How-To Guide for Continuous Delivery

How often can you ship?

@stenvoon
Agenda

What is continuous delivery?

Are you insane?

Pick the right project

Automation (tests, deployments)

Instrumentation, monitoring, charts and graphs

Continuously delivering infrastructure
Round 1: Plain Sailing

Write thank you letters

Must keep work space neat

‘A’ is batching

‘B’ ships continuously
What did we learn?

Time to first delivery
  - which was faster?

Total time
  - which was faster?
Round 2: Rough Waters

Same as before... kind of
What did we learn?

Requirements change
- faster feedback
- cost of mistake is smaller
- fail fast

Error in a delivered batch
- finding error easier
Round 3: Ship Shape

‘A’ can only ship when all done

‘B’ can ship when mailman arrives

‘C’ ships regardless of mailman
What did we learn?

Cadence of shipping, release train
- what if you miss the release?

Continuous delivery can always release with the train

Continuous deployment always releases
Antipattern

Manually deploying software
I can ship code at any time (from my luxury yacht)

I choose when
- Weekly
- Daily
- On every commit… automatically?
Continuous Deployment?

Chance

GO DIRECTLY
TO JAIL

×

PRODUCTION

DO NOT PASS GO, DO NOT COLLECT $200

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WAT.
I'm a Unicorn
The Big Secret

An advanced level of engineering discipline is required to support continuous delivery
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Antipattern

Manual testing or configuration
SEARS TALKING COMPUTRON™
AGES 5 AND OLDER

The pre-computer with the friendly computer voice!

- Electronic Learning Aid and Instruction Book included.
- Additional word cartridges and storybooks available.
- Automatic shut-off reduces battery wear.

Makes learning fun with 19 activities and games!

1. Learn & Spell 120 words
2. Spelling quiz
3. Say It
4. Missing Letter
5. Begins with — for spelling
6. Hangman
7. Two Player Hangman
8. Discipline — scrambles words
9. Two Player Discipline
10. Addition — 3 skill levels
11. Subtraction — 3 skill levels
12. Multiplication — 3 skill levels
13. Division — 3 skill levels
14. Math quizzes — 3 skill levels
15. Math operations — 2 skill levels
16. Deduction — logic game
17. Musical follow me
18. Memory tune
19. Music Lesson

Instruction Book Included

Uses 6 "C" batteries or AC adapter unit included. Alkaline batteries recommended for best performance.

ACTUALLY TALKS!
Agenda

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Continuously delivering infrastructure
Map your build and release pipeline
Tests, Tests, and Darn Tests

Running "less:build" (less) task
File build/resources/css/catalog-all.css created.

Running "copy:images" (copy) task
Copied 20 files

Running "replace:imagepaths" (replace) task

Running "jasmine:apps:build" (jasmine) task

Running "replace:jasmine" (replace) task

Running "express:inline" (express) task

Running "express-server:inline" (express-server) task
Web server started on port:8893, no hostname specified [pid: 70250]

Running "webdriver jasmine runner:apps" (webdriver jasmine runner) task
Starting webdriver server at http://localhost:4444
Connecting to webdriver server at http://192.168.0.5:4444/wd/hub.
Running Jasmine tests at http://localhost:8893/_SpecRunner.html with chrome.
Test page loaded. Running 879 tests...

Done running all tests. Suite took 252.786 seconds.
All 879 tests passed!
Closing test servers.

Done, without errors.

~/projects/app-catalog

(sneely)

(git) e217b6d276fe  suchteamwow ()

%
Antipattern

Not doing continuous integration
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Your automated test suite is slow... and getting slower
Speeding up Tests
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Using different binaries in test and production
Fully Automated Deployment
Antipattern

Using branches
Feature Toggles

ON

OFF
Agenda

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Continuously delivering infrastructure
Production and Test are different environments
Antipattern

Culture of not giving a damn
Want to move fast?

Monitor *everything*

Need to know what release has done to prod

*Everyone* should be watching
Deployment Strategies
Agenda

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Continuously delivering infrastructure
Bonus Points
Windows has detected that your monitor is not plugged in.
sneely@rallydev.com
@stenvoon
Let’s Chat

Free for questions @ the Rally booth directly after this session
Tools (Bonus Slide)

Rally - git connector, Jenkins plugin, devops states on boards

Github

Jenkins

Ruby scripts and gems (homegrown) for build & deploy

Nexus

Maven / buildr / grunt / npm / gradle

Splunk / Ganglia / GDash

Nagios / VictorOps