



Shipping Sentry

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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.io

TypeError react/lib/ReactCompositeComponent in updateComponent

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

ASSIGNED



EVENTS

8

USERS

6

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Event **97e62eee2b2d4506b4e7ea955054042b**

May 9 2016 21:39:57 CEST | [JSON \(60.5 KB\)](#)

[K](#) [Older](#) [Newer](#) [>](#)

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](#)

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

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)

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

to

/organizations/make-me-up-co/teams/

from

/make-me-up-co/

21:39:51



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

to

/make-me-up-co/

from

/organizations/make-me-up-co/teams/

21:39:56



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
```

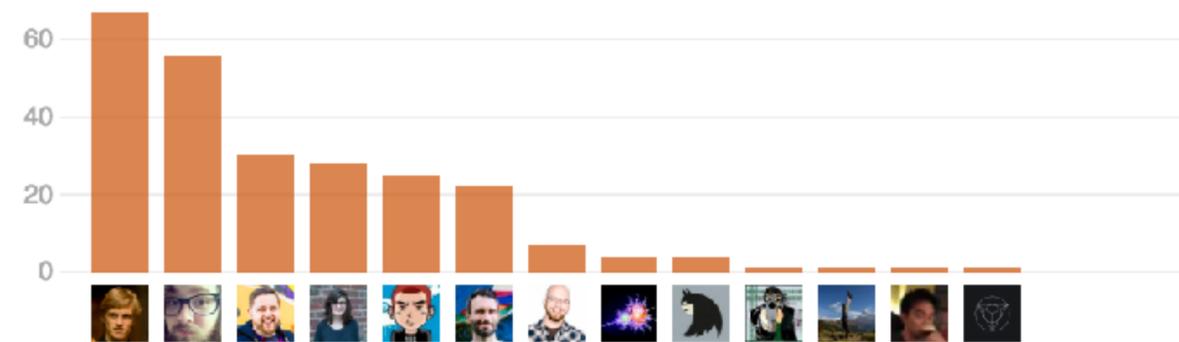
On Prem: 1 Release / Month

Hosted: 5 Deployments / Day

Overview

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

fix letter avatars in email #3059

Merged macqueen merged 2 commits into `master` from `fix-email-avatars` 22 days ago

Conversation 2 Commits 2 Files changed 7



macqueen commented 22 days ago

Sentry member



@getsentry/ui

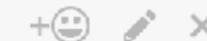
fix letter avatars in email

dfde8bc



mattrobenolt commented 22 days ago

Sentry member



It'd be worthwhile to probably add some tests for this template tag next. I wouldn't hold up this fix for it though.

Question: if it's simple to use HTML, is there a reason we want to use SVG elsewhere and not just use HTML all the time?

Fix the listing issue and it looks good to me.

add tests for html version of letter avatar

3898b7c

!! 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

ACTIVE DEPLOYS

docs/production#440 5c0c97a
Started a few seconds ago – by armin master

DEPLOY HISTORY



docs/production#439 5c0c97a
Finished 2 hours ago – 6 min – by matt master

getsentry/production#2061 d3379cc
Finished 3 hours ago – 18 min – by matt master

getsentry/production#2060 e9e7e4c
Finished 3 hours ago – 18 min – by matt master

getsentry/production#2059 a896261
Finished 5 hours ago – 3 min – by david@getsentry.com a89626174115214fcf1e8d29bfc7018a287bfc64

getsentry/production#2058 a896261
Failed 6 hours ago – 17 min – by dcramer master

bidirectional
communication with
the main slack channel

```
00:48 ☆ armin hubot deploy docs
00:48 Freight BOT [docs/production] Starting deploy #440 (5c0c97a)
[docs/production] Deploy #440 (5c0c97a) was cancelled after 26.41s
```

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

🔗 Commits on May 10, 2016



Use more efficient `sentry.utils.json` instead of `json`

mattrobenolt committed 8 minutes ago



Handle non-string platform value

dcramer committed 10 minutes ago



getsentry/sentry@94475ea

getsentry-bot committed 13 minutes ago



getsentry/sentry@1f19a52

getsentry-bot committed 18 minutes ago

github hooks

Add more commits by pushing to the `move-south-migrations` branch on `getsentry/sentry`.



All checks have failed

2 failing checks

[Hide all checks](#)



× `continuous-integration/travis-ci/pr` — The Travis CI build failed

Required

[Details](#)



× `continuous-integration/travis-ci/push` — The Travis CI build failed

Required

[Details](#)



Required statuses must pass before merging

All required [status checks](#) on this pull request must run successfully to enable automatic merging.

As an administrator, you may still merge this pull request.



Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

notify to communication hub

21:44 **jtcunning** and seeing as how we have 500k+ pulls, we're probably part of that list

21:44 **Freight** BOT [getsentry/production] Successfully deployed [#2060](#) (e9e7e4c) after 1082.96s

21:44 **matt** Yeah, I have no way to gauge that scale.

21:45 ☆ Like, that seems like a super crazy amount, haha

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

Philipp Krenn @xeraa Following

.@getsentry is a great tool to keep your sanity and is very responsive
bug report to fix within 3h on friday night:
[github.com/getsentry/sent...](https://github.com/getsentry/sentry)

LIKES 4

8:51 PM - 13 Nov 2015

Reply to @xeraa @getsentry

Alex MacCaw @maccaw Following

.@getsentry just implemented a feature request in under an hour. That's got to be a record!

RETWEETS 4 LIKES 14

2:12 AM - 3 Feb 2016

Reply to @maccaw @getsentry

David Cramer @zeeg · Feb 3
@maccaw dat continuous deployment

@ProductHunt producthunt.com/tech/sentry h/t @ckj

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