

CircleCIの便利な機能の紹介

ケビン・ベル

ソリューションエンジニア CircleCI

自己紹介

- 2009-2010年：
島根県雲南市の国際交流員
- 2010-2014年：
いろんなソフトウェアの会社でいろんなこと
- 2014-現在：
CircleCIのエバンジェリストと
ソリューションエンジニア

自己紹介



Agenda

- SSH ログイン
- テストメタデータ
- 社内ネットワークで CircleCI

SSH ログイン

The screenshot shows the CircleCI web interface for a build named 'build 20'. The build status is 'SUCCESS'. A red box highlights the 'Rebuild' button and its dropdown menu, which includes the option 'Rebuild with SSH'. The interface also shows the commit history, test summary, and a progress bar for the build steps.

Builds » bellkev » asg-sim » master » build 20

SUCCESS Finished: 2 months ago (00:55) Previous: 19 Parallelism: 1x out of 4x Queued: 00:00 wait by: Kevin Bell (pushed ecbcb68)

COMMITTS (1)
Kevin Bell [ecbcb68](#) Update README.md

Test Summary Queue (00:00) Debug via SSH Artifacts circle.yml Build Timing

Your build ran 35 tests in nosetests with 0 failures
Slowest test: tests.test_model test_fixed_builds_per_hour_e2e (took 0.20 seconds).

Show containers: All (1) Successful (1) Failed (0)

0 (00:52) +

INFRASTRUCTURE

Starting the build

SSH ログイン

The screenshot shows the CircleCI web interface for a specific build. The browser's address bar displays the URL `https://circleci.com/gh/bellkev/asg-sim/21#ssh-info`. The page title is "Builds » bellkev » asg-sim » master » build 21".

At the top right, there are buttons for "cancel build", "Rebuild", and "Project Settings".

The build status is "RUNNING". Below this, a table provides details about the build:

Started:	Estimated:	Previous:	Parallelism:	Queued:	Triggered by:
00:00 ago	00:55	20	1x out of 4x	00:04 waiting + 00:00 in queue	Kevin Bell (retried 20 with SSH)

Below the table, the "COMMIT (1)" section shows a commit by Kevin Bell with the message "Update README.md".

The "Queue (00:04)" section is active, showing "Debug via SSH" and "circle.yml".

The main content area contains the following text:

You enabled SSH for this build.
You can SSH into this build. Use the same SSH public key that you use for GitHub. SSH boxes will stay up for 30 minutes.
This build takes up one of your concurrent builds, so cancel it when you are done. Browser based testing? Read [our docs](#) on how to use VNC with CircleCI.

Under the heading "Container 0", the SSH command is displayed: `ssh -p 64621 ubuntu@54.226.90.76`. This command is highlighted with a red box.

At the bottom, there is a progress bar for "0 (00:12)" and a section labeled "INFRASTRUCTURE" with a question mark icon.

SSH ログイン

```
kevin@mbp ~ $  
kevin@mbp ~ $ ssh -p 64621 ubuntu@54.226.90.76  
The authenticity of host '[54.226.90.76]:64621 ([54.226.90.76]:64621)' can't be established.  
ECDSA key fingerprint is SHA256:YxHyKzczcjwoIdPIV5tM2yLEes47N3/HtAZ6u5L4IYw.  
Are you sure you want to continue connecting (yes/no)? yes  
Warning: Permanently added '[54.226.90.76]:64621' (ECDSA) to the list of known hosts.  
Last login: Thu May 26 22:44:01 2016 from 10.63.182.220  
ubuntu@box626:~$ █
```


SSH ログイン

The screenshot shows the CircleCI web interface for a specific build. The browser tabs include 'Inbox (2) - kevin@circleci.c...' and 'bellkev/playground #342 - x'. The address bar shows the URL 'https://circleci.com/gh/bellkev/playground/342#ssh-info'. The main header displays the build path 'Builds » bellkev » playground » bazqux » build 342' along with buttons for 'cancel build', 'Rebuild', and 'Project Settings'.

The build status is 'RUNNING', with a progress indicator showing '0' out of '01:06'. The build details include: Started: 00:24 ago, Estimated: 31:54, Previous: 341, Parallelism: 1x out of 1x, Queued: 00:08 waiting + 00:00 in queue, and Triggered by: Kevin Bell (retried 341).

Below the build details, there are tabs for 'Queue (00:08)', 'Debug via SSH', and 'circle.yml'. The 'Debug via SSH' tab is active, displaying a message: 'Often the best way to troubleshoot problems is to SSH into a running or finished build to look at log files, running processes, and so on. This will grant you ssh access to the build's containers, prevent the deploy step from starting, and keep the build up for 30 minutes after it finishes to give you time to investigate. More information [in our docs](#).' A red rectangular box highlights the button 'Enable SSH for this build'.

At the bottom, there is a section titled 'INFRASTRUCTURE' with a progress bar. The progress bar shows '0' out of '01:06' and a button 'Add Containers +'. Below the progress bar, there are two steps: 'Starting the build' and 'Start container', both with green progress indicators. A help icon (?) is visible in the bottom right corner.

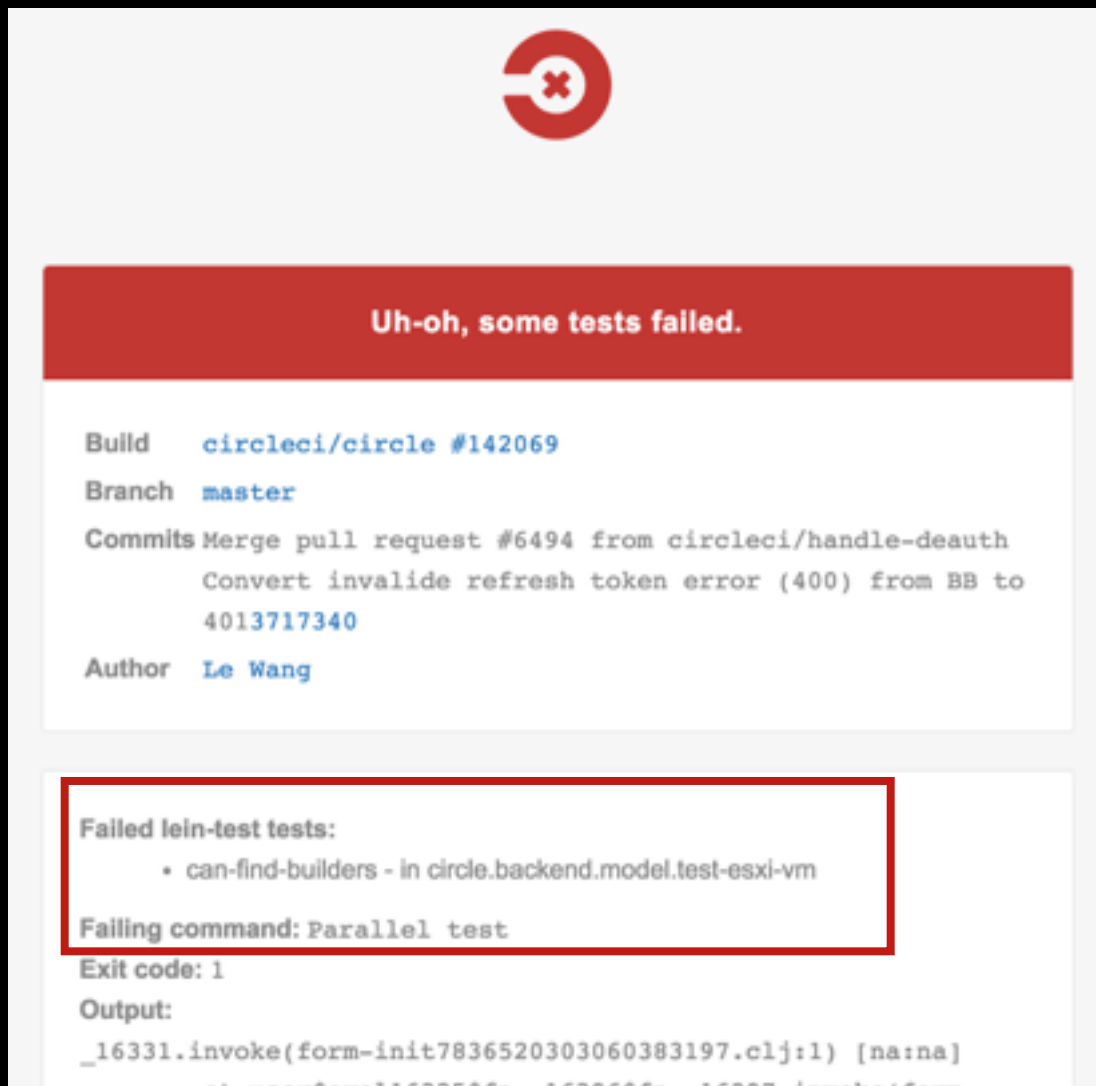
テストメタデータ

- テストメタデータとは？
- python と nosetests の例:
 - `nosetests --with-xunit`
 - `cat nosetests.xml`

テストメタデータ

```
<?xml version="1.0" encoding="UTF-8"?>
<testsuite name="nosetests" tests="35" errors="0" failures="0" skip="0">
  <testcase classname="tests.test_cost" name="test_cost_machines" time="0.000"/>
  <testcase classname="tests.test_cost" name="test_cost_per_builder_hour_override" time="0.000"/>
  <testcase classname="tests.test_cost" name="test_cost_queueing" time="0.000"/>
  <testcase classname="tests.test_cost" name="test_costs_from_job_results_mean" time="0.000"/>
  <testcase classname="tests.test_cost" name="test_costs_from_job_results_total" time="0.000"/>
  <testcase classname="tests.test_cost" name="test_cost_ci" time="0.000"/>
  <testcase classname="tests.test_cost" name="test_compare_cis" time="0.000"/>
  <testcase classname="tests.test_cost" name="test_compare_results" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_alarm" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_alarm_averaged" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_comparisons_GT" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_comparisons_LT" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_continued_alarm" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_initial_averaged" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_initial_state" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_ok" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_ok_averaged" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_periodized_average" time="0.000"/>
  <testcase classname="tests.test_model.TestAlarm" name="test_reset" time="0.000"/>
  <testcase classname="tests.test_model.TestBuilder" name="test_available" time="0.000"/>
  <testcase classname="tests.test_model.TestBuilder" name="test_not_available_if_booting" time="0.000"/>
  <testcase classname="tests.test_model.TestBuilder" name="test_not_available_if_busy" time="0.000"/>
  <testcase classname="tests.test_model.TestBuilder" name="test_not_available_if_shutting_down" time="0.000"/>
  <testcase classname="tests.test_model.TestScalingPolicy" name="test_cooldown" time="0.000"/>
  <testcase classname="tests.test_model" name="test_utilization" time="0.002"/>
  <testcase classname="tests.test_model" name="test_scale_up" time="0.000"/>
  <testcase classname="tests.test_model" name="test_graceful_shutdown" time="0.000"/>
  <testcase classname="tests.test_model" name="test_scale_down" time="0.001"/>
  <testcase classname="tests.test_model" name="test_build_throughput" time="0.000"/>
  <testcase classname="tests.test_model" name="test_fixed_builds_per_hour" time="0.000"/>
  <testcase classname="tests.test_model" name="test_fixed_builds_per_hour_e2e" time="0.194"/>
  <testcase classname="tests.test_model" name="test_dynamic_builds_per_hour" time="0.004">
    <system-out><![CDATA[ticks: 12
per hour: 100.0
]]></system-out>
  </testcase>
  <testcase classname="tests.test_model" name="test_dynamic_builds_per_hour_e2e" time="0.130"/>
  <testcase classname="tests.test_model" name="test_initial_boot" time="0.000"/>
  <testcase classname="tests.test_model" name="test_run_model" time="0.001"/>
</testsuite>
```

テストメタデータ



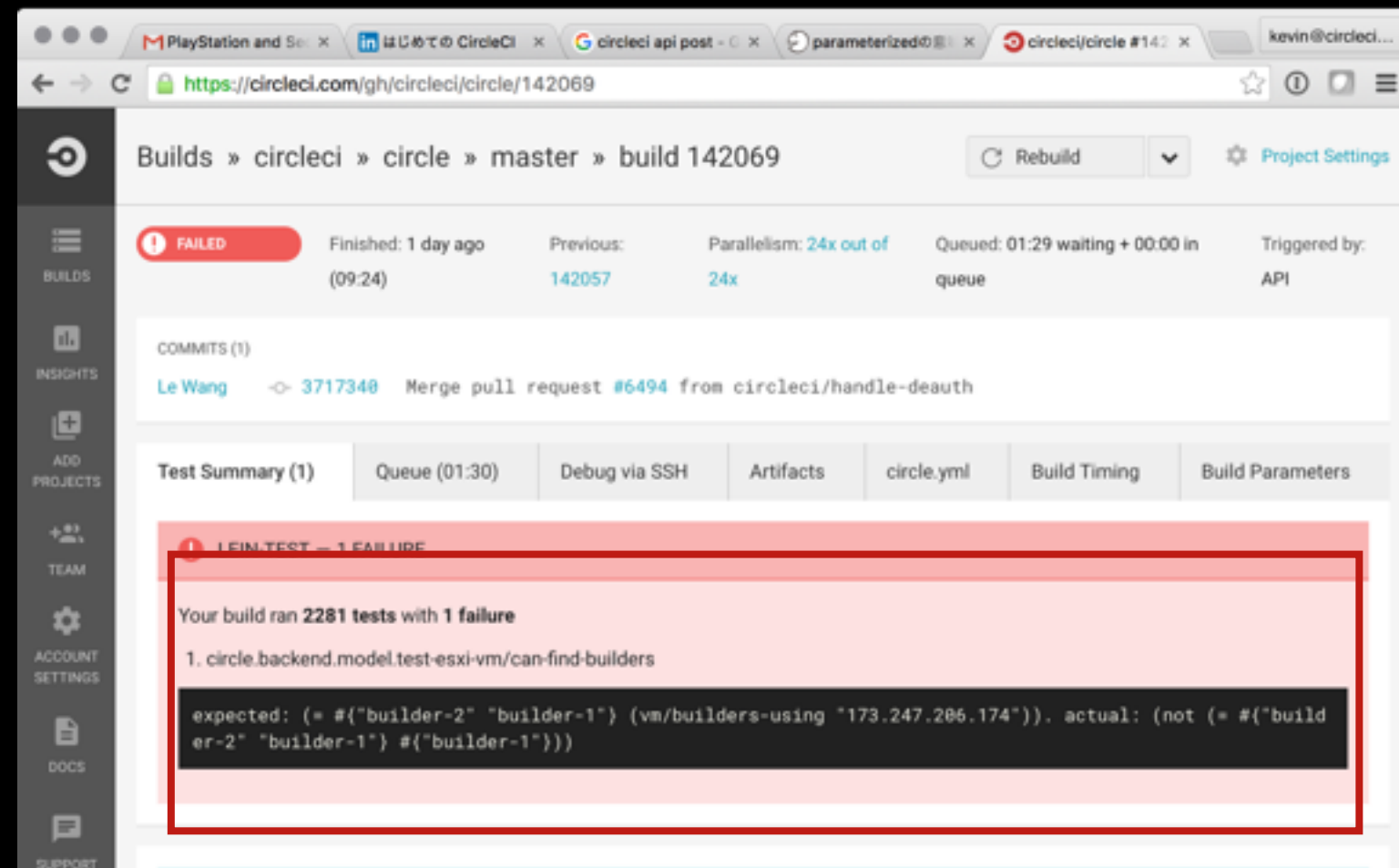
Uh-oh, some tests failed.

Build [circleci/circle #142069](#)
Branch [master](#)
Commits Merge pull request #6494 from circleci/handle-deauth
Convert invalide refresh token error (400) from BB to 4013717340
Author [Le Wang](#)

Failed lein-test tests:

- can-find-builders - in circle.backend.model.test-esxi-vm

Failing command: Parallel test
Exit code: 1
Output:
_16331.invoke(form-init7836520303060383197.clj:1) [na:na]



Builds » circleci » circle » master » build 142069

FAILED Finished: 1 day ago (09:24) Previous: 142057 Parallelism: 24x out of 24x Queued: 01:29 waiting + 00:00 in queue Triggered by: API

COMMIT (1)
[Le Wang](#) 3717340 Merge pull request #6494 from circleci/handle-deauth

Test Summary (1) Queue (01:30) Debug via SSH Artifacts circle.yml Build Timing Build Parameters

LEIN-TEST - 1 FAILURE

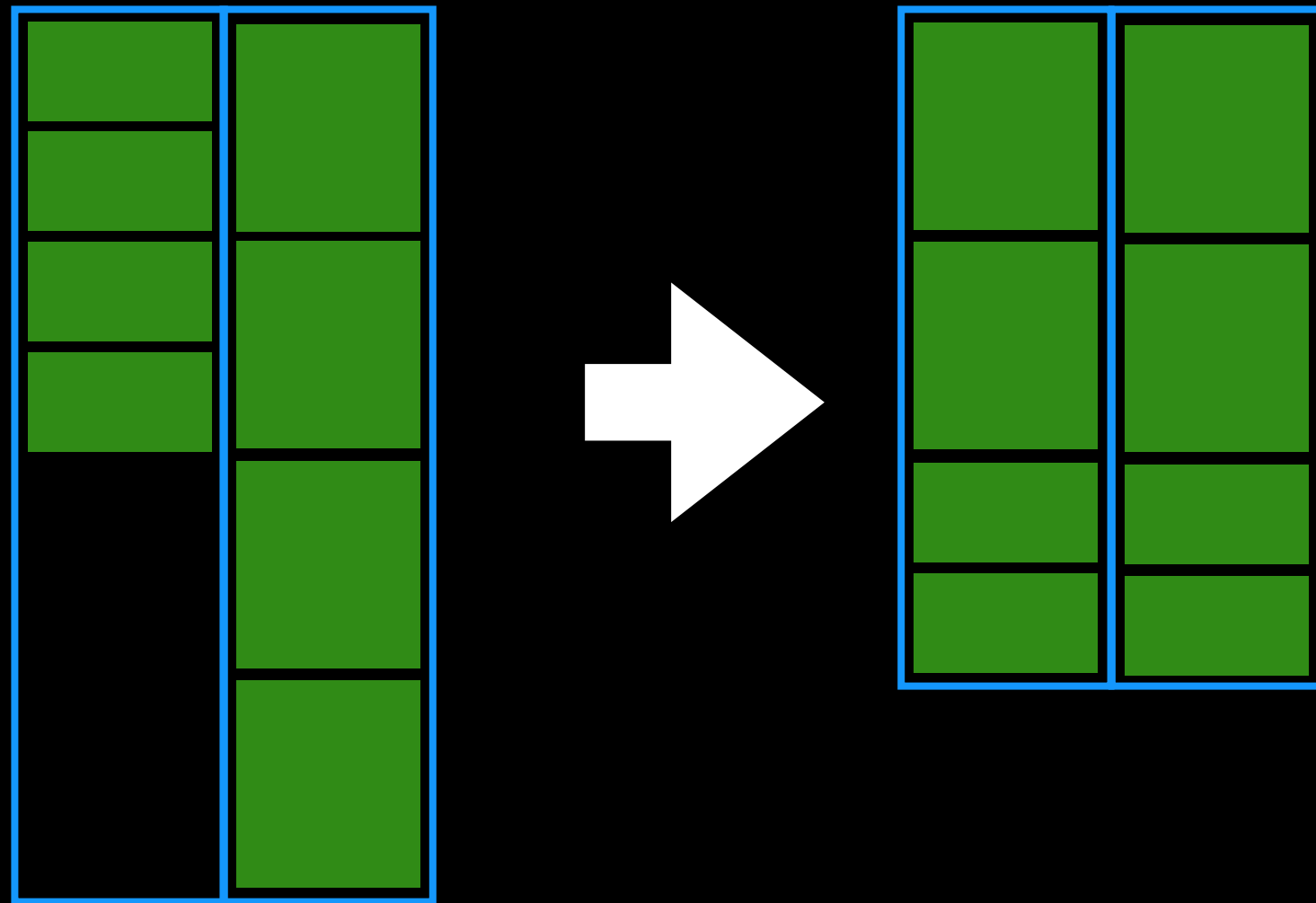
Your build ran 2281 tests with 1 failure

1. circle.backend.model.test-esxi-vm/can-find-builders

expected: (= #{"builder-2" "builder-1"} (vm/builders-using "173.247.206.174")). actual: (not (= #{"builder-2" "builder-1"} #{"builder-1"}))

メールでもUIでもどのテストが失敗したかはすぐ見れる。

テストメタデータ



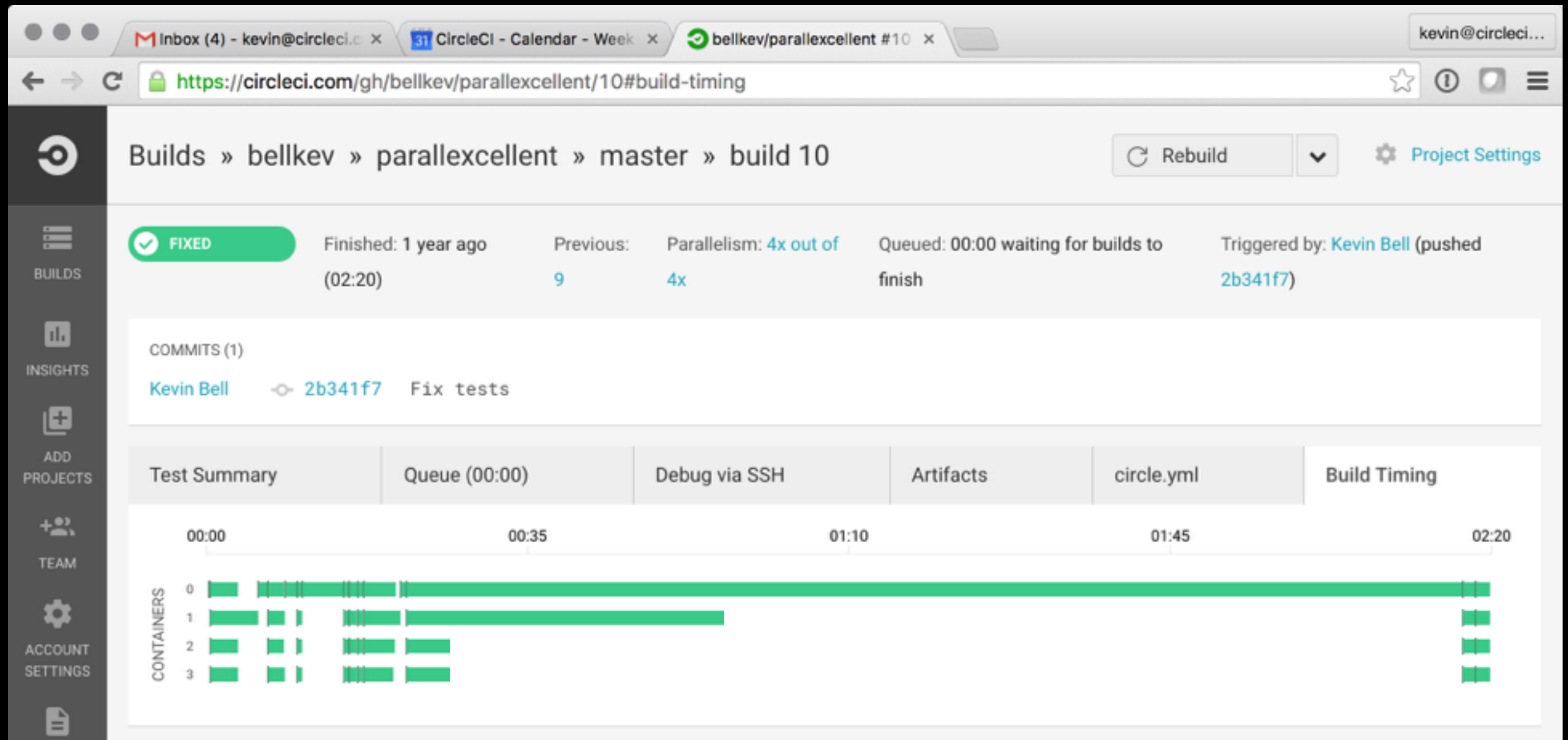
コンテナ



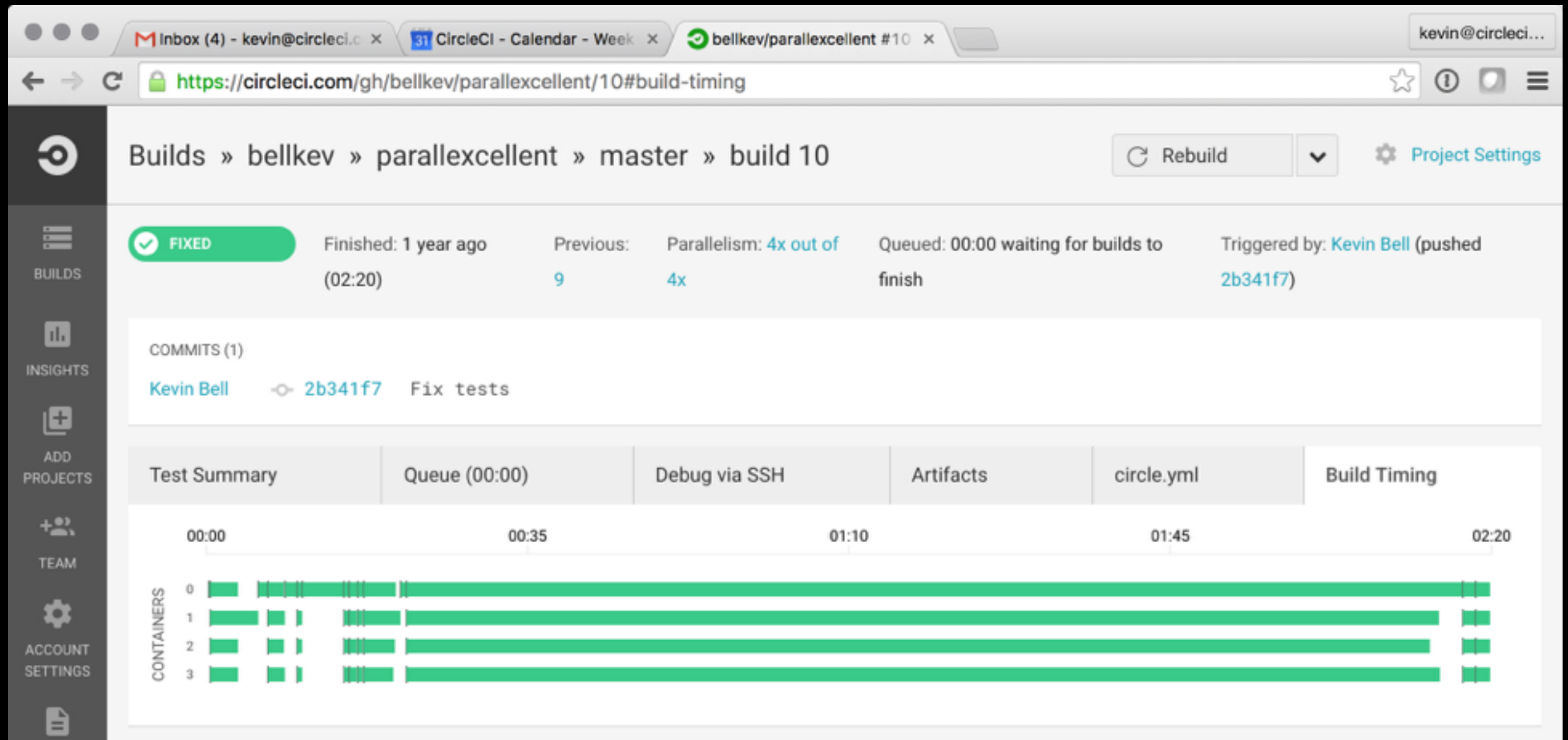
テスト時間

各コンテナでのテスト実行時間が
均等になるようにビルドする。

テストメタデータ



テストメタデータ



社内ネットワークでも

CircleCI が使える

 **circleci** Enterprise

質問は懇親会で

(今日のスライドとドキュメンテーション :

<https://github.com/bellkev/japan-talk>)