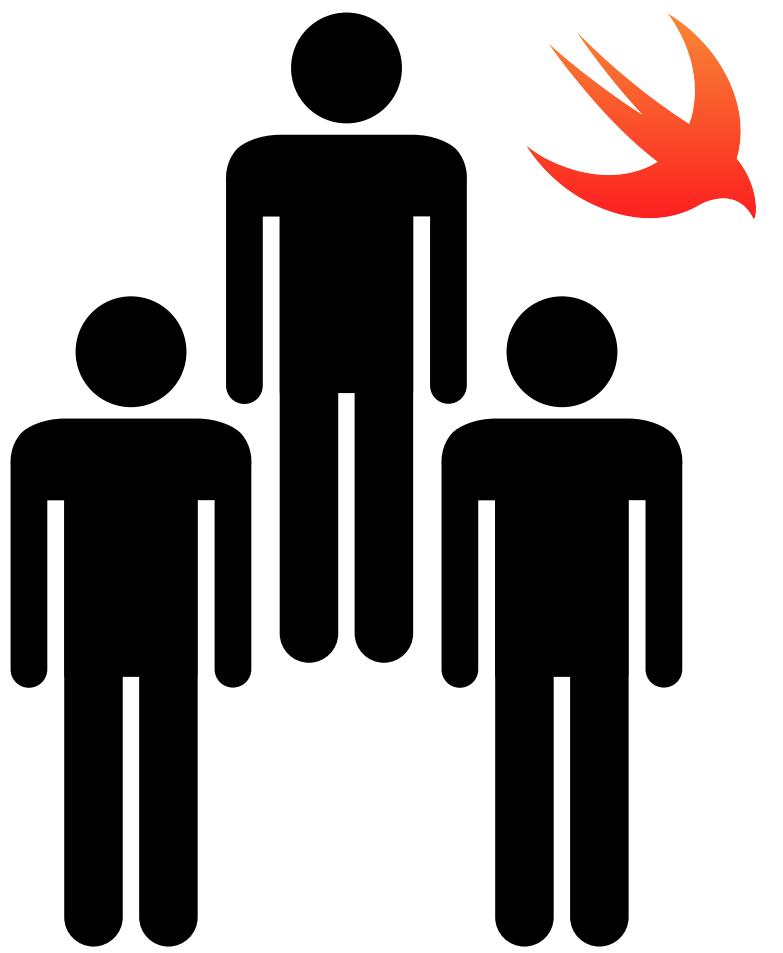
AccuWeather Cache Hits



type in sum:photoscout.accuweather.operation{*}.as_count()

Sum
cached 10.14k
notcached 9.19k

Conclusion



GO



RAILS

php

Code Sharing

Your Code

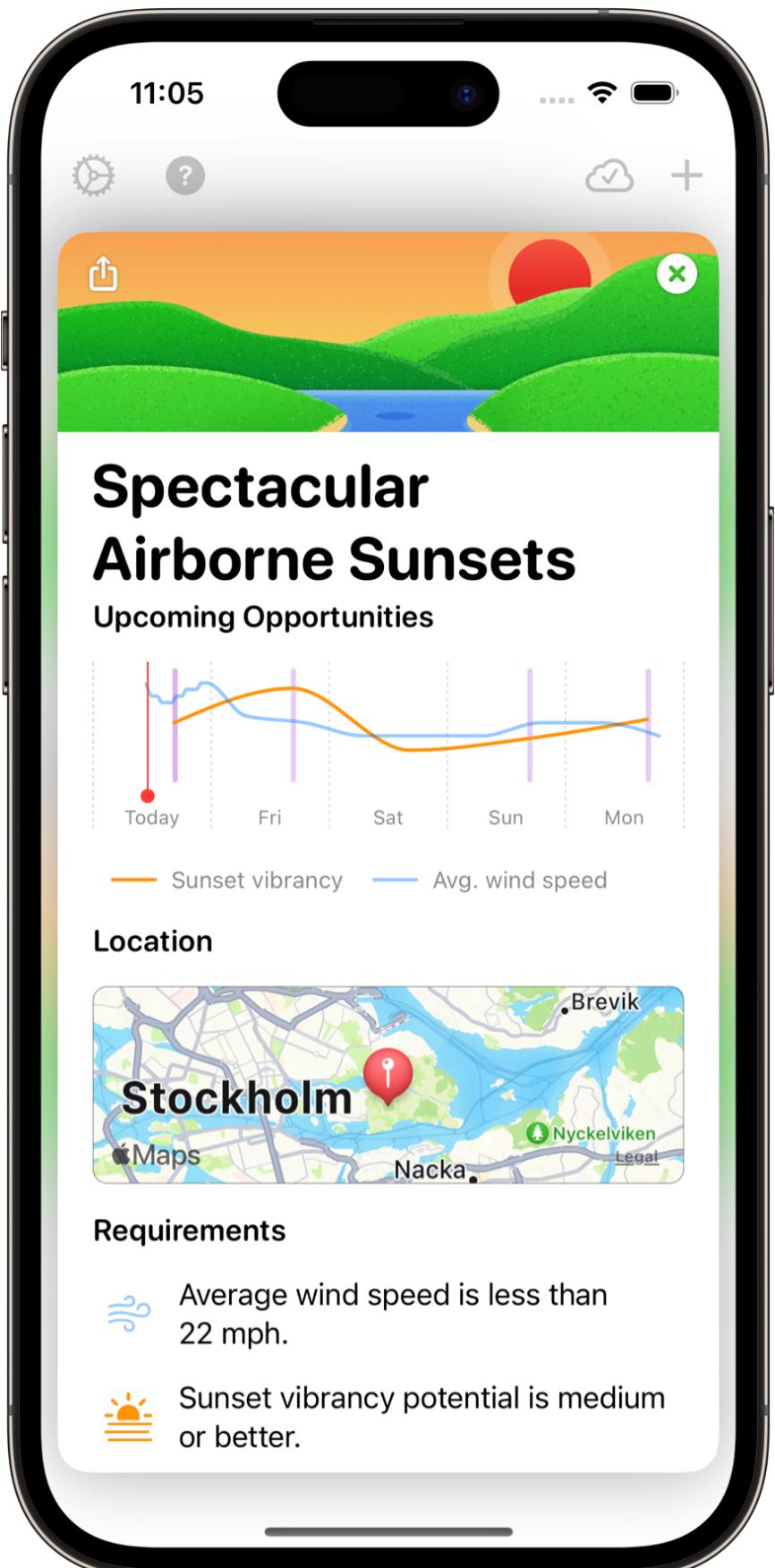
Swift

Foundation

Foundation

 **OSes**

Linux



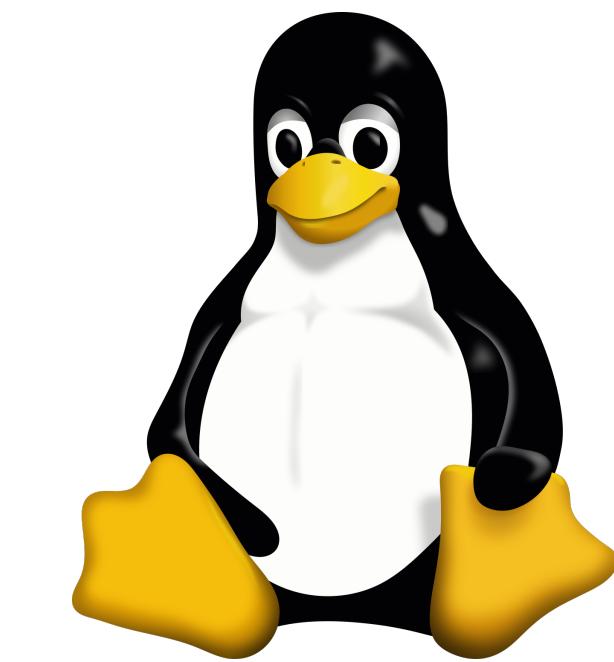
RAM Cache

Redis Cache

Photo Scout
Engine

URLSession

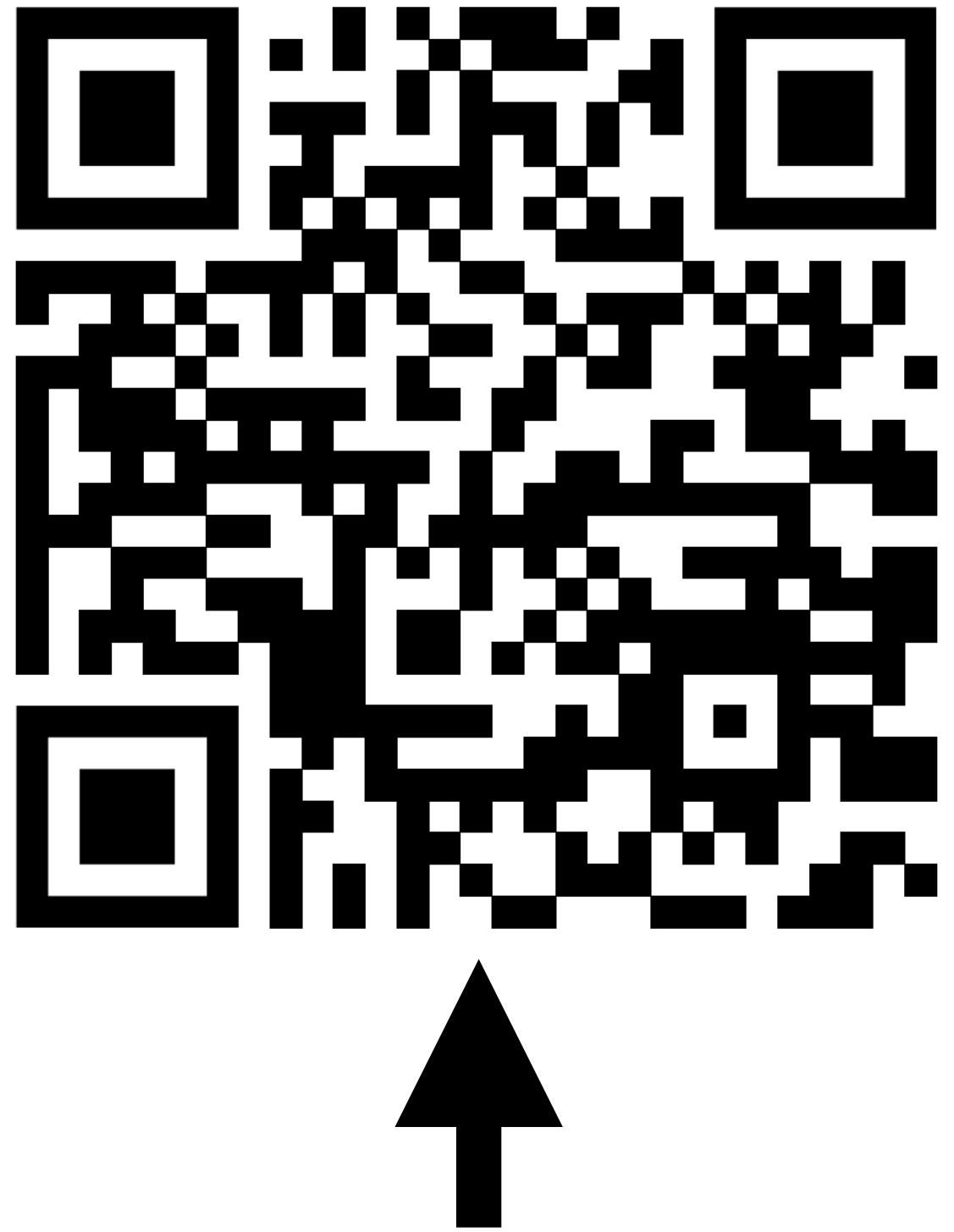
HTTPClient



Fin.



Daniel Kennett
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**Photo Scout
TestFlight**