

CI/CD for iOS with Jenkins

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Growth Session #6 - August 24-25 2017



The goal is to create a CI/CD for running a series of automated tasks.

- Automated build and test for production/staging
 - Both Unit test & UI test
- Release a beta with a single command
- Release the app to App Store with ease



Intro (Why Jenkins with **Multi-branch pipeline**)

- Key benefits of “**Multi-brach Pipeline**” that we can set pipeline for each branch

For examples

- Alpha builds from the feature/* branches
- Beta build from the develop/ branch
- Release builds for master/ branch

Automated builds from any of the feature branches we had built automatically when code was pushed

The problem was that all of the different feature branches were built by that one single job

Achievements and progress

- Jenkins for
 - Redplanet project (not done)
 - Travelbook (almost done)
- Created simple service test cases on Travelbook iOS project
- Able to run a pipeline on Travelbook iOS project with Jenkins
 - Travelbook pipeline:
 - Check path
 - Checkout (chore/jenkins)
 - Check gemfile
 - Cocoapod install
 - Build and test (woo!)

Achievements and progress

Stage View



Stage View



#38	Aug 25 17:32	1 commits	1 commit by peepo157 637085f remove xcpretty for now See detail page	353ms
#37	Aug 25 17:24	2 commits		359ms

Problems

- Jenkins command accessibility

Because Jenkins on Mac, It is totally different from Jenkins with OSX server or standalone

```
Errno::ENOENT - No such file or directory - curl
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-stats-1.0.0/lib/cocoapods_stats/sender.rb:26:in `spawn'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-stats-1.0.0/lib/cocoapods_stats/sender.rb:26:in `curl'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-stats-1.0.0/lib/cocoapods_stats/sender.rb:17:in `send'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-stats-1.0.0/lib/cocoapods_plugin.rb:48:in `block (2 levels) in <module:CocoaPodsStats>'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-1.3.1/lib/cocoapods/user_interface.rb:85:in `titled_section'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-stats-1.0.0/lib/cocoapods_plugin.rb:32:in `block in <module:CocoaPodsStats>'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-1.3.1/lib/cocoapods/hooks_manager.rb:109:in `block (3 levels) in run'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-1.3.1/lib/cocoapods/user_interface.rb:142:in `message'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-1.3.1/lib/cocoapods/hooks_manager.rb:103:in `block (2 levels) in run'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-1.3.1/lib/cocoapods/hooks_manager.rb:101:in `each'
/usr/local/lib/ruby/gems/2.4.0/gems/cocoapods-1.3.1/lib/cocoapods/hooks_manager.rb:101:in `block in run'
```

Now you know how to write your own **CI/CD** process using **Pipeline Modules** in **Jenkins 2.0**. It's your turn to build the **Jenkinsfile** that needs your team.

Thanks!

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