

프로젝트 모니터 젠킨스 이야기

허광남

kenu@okjsp.pe.kr

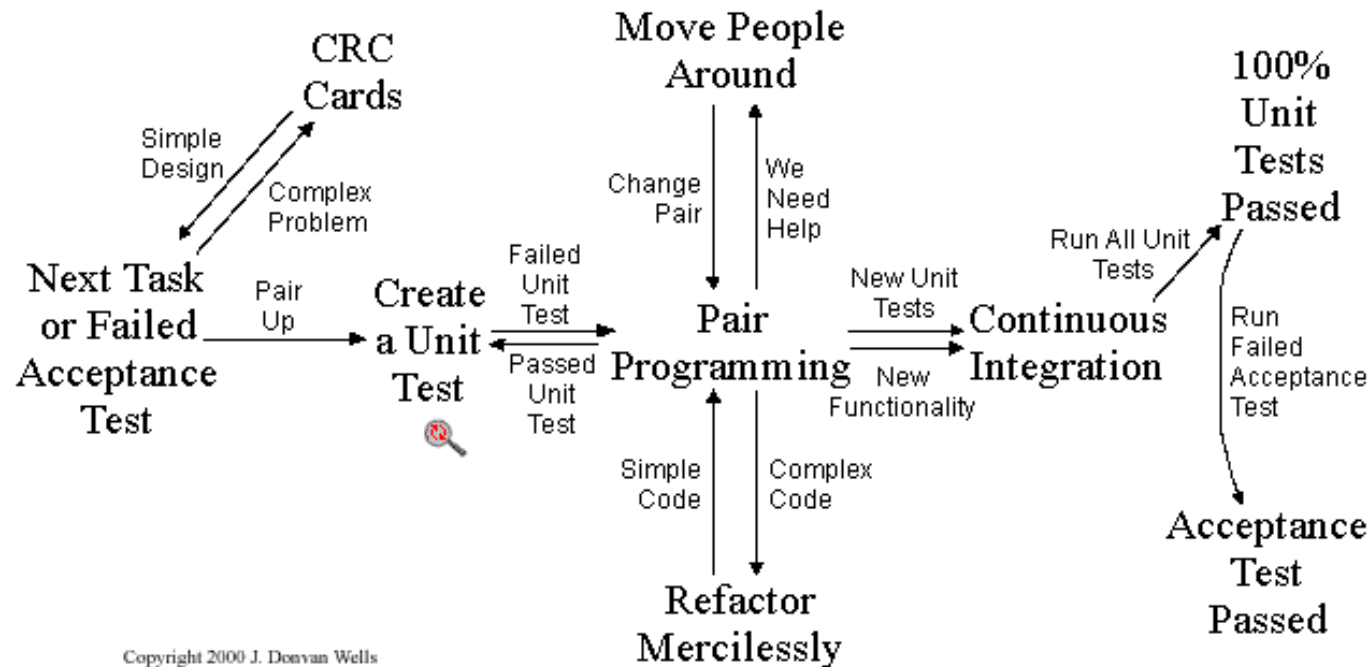
Topic

- 프로젝트 안정적으로
- 지속적인 통합 도구
- 젠킨스
- 활용



Collective Code Ownership

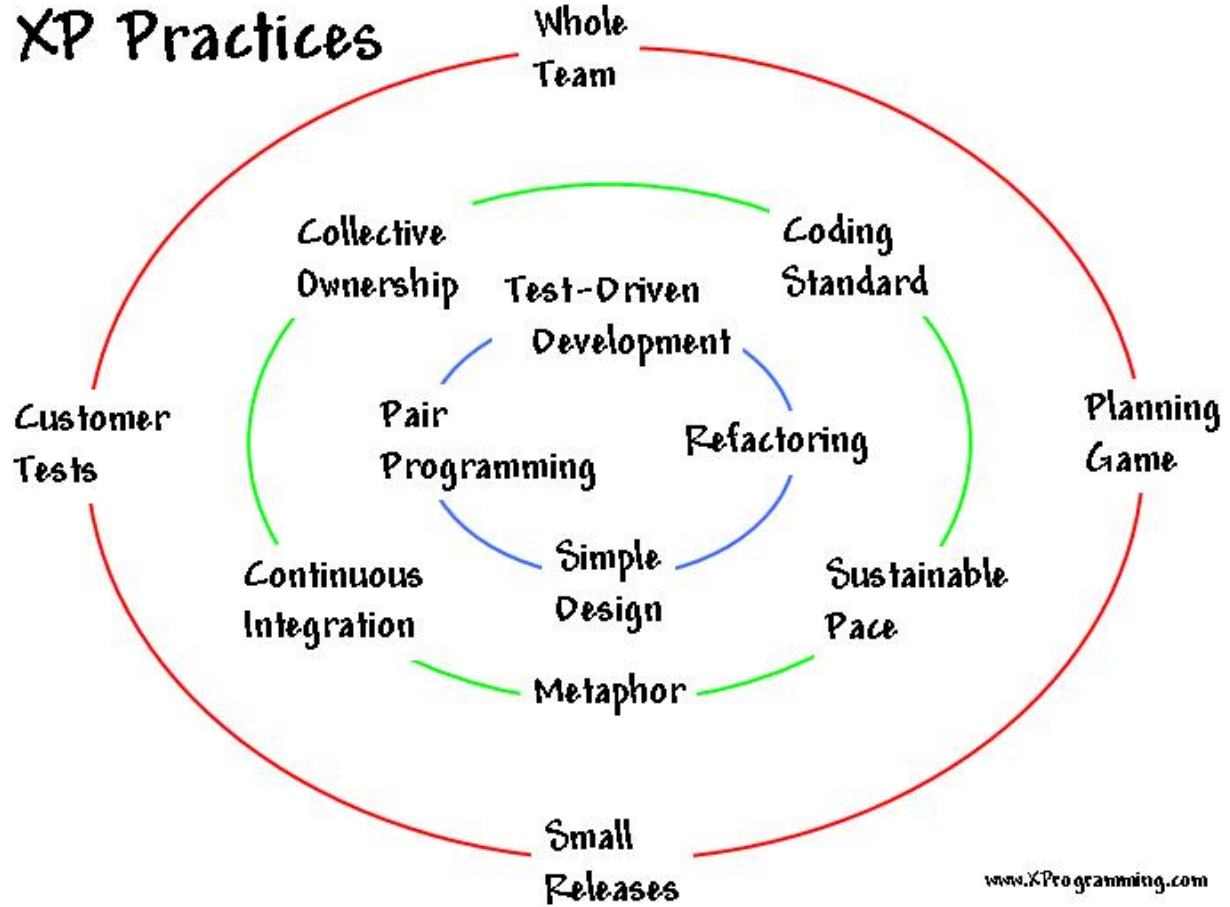
Zoom Out



<http://www.extremeprogramming.org/map/code.html>

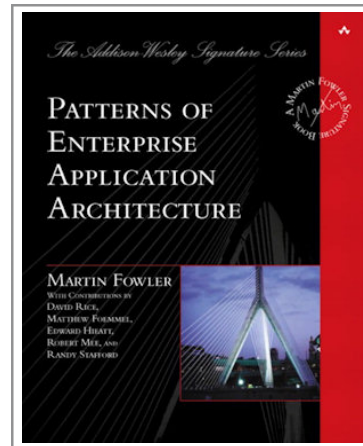
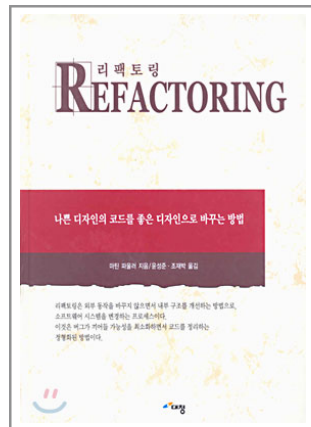
Continuous Integration

XP Practices



<http://xprogramming.com/book/whatisxp/>

Martin Fowler



Continuous Integration

Continuous Integration is a software development practice where members of a team integrate their work frequently, usually each person integrates at least daily - leading to multiple integrations per day. Each integration is verified by an automated build (including test) to detect integration errors as quickly as possible. Many teams find that this approach leads to significantly reduced integration problems and allows a team to develop cohesive software more rapidly. This article is a quick overview of Continuous Integration summarizing the technique and its current usage.

01 May 2006



Martin Fowler

Translations: [Portuguese](#) [Chinese](#)
[Korean](#) [French](#) [Chinese](#)

Tags: [popular](#) · [agile](#) · [delivery](#) ·
[extreme programming](#) · [continuous integration](#)

For more information on this, and related topics, take a look at my [guide page](#) for delivery.

[ThoughtWorks](#), my employer, offers

Contents

- [Building a Feature with Continuous Integration](#)
- [Practices of Continuous Integration](#)
 - [Maintain a Single Source Repository.](#)
 - [Automate the Build](#)
 - [Make Your Build Self-Testing](#)
 - [Everyone Commits To the Mainline Every Day](#)
 - [Every Commit Should Build the Mainline on an Integration Machine](#)
 - [Keep the Build Fast](#)
 - [Test in a Clone of the Production Environment](#)
 - [Make it Easy for Anyone to Get the Latest Executable](#)
 - [Everyone can see what's happening](#)
 - [Automate Deployment](#)
- [Benefits of Continuous Integration](#)
- [Introducing Continuous Integration](#)
- [Final Thoughts](#)



Jenkins

An extendable open source continuous integration server

- BLOG
- CONNECT
- BUG TRACKER
- WIKI
- CI
- TUTORIALS
- ARCHIVES
- DONATION
- ABOUT



Join us at the **Jenkins User Conference** in Paris (4/17) and New York (5/17)



Meet Jenkins

Find out what Jenkins is and get started.



Use Jenkins

See how to get more out of your Jenkins.



Customize Jenkins

Download Jenkins

- Release
- Long-Term Support Release

Java Web Archive (.war)
Latest and greatest (1.460)
changelog | past releases | RC

upgrading from Hudson?

Or native package

- Windows
- Ubuntu/Debian
- Red Hat/Fedora/CentOS
- Mac OS X
- openSUSE

2004 Summer

- I broke one too many builds
- Wouldn't it be nice if ...?



from: jenkinsuserconference2011.pptx

And so it began

- build.sh

```
#!/bin/bash -ex  
exec 2>&1  
cd /files/jaxb-ri  
cvs update  
ant
```

- monitor.sh

```
#!/bin/bash -ex  
build.sh > build.log || mail ...
```

- Run from cron

from: jenkinsuserconference2011.pptx

Then I wrote my version

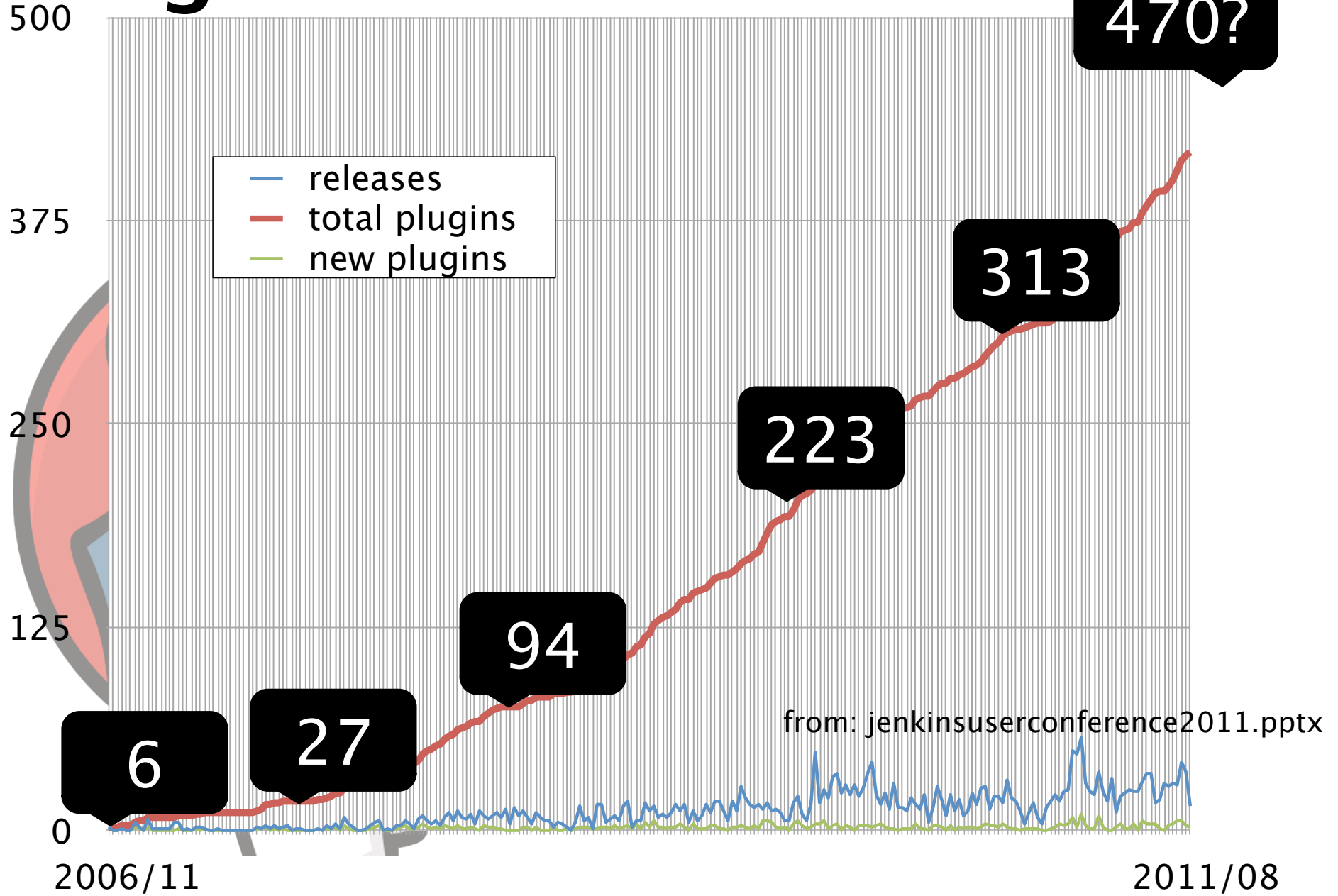
The screenshot shows the Jenkins web interface in a Mozilla Firefox browser window. The page title is "Hudson" and the URL is "http://kohlsuke.sfbay/hudson/". The interface features a green header with the "Hudson" logo and a "New Job" button. Below the header, there are sections for "Build Queue" and "Build Executor Status". The main content area displays a table of jobs with their last success and failure times.

Job	Last Success	Last Failure	Last Duration
java.net cvs keep-alive	25 minutes (#389)	N/A	1 seconds
java.net log processor (daily)	8 hours (#4)	N/A	1 minutes
java.net log processor (weekly)	4 days (#1)	N/A	4 minutes
java.net mail automation	2 hours (#20)	N/A	0 seconds
java.net version check	20 minutes (#319)	6 days (#160)	3 seconds
javadoc	10 hours (#19)	1 days (#18)	11 minutes
jax-fast	30 minutes (#354)	1 days (#335)	9 minutes
jax-fast-2.0	1 hours (#134)	36 minutes (#135)	8 minutes
jaxb-ri	43 minutes (#396)	1 hours (#393)	6 minutes
msv nightly	19 hours (#9)	N/A	15 minutes
stapler	7 days (#39)	9 days (#38)	17 seconds
txw	7 days (#9)	7 days (#6)	44 seconds
xsom	10 days (#6)	N/A	1 minutes

At the bottom of the table, there are two buttons: "ATOM 0.2 for all" and "ATOM 0.2 for failures".

from: jenkinsuserconference2011.pptx

Plugin Growth



2011 Jan: Divorce

- Oracle: “you do it our way or highway”
- Community chose highway: 214 to 14
 - That’s when we became Jenkins



from: jenkinsuserconference2011.pptx

Hudson to Jenkins

The screenshot shows a web browser window with the URL www.infoq.com/news/2011/01/hudson-jenkins. The page features the InfoQ logo, navigation links for various topics like Development, Architecture & Design, and Process & Practices, and a sidebar with educational content. The main article is titled "Hudson Project Proposes Renaming to Jenkins" and is dated January 12, 2011, by Alex Blewitt. The article discusses the challenges of trademarking the name Hudson and the decision to rename it to Jenkins.

Facilitating the spread of knowledge and innovation in enterprise software development

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Hudson Project Proposes Renaming to Jenkins

Posted by Alex Blewitt on Jan 12, 2011
Sections [Operations & Infrastructure](#), [Process & Practices](#), [Development](#) Topics [FEATURED](#) [Java](#), [Languages](#), [Build systems](#), [Programming](#), [Hudson](#), [Jenkins](#)
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As reported [last year](#), Hudson moved away from Oracle's hardware for mailing and source code owing to repeated problems with [java.net infrastructure](#). The code was moved to GitHub and a new set of mailing lists were created.

However, that wasn't the only challenge. Oracle had [applied for the Hudson trademark](#) on October 29th, when the developers were in progress of moving the code off to GitHub. Although this trademark hasn't been awarded yet, if it were, it would prevent the open-source project from using its own name, something that was [previously observed](#):

You need to fork. You (the Hudson developer community) do not own your own trademark. Today it's being used to make infrastructure decisions, tomorrow you won't be allowed to have a Hudson Barcamp because it competes with an Oracle conference, and you'll receive a legal letter when you create that cool t-shirt.

Although Oracle have granted the use of Hudson for past binaries, they aren't able to guarantee a non-exclusive perpetual license to use the name which puts the ability of the Hudson project to use it subsequently. As a result, in a post entitled [Hudson's future](#), the Hudson project members now know that they cannot use the Hudson name going forward.

But one issue, which we feel is the most significant issue of all, one for which we now believe no resolution is possible: the rights to the name Hudson.

[www.infoq.com/contribute](#) project now is to rename it, in order to free it

QCon
New York 2012
June 18th - June 22nd

Educational Content

[Adapting UX Techniques to Fit Culture](#)
Sedef Gavaz discusses the importance of adapting UX techniques used to the target audience, organization and culture, sharing lessons learned while working in China. Sedef Gavaz Apr 20, 2012

[The Evolving Panorama of Data](#)
Martin Fowler and Rebecca Parsons discuss how data has changed over the years, what is IT's response to this change, and how data is used by organizations these days. Martin Fowler and Rebecca Parsons Apr 13, 2012

All Articles Presentations Interviews Books

Your Java code is slow. Make it fast.

Different stat, same story

Twitter



About @jenkinsci

3,235

Tweets

92

Following

4,826

Followers

403

Listed



About @hudsonci

175

Tweets

28

Following

593

Followers

34

Listed

OKJSP with Jenkins

Dashboard [Jenkins] x okjsp/okjsp-site x

← → ↻ **GitHub, Inc. [US]** <https://github.com/okjsp/okjsp-site> G ☆ ⚙️ 🔑

github Search... ⚙️ Explore Gist Blog Help kenu 📄 🗨️ ✂️ 📄

😊 **okjsp / okjsp-site** Admin Unwatch Fork Pull Request 👁️ 49 📄 23

Code Network Pull Requests 0 Issues 5 Wiki 2 Stats & Graphs

okjsp.pe.kr site — [Read more](#)
<http://www.okjsp.pe.kr>

🍏 Clone in Mac ZIP SSH HTTP Git Read-Only 📄 Read-Only access

📁 branch: master ▾ Files Commits Branches 2 Tags Downloads

🕒 Latest commit to the **master** branch

OKJSP 64번째 소식지
 📄 kenu authored 3 days ago 📄 commit a2c7e52fa2

okjsp-site /

name	age	message	history
📁 .settings	4 months ago	remove bannerData.js [kenu]	
📁 conf	10 months ago	comment for DB.properties [kenu]	
📁 docs	10 months ago	delete all .cvsignore [kenu]	
📁 src	6 days ago	log ad click [kenu]	
📁 test	6 days ago	log ad click [kenu]	
📁 web	3 days ago	OKJSP 64번째 소식지 [kenu]	

Source Code Management

Source Code Management

- None
- CVS
- Subversion
- Git

Repositories

URL of repository



Name of repository (blank to create default)

Refspec (blank to create default)

Delete Repository

Add

Branches to build

Branch Specifier (blank for default):



Delete Branch

Add

- [Back to Dashboard](#)
- [Status](#)
- [Changes](#)
- [FindBugs Warnings](#)
- [Javadoc](#)

Project okjsp-site

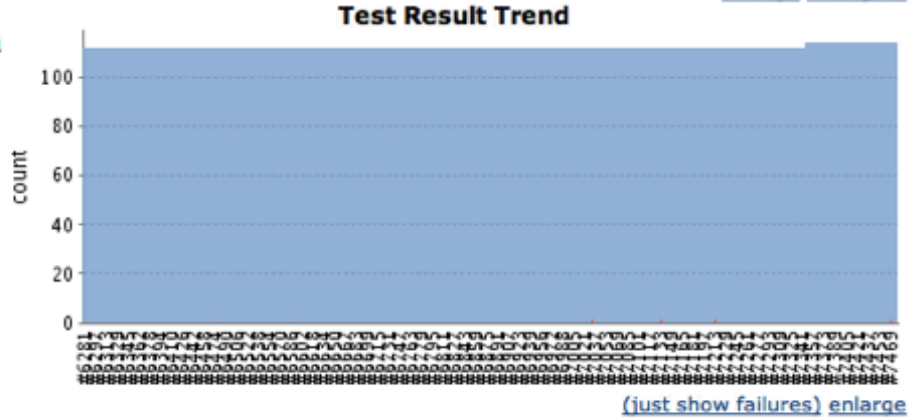
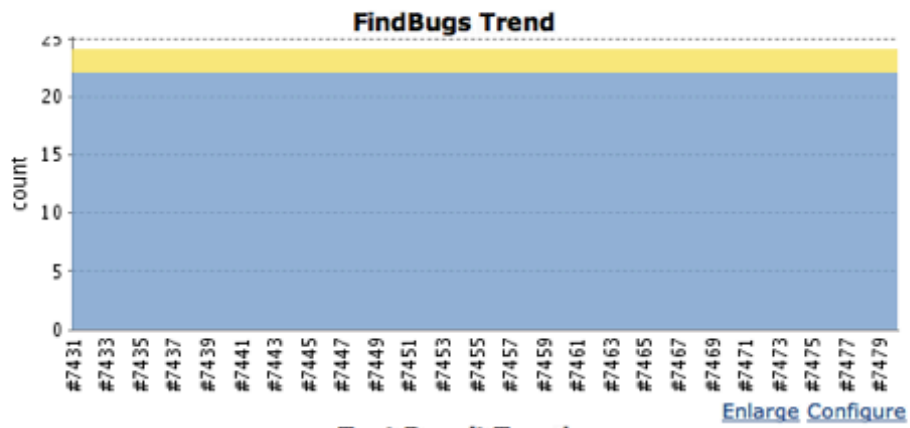
- [Javadoc](#)
- [Recent Changes](#)
- [Latest Test Result \(no failures\)](#)

Build History (trend)

#7481	2012. 4. 23 오전 10:01:43
#7480	2012. 4. 23 오전 9:01:43
#7479	2012. 4. 23 오전 8:01:43
#7478	2012. 4. 23 오전 7:01:43
#7477	2012. 4. 23 오전 6:01:43
#7476	2012. 4. 23 오전 5:01:43
#7475	2012. 4. 23 오전 4:01:43
#7474	2012. 4. 23 오전 3:01:43
#7473	2012. 4. 23 오전 2:01:43
#7472	2012. 4. 23 오전 1:01:43
#7471	2012. 4. 23 오전 12:01:43
#7470	2012. 4. 22 오후 11:01:43
#7469	2012. 4. 22 오후 10:01:43
#7468	2012. 4. 22 오후 9:01:43
#7467	2012. 4. 22 오후 8:01:43
#7466	2012. 4. 22 오후 7:01:43
#7465	2012. 4. 22 오후 6:01:43
#7464	2012. 4. 22 오후 5:01:43

Permalinks

- [Last build \(#7481\), 57 sec ago](#)
- [Last stable build \(#7480\), 1 hr 0 min ago](#)
- [Last successful build \(#7480\), 1 hr 0 min ago](#)
- [Last failed build \(#7004\), 19 days ago](#)
- [Last unstable build \(#7472\), 9 hr 0 min ago](#)
- [Last unsuccessful build \(#7472\), 9 hr 0 min ago](#)



Jenkins » okjsp-site 자동 재실행 켜기

- [Back to Dashboard](#)
- [Status](#)
- [Changes](#)
- [Workspace](#)
- [Build Now](#)
- [Delete Project](#)
- [Configure](#)
- [FindBugs Warnings](#)
- [Javadoc](#)

Project okjsp-site

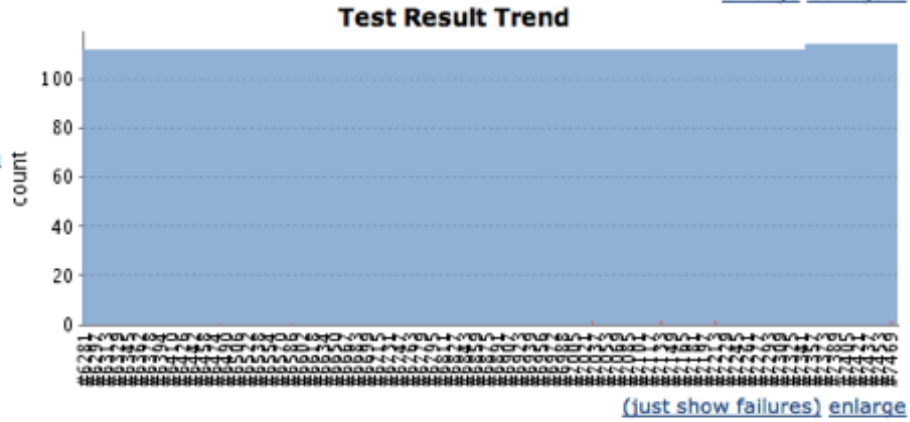
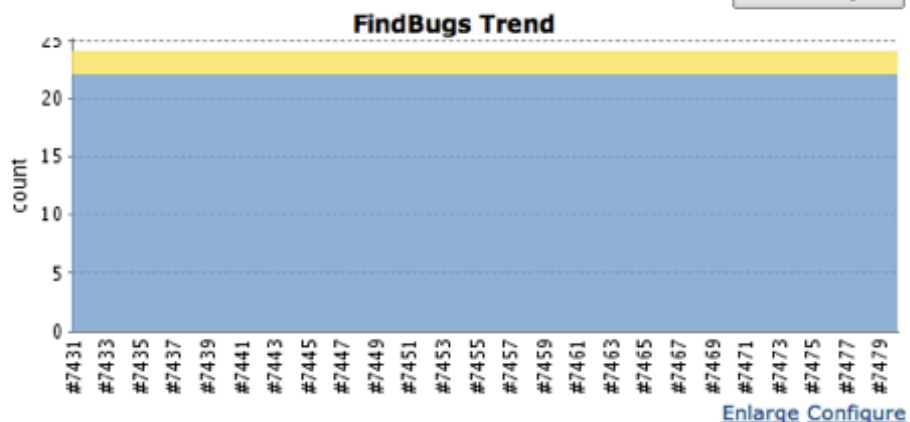
- [Javadoc](#)
- [Workspace](#)
- [Recent Changes](#)
- [Latest Test Result \(no failures\)](#)

[소개 내용 입력](#)
Disable Project

Build History (trend)
#7481 2012. 4. 23 오전 10:01:43
#7480 2012. 4. 23 오전 9:01:43
#7479 2012. 4. 23 오전 8:01:43
#7478 2012. 4. 23 오전 7:01:43
#7477 2012. 4. 23 오전 6:01:43
#7476 2012. 4. 23 오전 5:01:43
#7475 2012. 4. 23 오전 4:01:43
#7474 2012. 4. 23 오전 3:01:43
#7473 2012. 4. 23 오전 2:01:43
#7472 2012. 4. 23 오전 1:01:43
#7471 2012. 4. 23 오전 12:01:43

Permalinks

- [Last build \(#7481\), 1 min 45 sec ago](#)
- [Last stable build \(#7480\), 1 hr 1 min ago](#)
- [Last successful build \(#7480\), 1 hr 1 min ago](#)
- [Last failed build \(#7004\), 19 days ago](#)
- [Last unstable build \(#7472\), 9 hr 1 min ago](#)
- [Last unsuccessful build \(#7472\), 9 hr 1 min ago](#)



- 프로젝트로 돌아가기
- 상태
- 변경사항
- 콘솔 출력
- Edit Build Information
- Git Build Data
- FindBugs Warnings
- Test Result
- 이전 빌드
- Next Build

빌드 #7472 (2012. 4. 23 오전 1:01:43)

Keep this build forever

이 빌드를 삭제

소개 내용 입력

9 hr 1 min 전에 시작됨
접근 2 min 31 sec



No changes.

Started by timer

Revision: a2c7e52fa28e7992cf682b475c7b795665fb6b95

- origin/master

FindBugs: [24 warnings](#) from one FindBugs analysis.

Test Result (2 failures / +2)
[kr.pe.okjsp.ArticleDaoTest.testGetSeq](#)
[kr.pe.okjsp.ArticleDaoTest.testGetSeq](#)



- 프로젝트로 돌아가기
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- FindBugs Warnings
- Test Result
- Previous Build
- Next Build

Regression

kr.pe.okjsp.ArticleDaoTest.testGetSeq

Failing for the past 1 build (Since #7472)
 Took 0.47 sec.
[소개 내용 입력](#)

Error Message

Cannot create PoolableConnectionFactory (Cannot communicate with the broker or received invalid packet)

Stacktrace

```
org.apache.commons.dbcp.SQLNestedException: Cannot create PoolableConnectionFactory (Cannot communicate with the broker or received invalid packet)
    at org.apache.commons.dbcp.BasicDataSource.createDataSource(BasicDataSource.java:855)
    at org.apache.commons.dbcp.BasicDataSource.getConnection(BasicDataSource.java:540)
    at kr.pe.okjsp.util.DbCon.getConnection(DbCon.java:47)
    at kr.pe.okjsp.ArticleDaoTest.testGetSeq(ArticleDaoTest.java:11)
Caused by: cubrid.jdbc.driver.CUBRIDException: Cannot communicate with the broker or received invalid packet
    at cubrid.jdbc.jci.UConnection.<init>(UConnection.java:210)
    at cubrid.jdbc.jci.UJCIManager.connect(UJCIManager.java:81)
    at cubrid.jdbc.driver.CUBRIDDriver.connect(CUBRIDDriver.java:205)
    at org.apache.commons.dbcp.DriverConnectionFactory.createConnection(DriverConnectionFactory.java:37)
    at org.apache.commons.dbcp.PoolableConnectionFactory.makeObject(PoolableConnectionFactory.java:290)
    at org.apache.commons.dbcp.BasicDataSource.validateConnectionFactory(BasicDataSource.java:877)
    at org.apache.commons.dbcp.BasicDataSource.createDataSource(BasicDataSource.java:851)
```

Standard Output

```
-----
* DataBase Info *
DRIVER : cubrid.jdbc.driver.CUBRIDDriver
DBURL : jdbc:cubrid:localhost:33000:db_kenu::
DBUSER : db_kenu
-----
```



- 프로젝트로 돌아가기
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[소개 내용 입력](#)

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    at cubrid.jdbc.jci.UJCIManager.connect(UJCIManager.java:81)
    at cubrid.jdbc.driver.CUBRIDDriver.connect(CUBRIDDriver.java:205)
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    at org.apache.commons.dbcp.BasicDataSource.validateConnectionFactory(BasicDataSource.java:877)
    at org.apache.commons.dbcp.BasicDataSource.createDataSource(BasicDataSource.java:851)
```

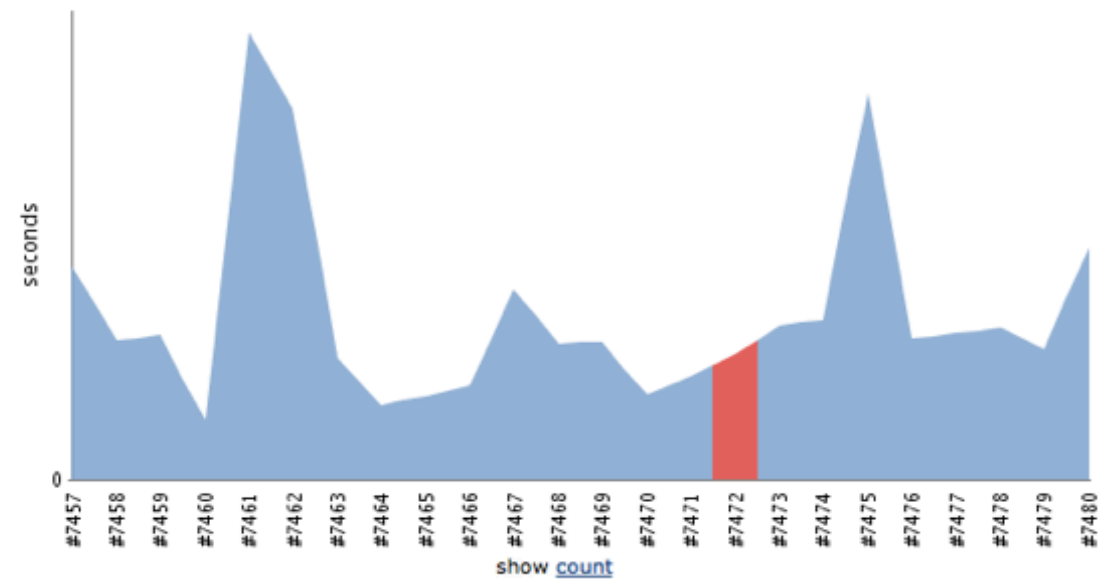
Standard Output

```
-----
* DataBase Info *
DRIVER : cubrid.jdbc.driver.CUBRIDDriver
DBURL : jdbc:cubrid:localhost:33000:db_kenu::
DBUSER : db_kenu
-----
```



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- [상태](#)
- [변경사항](#)
- [문출 출력](#)
- [Edit Build Information](#)
- History**
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- [FindBugs Warnings](#)
- [Test Result](#)
- [Previous Build](#)
- [Next Build](#)

History for testGetSeq



Build	Test Description	Test Duration	Test Result
okjsp-site #7480		0.87 sec	Passed
okjsp-site #7479		0.48 sec	Passed
okjsp-site #7478		0.57 sec	Passed
okjsp-site #7477		0.55 sec	Passed
okjsp-site #7476		0.53 sec	Passed
okjsp-site #7475		1.4 sec	Passed
okjsp-site #7474		0.6 sec	Passed
okjsp-site #7473		0.58 sec	Fixed
okjsp-site #7472		0.47 sec	Regression
okjsp-site #7471		0.38 sec	Passed
okjsp-site #7470		0.32 sec	Passed
okjsp-site #7469		0.51 sec	Passed
okjsp-site #7468		0.51 sec	Passed

감사합니다

참고자료

- <http://jenkins-ci.org/>
- <http://www.cloudbees.com/jenkins-user-conference-2011.cb>
- <http://okjsp.tistory.com/hudson/>