



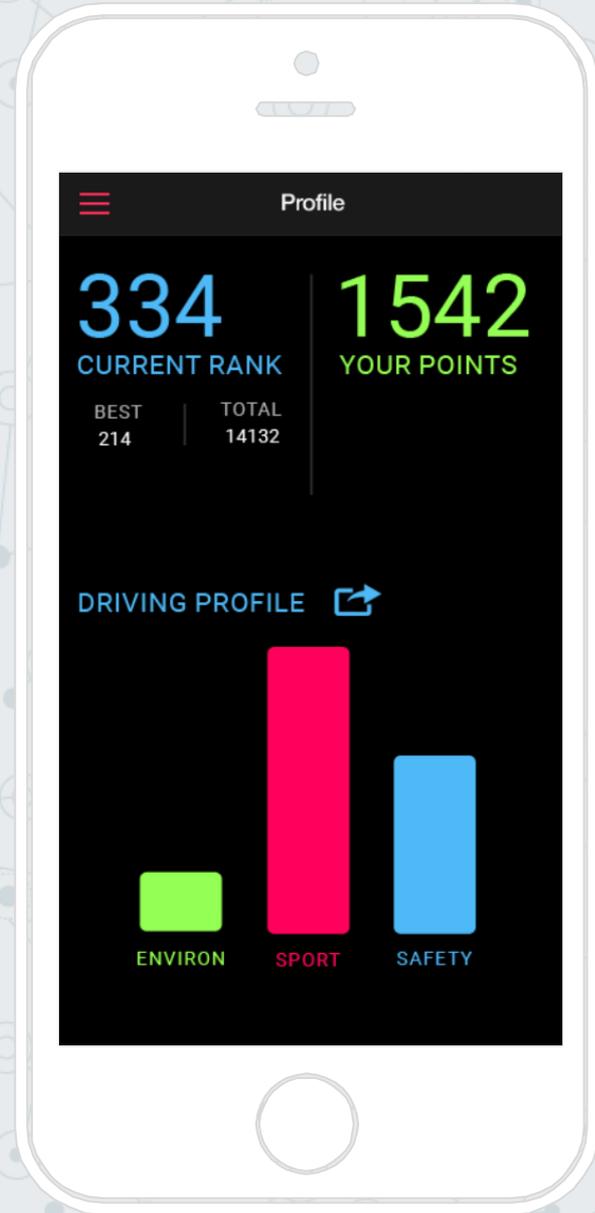
# Continuous Integration

for an iPhone App



## Projekt “badgeMe”

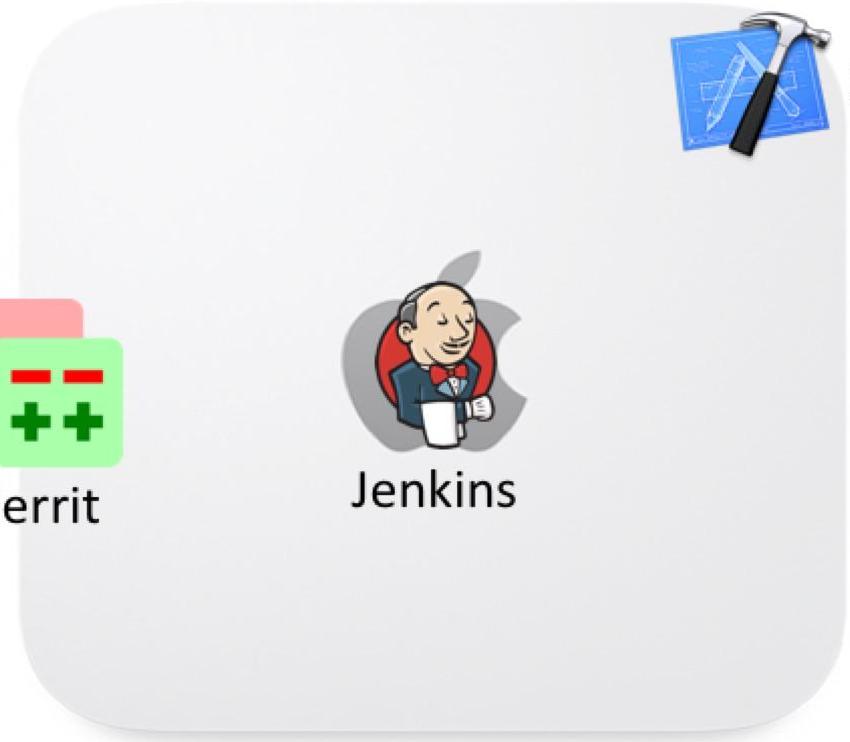
- ◎ iOS & Apple Watch Application
- ◎ Backend zur Aufbereitung der Auto-Daten
- ◎ Auswertung von Fahreigenschaften (z.B. Geschwindigkeit, zurückgelegte Strecke, Benzinverbrauch, ...)
- ◎ Gamification mit Badges
- ◎ Erstellen eines Profils mit echten Daten
- ◎ Verwendung bei Drittanbietern



**BadgeMe**

Apple Watch & iOS App

git replica 



A decorative network diagram in the top-left corner, consisting of various sized circles (nodes) connected by thin lines (edges). Some nodes are solid grey, while others are hollow with a grey outline. The connections form a complex, branching structure.

# Development Stage

A decorative network diagram in the bottom-right corner, similar to the one in the top-left, featuring a mix of solid and hollow nodes connected by lines, forming a network structure.

git replica 



Gerrit



Jenkins



Xcode

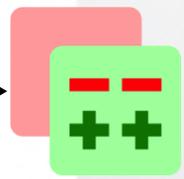


Slack

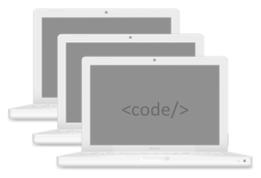
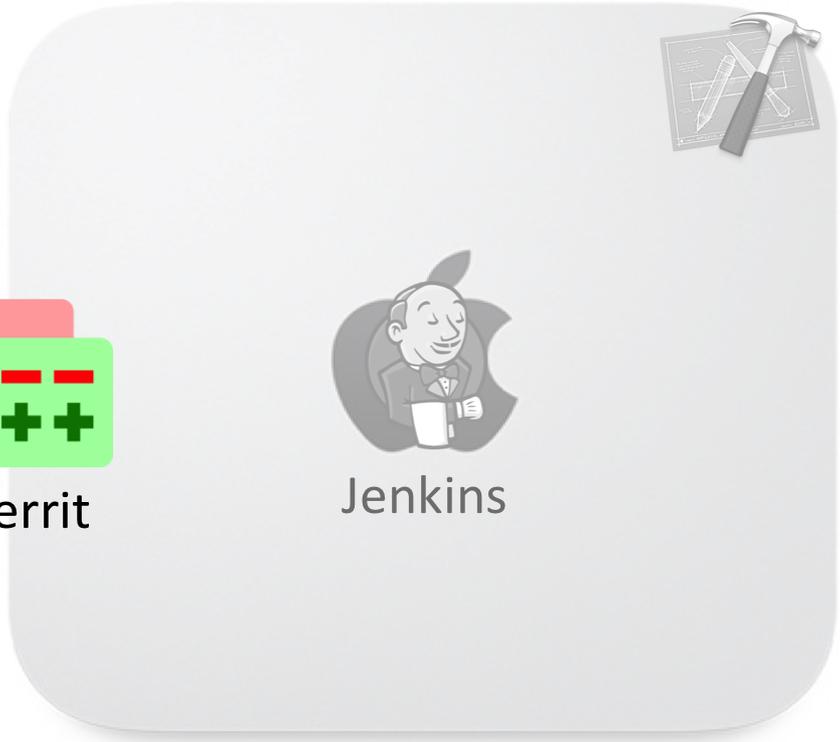
git replica 



git review dev →



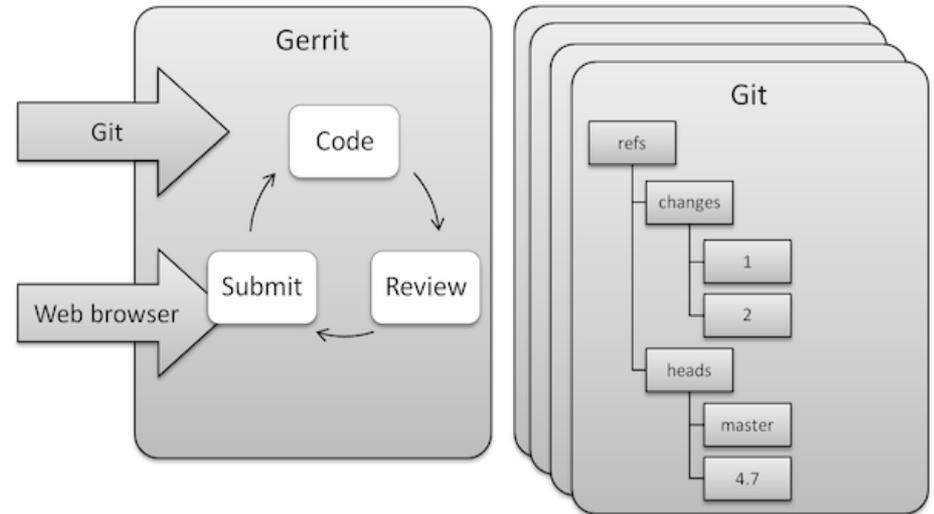
Gerrit



Slack

# Gerrit

- Webbasiertes Code-Reviewing
- Erstellt interne Git-Repositories
- Side-by-side Änderungsansicht
- Hinzufügen von Anmerkungen
- Code-Änderungen im Browser möglich
- Möglichkeit, neue Patchsets zu erstellen



RankingController.swift | m x

mrs.mmlab.mintern.mi.hdm-stuttgart.de:8081/#c/64/1/badgemo+WatchKit+Extension/InterfaceController/RankingController.swift

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badgemo-app / badgemo WatchKit Extension/InterfaceController/RankingController.swift Patch Set Base 1 Patch Set 1

```
similarity index 74%
rename from badgemo WatchKit Extension/RankingController.swift
rename to badgemo WatchKit Extension/InterfaceController/RankingController.swift
... skipped 3 common lines ...
4 //
5 // Created by Manuel Kalla on 09/06/15.
6 // Copyright © 2015 HdM. All rights reserved.
7 //
8
9 import Foundation
10 import WatchKit
11
12
13 class RankingController: WKInterfaceController {
14     @IBOutlet var rankingLabel: WKInterfaceLabel!
15     var rank: Int = 14
16     var maxRank: Int = 1324
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24 override func awakeWithContext(context: AnyObject?) {
25     super.awakeWithContext(context)
26     // Configure interface objects here.
27 }
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Browser address bar: [mrs.mmlab.mintern.mi.hdm-stuttgart.de:8081/#/c/147/](https://mrs.mmlab.mintern.mi.hdm-stuttgart.de:8081/#/c/147/)

Navigation: iPhoneblog ifun.de ComputerBase Apfeltalk Facebook Netflix Twitch SC2Casts HdM YouTube

Menu: **All** My Projects People Plugins Documentation

Search: Search term  Search Manuel Schwandt

---

**Change 147 - Needs Verified** Reply... Patch Sets (1/1) Download ☆

added Backend and Pushnotification test

Change-Id: I8d22255f4e5a750dac1832c26d1517f5c5609c54

**Owner** [Manuel Kalla](#)

**Reviewers** Add...

**Project** [badgeme-app](#)

**Branch** [dev\\_demo](#)

**Topic**

**Strategy** Merge if Necessary

**Uploaded** 2 seconds ago

Cherry Pick Rebase Abandon Follow-Up

---

**Code-Review**  
Verified

Author: [Manuel K <mkalla@gmx.net>](#) Jun 17, 2015 5:00 PM

Committer: [Manuel K <mkalla@gmx.net>](#) Jun 17, 2015 5:00 PM

Commit: 3b0738ddb75b2c765106035250e1b485f305f549

Parent(s): 1e536d44b0c72213a87f1aae1a9cf4088d2cd50a

Change-Id: I8d22255f4e5a750dac1832c26d1517f5c5609c54

---

**Files** Open All Diff against: **Base** Edit

File Path	Comments	Size
<input type="checkbox"/> Commit Message		
<input type="checkbox"/> badgemeTests/badgemeTests.swift	14	
	+13, -1	

---

**History** Expand All

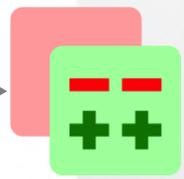
Manuel Kalla Uploaded patch set 1. 5:00 PM

Powered by [Gerrit Code Review \(2.11\)](#) | Press '?' to view keyboard shortcuts

git replica 



git review dev →

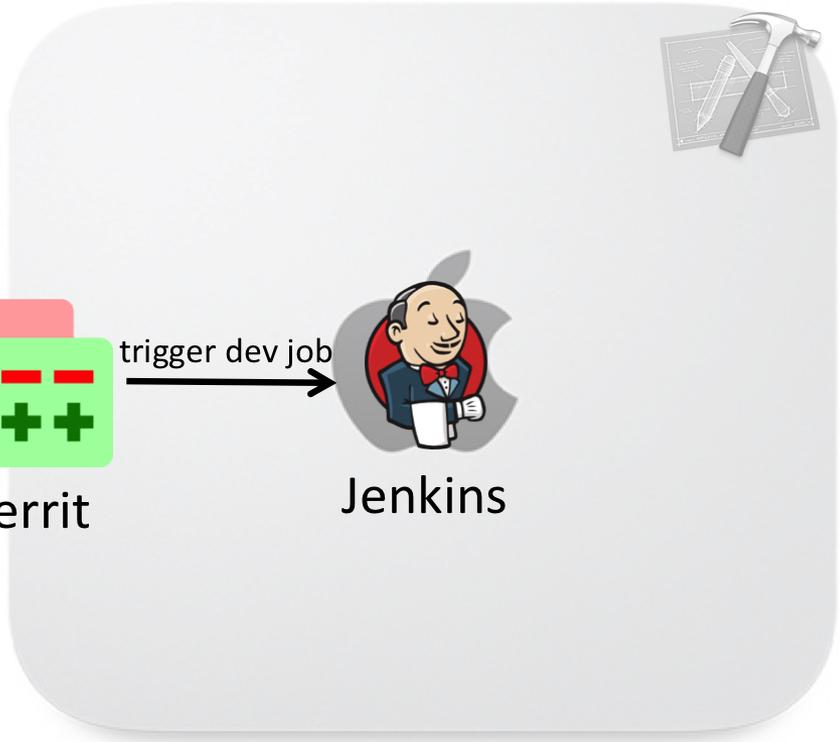


Gerrit

trigger dev job →



Jenkins



Xcode



Slack

**Jenkins**



## Jenkins

- ◎ Continuous Integration Service
- ◎ Unterstützt Version Control Systems (CVS, SVN)
- ◎ Ausführung / Überwachung von sich wiederholenden Jobs
  - Builden von Software-Projekten
  - Automatisierte Testdurchführung
- ◎ Erweiterbar durch Plugins
- ◎ REST-basierte Schnittstelle



# Jenkins Konfiguration

- ⊙ Plugins
  - Git
  - Xcode
  - Slack
  - Gerrit-Trigger
- ⊙ Jobkonfiguration
  - Allgemeine Job-Einstellungen
  - Pre-build
  - Einzelne build-steps
  - Post-build



## Job: “Build and test patchset on dev”

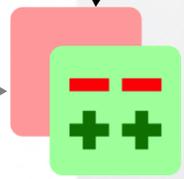
- ⊙ Allgemeine Einstellungen:
  - Einstellungen für Slack vornehmen
- ⊙ Pre-Build:
  - Source Code Management
  - Änderungen vom Gerrit-Repository abrufen
- ⊙ Build-Steps:
  - Build project (Xcode Plugin)
  - Tests anstoßen (Shell command)
- ⊙ Post-Build
  - Benachrichtigungen via Slack (Success / Failure)



git replica 



git review dev



Gerrit

trigger dev job



Jenkins

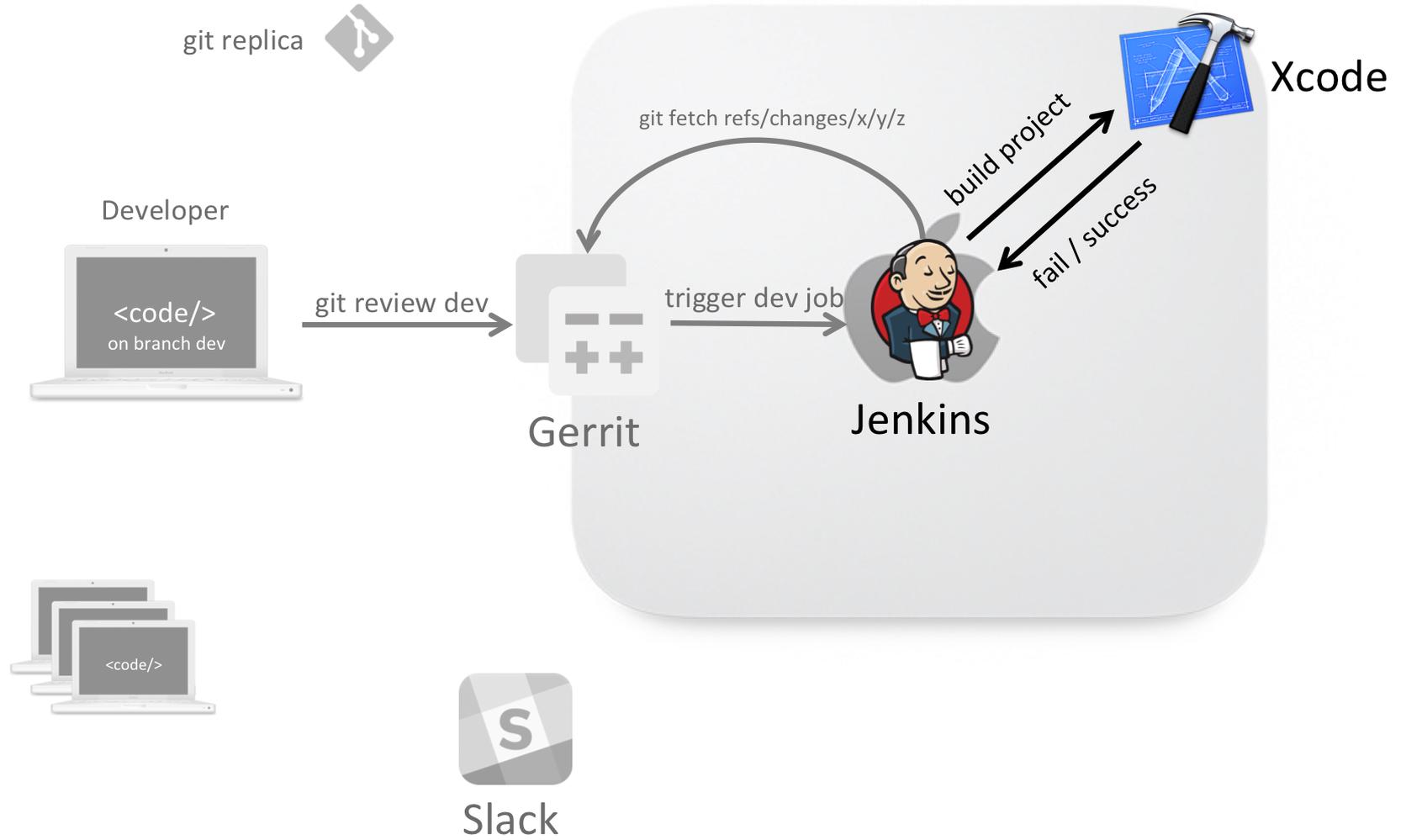
git fetch refs/changes/x/y/z

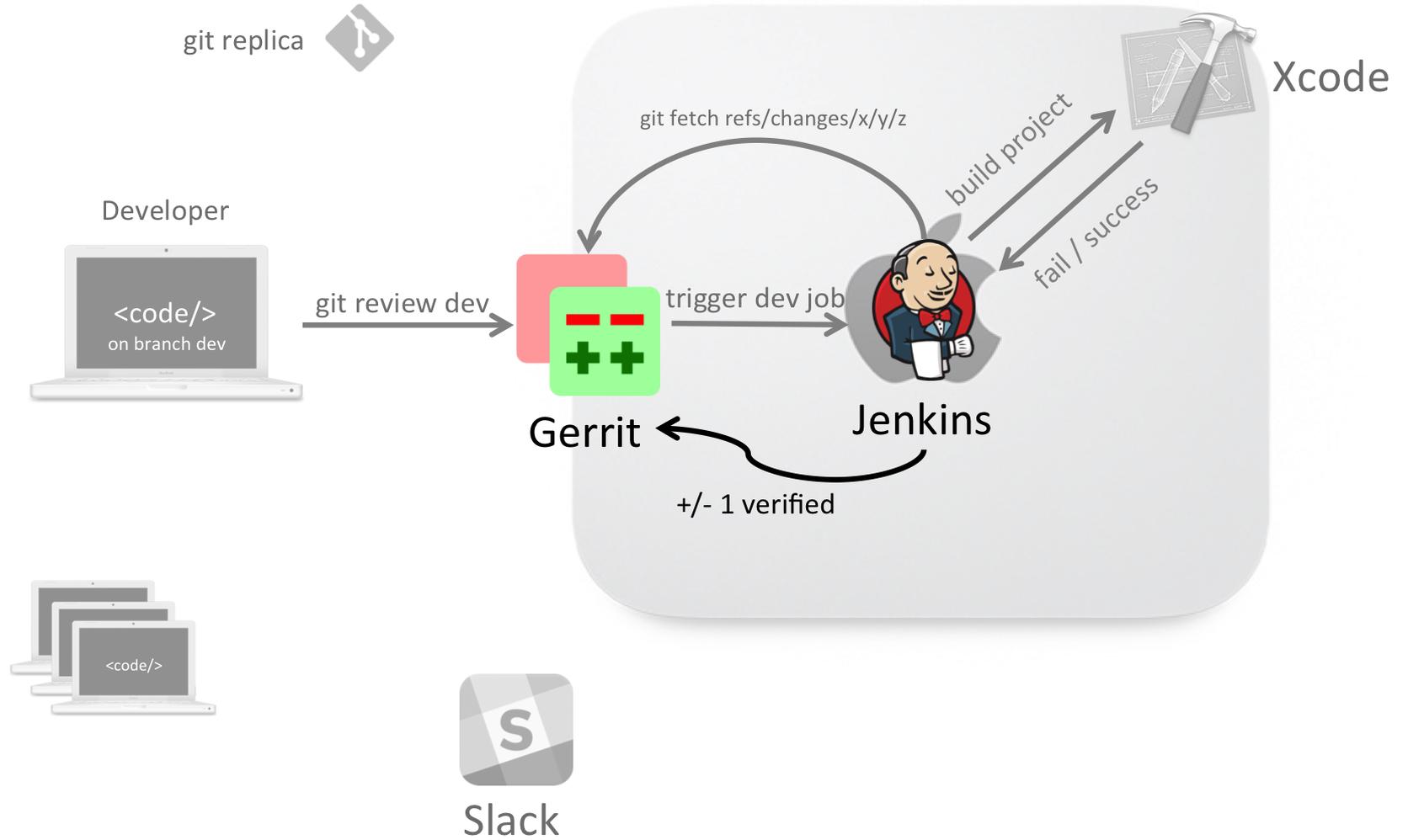


Xcode



Slack





Browser: mrs.mmlab.mintern.mi.hdm-stuttgart.de:8081/#/c/147/

Navigation: iPhoneblog ifun.de ComputerBase Apfeltalk Facebook Netflix Twitch SC2Casts HdM YouTube

Menu: All **My** Projects People Plugins Documentation

Search: Search term [ ] Search Manuel Schwandt

Change 147 - Needs Code-Review

added Backend and Pushnotification test

Change-Id: I8d22255f4e5a750dac1832c26d1517f5c5609c54

Metadata:
 

- Owner: Manuel Kalla
- Reviewers: jenkins x
- Project: badgame-app
- Branch: dev\_demo
- Topic: [ ]
- Strategy: Merge if Necessary
- Updated: 2 seconds ago

Actions: Reply... Code-Review+2 Patch Sets (1/1) Download

Code-Review +1 jenkins

Verified +1 jenkins

Buttons: Cherry Pick Rebase Abandon Follow-Up

Metadata:
 

- Author: Manuel K <mkalla@gmx.net>
- Committer: Manuel K <mkalla@gmx.net>
- Commit: 3b0738ddb75b2c765106035250e1b485f305f549
- Parent(s): 1e536d44b0c72213a87f1aae1a9cf4088d2cd50a
- Change-Id: I8d22255f4e5a750dac1832c26d1517f5c5609c54

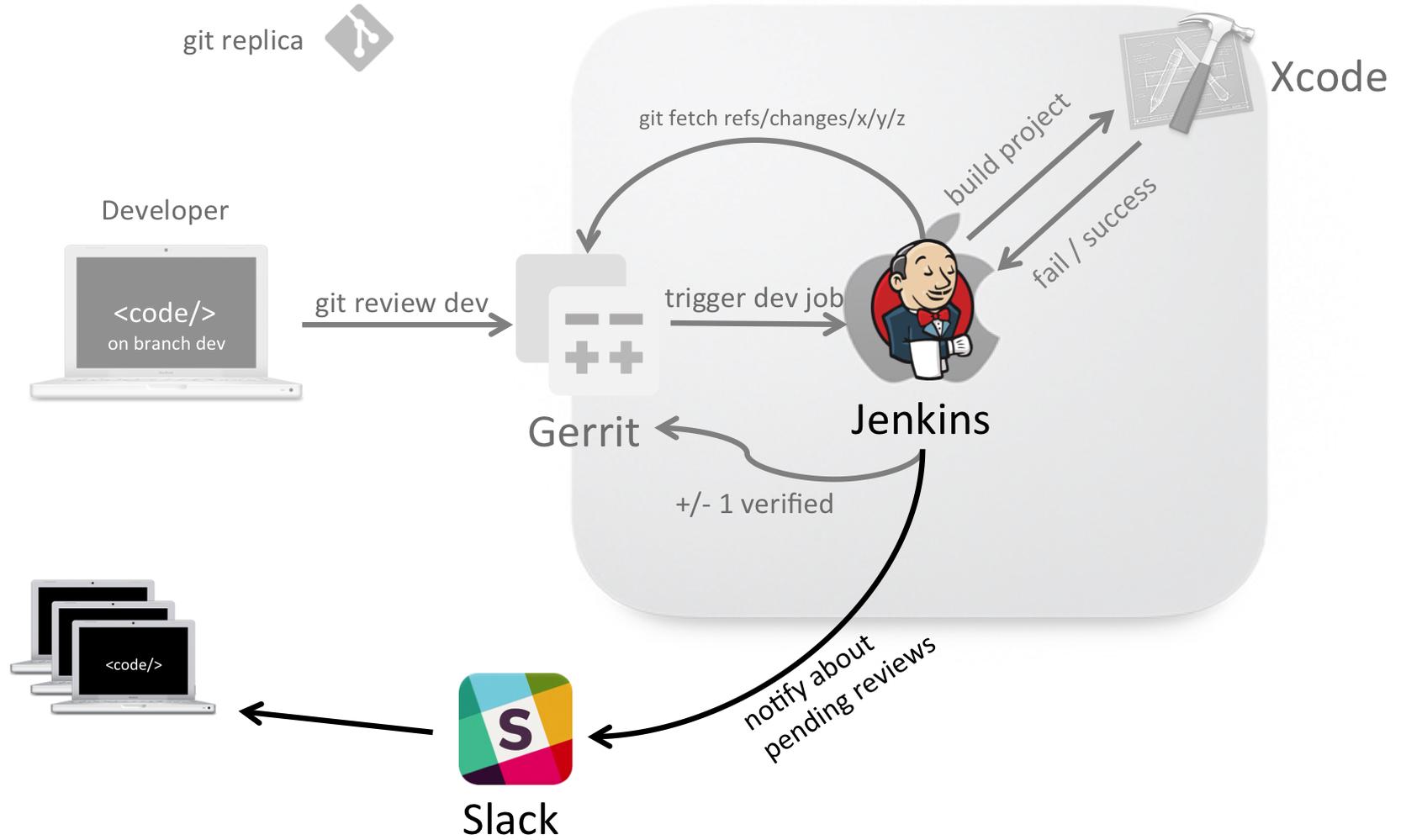
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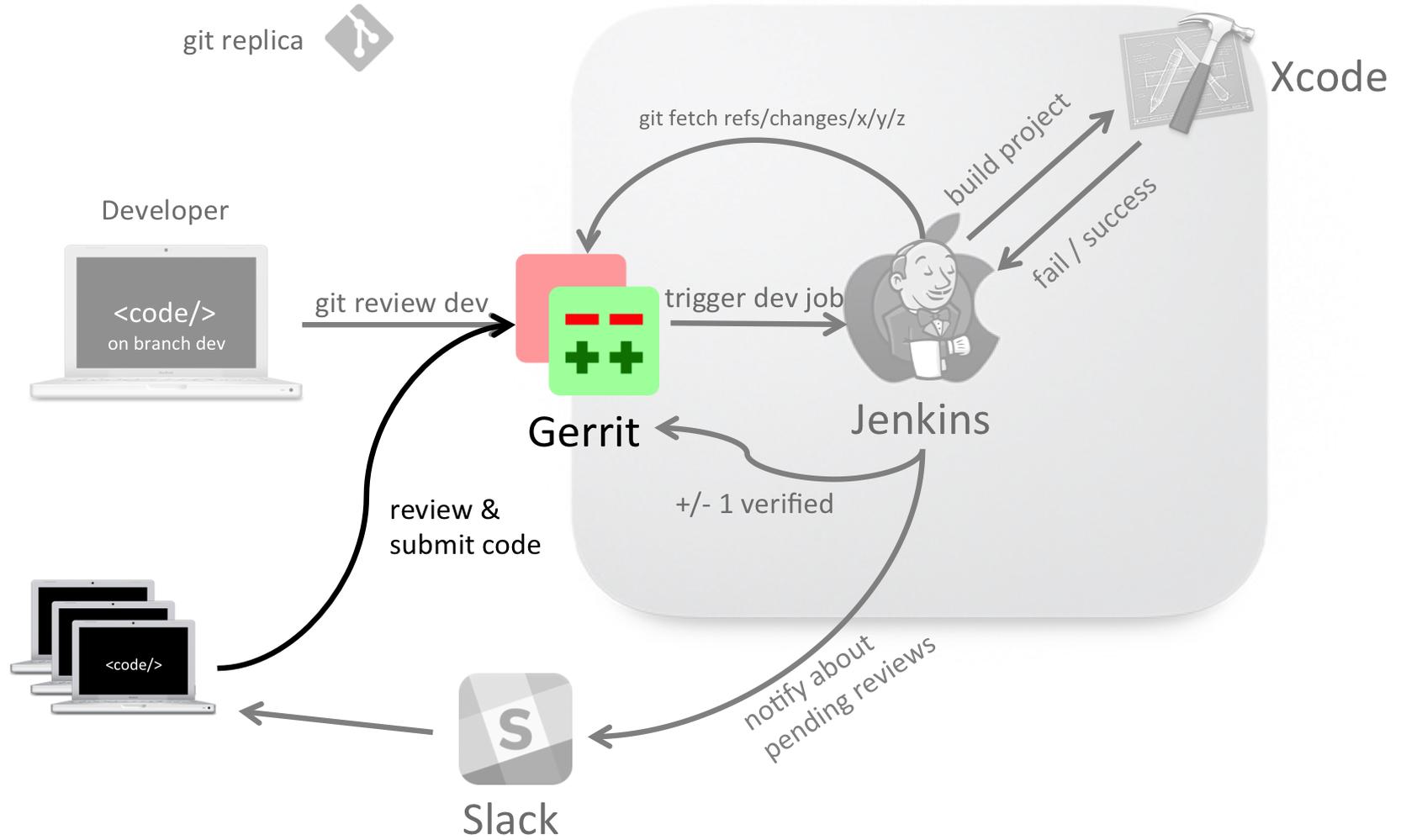
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<input type="checkbox"/> badgameTests/badgameTests.swift	14	
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History: Expand All

Manuel Kalla	Uploaded patch set 1.	5:00 PM
jenkins	Patch Set 1: Build Started http://192.168.8.10:8080/job/Build%20and%20test%20PatchSet%20on%20dev/12/	5:00 PM
jenkins	Patch Set 1: Code-Review+1 Verified+1 Build Successful http://192.168.8.10:8080/job/Build%20and%20test%20PatchSet%20on%20dev/12/ : SUCCE...	5:00 PM

Powered by Gerrit Code Review (2.11) | Press '?' to view keyboard shortcuts





Browser: mrs.mmlab.mintern.mi.hdm-stuttgart.de:8081/#/c/147/

Navigation: iPhoneblog ifun.de ComputerBase Apfeltalk Facebook Netflix Twitch SC2Casts HdM YouTube

Menu: All **My** Projects People Plugins Documentation

Sub-menu: Changes Drafts Draft Comments Watched Changes Starred Changes Groups

Search: Search term [ ] Search Manuel Schwandt

Change 147 - Ready to Submit

added Backend and Pushnotification test

Change-Id: I8d22255f4e5a750dac1832c26d1517f5c5609c54

Reply...

Patch Sets (1/1) Download

Owner [Manuel Kalla](#)

Reviewers [Manuel Schwandt](#) x [jenkins](#) x [Add...](#)

Project [badgeme-app](#)

Branch [dev\\_demo](#)

Topic [\[ \]](#)

Strategy Merge if Necessary

Updated 0 seconds ago

[Cherry Pick](#) [Rebase](#) [Abandon](#) [Follow-Up](#)

[Submit](#)

Code-Review +2 [Manuel Schwandt](#)

+1 [jenkins](#)

Verified +1 [jenkins](#)

Author [Manuel K <mkalla@gmx.net>](#) Jun 17, 2015 5:00 PM

Committer [Manuel K <mkalla@gmx.net>](#) Jun 17, 2015 5:00 PM

Commit 3b0738ddb75b2c765106035250e1b485f305f549

Parent(s) 1e536d44b0c72213a87f1aae1a9cf4088d2cd50a

Change-Id I8d22255f4e5a750dac1832c26d1517f5c5609c54

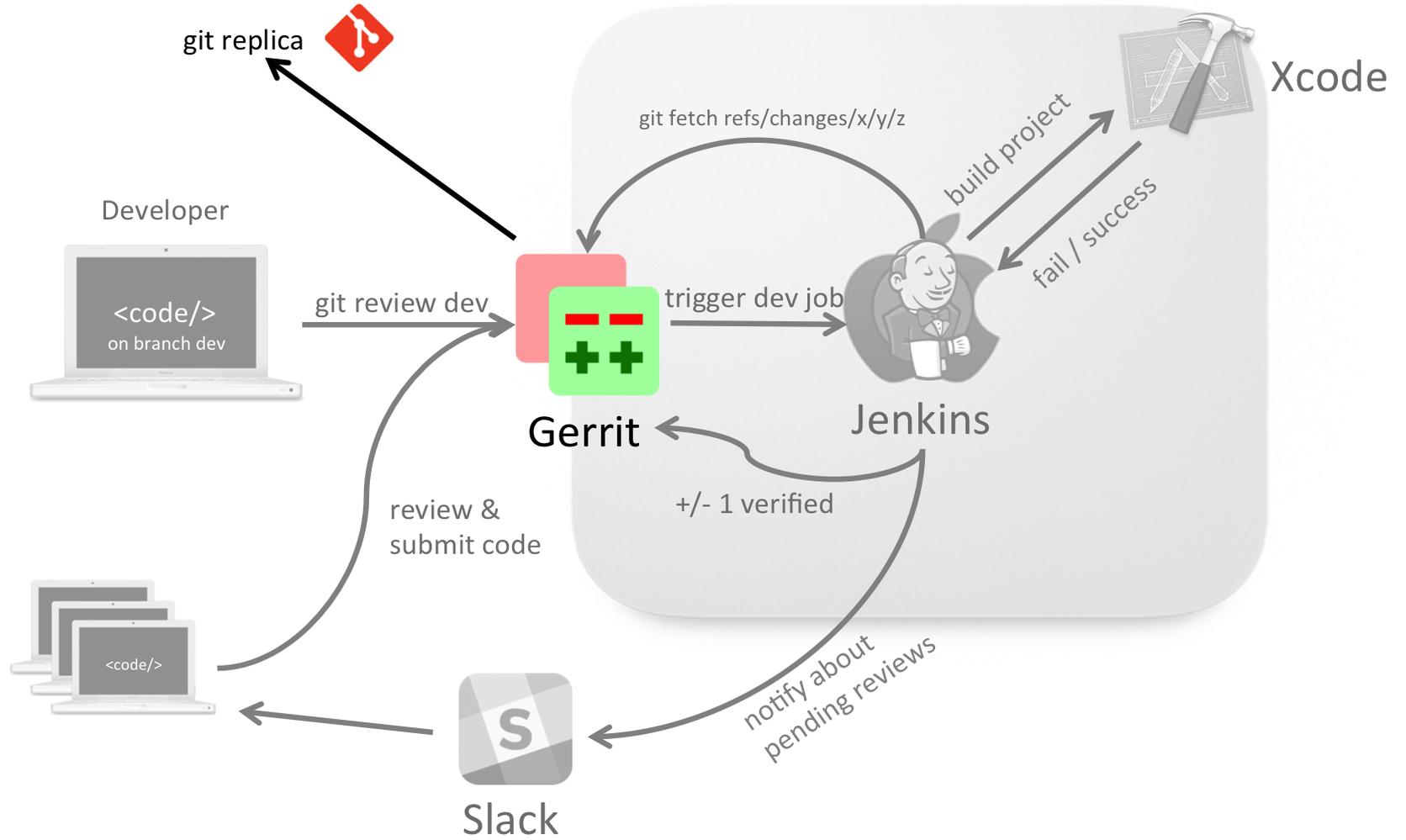
Files [Open All](#) Diff against: **Base** [Edit](#)

File Path	Comments	Size
<input type="checkbox"/> Commit Message		
<input type="checkbox"/> badgemeTests/badgemeTests.swift		14
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History [Expand All](#)

Manuel Kalla	Uploaded patch set 1.	5:00 PM
jenkins	Patch Set 1: Build Started http://192.168.8.10:8080/job/Build%20and%20test%20PatchSet%20on%20dev/12/	5:00 PM
jenkins	Patch Set 1: Code-Review+1 Verified+1 Build Successful http://192.168.8.10:8080/job/Build%20and%20test%20PatchSet%20on%20dev/12/ : SUCCE...	5:00 PM
Manuel Schwandt	Patch Set 1: Code-Review+2	5:01 PM

Powered by [Gerrit Code Review \(2.11\)](#) | Press '?' to view keyboard shortcuts



A decorative network diagram in the top-left corner, consisting of various nodes (some solid grey, some hollow white with a grey border) connected by thin grey lines. The nodes are arranged in a complex, interconnected pattern.

# Deployment Stage

A decorative network diagram in the bottom-right corner, similar to the one in the top-left, with nodes and connecting lines.

git replica 



Gerrit



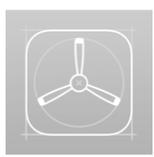
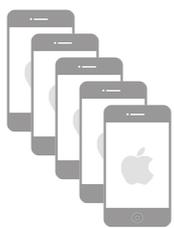
Jenkins



Xcode



altool

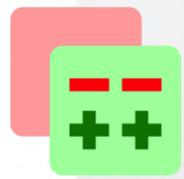


TestFlight

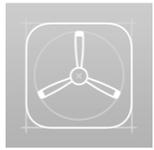
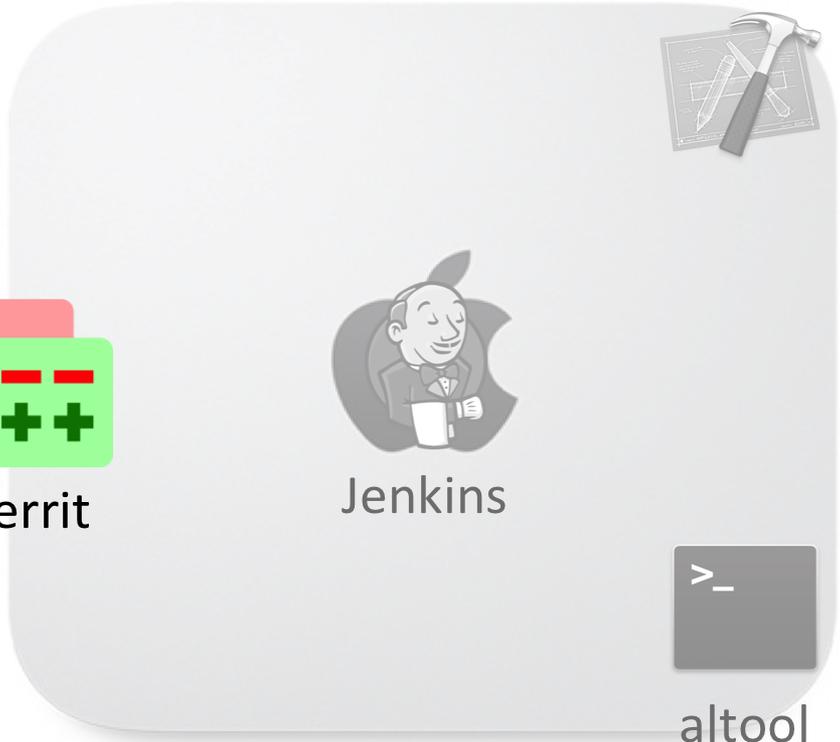
git replica 



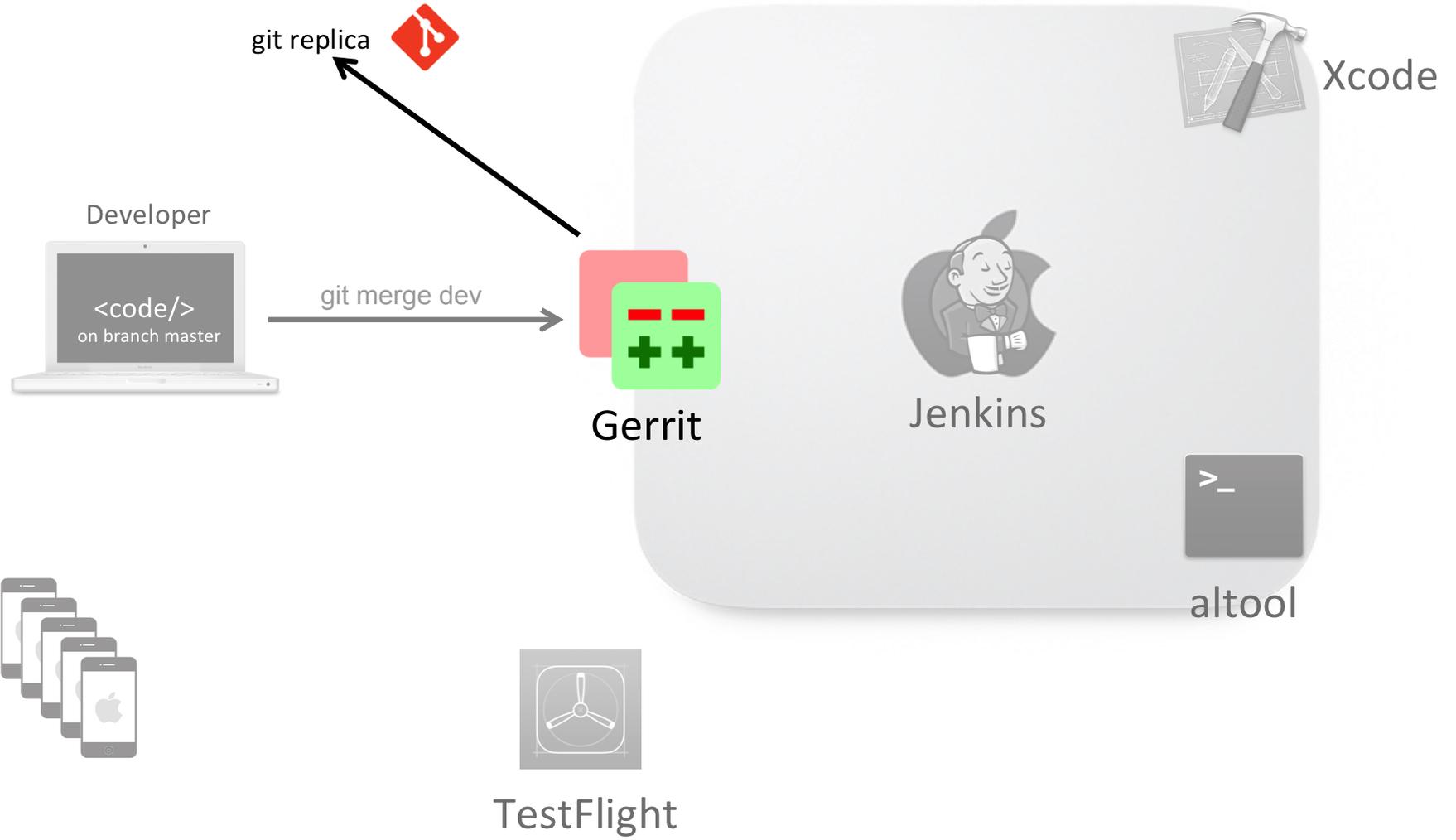
git merge dev →

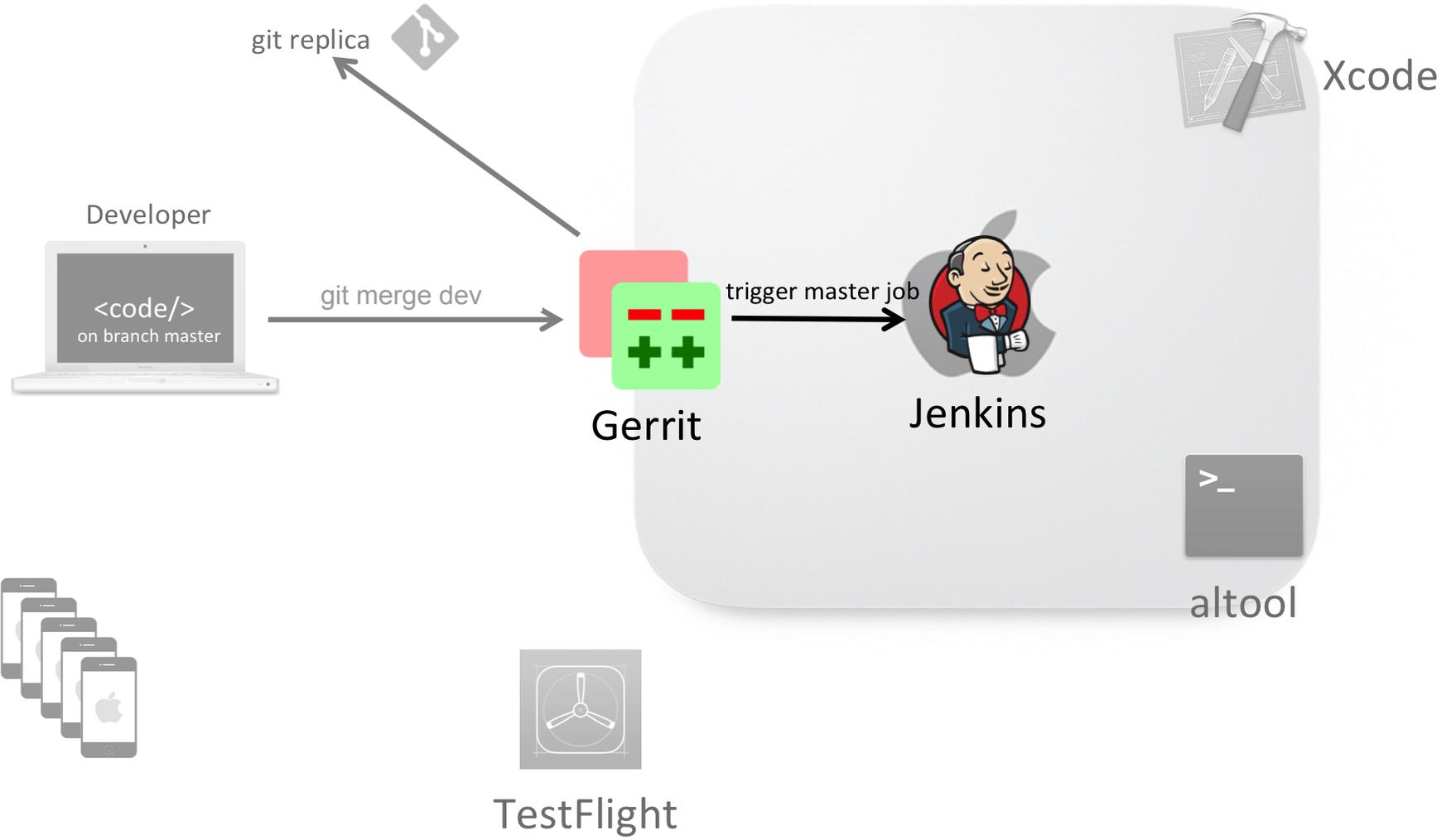


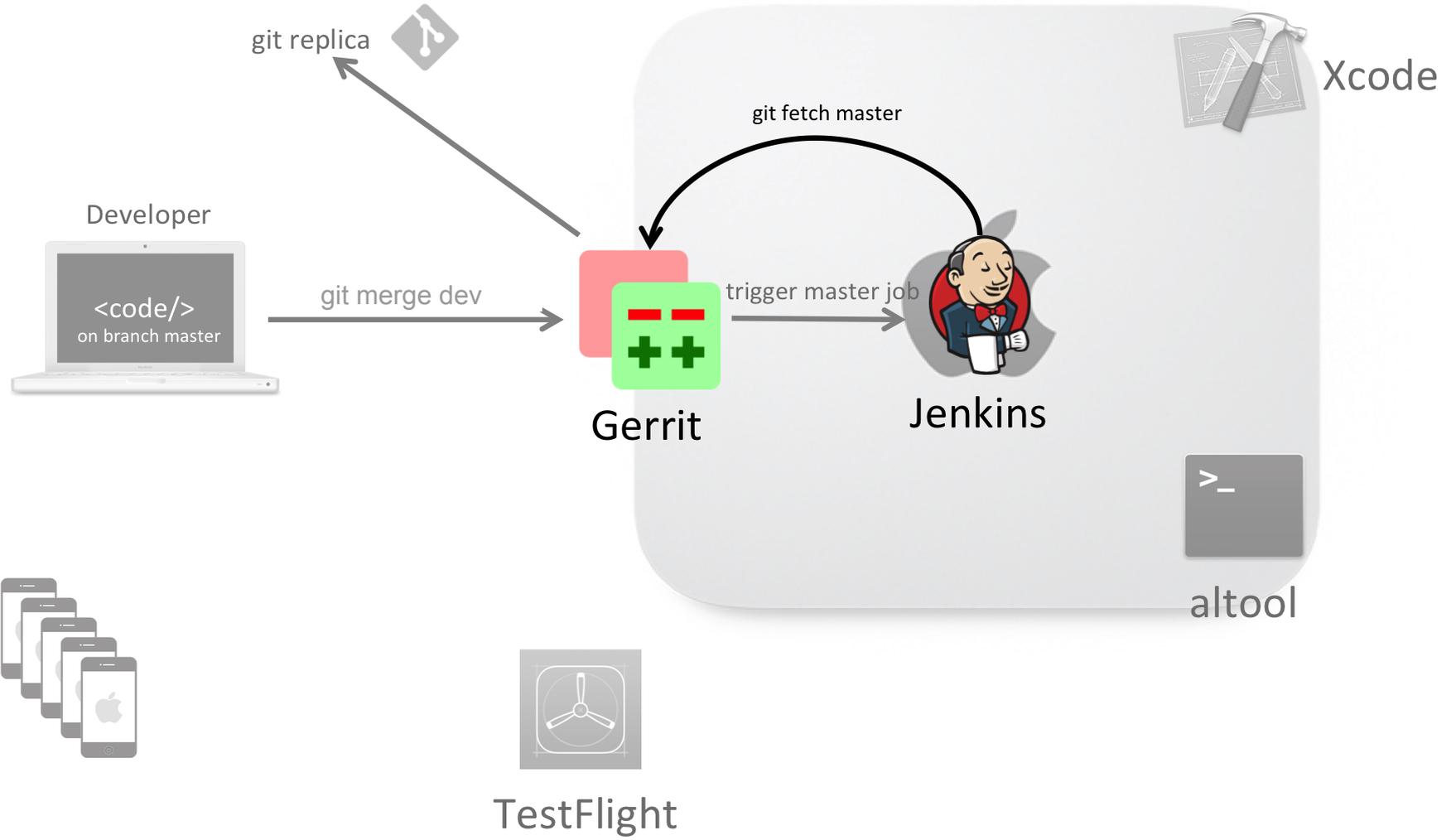
Gerrit

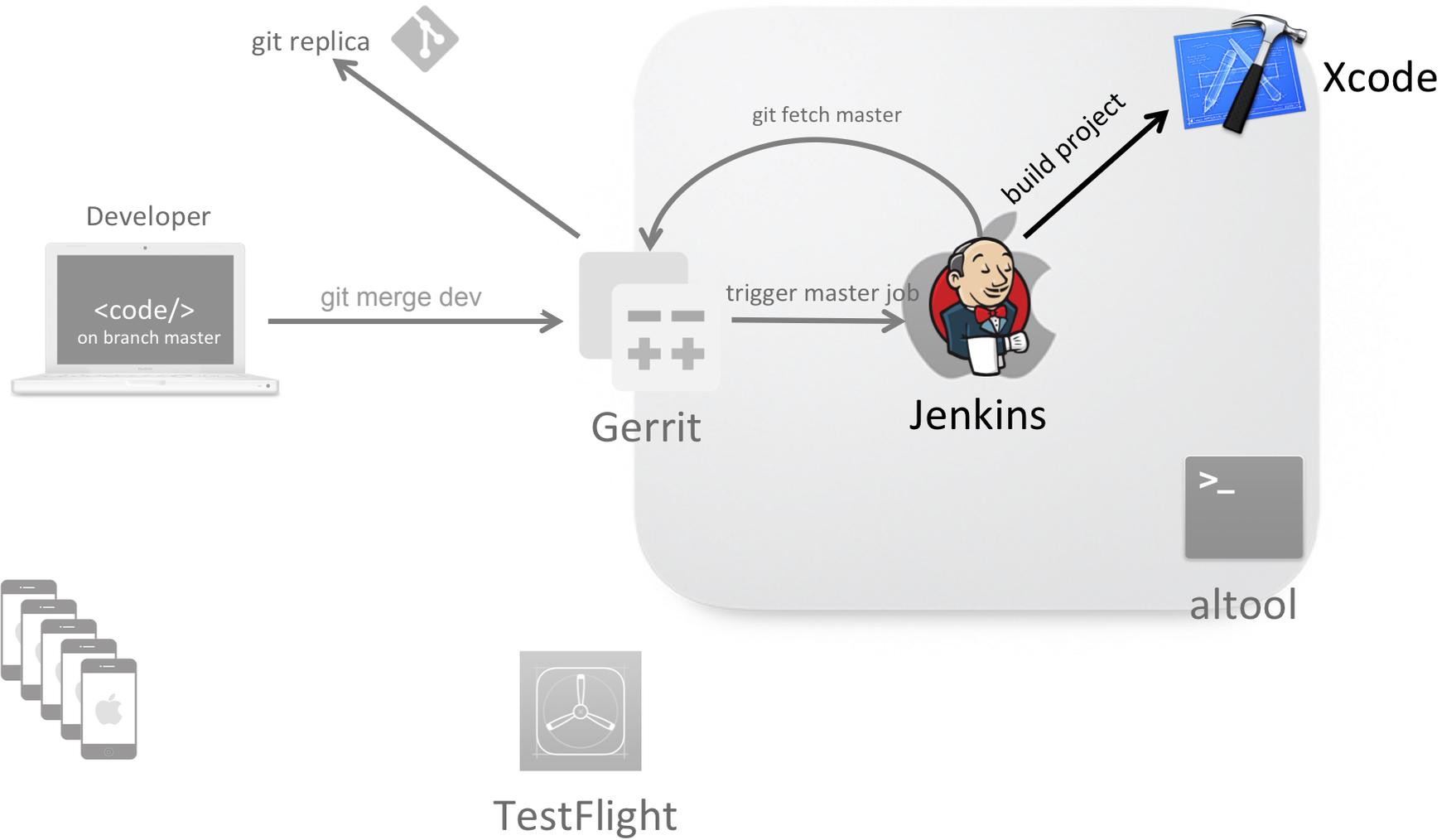


TestFlight



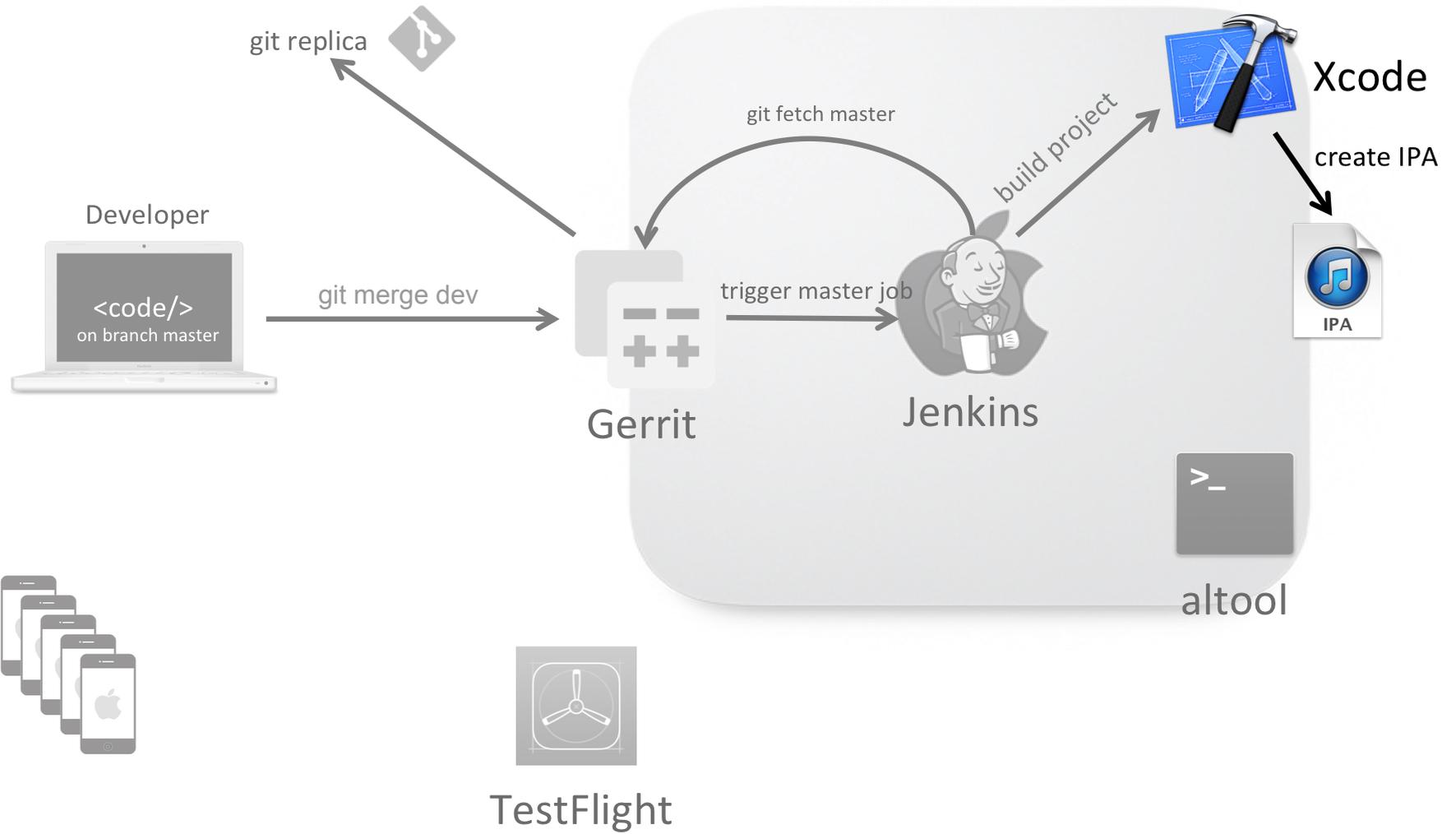


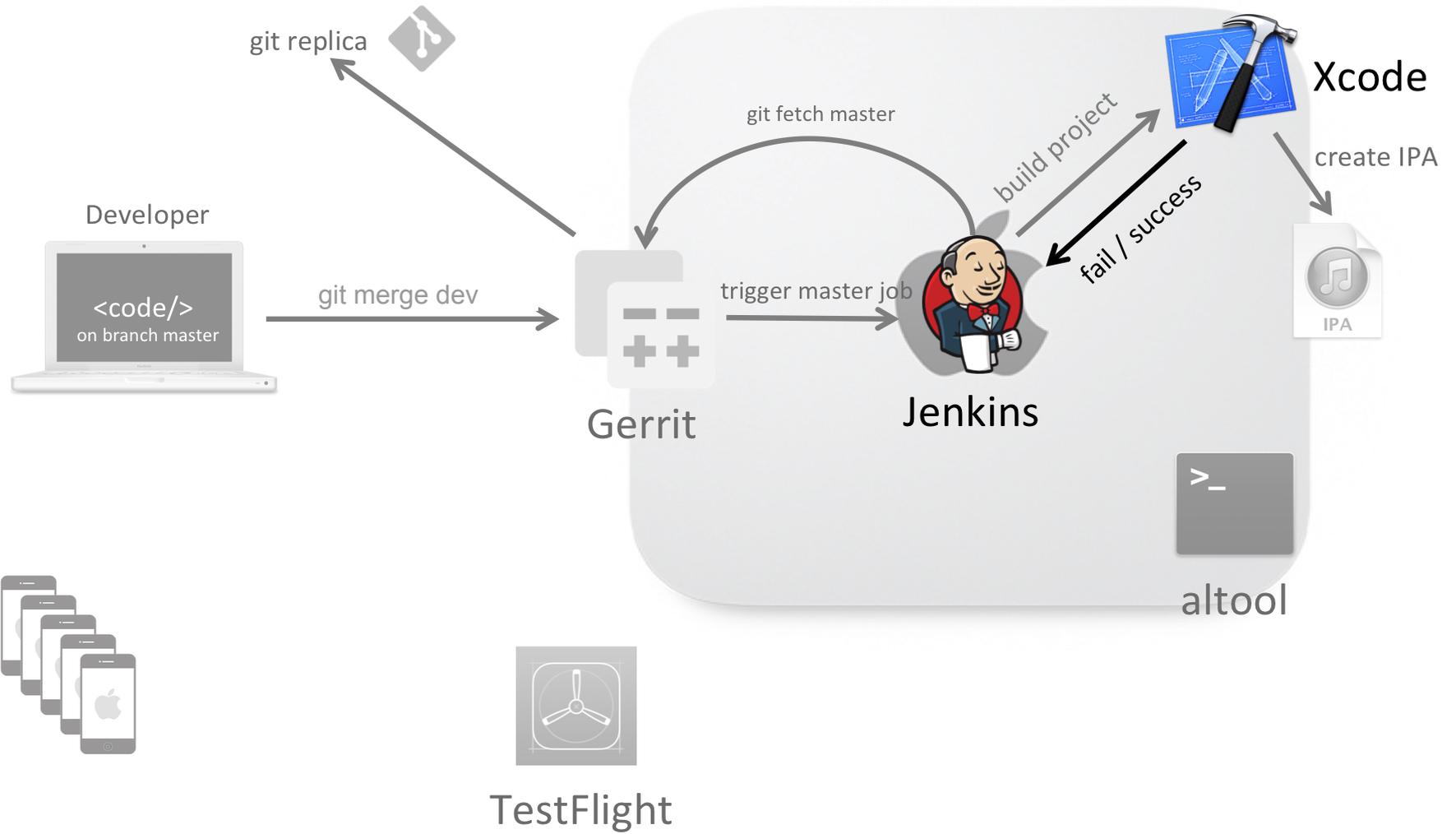


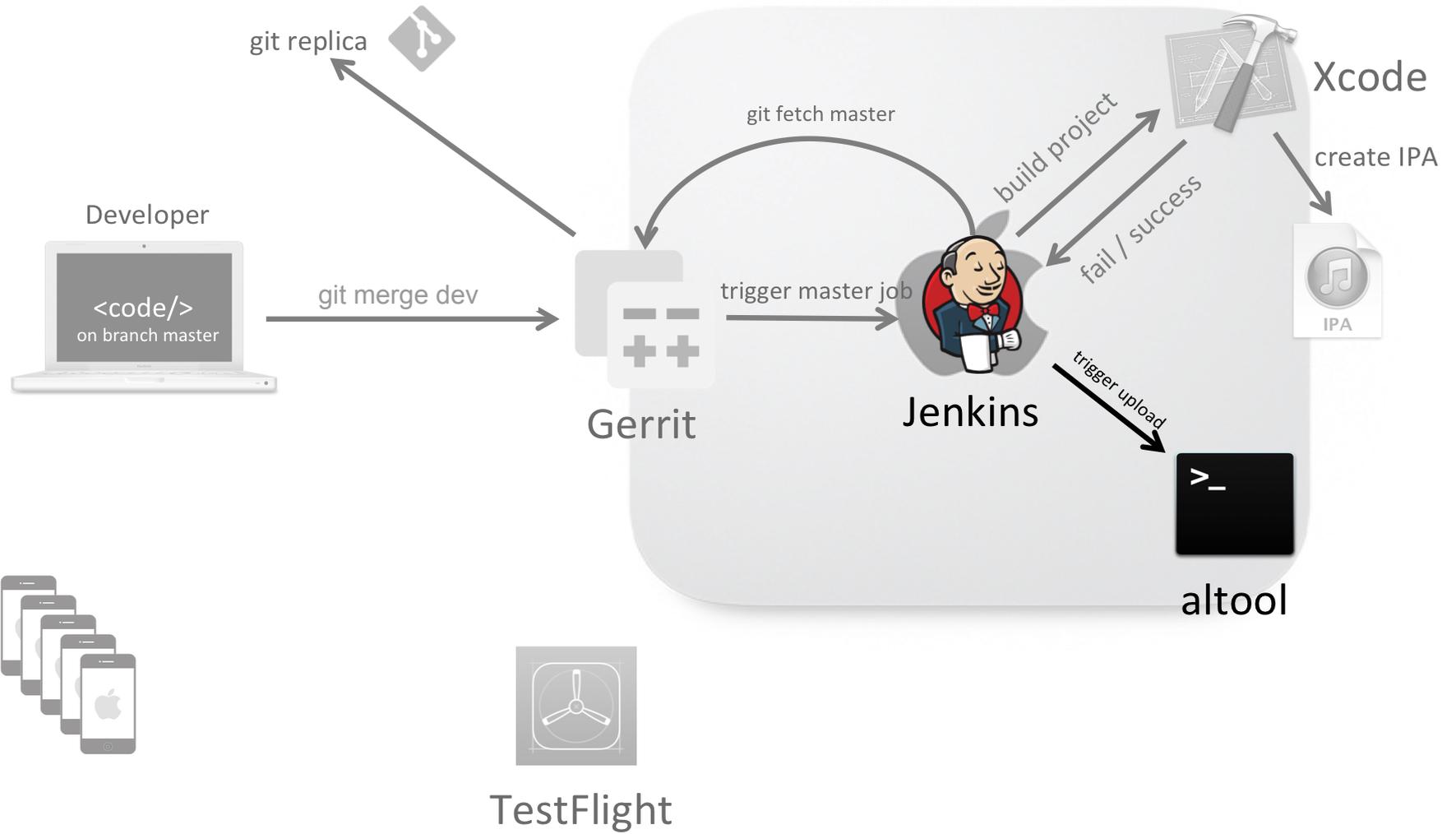


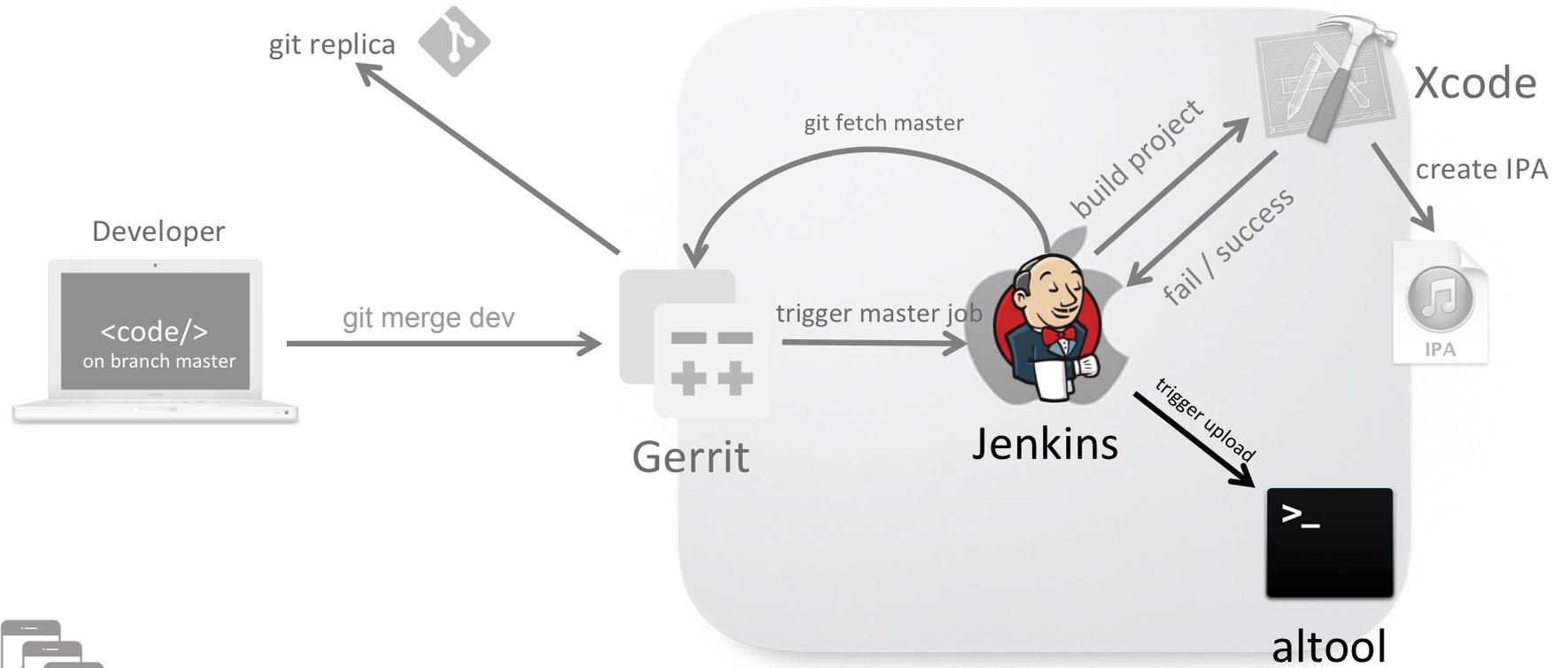
## Besonderheiten der iOS-Entwicklung

- ◎ Kostenpflichtiger Dev Account
- ◎ Apps müssen mit Provisioning Profiles versehen werden
  - Provisioning Profile = Entwicklerzertifikat + AppID (+ DeviceID)
- ◎ Build-Vorgang benötigt:
  - Entwicklerzertifikat
  - Private Key
  - Provisioning Profile(s)

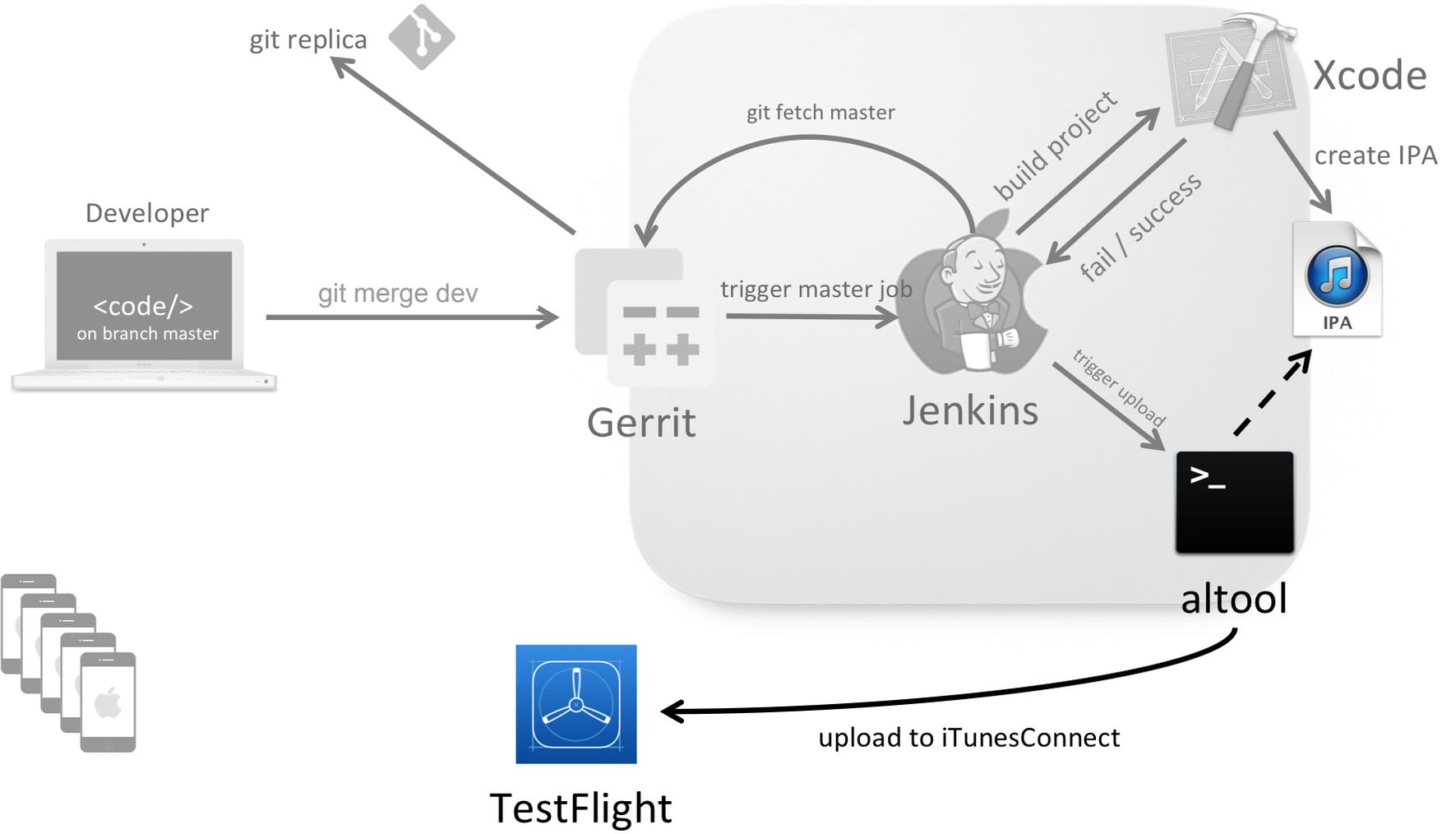








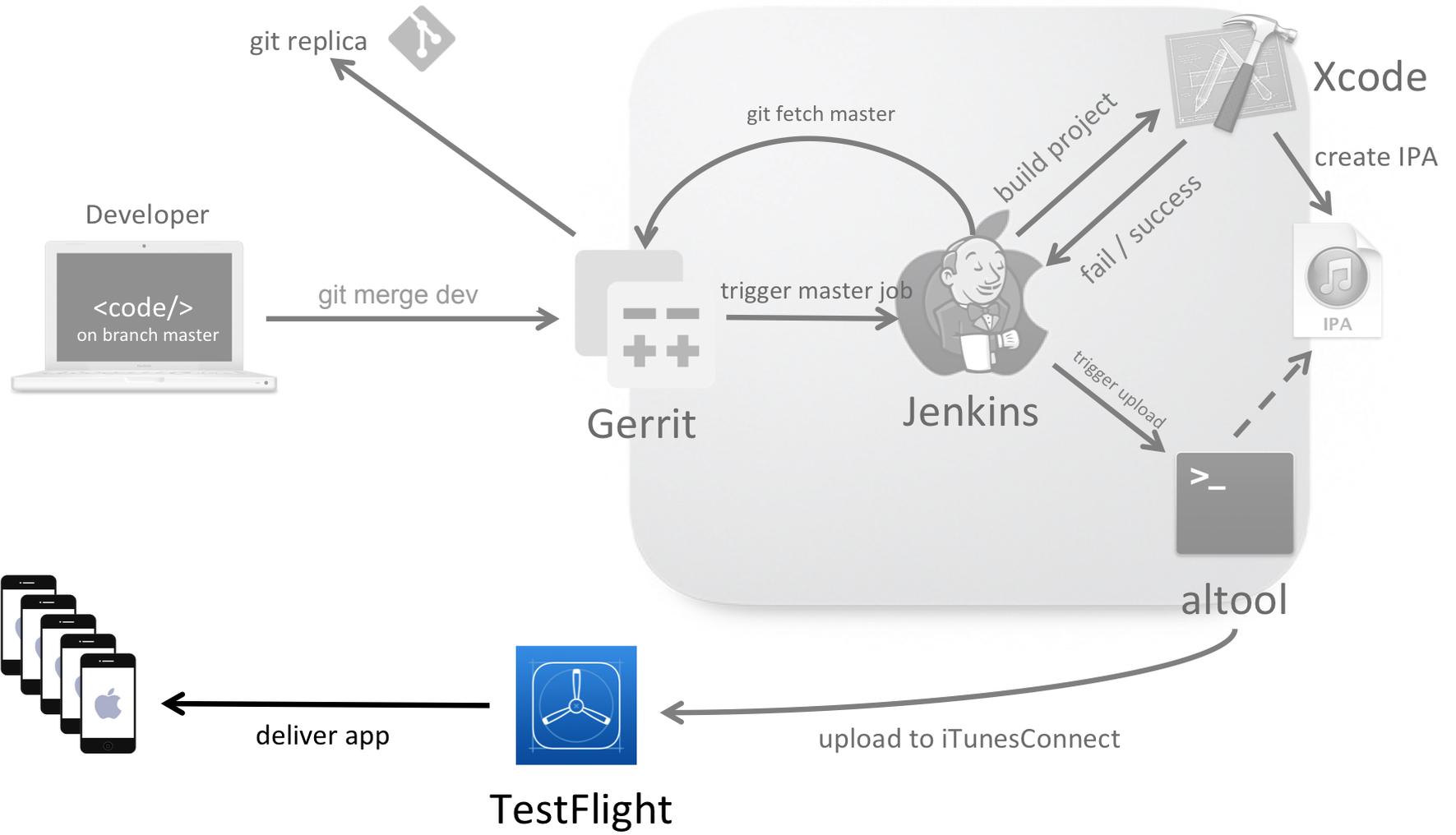
```
altool --upload-app -f [filepath] -u [username] -p [password]
```



## iTunesConnect / Testflight

- ◎ Apple's Plattform für die Distribution von Apps
  - Release in App Store (erfordert Review-Prozess durch Apple)
  - Verteilung von Pre-release Apps über TestFlight
- ◎ Konfiguration der App
  - Preisgestaltung
  - Alterseinstufung
  - Bilder
  - ...
- ◎ App Analytics
  - Statistiken (z.B. Download-Zahlen, Geolocation, ...)



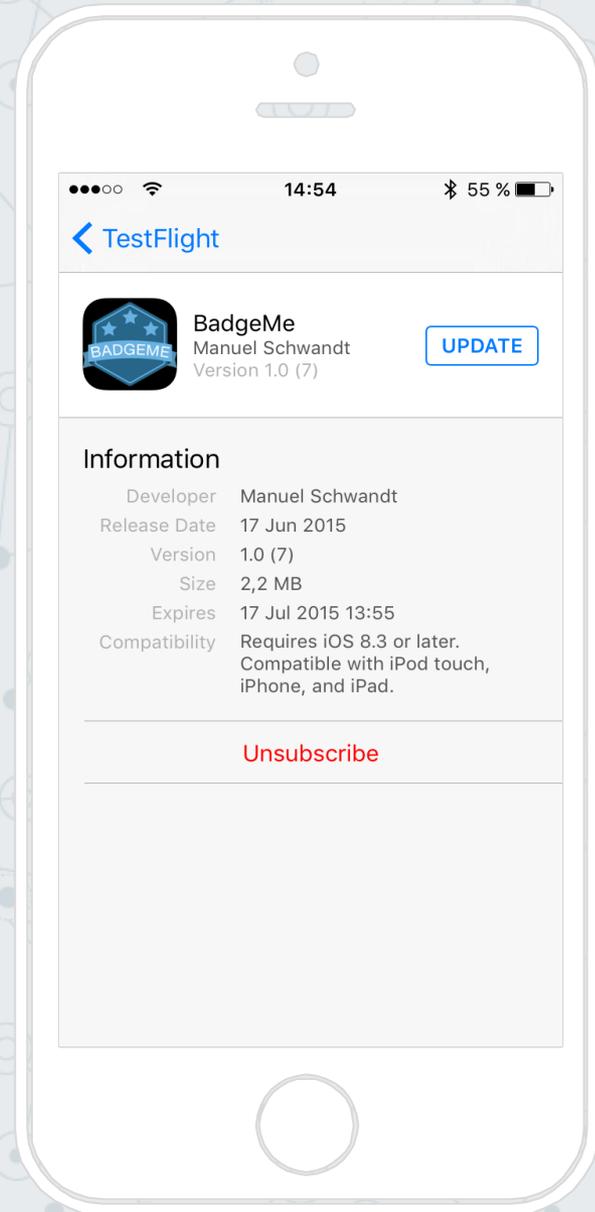




# Demo

# Testflight

Neue Version steht zum  
Download bereit.



## Probleme Gerrit

- ⊙ User-Management / Authentifizierung:
  - Erster angemeldeter Benutzer wird automatisch Admin
  - Default authentication method: OpenID (nicht mehr von Google unterstützt)
  - Launchpad / Yahoo-Konto notwendig
  - Alternative: LDAP – allerdings schwierig (HdM)
- ⊙ Löschen von Projekten
- ⊙ ChangeID in Commit-Message
- ⊙ “Verified”-Label muss in Projektkonfiguration eingetragen werden, damit gerrit-trigger funktioniert
- ⊙ git review pusht nicht auf den ausgecheckten Branch  
→ `git review <BRANCH-NAME>`

## Probleme Xcode / iTunesConnect

- ⊙ Beta-Versionen von Xcode, iOS und WatchOS
  - Upload aus Xcode-Beta nach iTunesConnect nicht möglich
- ⊙ Screensharing benötigt
  - Xcode benötigt KeyChain-Access für .ipa-Build
    - Build in Xcode musste anfangs 1x händisch gestartet werden
  - Testdurchführung nur nach händisch gestartetem Simulator möglich
  - Provisioning Profiles importieren

# Fazit

## Pro

- ⊙ Qualitätssicherung
- ⊙ Zusätzliches Feedback und Absicherung für Entwickler
- ⊙ Nach initialer Konfiguration hat man ein stabiles System
- ⊙ Automatisierung von Tests oder anderen lang andauernden Aktionen
- ⊙ Statistiken, Übersichten, Build-History

## Contra

- ⊙ Sehr großer Einarbeitungsaufwand
- ⊙ Installation + Konfiguration initial aufwändig
- ⊙ Erhöhte Komplexität im Workflow durch zusätzliche Tools
- ⊙ Störung einzelner Tools führt zu Verzögerung des gesamten Workflows
- ⊙ Zusätzliche Server-Hardware

A decorative network diagram in the top-left corner, consisting of various sized circles (nodes) connected by thin lines (edges). Some nodes are solid grey, while others are hollow with a grey outline. The network is sparse and extends from the top-left towards the center.

**Danke!**

**Gibts noch Fragen?**

A decorative network diagram in the bottom-right corner, similar to the one in the top-left. It features a cluster of nodes connected by lines, with some nodes being solid grey and others hollow. The network is more dense and extends from the bottom-right towards the center.

## Credits

Special thanks to all the people who made and released these awesome resources for free:

- ◎ Presentation template by [SlidesCarnival](#)
- ◎ Photographs by [Unsplash](#) & [Death to the Stock Photo](#) ([license](#))