# Shipping Sentry

Armin Ronacher

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@mitsuhiko

Flask / Sentry / Lektor

Find the Slides at

lucumr.pocoo.org/talks

*reach out to me!*
*I want to talk :)*

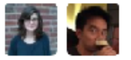
SENTRY
sentry.io

# TypeError react/lib/ReactCompositeComponent in updateComponent

JAVASCRIPT-R3 | Cannot read property 'componentWillReceiveProps' of null | javascript

ASSIGNED EVENTS 8 USERS 6

Resolve | Snooze | Create GitHub Issue



Details Comments 0 User Feedback 0 Tags Related Events

Share this event

**Event 97e62eee2b2d4506b4e7ea955054042b**

May 9 2016 21:39:57 CEST | JSON (60.5 KB)

|< Older Newer >|

## Message

```
TypeError: Cannot read property 'componentWillReceiveProps' of null
```

## Tags

browser = Chrome 50.0 device = Other environment = prod level = error logger = javascript

os = Mac OS X 10.11.4 release = a89626174115214fcf1e8d29bfc7018a287bfc64

sentry_version = 1c5ae57c8a9c1dec5ebc83331d8e6572879ea2ad

url = https://app.getsentry.com/make-me-up-co/ user = id:43428

## User

Last 24 Hours

Last 30 Days

First seen

When: a month ago

Date: April 1 2016 14:51:54 CEST

Release: 6590d03f1e38

Last seen

When: 2 hours ago

Date: May 9 2016 21:39:57 CEST

Release: a89626174115

EXCEPTION (most recent call first)

Original | Minified | App Only | Full | Raw

## TypeError

Cannot read property 'id' of undefined

./app/views/projectDetails.jsx in Constructor.onProjectChange at line 90:59

```
85.   onProjectChange(projectIds) {
86.     if (!this.state.project) return;
87.     if (!projectIds.has(this.state.project.id)) return;
88.
89.     this.setState({
90.       project: {...ProjectStore.getById(this.state.Project.id)}
91.     });
92.   },
93.
94.   identifyProject() {
95.     let {params} = this.props;
```

Called from: ~/reflux-core/lib/PublisherMethods.js in EventEmitter.eventHandler

./app/stores/projectStore.jsx in Store.loadInitialData at line 25:9

./app/views/organizationDetails.jsx in Request.success at line 100:21

./app/api.jsx in Object.success at line 61:20

Called from: ~/jquery/dist/jquery.js in fire

? 84.114.93.8

iPod Touch 6G
arm64

iOS
**Version:** 10.1.1

TAGS

| device | iPod Touch 6G | device.family | iPod | level | fatal | os | iOS 10.1.1 | os.name | iOS | release | 1.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|

Thread #0 (most recent call first)

Symbolicated | Unsymbolicated | App Only | Full | Raw

| id | 0 | name | n/a | was active | no | crashed | yes |
|---|---|---|---|---|---|---|---|

## EXC_BREAKPOINT

```
fatal error: Index out of range
 Index out of range
```

| mach exception | EXC_BREAKPOINT |
|---|---|

| | | |
|---|---|---|
| **SentryDemo** | 0x00071c7c | **main** (AppDelegate.swift:13) |
| Called from: **UIKit** | **UIApplicationMain** | |
| **SentryDemo** | 0x00070a4c | **@objc SentryDemo.ViewController.CrashIt (protocol<>) -> ()** (ViewController.swift) |
| **SentryDemo** | 0x00070940 | **SentryDemo.ViewController.CrashIt (protocol<>) -> ()** (ViewController.swift:25) |

EXCEPTION (most recent call first)

App Only | Full | Raw

## ProviderNotRegistered

google

**sentry/auth/manager.py** in **get** at line **23**

```
20.         try:
21.             cls = self.__values[key]
22.         except KeyError:
23.             raise ProviderNotRegistered(key)
24.         return cls(key=key, **kwargs)
25.
26.     def exists(self, key):
```

| | |
|---|---|
| key | u'google' |
| kwargs | { u'domain': u'getsentry.com' } |

Show more

**sentry/models/authprovider.py** in **get_provider** at line **47**

**sentry/web/frontend/auth_organization_login.py** in **handle_sso** at line **95**

**sentry/web/frontend/auth_organization_login.py** in **handle** at line **135**

Called from: **django/db/transaction.py** in **inner**

**sentry/web/frontend/base.py** in **dispatch** at line **186**

Called from: **django/utils/decorators.py** in **bound_func**

## Breadcrumbs

Show 11 collapsed crumbs

| | | |
|---|---|---|
| xhr | `GET /api/0/subscriptions/make-me-up-co/ [200]` | 21:39:46 |
| sentry | `TypeError: Cannot read property '_currentElement' of null` | 21:39:46 |
| xhr | `GET https://t687h3m0nh65.statuspage.io/api/v2/incidents/unresolved.json?_=1462822786179 [200]` | 21:39:46 |
| ui.click | `div.col-md-2.org-sidebar > div > ul.nav.nav-stacked > li > a` | 21:39:51 |
| navigation | | 21:39:51 |
| to | `/organizations/make-me-up-co/teams/` | |
| from | `/make-me-up-co/` | |
| sentry | `TypeError: Cannot read property '_currentElement' of null` | 21:39:51 |
| ui.click | `span.pull-right.org-selector.dropdown > a.dropdown-toggle > span` | 21:39:54 |
| ui.click | `ul.dropdown-menu-right.dropdown-menu > li.active > a` | 21:39:56 |
| navigation | | 21:39:56 |
| to | `/make-me-up-co/` | |
| from | `/organizations/make-me-up-co/teams/` | |
| error | **TypeError:** Cannot read property 'componentWillReceiveProps' of null | 21:39:57 |

# 「 THE TWO PRODUCTS 」

sentry **vs** ‘getsentry‘

**sentry**

open source repo
on-premise
monthly releases

‘getsentry’

billing & quotas
depends on sentry
hourly deploys

# 「 GROWING THE TEAM 」

**2.5 to 25**

more process
keep processes light
keep developers happy

**2 locations**

process in code
natural for us because of
the Open Source nature

# 「 THE GOALS 」

deploy in seconds
be unable to screw up
and if you do: instant rollbacks

tag a release once a month

# 「 WORKFLOW 」

commit
review
integration
deploy

requires good test coverage
requires good local setup
makes it easier for newcomers

# 「 COMMITTING 」

# lint on commit!

```
mitsuhiko at herzog in ~/Development/sentry on git:master+? workon sentry
$ git ci -am 'Performance improvements to the data scrubber.'
src/sentry/utils/data_scrubber.py:147:1: F401 'unused' imported but unused
```

**On Prem:** 1 Release / Month

**Hosted:** 5 Deployments / Day

April 9, 2016 – May 9, 2016

Period: **1 month**

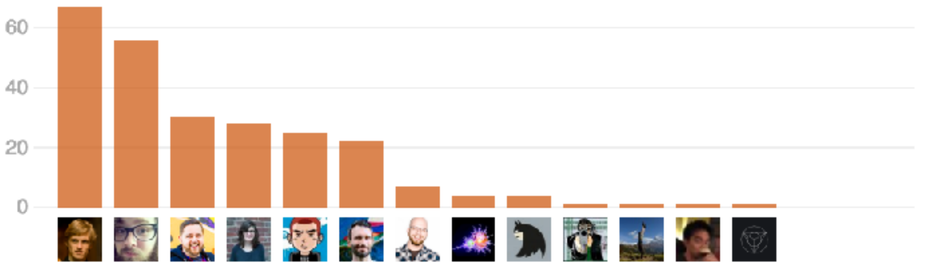
## Overview

**111** Active Pull Requests

**77** Active Issues

| **104** Merged Pull Requests | **7** Proposed Pull Requests | **46** Closed Issues | **31** New Issues |
|---|---|---|---|

Excluding merges, **13 authors** have pushed **213 commits** to master and **247 commits** to all branches. On master, **251 files** have changed and there have been **8,385 additions** and **1,681 deletions**.




**4** Releases published by **1** person

**Published** 8.3.2 28 days ago

**Published** 8.2.5 12 days ago

**Published** 8.3.3 12 days ago

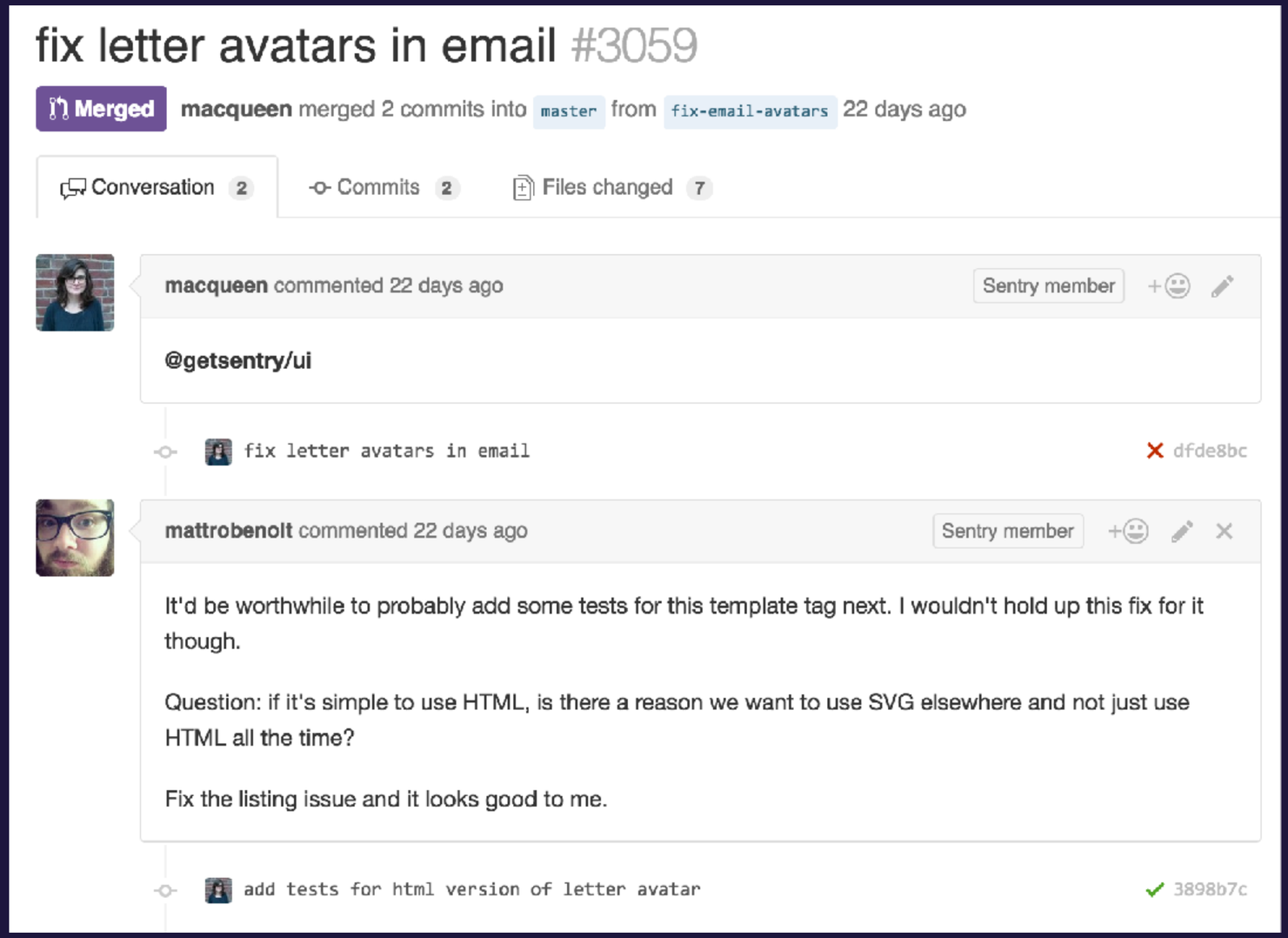
**Published** 8.4.0 7 days ago

**104** Pull requests merged by **12** people

# master is stable

1. branch off master
2. pull request
3. merge

# all the pull requests



!! AVOID DOWNTIME !!

# postgres <3

transactional ddl, concurrent indexes, cheap alter table add nullable columns

# bidirectional compatibility

separation of state and connections

# 「 CONTINUOUS TESTING 」

**sentry**

travis-ci.org

test all the code

‘getsentry’

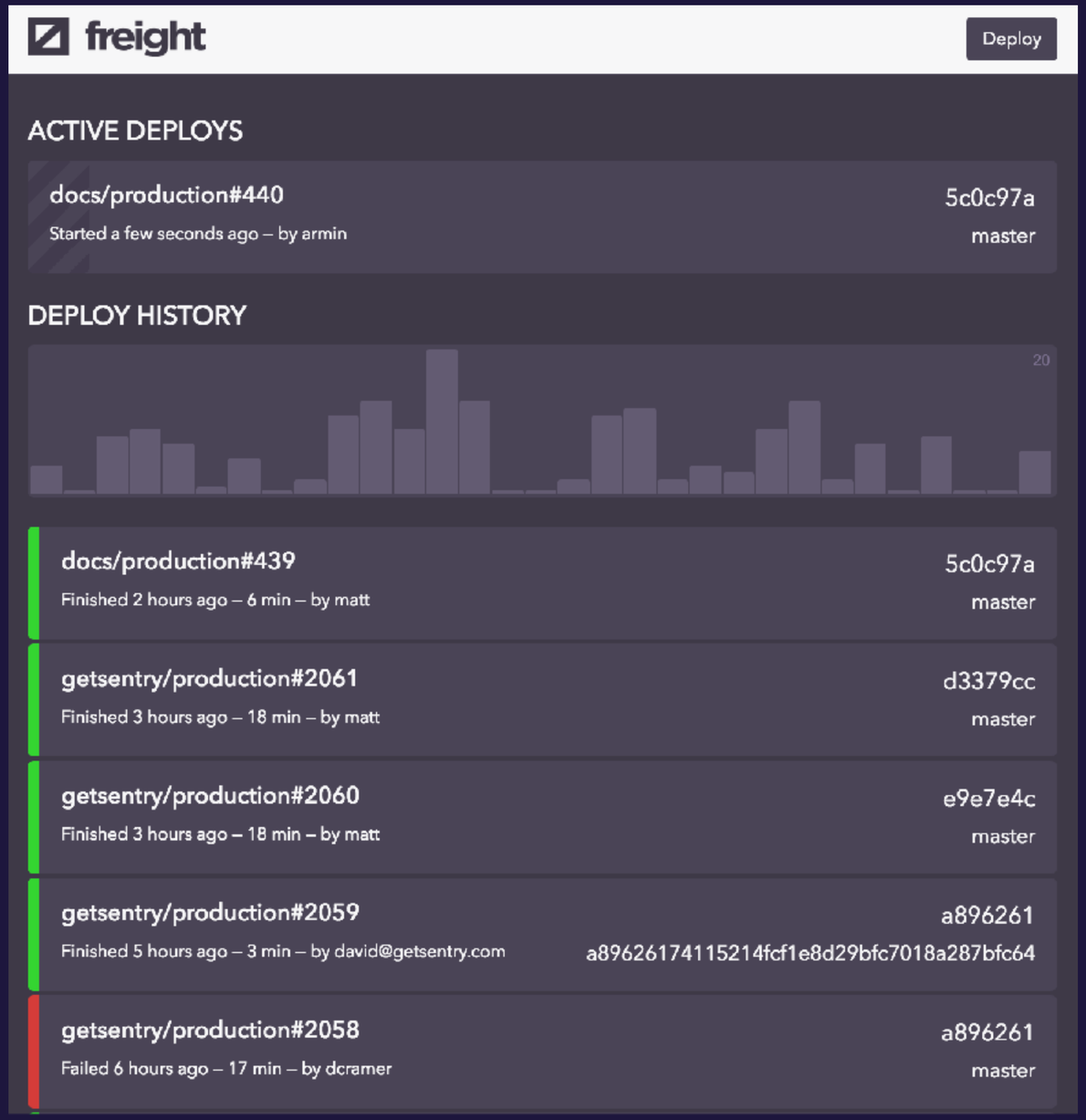
travis-ci.com

test code relevant for us

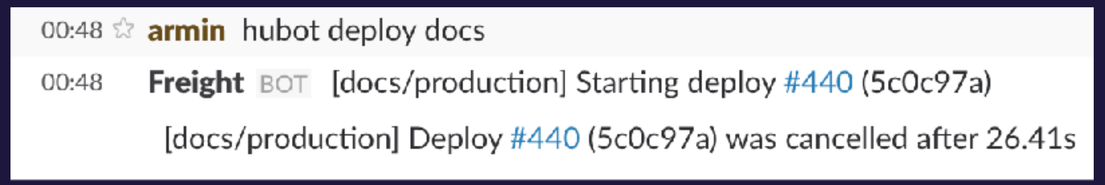
# 「 CONTINUOUS DELIVERY 」

# FREIGHT

wait for travis **>** build **>** ship




bidirectional
communication with
the main slack channel



**dev** never matches **prod** :(

thus: **fast rollbacks!**

(backwards + forwards compatibility)

# 「 CODE STRUCTURE 」

large systems are organisms

not all things will run the
same code at the same time

data schema ~ code behavior

break up larger features

# feature flag it!

(we shipped some code to on-prem we backed out)

# 「 REPO STRUCTURE 」

# move towards “monorepos”

(but within what is possible with our tools)

*{not as mono as we would like}*

# 「 MOVING PARTS 」

keep **dev** basic: fewer parts

do not diverge **dev** from **prod**
too much

virtual machines and docker are not an acceptable dev environment

# 「 REPRODUCIBLE BUILDS 」

pip freeze / yarn

nothing is more frustrating than a failed deploy because a dependency of a dependency of a dependency of a dependency pushed out a broken release

build once **>** ship to many

# 「 BINARY DEPS 」

# OS X & “manylinux”

# C/C++/Rust Modules for Python

# Build in Docker on old CentOS

Debian / RHEL / Ubuntu

# 「 MONITOR FAILURES 」

associate failures to users

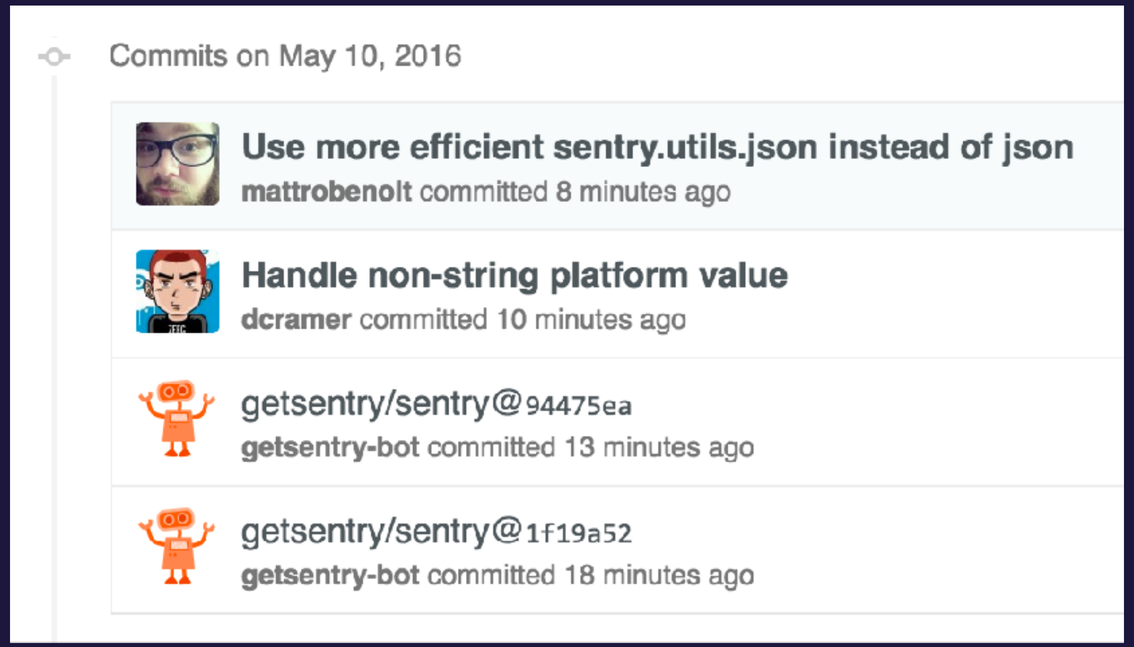
map support requests to failures

use sentry :-)

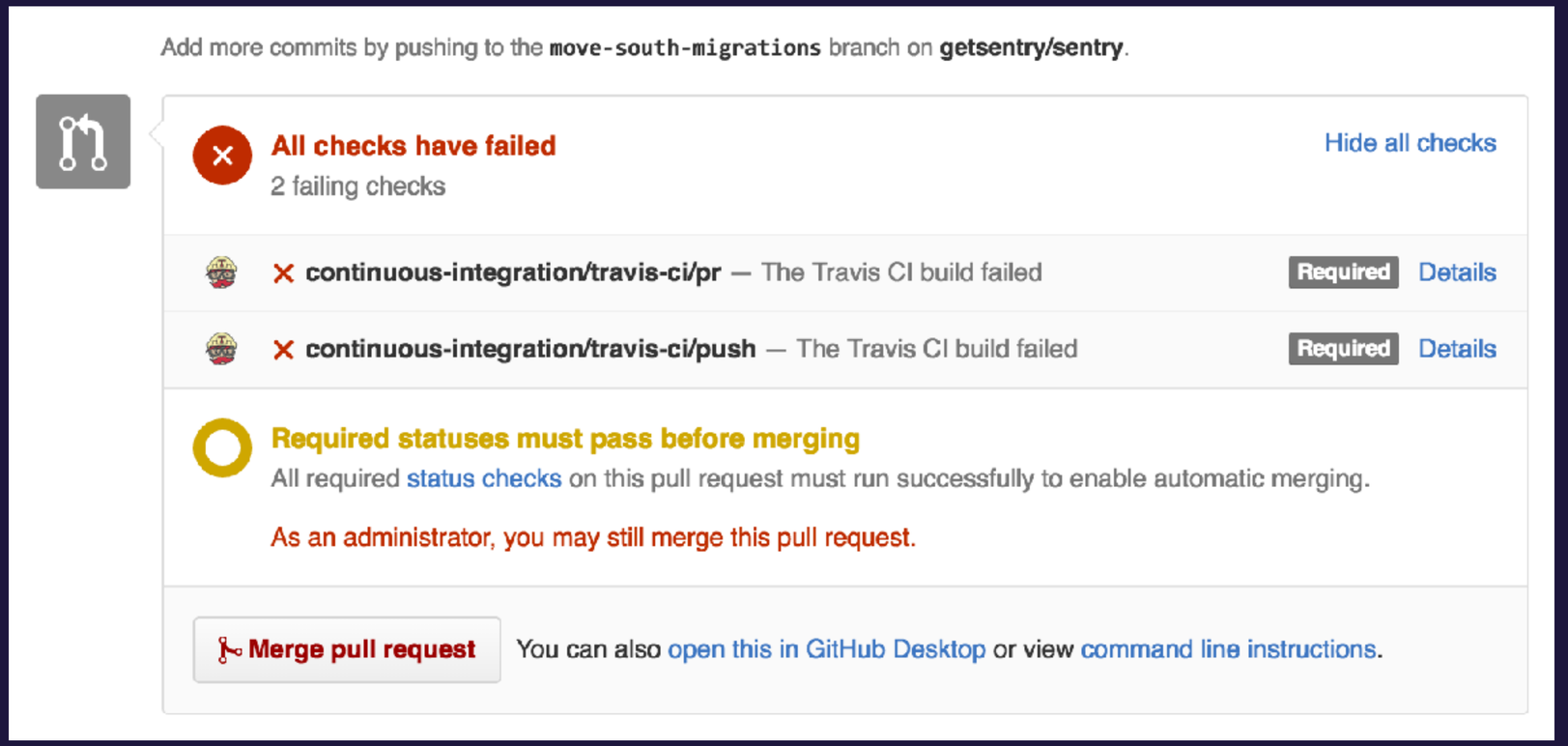
# 「 FRIENDLY ROBOTS 」

replace yourself!

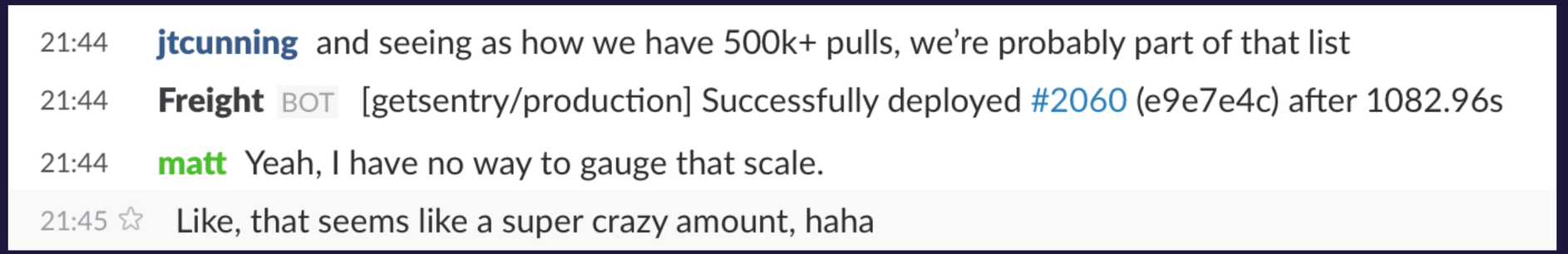
# bots and webhooks



# github hooks



# notify to communication hub



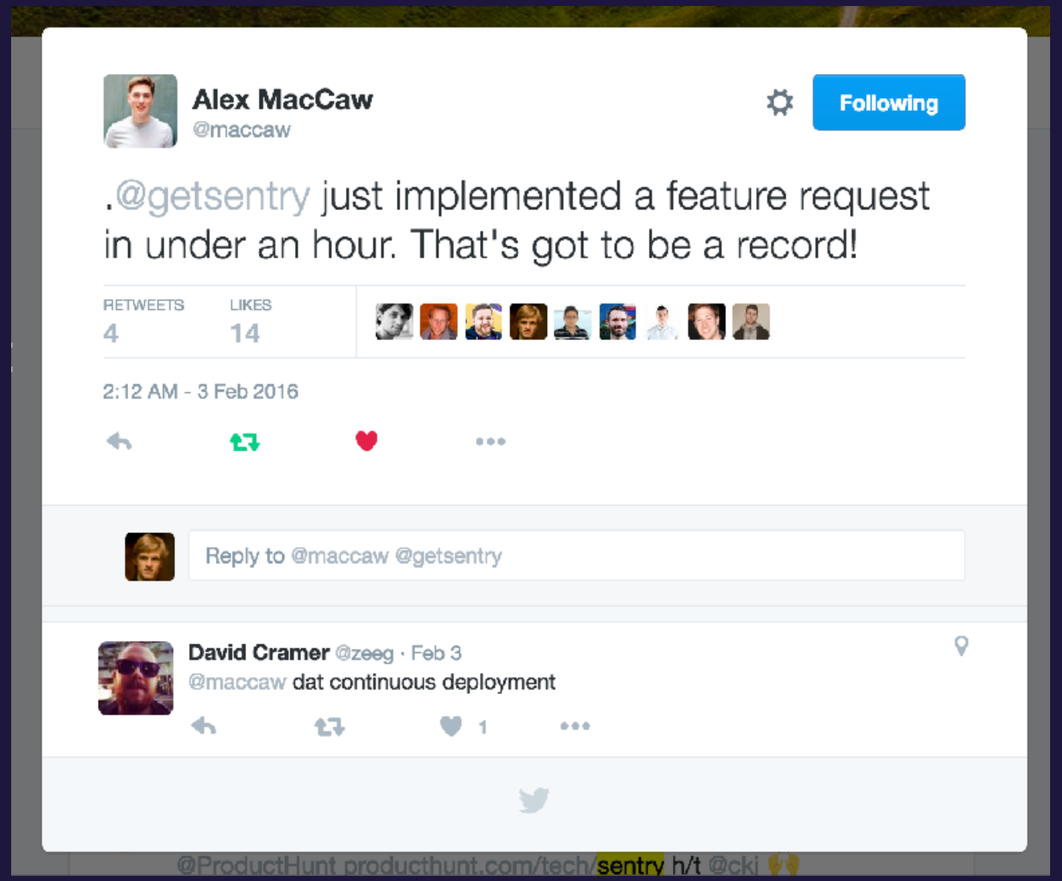
# testing danger.systems

# 「 BETTER CLIMATE 」

the more robots,
the better the integration,
the smaller the fear of doing damage

If you can launch a feature on your first day of work that's motivating

# also: happy customers



Q&A

*reach out to me!*
*I want to talk :)*