NSLondon

May 2015

Honza Dvorsky
@czechboy0
honzadvorsky.com

0.

Welcome to NSLondon everyo

Send

everyo

everyone

everyone's





•

/

n n

m



123



EŅ CS



?!,

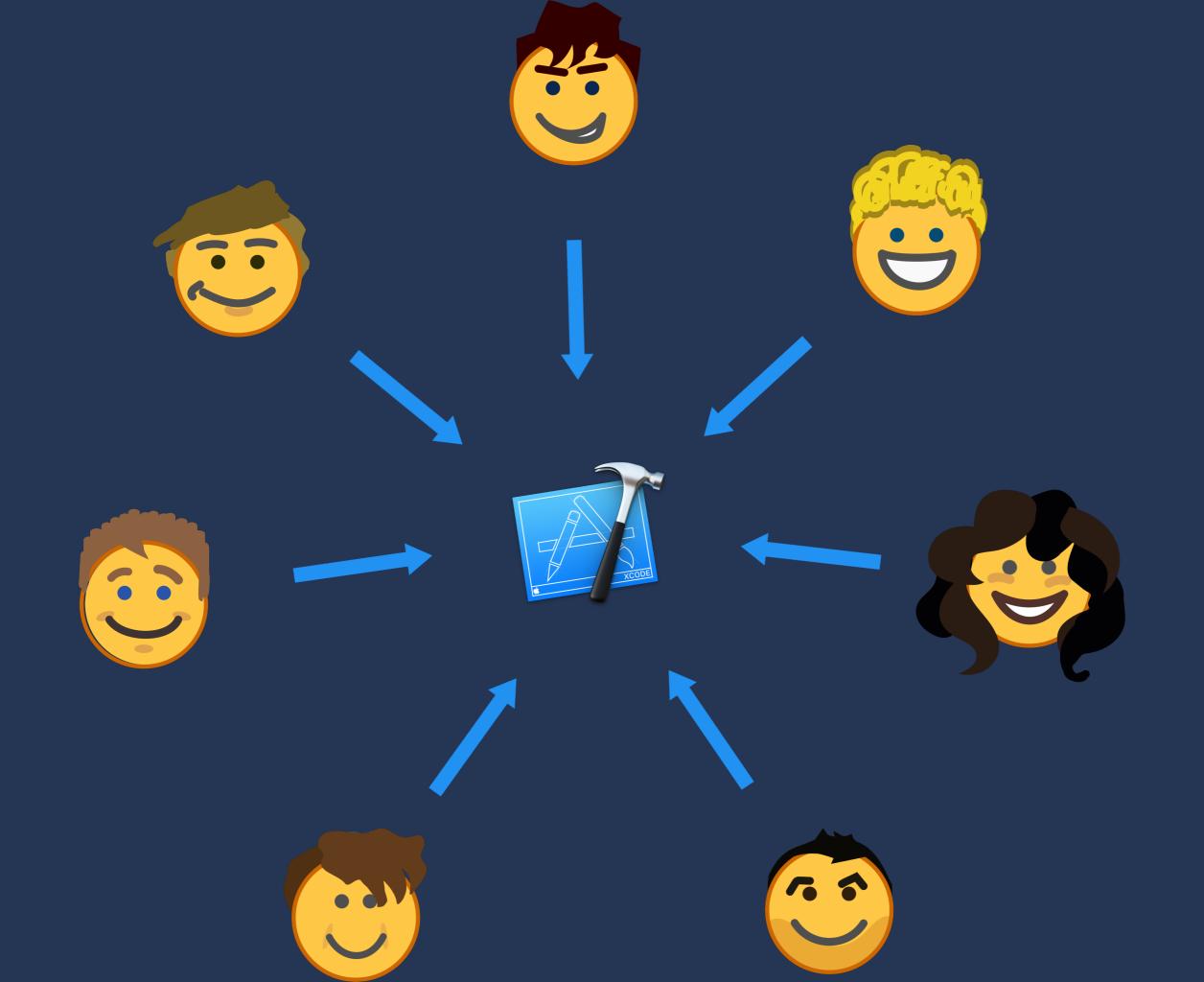


***** 9:41 AM 100% Cancel Miss you already Send To: Stefan Schuch Cc/Bcc: Subject: Miss you already Paul and I can't believe the week went by so quickly apply

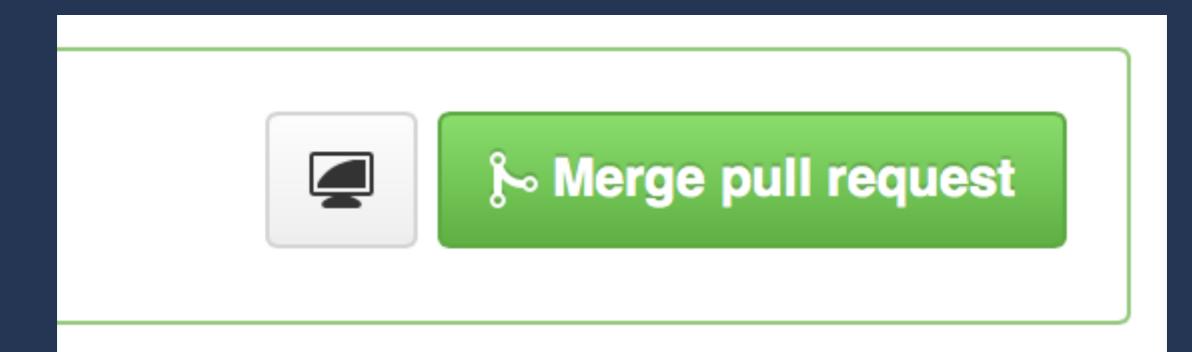
Keyboards



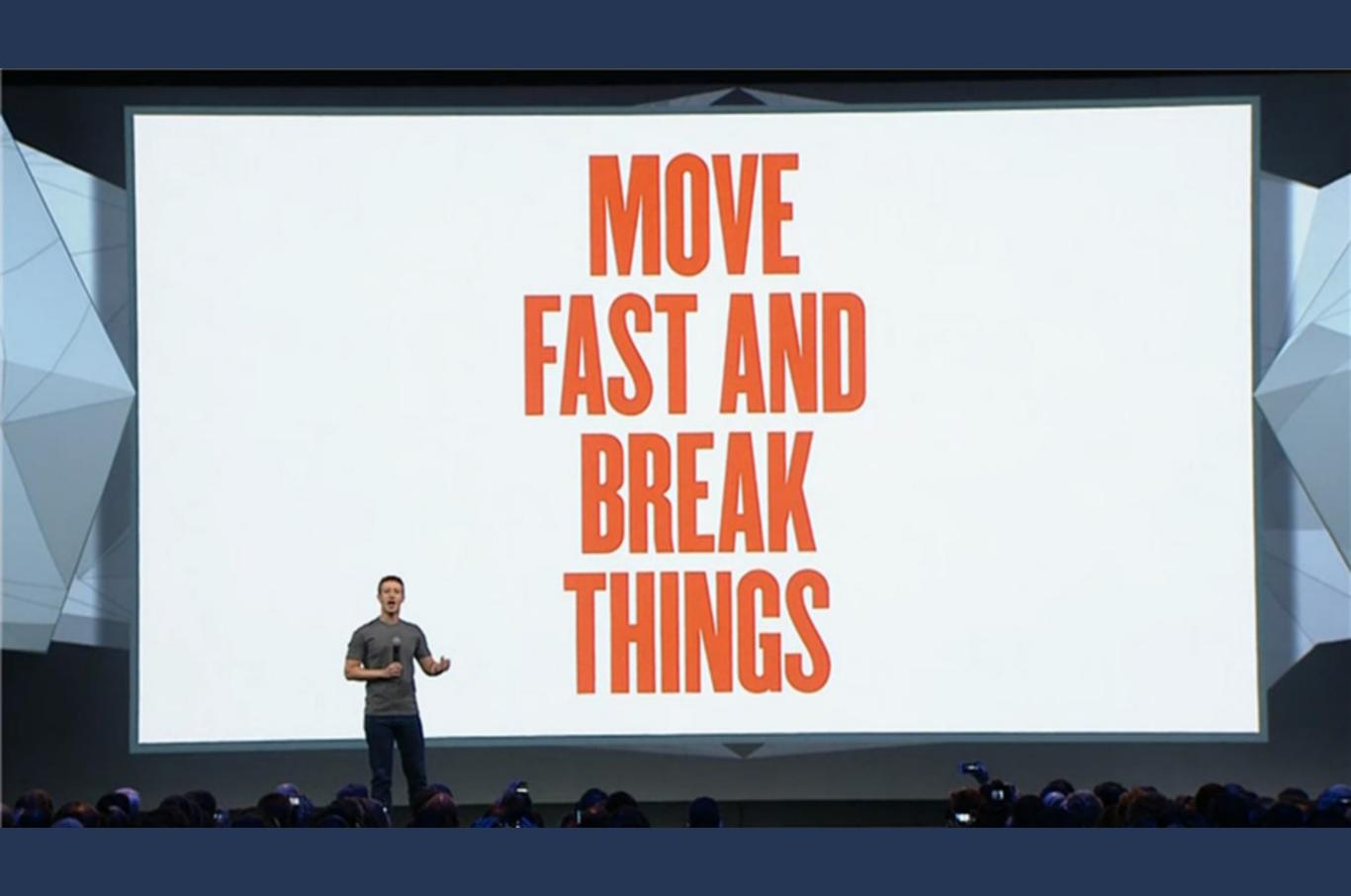












Continuous Integration on the Edge

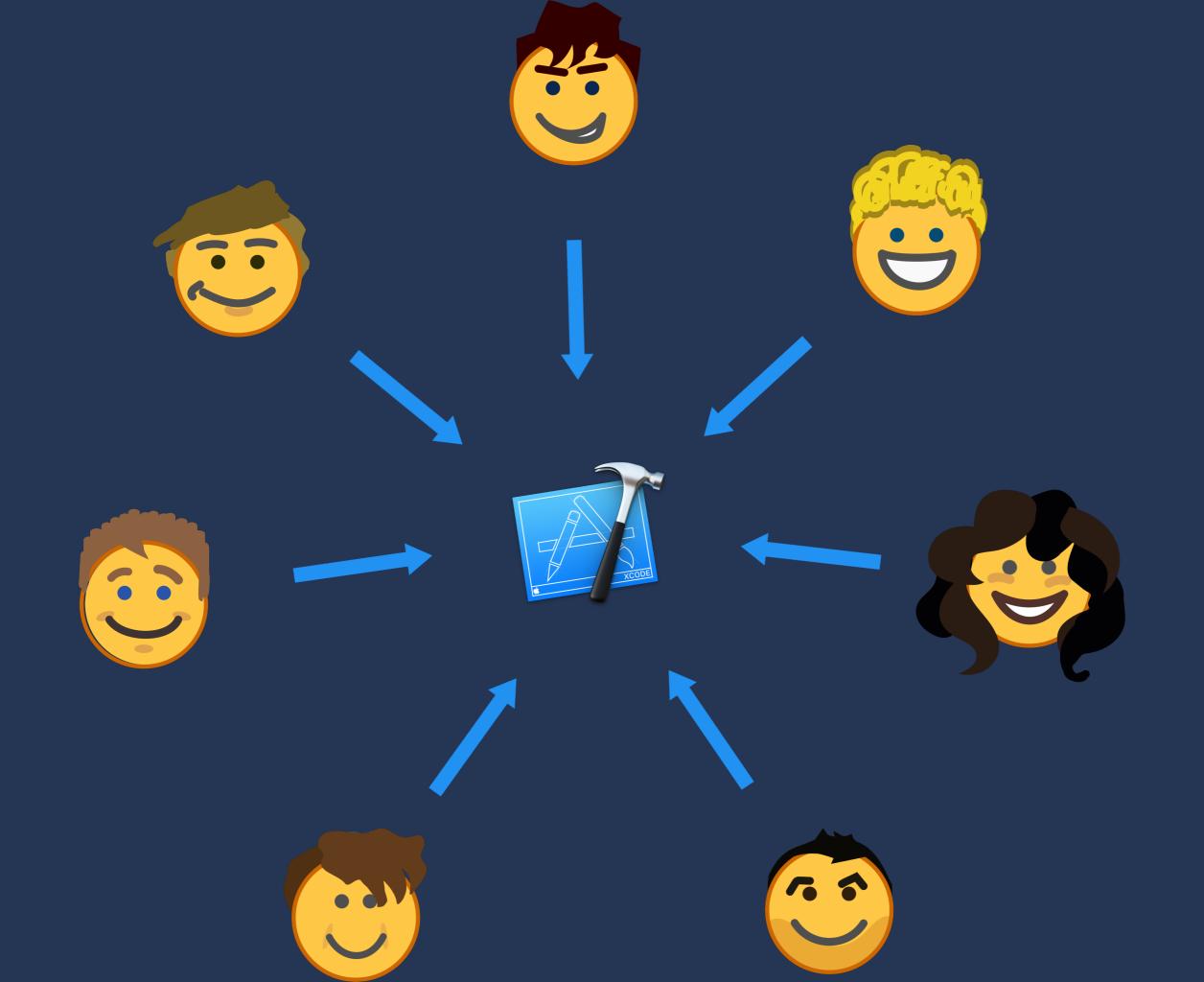
Mata

... a practice of merging all developer working copies with a shared mainline several times a day.

- Wikipedia.org

... prevent integration problems, referred to as "integration

- Wikipedia.org





Continuous Integration is a practice of knowing what you're merging, and merging it often.



Alex voice for accessibility Braille Keyboard for direct 6-dot braille input

Private browsing per tab in Safari

iBooks built into iOS

Vector maps in China

Flyover city tours

New definition dictionaries for Russian, Brazilian Portuguese, Thai, and Turkish Hindi localization

Separate focus and exposure in Camera

RSS feeds in Shared Links

Improved zoom for accessibility

In Case of Emergency card

Place cards in other apps

Time limits and countdown timer for Guided Access

Latest Xcode 6 & iOS 8 Beta

- Extensions support
- Swift support
- new beta every 2 weeks











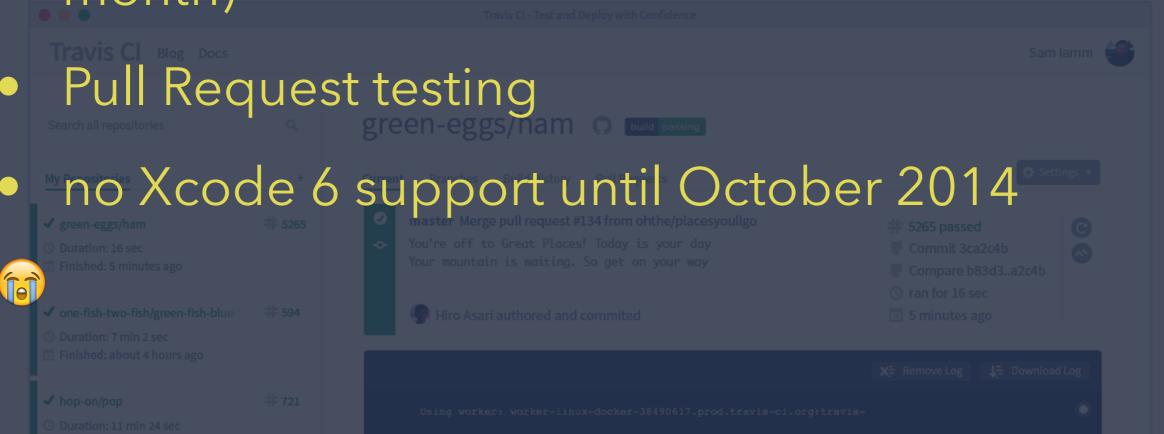




Blog Status Help C The state of the state

Easily sync your GitHub projects with Travis CI and you'll be testing your code in minutes!

 free for public repos (private from \$129/ month)





- limited free plan for private repos
- Pull request testing

You have a product to focus on, let CircleCl handle your

Xcode support still in beta



Sign Up Free

Register P State Regist

- limited free plan for private repos
- Pull request testing your daily development tasks.
- built for iOS developers

GET STARTED

no Xcode 6 support until September 15, 2014





Jenkins User Conference 2015

Don't miss out on the latest from the Jenkins Communit

free, self-hosted

U.S. East - June 18-19

U.S. West – September 2–3

Early Bird Ends May 15th - REGISTER NOW

Download Jenkins

Pull Request testing with a plugin Archive (war)

Find out what Jenkins is and get started.

complex setup

ex setup

• no Xcode 6 support until December 2014





Customize Jenkins

Choose from 1009 plugins to customize Jenkins exactly to your needs.

upgrad

Or native package

Red Hat/Fedora/CentOS



Mac OS X



penSUSE



reeBSD



- free with limits
- ~supports Pull Request testing with a plugin requiring you to modify your git repo
- complex to setup
- no Xcode 6 support mentioned in the documentation at all is better for you.

Enjoy all-around customer support

Extend as you go

Whenever you need special additional functionality, choose





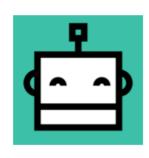




















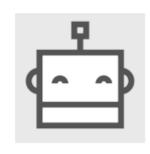


















Xcode Server





eveloper Technologies

Resources

Programs

Support

Member Center

Q Search Developer

iOS Dev Center

iOS Dev Center

Mac Dev Center

Safari Dev Center

Hi, Honza Dvorsky

My Profile

Sign out

0

ios 8.3 sdk

iOS 8.4 beta 2

Resources for iOS 8



Downloads

Download the latest build of iOS SDK



iOS Developer Library

- Getting Started
- Sample Code
- Guides
- Technical Notes
- Reference
- Technical Q&As
- Release Notes



Development Videos

• iOS Development • WWDC Videos



iAd JS Developer Library

Get technical documentation on developing with iAd JS.



Apple Developer Forums

Discuss iOS development with other developers and Apple engineers.

Featured Content

- iOS 8 for Developers
- What's New in iOS
- Adaptive User Interfaces
- App Extensions
- Apple Pay
- CloudKit
- Handoff
- **HealthKit**
- HomeKit
- 64-Bit Transition Guide

iOS Developer Program

Certificates, Identifiers & Profiles

Apple Developer Forums

App Store Resource Center

Prepare for App Submission

App Store Approval Process

Managing Apps

Marketing Resources

News and Updates

Stay up-to-date with the latest
Apple developer news and updates.
Learn more

App Distribution Guide

Downloads



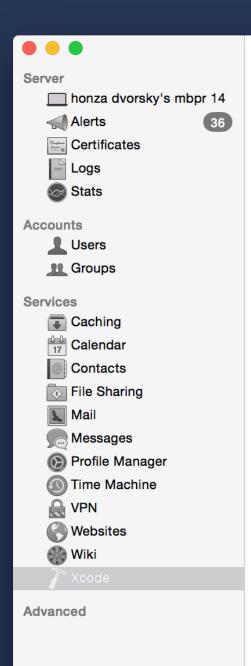
OS X Server 4.1

This is the release version of OS X Server 4.1 for OS X Yosemite systems.

Download

Posted Date: Apr 8, 2015

Build: 14S1092









Choose Xcode to begin

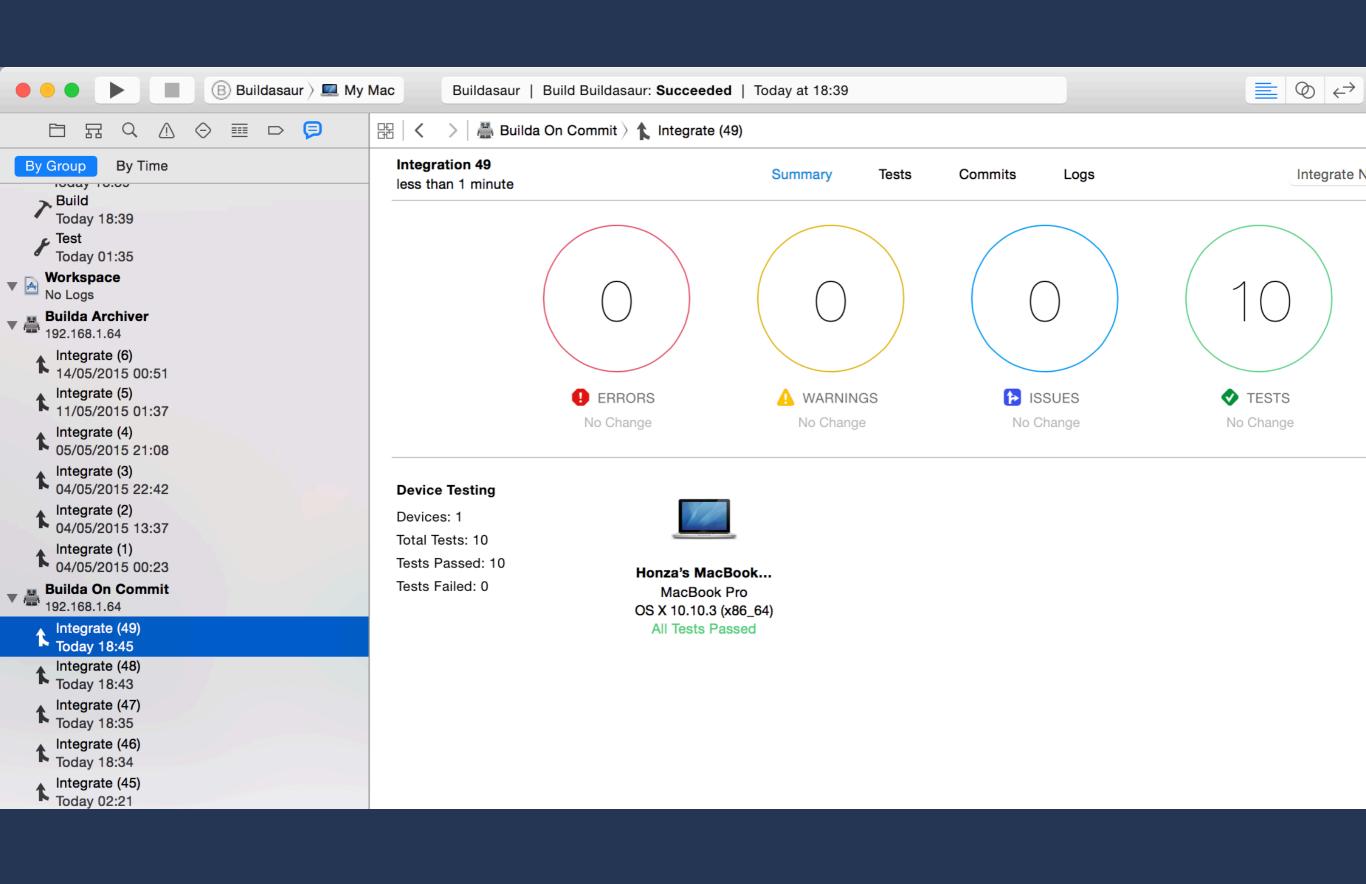
Streamline Mac and iOS app development with Xcode Server.

Download Xcode from the Mac App Store ❖

Choose Xcode...

Features

- scheduled, on commit builds
- analyze -> test -> archive workflow
- testing on iOS devices
- OTA app installation
- pre/post run triggers for custom scripts, email notifications

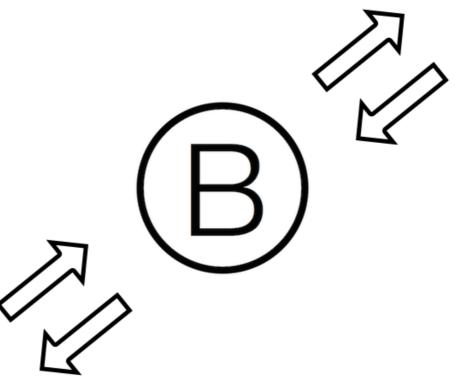






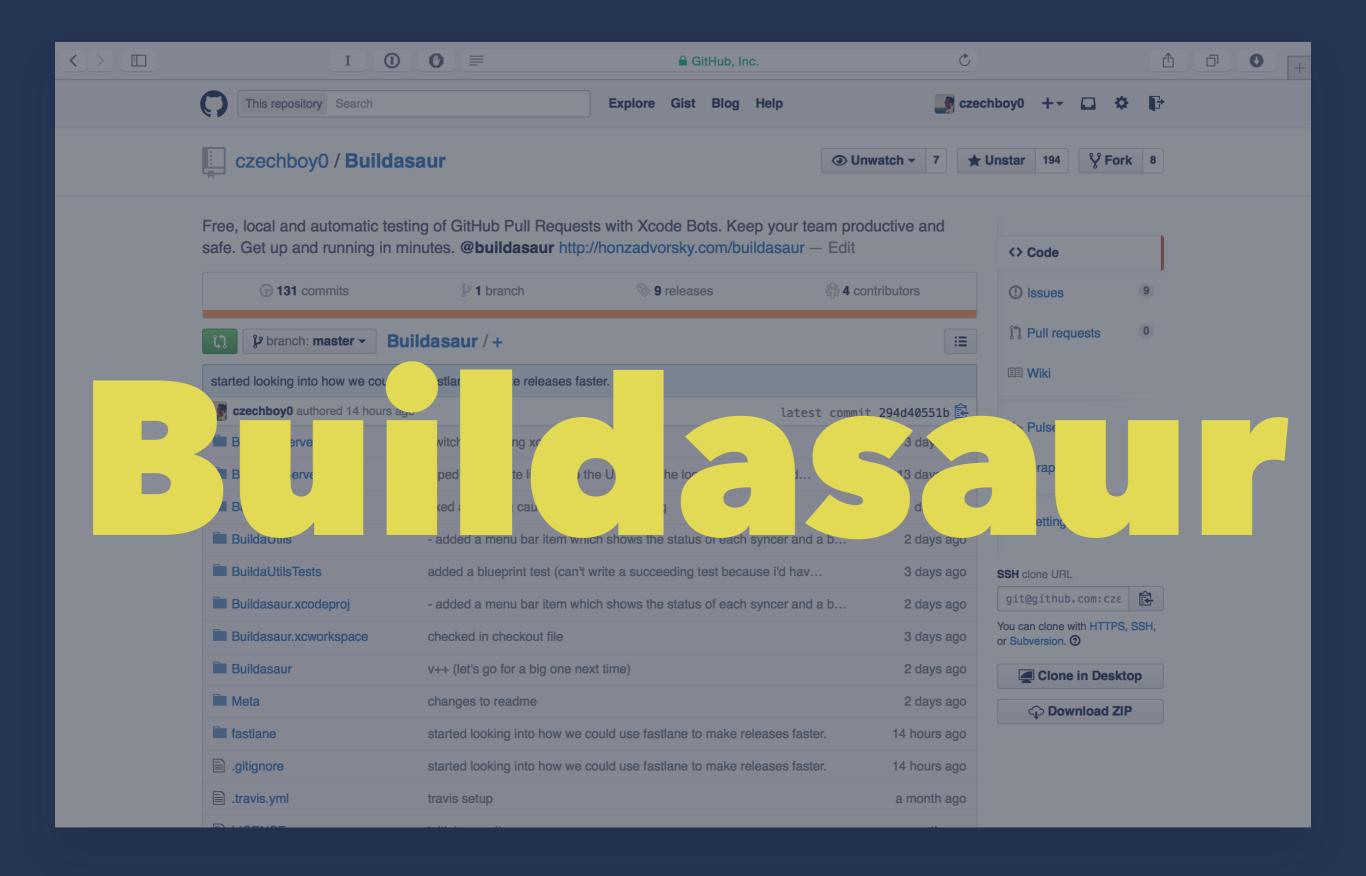








Xcode Server



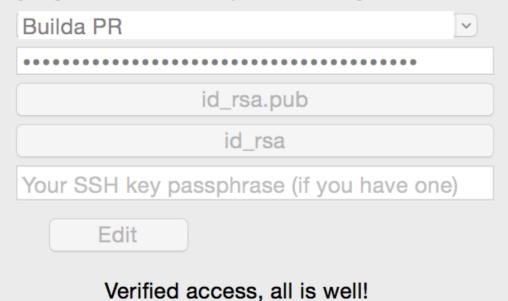
Buildasaur

- Mac app
- connects GitHub Pull Requests with Xcode Server
- open source on GitHub: czechboy0/ Buildasaur
- Swift 1.2

Buildasaur

/Users/honzadvorsky/Documents/Buildasaur/ Buildasaur.xcworkspace

git@github.com:czechboy0/Buildasaur.git



Xcode Server Configuration

https://127.0.0.1
testadmin

You need to add your Xcode Server credentials here.

Edit

Last successful sync at 2015-05-16 17:32:36 +0000

GitHub Rate Limit: count: 85/5000, renews in 2389 seconds,

Syncer is Idle... Waiting for the next sync...

Verified access, all is well!

Manual Bot Management

Stop

Wait for "Ittm"

? Post Status Comments 🗸

Sync interval [s] 15

rate: 0.07/1.38, using 5.05% of the allowed request rate. All Pull Requests: 0

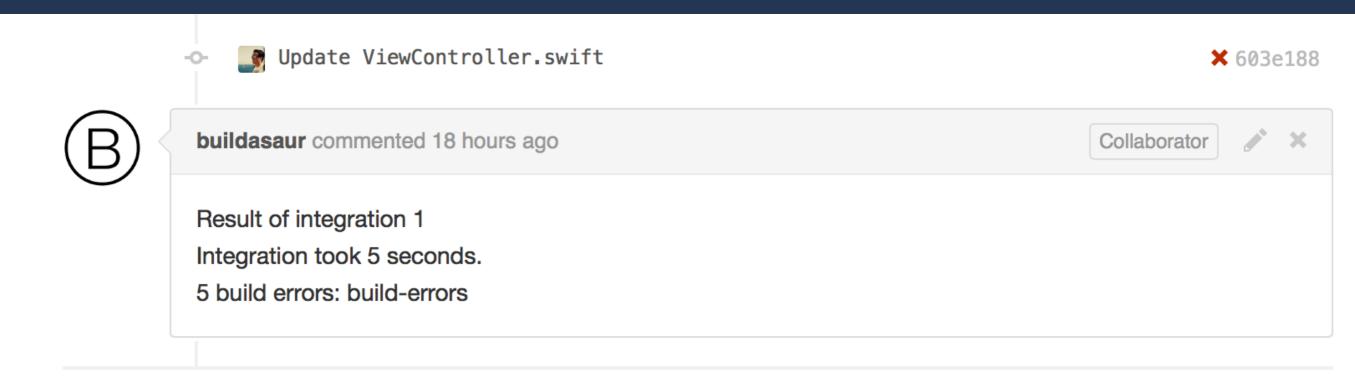
All Bots: 0

Building Buildasaur

- Swift 1.2
- Xcode 6.3



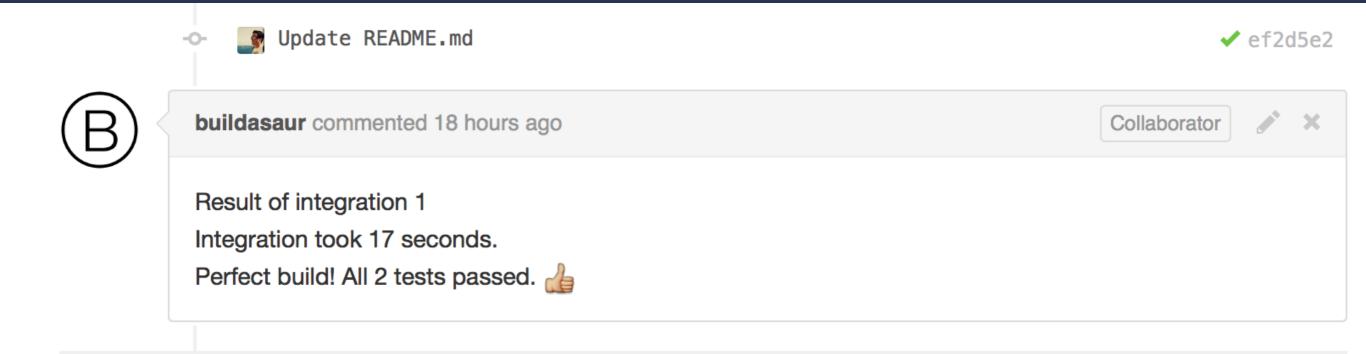




Add more commits by pushing to the czechboy0-patch-4 branch on czechboy0/Buildasaur-Tester.



★ Error — Buildasaur: Build error!
Merge with caution!
You can also merge branches on the command line.
★ Merge pull request



Add more commits by pushing to the czechboy0-patch-3 branch on czechboy0/Buildasaur-Tester.



✓ All is well — Buildasaur: Build passed!

This pull request can be automatically merged.

You can also merge branches on the command line.

Merge pull request



List pull requests

GET /repos/:owner/:repo/pulls

Parameters

Name	Туре	Description
state	string	Either open, closed, or all to filter by state. Default: open
head	string	Filter pulls by head user and branch name in the format of user:ref-name. Example: github:new-script-format.
base	string	Filter pulls by base branch name. Example: gh-pages.
sort	S [†]	that ort is by the created, update pularity complete the complete pularity get in put in the complete pularity la port efau
direction	sti	when sort is created or sort is not specified, otherwise asc.

Response

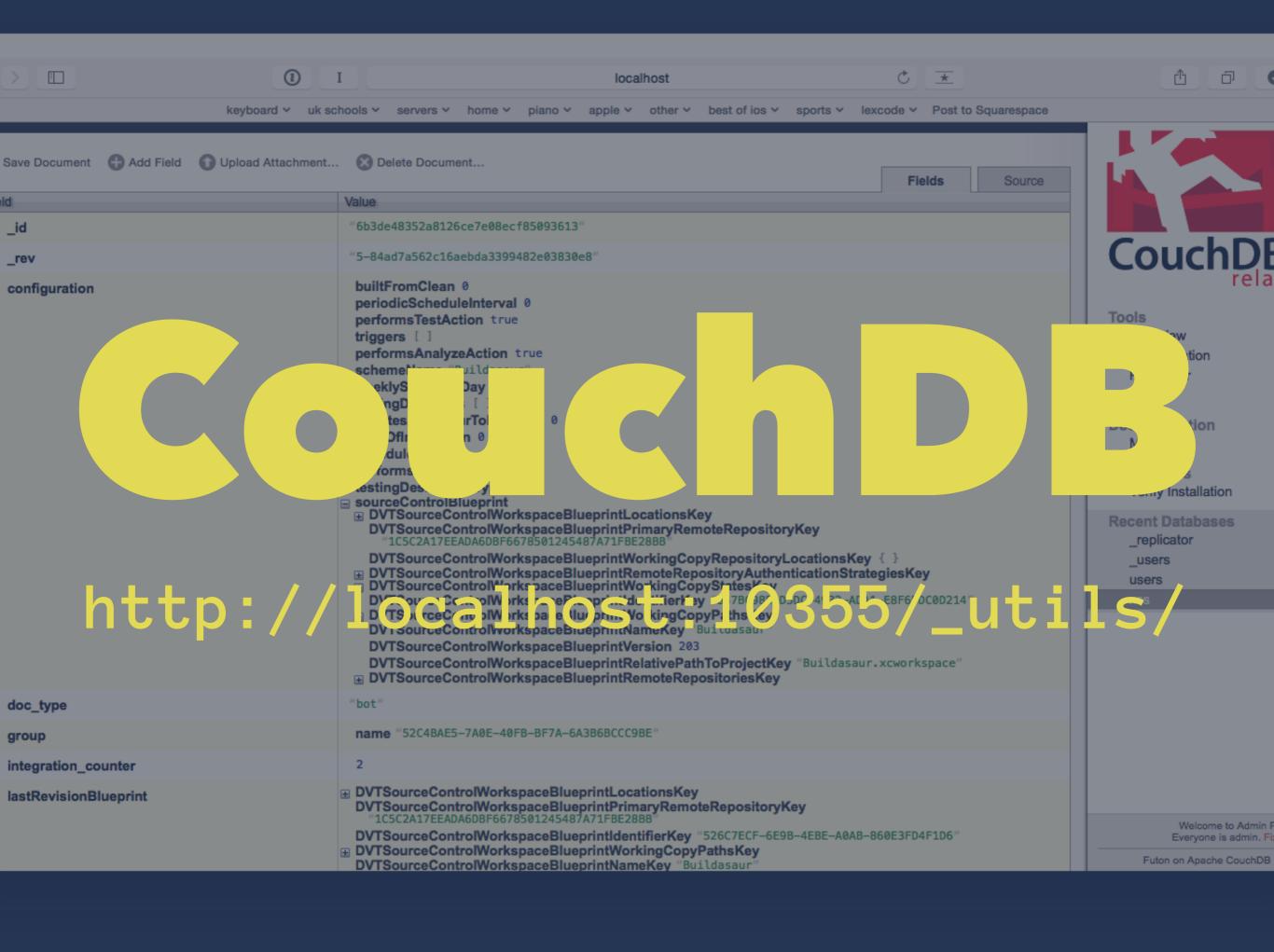
Xcode Server API

routes.js routes.js app.del(k.XCSAPIBasePath + '/unittests', prepareRequest, db_core.removeUnitTestDocs); app.get(k.XCSAPIBasePath + '/unittests/cleanup', xcsutil.unitTestCleanup); app.get(k.XCSAPIBasePath + '/ping', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, xcsutil.ping); app.get(k.XCSAPIBasePath + '/hostname', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, xcsutil.hostname); app.get(k.XCSAPIBasePath + '/health', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, health.status.bind(healt '/is_compaction_active', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, database.i app.get(k.XCSAPIBasePath + app.get(k.XCSAPIBasePath + '/fragmentation_index', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, database.fr app.post(k.XCSAPIBasePath + '/compact', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, database.compact.bind(app.post(k.XCSAPIBasePath '/auth/login', prepareRequest, auth.verifyIfServiceIsEnabledAllo ficate, auth.login); reRequest, auth.verifyIfServiceIsEnab /Certificate, auth.force_lo k.XCSAPIBasePath '/auth/force_login' k.XCSAPIBasePath '/auth/logout', pre uest, auth.verifyIfServiceIsEnabledAl ificate, auth.logout); '/auth/islogged', pr quest, auth.verifyIfServiceIsEnabledAl ertificate, auth.isLogged); .XCSAPIBasePath + rifyIfServiceIsEnab XCSAPIB /auth/isBo h.isBotCre reReques vCertif ServiceIsEnable h.enforceBot yIfServiceIsEna h.enforce owCe i reatorRol ServiceIsEnab Cert auth en erti ewerRole, Enab aut XCSAP eIsE lowC BotViewerR /bots/:id , preparekequest, auth.vo. app.paccn(k.XCSAPlbe ___serviceIsEncedAllo mrorceBotCreat app.del(k.XCSAPIBasePath '/bots/:id/:rev', prepareRequest, auth.verifyIfServiceIsEnabl tificate, auth.enforceBotCr '/bots', prepareRequest, auth.verifyIfServiceIsEnabledAllowCe auth.enforceBotCreatorRole app.del(k.XCSAPIBasePath + '/bots/:id/stats', prepareRequest, auth.verifyIfServiceIsEnab Certificate, auth.enforceBotV app.get(k.XCSAPIBasePath 4 app.get(k.XCSAPIBasePath + '/users/:name/canCreateRepositories', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificat '/users/:name/canViewBots', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, user.ca app.get(k.XCSAPIBasePath + '/users/:name/canCreateBots', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, user. app.get(k.XCSAPIBasePath + app.get(k.XCSAPIBasePath + '/users/canAnyoneCreateRepositories', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificat '/users/canAnyoneViewBots', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, user.ca app.get(k.XCSAPIBasePath + '/users/canAnyoneCreateBots', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, user. app.get(k.XCSAPIBasePath + app.post(k.XCSAPIBasePath + '/bots/:id/integrations', prepareRequest, auth.verifyIfServiceIsEnabledAllowCertificate, auth.enf

N FILES

1, Column 1 Tab Size: 4 JavaSci

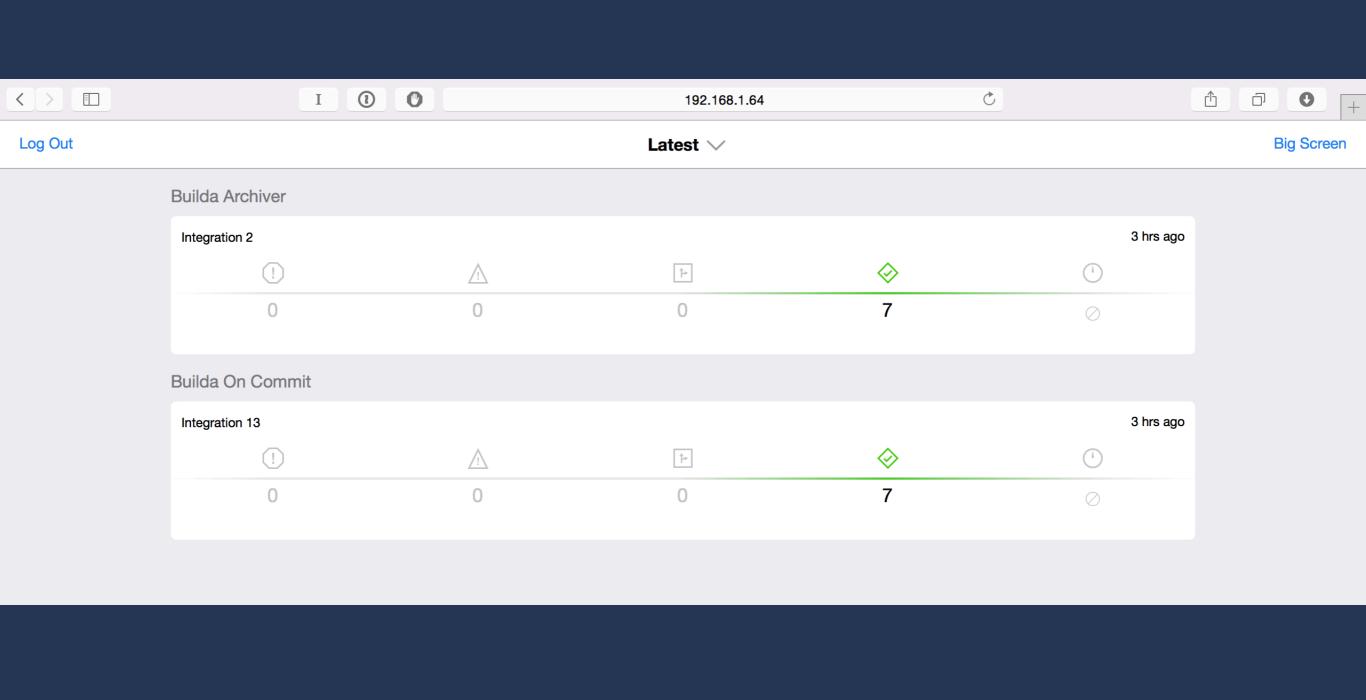
/Applications/ Xcode.app/ Contents/ Developer/usr/ share/xcs/xcsd/ routes/routes.js



- 127.0.0.1:10356> keys "17088d938eecc27142059b600c007900" "session:nnUrulgsrVZjgCPD5E07h9pD" ion:tKMW7bhq0k3
 - 8) "17088d938eecc27142059b600c009452"
- \$ redis-cli -p 10356
- 11) "hotpath:acls"

"settings

- 12) "hotpath:bots"
- 13) "17088d938aacc27142059h600c0067ha"









```
/Applications/
 Xcode, app/
 ° Contents/7
Developer/usr/
 share/xcs/
  xcswebui/
```



HONZA DVORSKY

Under the effort for a

of Xcode Server Under the Hood of Xcode Server

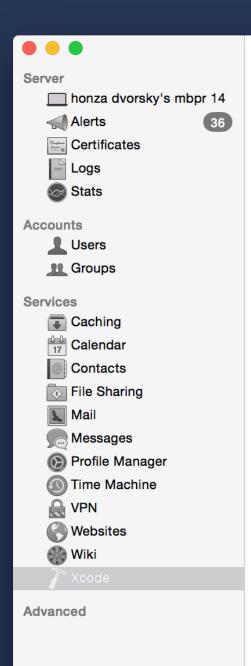
As part of building a project called
Buildasaur. I had a chance to explore the ins and out to be a combination of two of Apple's apps, OS X Server and Xcode. Together, they can provide a continuous integration server for your repository.

Back in 2013, when Xcode 5 was released, Apple referred to the system as "Xcode















Choose Xcode to begin

Streamline Mac and iOS app development with Xcode Server.

Download Xcode from the Mac App Store ❖

Choose Xcode...









O.

Welcome to NSLondon everyo

Send

everyo

everyone

everyone's

Come work at Swiftkey!



 $\mathbf{z} = \mathbf{x}$

 \mathbf{C}

V

b.

n

 \mathbf{m}



123



EŅ CS



?!



Thanams

Honza Dvorsky
@czechboy0
honzadvorsky.com

Links

<u>Under the Hood of Xcode Server</u> <u>honzadvorsky.com</u>

Continuous Integration - Wikipedia

Xcode Server Documentation

SwiftKey

Buildasaur

<u>Cl servers</u>

<u>Emojis</u>

iOS 8 Keynote - Keyboards iOS 8 Keynote