



CloudBees Continuous Integration and Test with Appvance Enterprise 7.0.1

August 28, 2013

Frank Cohen, fcohen@appvance.com, (408) 364-5508

The Missing Agile CI Results Database



- Extends CloudBees Jenkins To All Aspects of Testing
 - Functional, Performance, Stress, and Security Tests
- Cloud Records Test of Cloud Apps Without Scripting
- Easy CloudBees Jenkins Test Configuration
- Instant Reports Surface Actionable App Performance Issues
- Multiple CloudBees Builds and Tests Concurrently

Protocols and Test Suite Authoring



- **Web, Ajax, Mobile Apps**
 - Appvance Designer for Record/Playback
 - Scripting in Java, Python, Ruby, PHP
 - Selenium, WebDriver, Sahi
- **SOAP and REST Services**
 - Appvance Service Suite for WSDL, WADL
 - 100% Graphical Environment
- **EMS, BPM, MQ Workflows**
 - TIBCO, IBM, Oracle, JBoss, Mule, SoftwareAG WebMethods
- **Oracle Forms, Apps, WebLogic**



Test Authoring

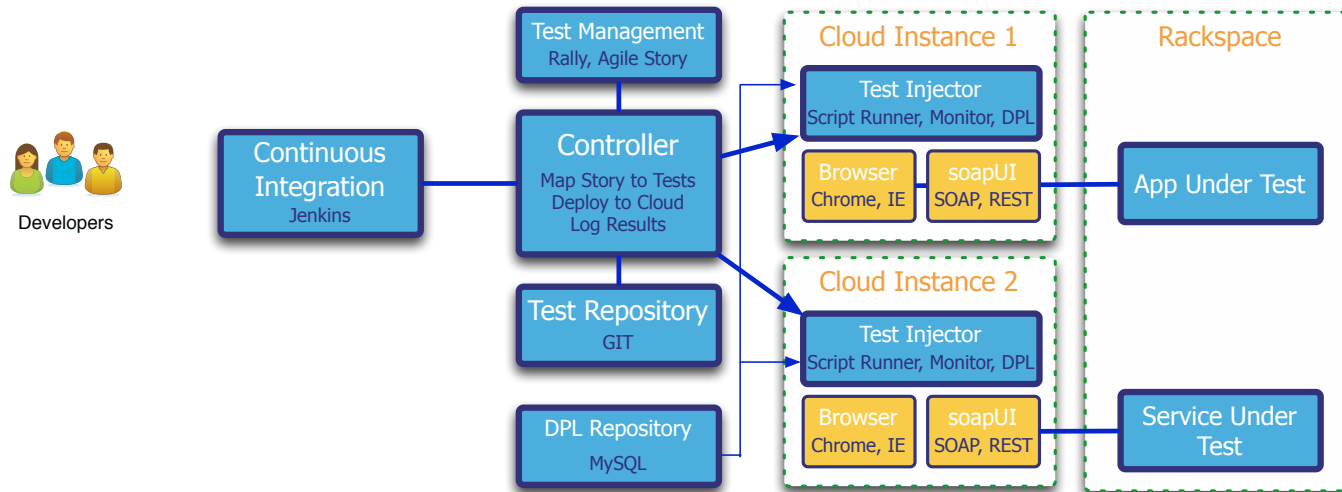
The screenshot displays the Appvance Enterprise v7.0.1 web interface. The browser window shows the URL `localhost:8080/Appvance/start.html`. The page features the Appvance logo and the heading "Start Appvance Enterprise With A Tutorial." Below this, there are three main action buttons: "Record" (with a target icon), "Play" (with a play button icon), and "Analyze" (with a bar chart icon). A "CHOOSE A TUTORIAL" dropdown menu is open, showing four options:

- Web App Test Tutorial**: Record an Ajax app, play it as a functional test, performance test. [START TUTORIAL](#)
- SOAP/REST Test Tutorial**: Create a test suite of a SOAP and REST service, play it as a functional. [START TUTORIAL](#)
- Java JUnit Test Tutorial**: Use your Java skills to build a functional test, performance test. [START TUTORIAL](#)
- Orchestration Test Tutorial**: Data Driven Testing for Webapp and Soap/Rest Tests. [START TUTORIAL](#)

At the bottom of the interface, there is a footer with the text "EXPERT SUITE: Scenario Builder, Designer, Service Suite, Cloud Configuration, Tutorials, Options" and a "Licensed For: Appvance Enterprise 7.0.1: You can use up to 5960 VUM." button. The Safari browser window also shows the system tray with the time "Tue 3:36 PM" and the user name "Frank Cohen".

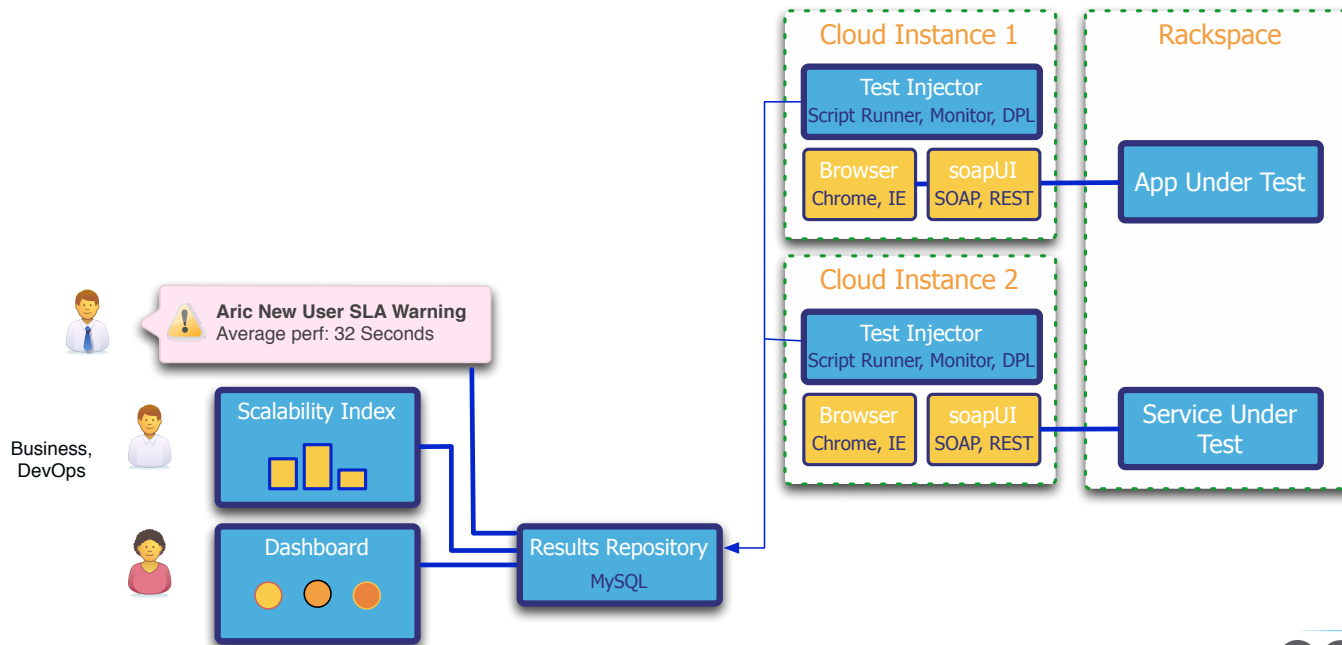
Appvance Enterprise Test Runtime Architecture

- Plug-and-Play To CloudBees Build Services

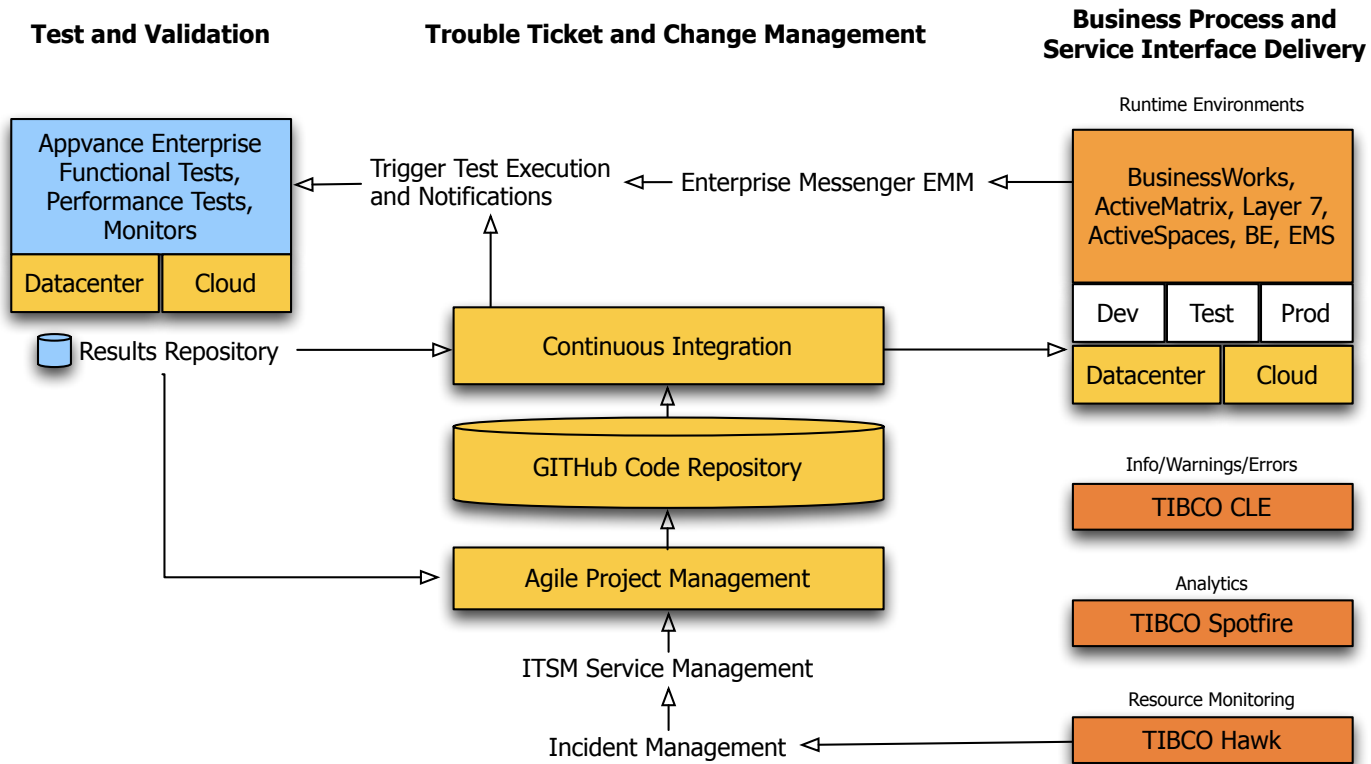


Results Live In The CloudBees Cloud

- Dashboards and Notifications

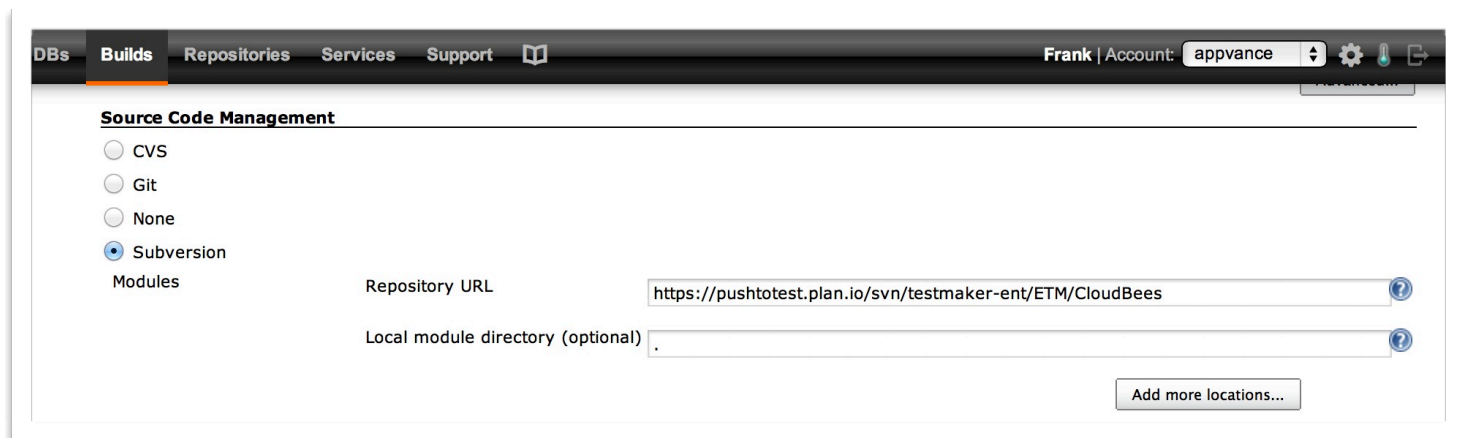


Agile Integration and Performance Architecture



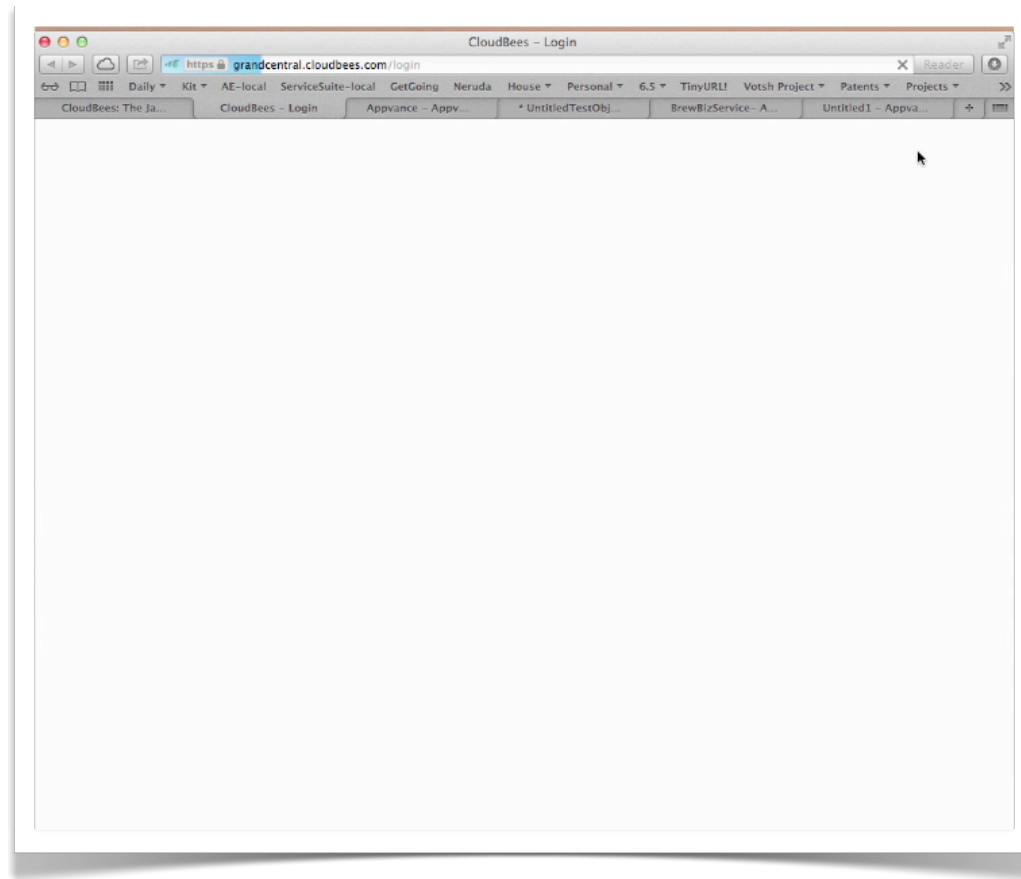
Global Configuration Options

- CloudBees Configuration Requires No Plug-in
- Add To Any Jenkins Build Service



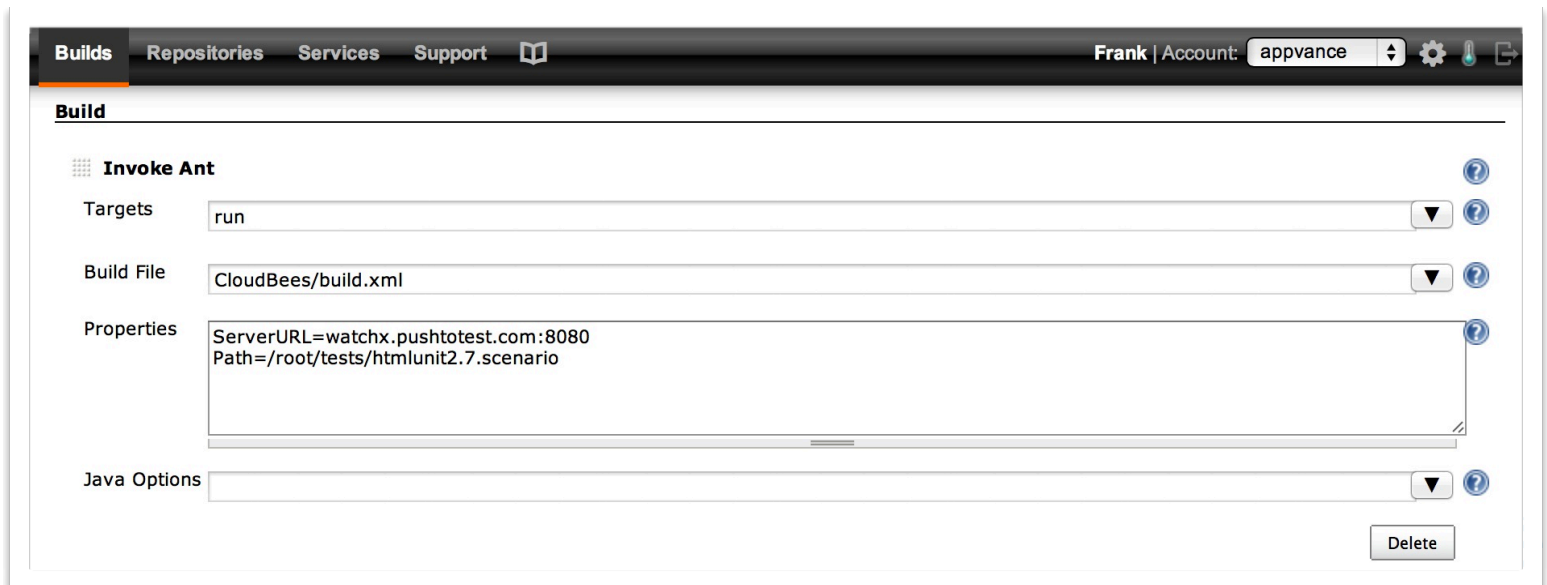
The screenshot shows the Jenkins 'Global Configuration' page, specifically the 'Source Code Management' section. The 'Builds' tab is selected in the top navigation bar. Under 'Source Code Management', the 'Subversion' option is selected with a radio button. Below this, there are two input fields: 'Repository URL' with the value 'https://pushtotest.plan.io/svn/testmaker-ent/ETM/CloudBees' and 'Local module directory (optional)' with the value '.'. A button labeled 'Add more locations...' is located at the bottom right of the configuration area.

CloudBees Jenkins Configuration



Configure Jenkins To Run Tests with Builds

- Ant Target With Multiple Properties
- Add Multiple TestScenarios Instantly



The screenshot shows the Jenkins configuration interface for a build step. The top navigation bar includes 'Builds', 'Repositories', 'Services', and 'Support'. The user is logged in as 'Frank' with the account 'appvance'. The main section is titled 'Build' and contains the following configuration fields:

- Invoke Ant** (with a help icon)
- Targets**: A text input field containing 'run' and a dropdown arrow.
- Build File**: A text input field containing 'CloudBees/build.xml' and a dropdown arrow.
- Properties**: A text area containing 'ServerURL=watchx.pushtotest.com:8080' and 'Path=/root/tests/htmlunit2.7.scenario'.
- Java Options**: A text input field.

A 'Delete' button is located at the bottom right of the configuration area.

Test Operation Appears In Jenkins Log



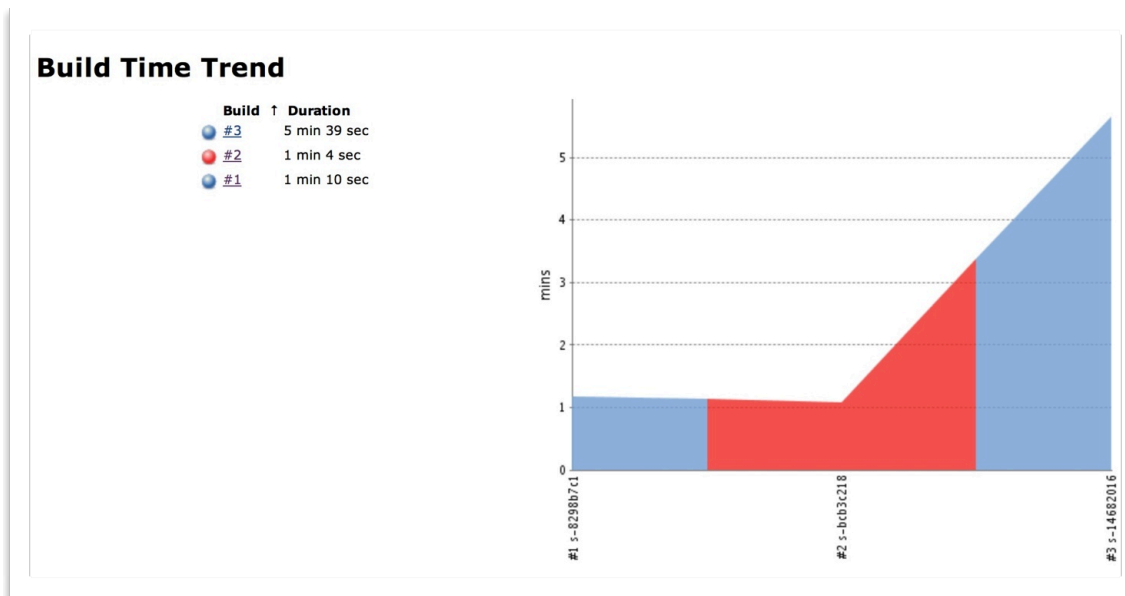
- Click To Results Cloud For Charts and Reports
- Stops Build On Test Failure

```
jar:
run:
[java] Executing /root/tests/htmlunit2.7.scenario
[java] true
[java] The scenario Java Functional Scenario is starting at Thu Jul 04 10:18:10 EDT 2013
[java] Execution ID = 1372947490422
[java] Verifying nodes
[java] Nodes verified.
[java] Sending resources
[java] Nodes loaded
[java] Executing iteration iteration 1 Iterations
[java] Warm up
[java] Recording transactions
[java] No tests completed so far. Remaining 1 transactions.
[java] The iteration has completed
[java] Final Results : 1.(Successes= 1, Failures= 0).
[java] Execution done in 0 minutes
[java] Done.
[java] http://ec2-54-227-2-74.compute-1.amazonaws.com:8080/Appvance/analyze.html?config=-142096579&exeId=1372947490422
BUILD SUCCESSFUL
Total time: 56 seconds
[DEBUG] Skipping watched dependency update; build not configured with trigger: Appvance Cloudbees Plugin #7
Finished: SUCCESS
```

Test Trending from CloudBees



- Shows Test Trends Over Time
- Drill Down Into Root Cause



Results Analysis

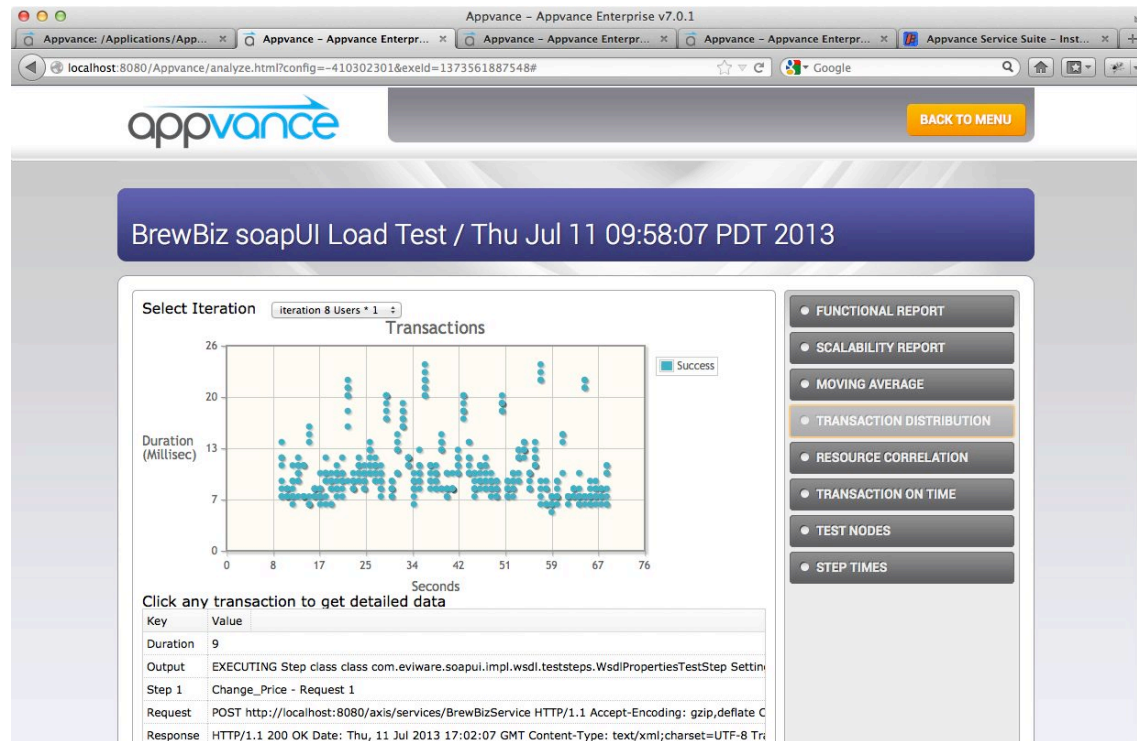
```
CI_Cloudbees_Example #4 Console [Jenkins]
https://appvance.ci.cloudbees.com/job/CI_Cloudbees_Example/4/console
Daily Kit AE-local ServiceSuite-local GetGoing Neruda House Personal 6.5 TinyURL! Votsh Project Patents Projects
CloudBees: The Ja... CI_Cloudbees_Example Appvance - Appv... *UntitledTestObj... BrewBizService-A... Untitled1 - Appva...
CLICKSTART Apps DBS BUMOS REPOSITORIES SERVICES Support
[java] true
[java] The scenario Java Functional Scenario is starting at Tue Jul 16 19:00:40 EDT 2013
[java] Execution ID = 1374015640376
[java] Verifying nodes
[java] Nodes verified.
[java] Sending resources
[java] Nodes loaded
[java] Executing iteration iteration 2 Users * 1
[java] Warm up
[java] Recording transactions
[java] No tests completed so far. Remaining 60 seconds.
[java] Tests completed : 18.(Successes= 18, Failures= 0). Remaining 50 seconds.
[java] Tests completed : 36.(Successes= 36, Failures= 0). Remaining 40 seconds.
[java] Tests completed : 56.(Successes= 56, Failures= 0). Remaining 30 seconds.
[java] Tests completed : 74.(Successes= 74, Failures= 0). Remaining 20 seconds.
[java] Tests completed : 92.(Successes= 92, Failures= 0). Remaining 10 seconds.
[java] Tests completed : 110.(Successes= 110, Failures= 0). Transactions recorded. Tearing down.
[java] The iteration has completed
[java] Final Results : 110.(Successes= 110, Failures= 0).
[java] Executing iteration iteration 4 Users * 1
[java] Warm up
[java] Recording transactions
[java] No tests completed so far. Remaining 60 seconds.
[java] Tests completed : 38.(Successes= 38, Failures= 0). Remaining 50 seconds.
[java] Tests completed : 74.(Successes= 74, Failures= 0). Remaining 40 seconds.
[java] Tests completed : 111.(Successes= 111, Failures= 0). Remaining 30 seconds.
[java] Tests completed : 141.(Successes= 141, Failures= 0). Remaining 20 seconds.
[java] Tests completed : 166.(Successes= 166, Failures= 0). Remaining 10 seconds.
[java] Tests completed : 200.(Successes= 200, Failures= 0). Transactions recorded. Tearing down.
[java] The iteration has completed
[java] Final Results : 200.(Successes= 200, Failures= 0).
[java] Executing iteration iteration 8 Users * 1
[java] Warm up
[java] Recording transactions
[java] No tests completed so far. Remaining 60 seconds.
[java] Tests completed : 74.(Successes= 74, Failures= 0). Remaining 50 seconds.
[java] Tests completed : 142.(Successes= 142, Failures= 0). Remaining 40 seconds.
[java] Tests completed : 212.(Successes= 212, Failures= 0). Remaining 30 seconds.
[java] Tests completed : 288.(Successes= 288, Failures= 0). Remaining 20 seconds.
[java] Tests completed : 360.(Successes= 360, Failures= 0). Remaining 10 seconds.
[java] Tests completed : 435.(Successes= 435, Failures= 0). Transactions recorded. Tearing down.
[java] The iteration has completed
[java] Final Results : 435.(Successes= 435, Failures= 0).
[java] Execution done in 4 minutes
[java] Done.
[java] http://watch.pushdotest.com:8080/Appvance/analyze.html?config=142095579&exeId=1374015640376

BUILD SUCCESSFUL
Total time: 4 minutes 33 seconds
Finished: SUCCESS
```



Results Analysis and Results Repository Viewer

- View all of the use cases operated (transactions) for any test execution, including drill-downs to the request/response level.



Mission Critical App Performance Validation



- 600,000 Testers and Developers
- 3 Million Downloads
- 90% of the Fortune 1000



Are You Ready?



- Add Cloud Testing To Your CloudBees Builds Today
- If It Does Not Drive The Real End-user Experience,
Call Us At (855) 254-1164
Or Email Us Sales@appvance.com

And We Will Show You How

