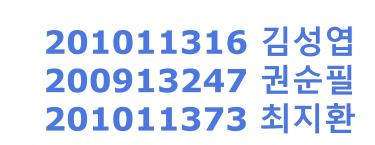
CTIP Environment



• • • • • • • • •

Index

- Revision control
- Bug-tracker
- CTIP

Revision Control

- Version control
- Source code control
- Manage changes to documents

• • • • •

- Documentations
- Configuration files
- Source code

Well Known Softwares

- CVS (1990)
 - A matured system
 - No further development until requested or needed
- Apache SVN (2000)
 - Aims to succeed CVS
 - Some unsolved issues such as directory renaming
- Mercurial (2005)
 - Favors Windows over Unix
- Git (2005)
 - Favors Unix over Windows

• • • • • •

Git (1/2)

- Distributed revision control
 - Can restore when files lost in master
 - History kept also in local computer
- Fast
 - Larger the scale of project more the efficiency
 - Unless when adding a new file
- Most works done in offline

Git (2/2)

- Open community
 - Github : anybody can contribute to the project

•

- Takes less storage space
- Low learning curve
 - Many 3rd party softwares

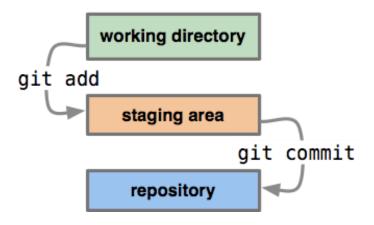
• • •

- Supports branching
 - Explained later

Git Staging

- In-between layer
- Only selected files are committed

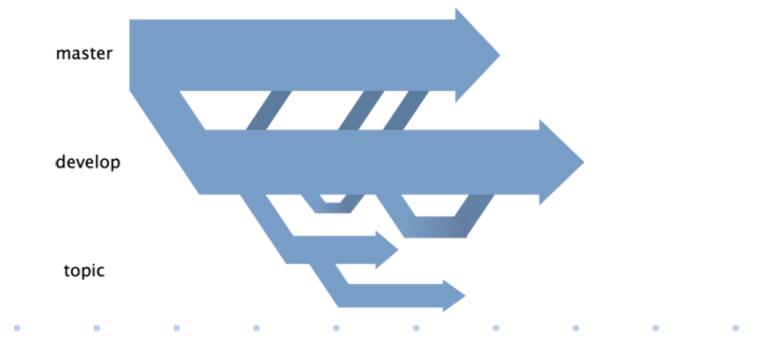
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Git Branching

 Independent 'working space' for different purposes



Git Installation

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	Ľ.			Search Recent Popular Installed 🖓 March 03/26
🏠 Project Explorer 🛛 📄 🕏 🗸	0	Help Contents		Find: egit All Markets All Categories
	22	Search		EGit - Git Team Provider 3.7.0
⊳ 🚰 test	~	Dynamic Help		EGIt is an Eclipse Team provider for the Git version control system. Git is a distributed SCM, which means every developer has a full copy of all history of every more info by Eclipse.org. EPL
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		Tips and Tricks		Eclipse Gitblit
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Can be downloaded from Eclipse Market

Setting Up Git

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		Create a New Git Repository	
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		Repository directory: C:#Users#김성엽#workspace#test	Brows
		Create as bare repository	
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	eate a new local Git repository		
			Finish Cancel
			Cancer

Initialize Git in project

Git Staging

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	Apply Patch	2	Export	
÷	Add to Index		Refresh	F5
¢	Remove from Index		Assign Working Sets	
8	Ignore		Debug As	
ð	Show in History		Run As	
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Ø.	Show Annotations		Team	

Setting Up Git

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Þ	Fetch from Upstream		Open Type Hierarchy	F4
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Commit me	essage			🍇 🆻 🔓 🗸
© commit co	intents			
Author:	김성엽 <김성엽@169.254.124.123	>		
Committer:	김성엽 <김성엽@169.254.124.123	>		
Files (1/5)				2
type filter t	ext			
Status	Path			
	src/test/test.java .classpath .project .settings/org.eclipse.jdt.core.prefs bin/.gitignore			
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How to Setting Git

A

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branch

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Branch name:	sung	
🔲 Configure (upstream for push and pull	
-When do	ing a pull	
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Rebas	e commits of local branch onto upstream	
Checkout n	iew branch	
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Git Pulling

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[]	Show in Repositories View		Validate	
1-1	Disconnect		Team	•
_		_	Compare With	•

Pull = fetch + merge

•

Creating Repo in GitHub

GitHub Search GitHub

Explore Features Enterprise Blog

Sign up Sign in

Build software better, together.

Powerful collaboration, code review, and code management for open source and private projects. Need private repositories? Upgraded plans start at \$7/mo.

Your email

Create a password

Use at least one lowercase letter, one numeral, and seven characters.

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our terms of service and privacy policy. We will send you account related emails occasionally.

<u>http://github.com</u>에 들어가서 회원가입

Creating Repo in GitHub

Ç	Search GitHub		Explore Gist B	log Help	🔀 kimsungyup	++	\$	G
		Owner Repositor	y name	~				
		Great repository names are short and pescription (optional)	nemorable. Need inspiration	? How about furry-octo-hipster.				
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		Private You choose who can see and cor						
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		Create repository						
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Connect GitHub to Project

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We recommend every repository include a README, LICENSE, and .gitignore.	
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Connect GitHub to Project

stination Git R	of the destination repository.	1	📮 kimsungyup / test		③ Unwatch ▼ 1	★ Star 0 ¥ Fork
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Por <u>t</u> :			Help people interested in this repository understand	I your project by adding a README!	爾 Add a README	X Settings
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						🖉 Clone in Desk
2)	< Back Next > Finish	Cancel				🗘 Download Zi

Bug Tracker

- Clear centeralized overview of development requests
 - Bugs and improvements

• • • • •

 Reports on the productivity of programmers at fixing bugs

Could be inaccurate

Well Known Softwares

- Mantis (2000)
 - Easy to setup
 - Bad user interface
- Jira (2002)
 - Wide coverage of features
 - Steep learning curve, Not free
- Redmine (2006)
 - Good UI

- Discontinued since Feb 2015
- Still better than Chili developed by Redmine developers

• • • • • • • •

Redmine

- Manage multiple projects
- Per-project wikis and forums
- Time tracking
- Flexible role-based access control
- Core developers left to Chili yet Redmine is better
- Web-based

- Works well with Git
 - and many other version control systems

• • • • • •

Redmine Installation

bitnami

Applications Cloud

Support What is Bitnami? Log in Create Free Account



Bitnami Redmine Stack provides a one-click install solution for Redmine. Download installers and virtual machines or run your own Redmine server in the cloud.

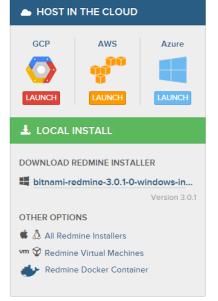
Redmine is a very popular Rails-based open source bug tracker to help you manage issues and tasks for multiple projects. It is extremely flexible, features a built-in wiki, time tracking, custom fields, role-based access, SCM integration (including git), and support for multiple projects. Redmine has many of the same features you'd find in an enterprise bug tracking system, but of course it's open source and completely free software. Redmine has an clean interface that makes it easy to define your first project and get started.

Redmine Features

With Redmine, you can define multiple projects and track issues on each project independently. Users can have different roles on each project and Redmine also supports custom issue types and workflows. The interface is easy to use and activity feeds ensures that users are always up-to-date on issue status changes. Finally, Redmine is easily customizable with plugins freely available in the Redmine Plugin Directory.

Distance in the standard of th

https://bitnami.com/stack/redmine



Redmine Installation

	Please select the	installation language
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	OK	Cancel
^실치		
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BitRock Installer

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Redmine Installation

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Redmine Main

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Powered by BitNami R	edmine Stack © 2005-2013 Jean-Philippe Lang	
IR	·····································	6 - 9 100% -

Redmine Overview

Home My page Projects Help	Logged
JaGoSI	Search:
	News Documents Wiki Files Repository
Overview	
Java GForge SOAP Interface • Subprojects: GForge	A Members
🍳 Issue tracking	Reporter: kamaa -, manager -, somebody -, Karl Heinz Marbaise
 Bug: 3 open on 60 Feature: 7 open on 84 View all issues 	

Redmine Project

Home My page Projects Administration Help Logged in as admin My account Sign out Redmine Search: Projects Q New project

Filters				
Status :	all	~	Apply	

Project 🔺	Description	Subprojects	Public	Created		
JaGoSI	Java GForge SOAP Interface	0	~	10/01/2008	🔒 Archive	🗑 Delete
SOA - Componenent	This is main SOA Component	5	~	10/05/2008	🔒 Archive	🗑 Delete
SOA - DAO	The DAO of the SOA Component. Data Access Object layer.	0	v	10/06/2008	🔒 Archive	🗑 Delete
SOA - Integration Test	The Integration Test module for SOA connector	0	~	10/06/2008	🔒 Archive	🗑 Delete
SOA - Tomcat	The SOA Tomcat package	0	v	10/06/2008	🔒 Archive	🗑 Delete
SOA - Web-Service	This is the web-service of the SOA Component.	0	v	10/06/2008	🔒 Archive	🗑 Delete
SOA - WSDL	The WSDL's for the Web-Service	0	v	10/06/2008	🔒 Archive	🗑 Delete
SupoSE	The Subversion Repository Search Engine	0	~	09/29/2008	🔒 Archive	🗑 Delete
Svnbook	The Subversion Book Translation	0		10/02/2008	🔒 Archive	🗑 Delete

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(1-9/9) | Per page: 25, 50, 100

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Redmine Roles

Name * Issues can be assigned to this role				
ermissions				
Project	_		_	
Edit project	Select project modules	Manage members	Manage versions	
Boards Manage boards	Add messages	Edit messages	 Delete messages 	
Documents	View documents			
 Manage documents Files 	View documents			
Manage files	View files			
Issue tracking				
Manage categories	Add issues	Edit issues	Manage issue relations	Add issue notes
Edit issue notes	Edit own issue notes	Move issues	Delete issues	Manage public queries
 Save queries 	✓ View gantt	View calendar		
News				
 Manage news 	 Comment news 			
Repository				
 Manage repository 	Browse repository	 View changesets 		
Time tracking				
 Log time 	View time entries	 Edit time entries 	 Edit own time entries 	
Wiki	_		_	_
🗹 Manage wiki	🗹 Rename wiki pages	🗹 Delete wiki pages	View wiki pages	🗹 Edit wiki pages

• •				

Redmine Trackers

Home Mypage Projects Administration	Help	Logged in as admin	My account Sign out
Redmine		Search:	
Trackers			Q New tracker
	Tracker	Sort	
Bug			Delete
Feature			Delete
Support		3 ⊽_∆ ≙	Delete

Category for issues

Needs workflow

Project members access control to issues

•

Redmine Activity

Home My page	Projects He	р									Lo
JaGoSI		_								Search:	
	Activity	Roadmap	Issues	New issue	News	Documents	Wiki	Files	Repository		
Activity		,									

From 10/14/2007 to 11/12/2007

11/07/2007



manager -

🤹 06:09 PM Revision 246: - Fixed #133 - Changed to TestNG instead of JUnit 4 - Removed the GForgeAPITest... - Fixed #133 - Changed to TestNG instead of JUnit 4 - Removed the GForgeAPITestCase.java, cause it currently does not work. kama

11/06/2007

🥃 07:16 PM Feature #133: Introduce TestNG instead of JUnit 4
Use [[TestNG]] instead of JUnit 4, cause we can use the grouping options.
manager -

11/05/2007

🏩 09:02 AM Revision 245: - Added Test for getArtifactFiles() - Changed ReleasePropertiesTest from JUnit 3.X ...

- Added Test for getArtifactFiles() - Changed ReleasePropertiesTest from JUnit 3.X to JUnit 4.X - Updated dependency for POM from 0.0.10 to 0.0.11 kama

10/30/2007

💮 06:46 PM Revision 244: - Fixed changes.xml - Fixed changes.xml kama

Redmine Roadmap

Home My page Projects Help Lo										
JaGoSI					Search:					
Overview Activity Roadmap Issues Newissue News	Documents	Wiki	Files	Repository						
Roadmap										
🎯 Milestone 0.0.11										
Due in 9 days (10/17/2008)	Due in 9 days (10/17/2008)									
	38%									
5 closed (36%) 9 open (64%)										
Related issues										
 Feature #16: Exception if not correctly authenticated via login() Feature #19: JaGoSI Error Handling 										
 Feature #81: Class JaGoSIProjectTask 										
 Feature #83: Compiling with debug activated Feature #84: Configure the Upload limit for Files 										
 Feature #104: Fixe Mayen 2 Build package Feature #106: Get to run the auto generated Unit Tests of Axis 										
 Feature #100: Get to run the auto generated onit rests of Axis Feature #133: Introduce TestNG instead of JUnit 4 										
 Feature #134: Update Copyright Year 										

Home My page Pr	rojects Administration Help			
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Issues				
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	to any users		create an issue query	
	For all projects	Check roles		
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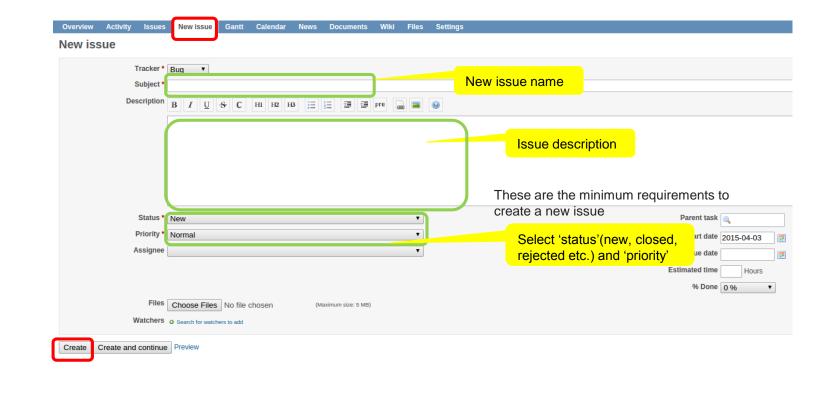
hat is issue query?

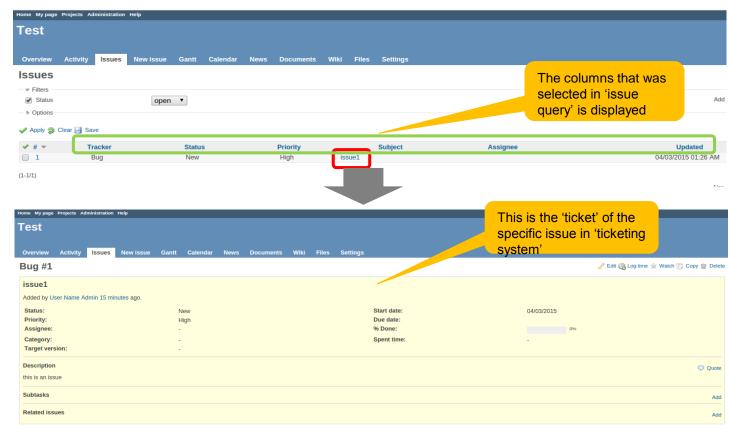
t is like an bulletin board for uture issues that will be created. A background for the **ticketing system**'

What is ticketing system?

computer software package that manages and maintains lists of ssues, as needed by an organization (Wikipedia)

ie Mypage Pi	rojects Administration	Help				
est						
verview A	Activity Issues	New issue	Gantt	Calendar	News	Documents
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Redmine Calander

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Month	April Vear 2015 V	Apply 🧔 Clear					« March May »			
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14	29	30	31	1	L	2 3 Bug #1: issue1	4			
15		5 6	7	8	3	9 10	11			
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18	20	6 27	28	29	3	0 1	2			

issue beginning this day

🗇 issue ending this day

issue beginning and ending this day

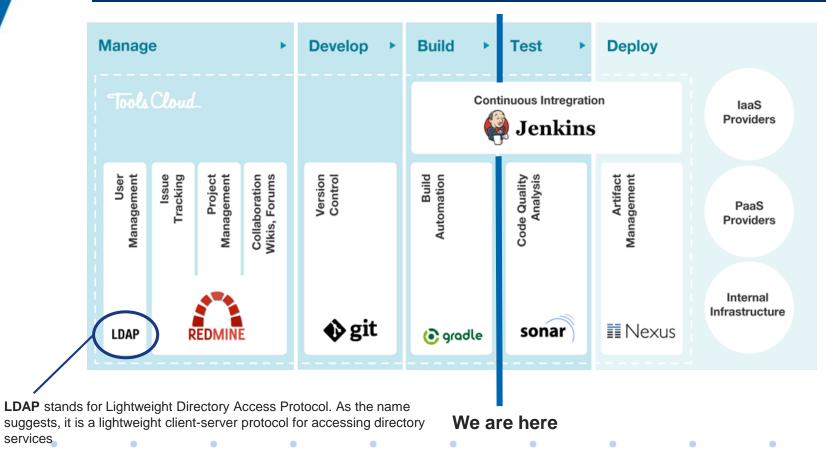
CTIP

- Manage multiple projects
- Per-project wikis and forums
- Time tracking
- Flexible role-based access control
- Core developers left to create Chili yet Redmine is better
- Web-based

- Works well with Git
 - and many other version control systems

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Overall CTIP

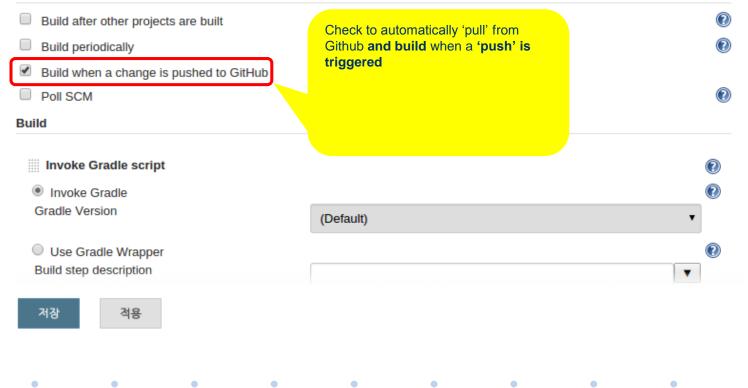


Git plugin setting

None CVS CVS Projectset				
Git				
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			고급	0
		Add Repository	Delete Repository	
Branches to build	Branch Specifier (blank for 'any') */master			Ø
		Add Branch	Delete Branch	
Repository browser	(자동)			•

Git plugin setting

빌드 유발



CTIP (Jenkins – Github)



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CTIP (Github)

GitHub This repository S	earch	Explore Feat	tures Enterprise Blog	Sign up Sign in
fsw0422 / Test			Watch 1	★ Star 0 ¥ Fork 0
2 commits	្ទី 1 branch	⊗ 0 releases	🛱 1 contributor	<> Code
្រៃ ទ្រ branch: master - Tes	st / +		ï=	() Issues 0
added build.gradle script				1 Pull requests
fsw0422 authored 2 days ago			latest commit de7f8ec966 🔂	
settings/gradle	first commit		2 days ago	Pulse
src	first commit		2 days ago	Graphs
Classpath	first commit		2 days ago	
.gitignore	first commit		2 days ago	HTTPS clone URL
.project	first commit		2 days ago	You can clone with HTTPS or
build.gradle	added build.gradle scri	ipt	2 days ago	Subversion. (2)
				↓ Download ZIP

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🧶 Jenkins		◎, 검색
Jenkins >		
 새로운 Item		Jenkins 관리
♣ 사람 ☞ 빌드 기록		▲ Unsecured Jenkins allows anyone on the network to launch processes on your behalf. Consider at least enabling authentication to discourage misuse.
💥 Jenkins 관리		<u>시스템 설정</u> 환경변수 및 경로 정보등을 설정합니다.
A Credentials		Configure Global Security Secure Jenkins; define who is allowed to access/use the system.
빌드 대기 목록	-	Reload Configuration from Disk Discard all the loaded data in memory and reload everything from file system.
빌드 대기 항목이 없습니다.		중 플러그인 관리 Jenkins의 기능을 확장하기 위한 플러그인을 추가, 제거, 사용, 미사용으로 설정할 수 이수.
<u>빌드 실행 상태</u> 1 대기 중	-	이습니다. (업데이트 가능함) 시스템 정보 문제 해결을 돕기위한 다양한 환경 정보를 보여줍니다.
2 대기중		System log captures output from java.util.logging output related to Jenkins.
		부한 통계 Check your resource utilization and see if you need more computers for your builds.
		Jenkins CLI

Script Console

Executes arbitrary script for administration/trouble-shooting/diagnostics.

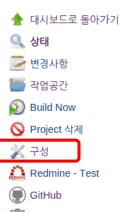
Access/manage Jenkins from your shell, or from your script.

Redmine			
Redmine websites	Name	Redmine	
	Base url	http://localhost/redmine/	
	Version number	3.0.1	0
		삭계	
	추가		
Git plugin			
Global Config user.name Value			0
Global Config user.email Value			0
Create new accounts base on author/committer's email			?
cvs			
저장 적용			

Redmine should be set in "settings" to configure in project

没 Jenkins

Jenkins > Test >



📋 GitHub Hook Log

🦚 Bu	ild History	<u>추이</u>
) <u>#7</u>	2015. 4. 2 오후 7:52	
🥥 <u>#6</u>	2015. 4. 2 오후 7:51	
) <u>#5</u>	2015. 4. 2 오후 7:45	
🥥 <u>#4</u>	2015. 4. 2 오후 7:39	
🥥 <u>#3</u>	2015. 4. 2 오후 7:36	
🥥 <u>#2</u>	2015. 4. 2 오후 7:34	
🥥 <u>#1</u>	2015. 4. 2 오후 7:32	

Project Test



고정링크

- Last build, (#7),3 hr 53 min 전
- Last stable build, (#7),3 hr 53 min 전
- Last successful build, (#7),3 hr 53 min 전
- Last failed build, (#6),3 hr 54 min 전
- Last unsuccessful build, (#6),3 hr 54 min 전

没 Je	enkins			Q. 검색	3
Jenkins 🕠	→ Test → 환경설정				
🚖 대시보	드로 돌아가기		이름	Test	
🔍 상태			설명		
屋 변경사	ਲੇ				
🔚 작업공	간				
🔊 Build N	Now			Escaped HTML] <u>미리보기</u>	<i>h</i>
🚫 Projec	tt 삭제		🔲 오래된 빌드 삭제		
漄 구성			Assign Redmine pro	oject	
🚑 Redmi	ine - Test		Redmine website	Redmine (http://localhost/redmine/)	•
💭 GitHub	b		Redmine project name	Test	
📋 GitHub	b Hook Log		GitHub project	http://github.com/fsw0422/Test/	
🦚 Build	d History	<u>추이</u> ==	🔲 이 빌드는 매개변수기		
) <u>#7</u>	2015. 4. 2 오후 7:52		🔲 빌드 안함 (프로젝트:	가 다시 빌드를 할 때까지 새로운 빌드가 실행되지 않습니다.)	
🥥 <u>#6</u>	2015. 4. 2 오후 7:51		🔲 필요한 경우 concurr	ent 빌드 실행	
🥥 <u>#5</u>	2015. 4. 2 오후 7:45		고급 프로젝트 옵션		
🥥 <u>#4</u>	2015. 4. 2 오후 7:39				고급
🥥 <u>#3</u>	2015. 4. 2 오후 7:36		소소 코트 과기		
🥥 <u>#2</u>	2015. 4. 2 오후 7:34		저장 적용		
🥥 <u>#1</u>	2015. 4. 2 오후 7:32		18 48		

In project settings, check "Assign Redmine Project" and fill in host Redmine URL

CTIP (Jenkins – Redmine)

🚱 Jenkins		
Jenkins 🕨 Test 🕨		
🛖 대시보드로 돌아가기 🔍 상태		Project Test
🥏 변경사항		
🔚 작업공간		
🔊 Build Now		작업 공간
🚫 Project 삭제		
💥 구성		<u>최근 변경사항</u>
Redmine - Test		
GitHub		고정링크
GitHub Hook Log		• <u>Last build, (#7),39 min 전</u> • <u>Last stable build, (#7),39 min 전</u> • <u>Last successful build, (#7),39 min 전</u>
Build History	<u>추이</u> 🕳	 <u>Last failed build, (#6).40 min 전</u> <u>Last unsuccessful build, (#6).40 min 전</u>
 #7 2015. 4. 2 오후 7:52 		

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CTIP (Redmine)

Home My page	e Projects Ad	Iministration	Help							
Test										
Overview	Activity	Issues	New issue	Gantt	Calendar	News	Documents	Wiki	Files	Settings
Overvie	ew									C
🥃 Issue	tracking	I								
• Bug	: 0 open / 0									
-	ture: 0 open	/0								
 Sup 	port: 0 open	/ 0								
View all iss	ues Calend	ar Gantt								