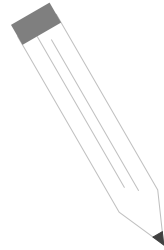


SOFTWARE
VERIFICATION

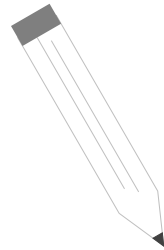
Mantis , SVN , JFeature 및 CTIP

TEAM 7

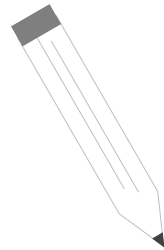
컴퓨터 공학과 201111341 김성민
201111345 김종우
201211356 송원종



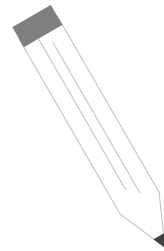
CTIP



Git & GitHub



Jenkins

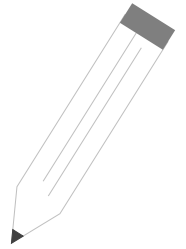


Redmine

◆ CTIP ?

◆ CTIP의 구성

CTIP ?



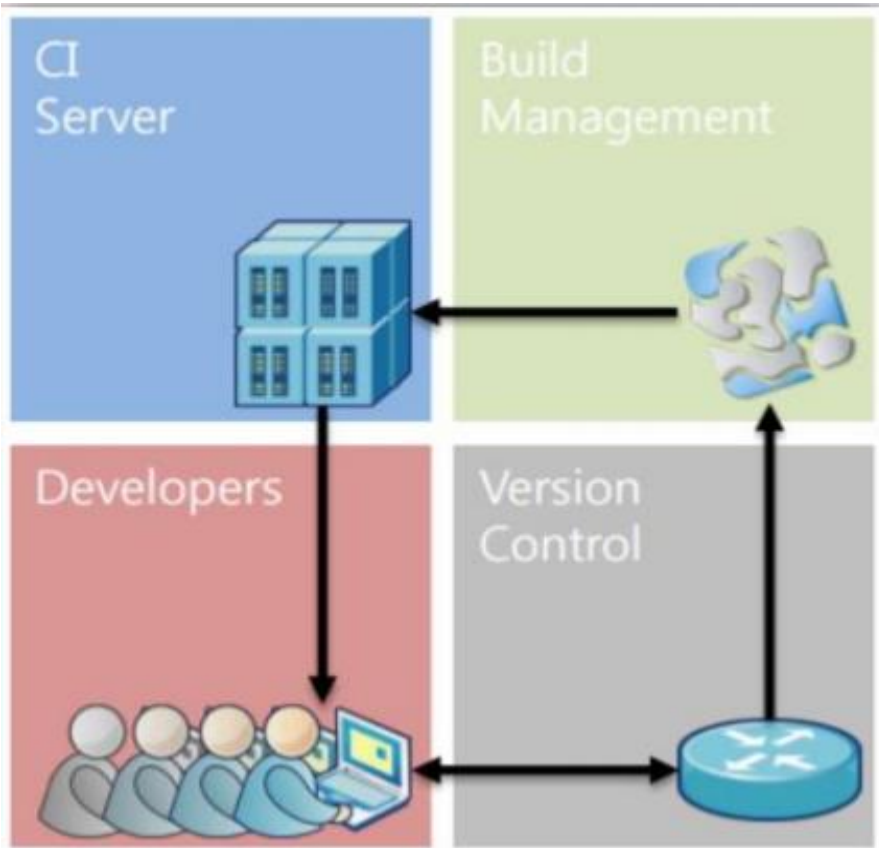
❖ 소개

-CTIP는 Continuous Testing & Integration Process의 약자로 지속적인 테스팅과 통합 개발 환경을 의미한다.

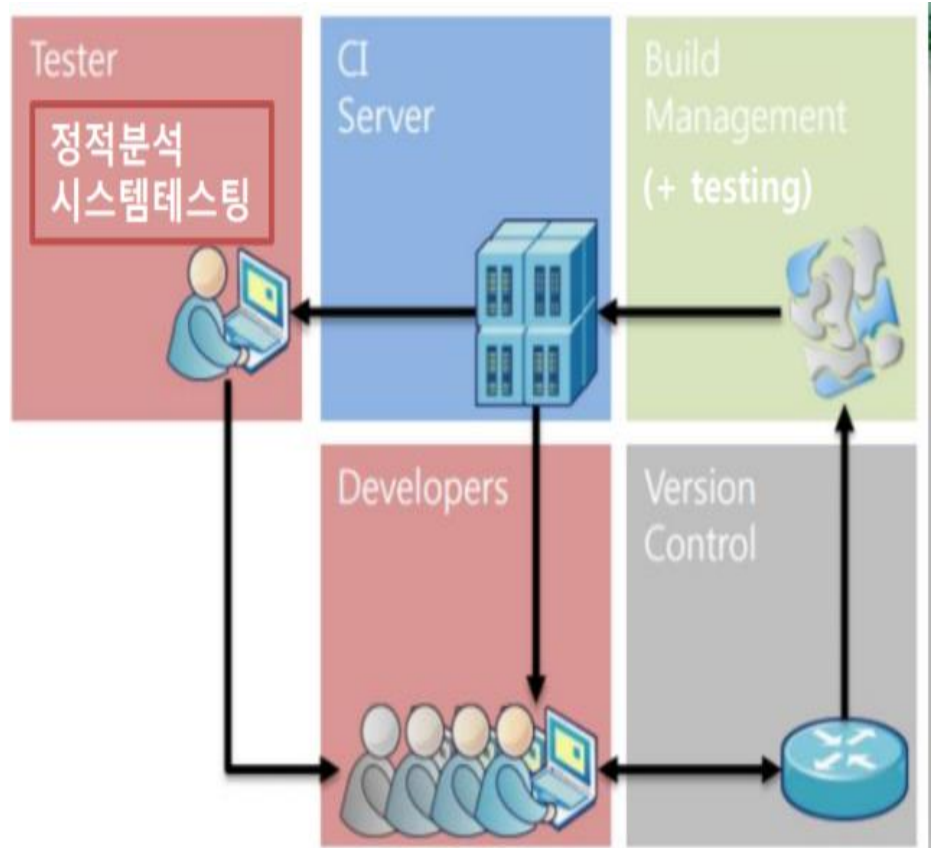
❖ 특징

- 프로젝트의 빌드 & 소스 버전 관리
- 지속적인 테스트 관리로 통합 시 위험을 줄일 수 있다
- 개발 마지막에 이르러서 문제가 생기는 것을 방지
- 자동화를 통한 작업 효율의 증가

CTIP ?



CI

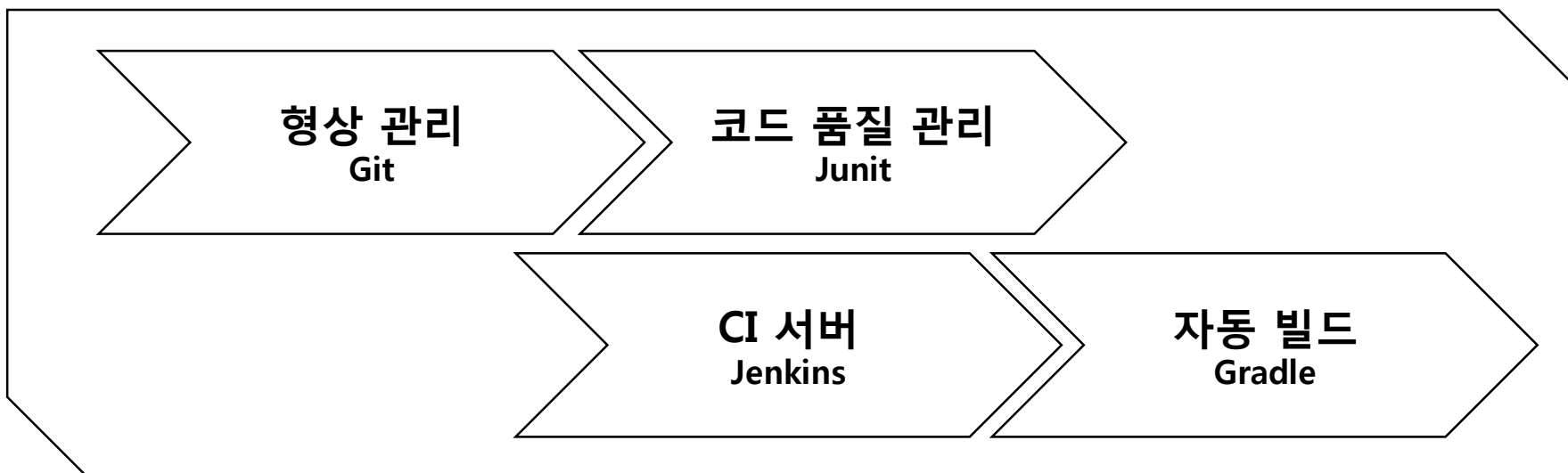


CTIP

CTIP 구성

CTIP는 CI 서버, 코드 품질 관리, 소스 코드 버전 관리, 빌드 및 배포로 구성되어 있다

CTIP

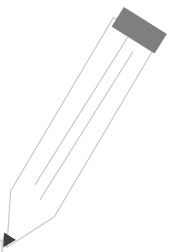


◆ Git 이란?

◆ Git 설치

◆ Git 실행

Git 이란?



❖ 소개

- 버전 관리(Version Control System) 프로그램

❖ 기능

- 분산 버전 관리(DVCS)
- 프로젝트의 변경과 시간에 따라 기록 및 백업을 통한 특정 시점(버전) 불러오기 가능
- 프로젝트 관리

❖ 특징

- 빠른 수행 속도
- 중앙 서버에 의존하지 않고 네트워크에 접근하지 않음
- 많은 GUI 지원

Git 설치

<https://git-scm.com/downloads>

git --distributed-even-if-your-workflow-isnt

Search entire site...

About

Documentation

Downloads

GUI Clients

Logos

Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to read [online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads

[Mac OS X](#)
[Windows](#)

[Linux/Unix](#)

Older releases are available and the Git source repository is on GitHub.

GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

Latest source Release
2.16.3
[Release Notes \(2018-03-22\)](#)
Download 2.16.2 for Windows

Git 설치

git for windows

FAQ REPOSITORY MAILING LIST

VERSION 2.16.3

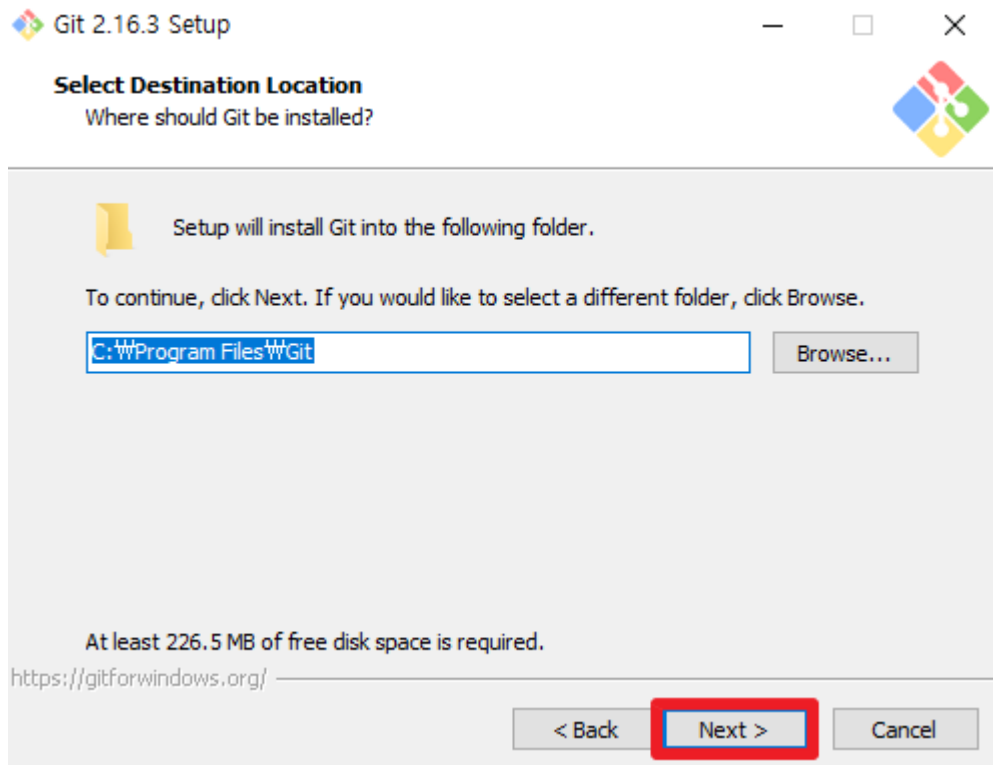
We bring the awesome **Git** SCM to Windows

Download Contribute

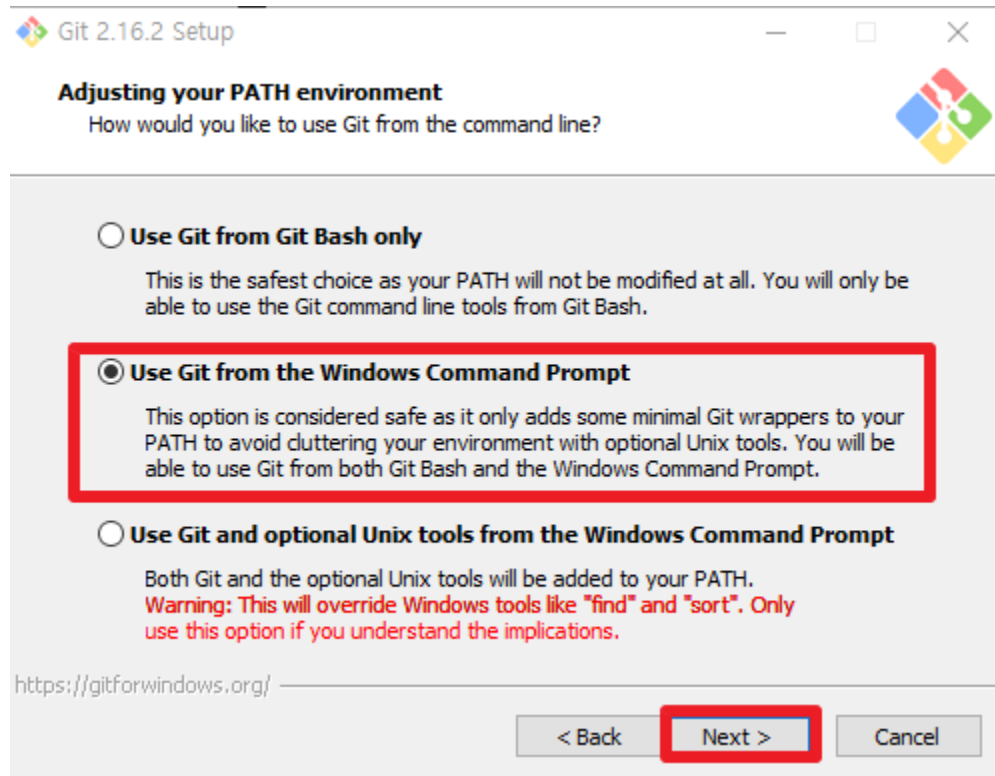
Git 설치



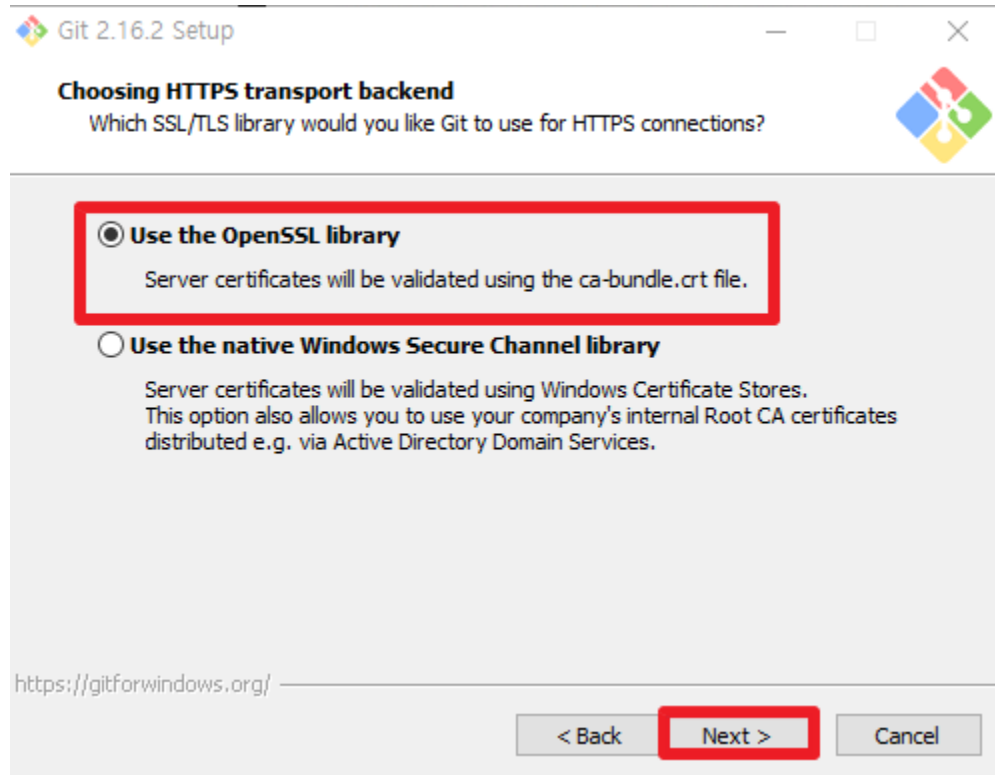
Git 설치



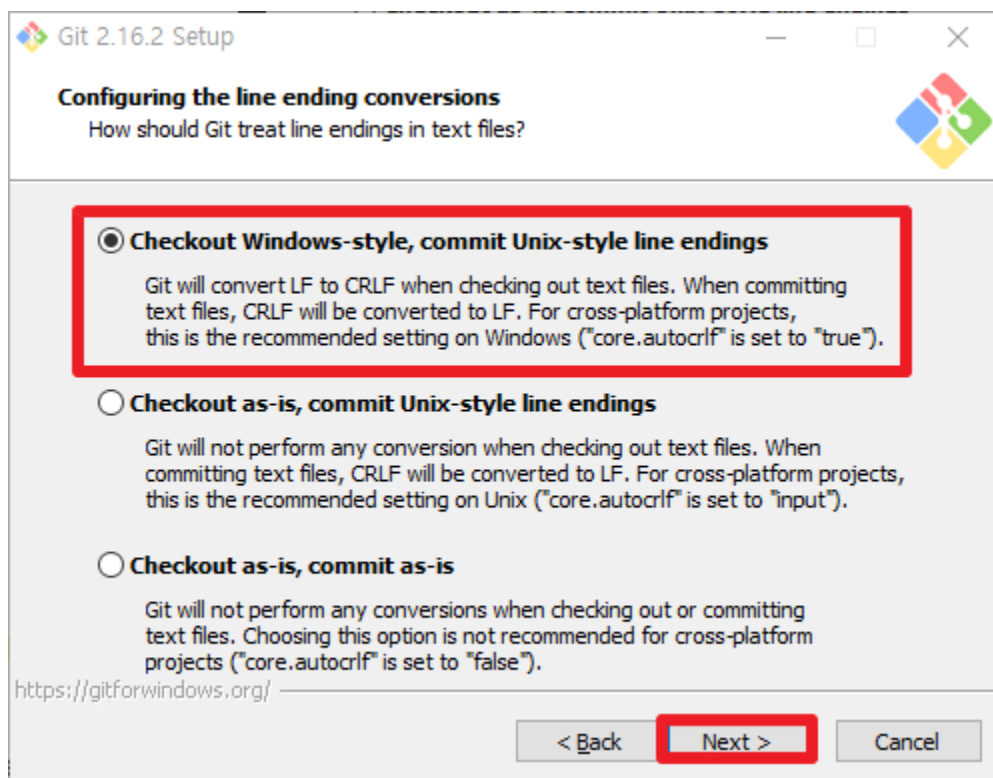
Git 설치



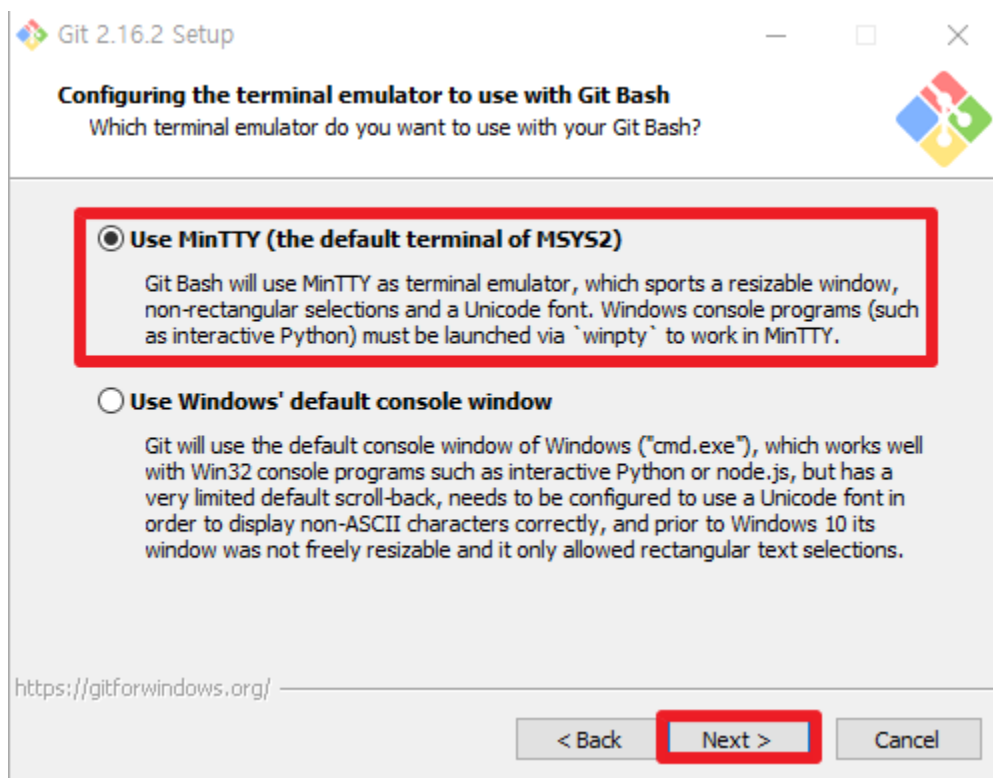
Git 설치



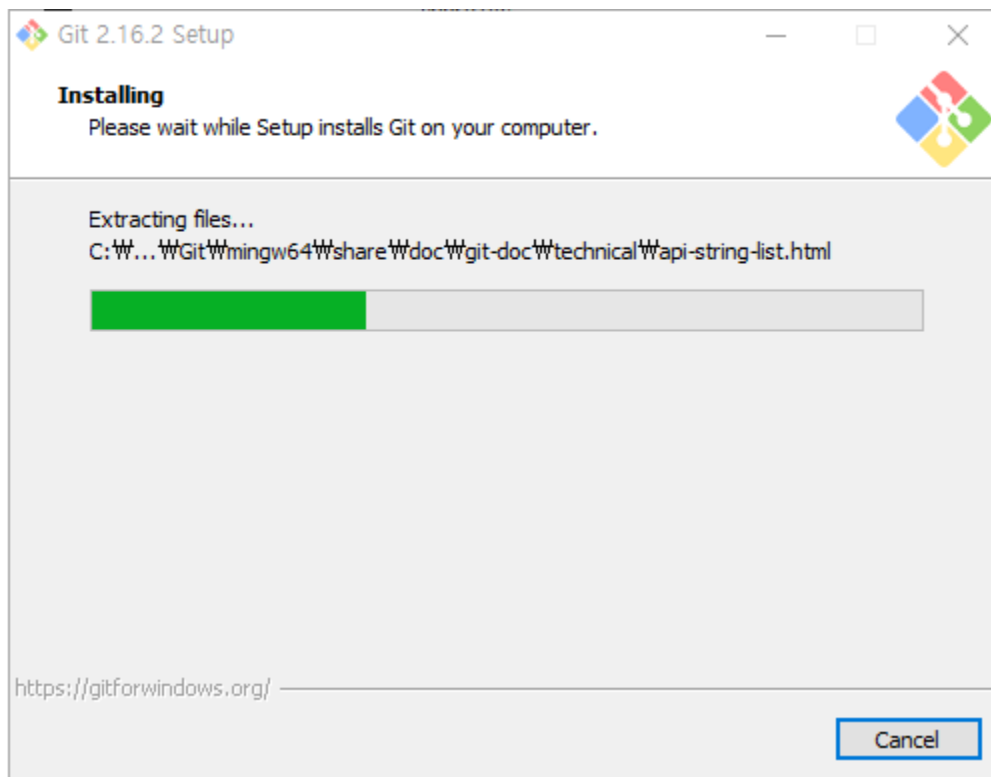
Git 설치



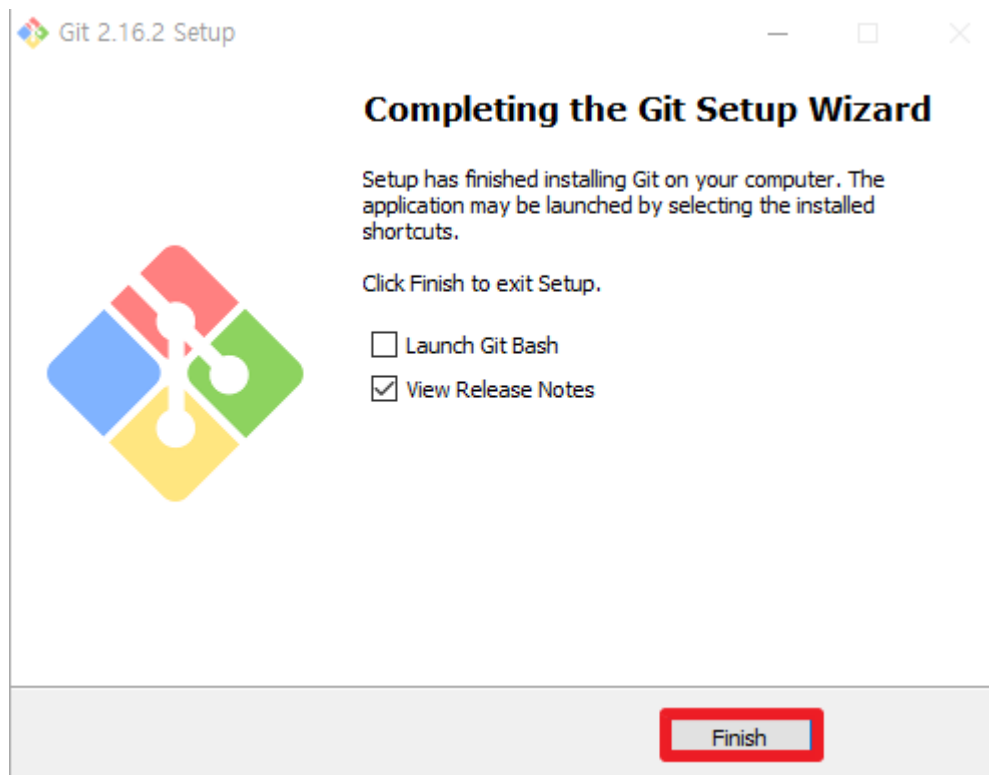
Git 설치



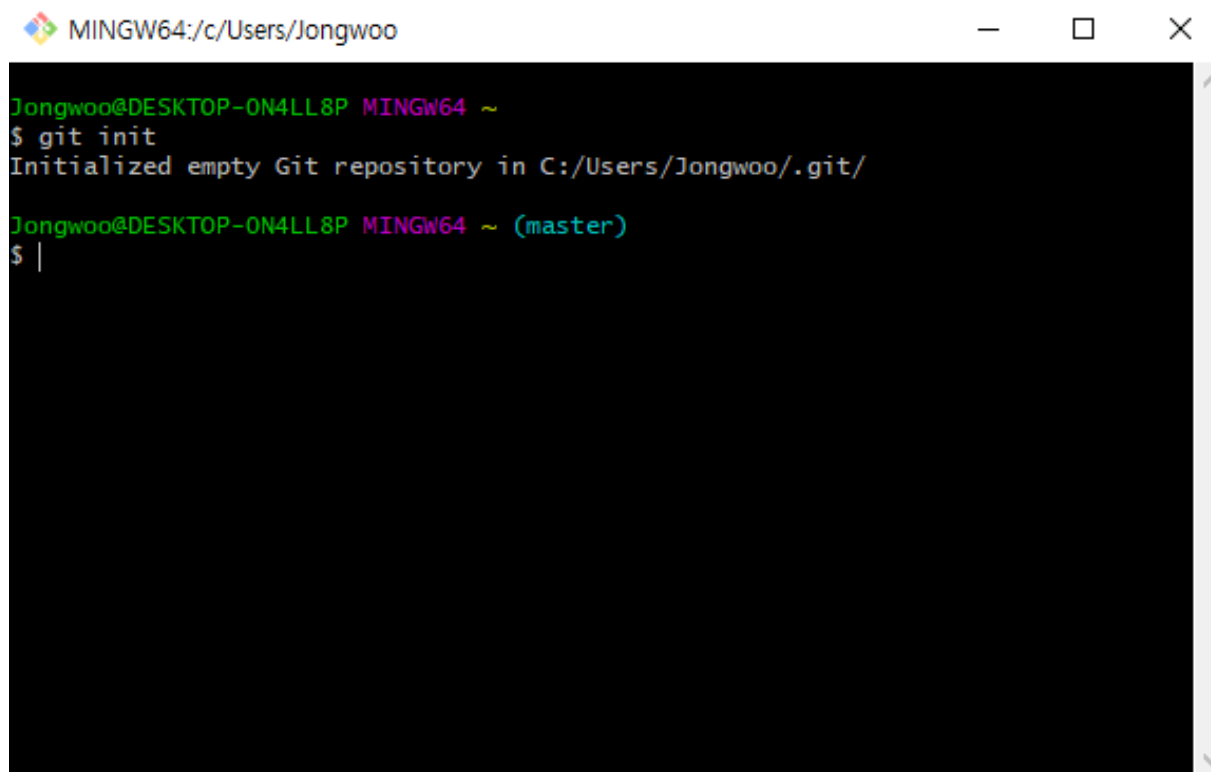
Git 설치



Git 설치



Git 설치

A terminal window titled 'MINGW64:/c/Users/Jongwoo' with standard window controls. The terminal shows the execution of 'git init' and the resulting message: 'Initialized empty Git repository in C:/Users/Jongwoo/.git/'. The prompt then changes to '(master)'.

```
MINGW64:/c/Users/Jongwoo  
Jongwoo@DESKTOP-0N4LL8P MINGW64 ~  
$ git init  
Initialized empty Git repository in C:/Users/Jongwoo/.git/  
Jongwoo@DESKTOP-0N4LL8P MINGW64 ~ (master)  
$ |
```

◆ GitHub 이란?

◆ GitHub & Jenkins 연동

GitHub 이란?

❖ 소개

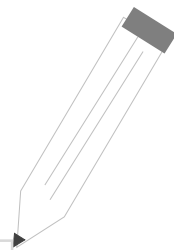
- Git (버전 관리 프로그램)을 사용하는 프로젝트를 지원하는 웹 호스팅 서비스

❖ 기능

- local의 프로젝트를 공용 공간에 저장
- Web UI 지원
- fork, pull 등의 지원

❖ 특징

- GUI 기반
- 돈을 내면 사설 저장소 제공
- 자유로운 코드 추가 제거



Git & Jenkins 연동

Create a new repository

A repository contains all the files for your project, including the revision history.

GitHub Repository 생성

Owner



 whddn1128 ▾

Repository name

/ jenkintest ✓

Great repository names are short and memorable. Need inspiration? How about [bookish-barnacle](#).

Description (optional)

-  **Public**
Anyone can see this repository. You choose who can commit.
-  **Private**
You choose who can see and commit to this repository.

- Initialize this repository with a README**
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

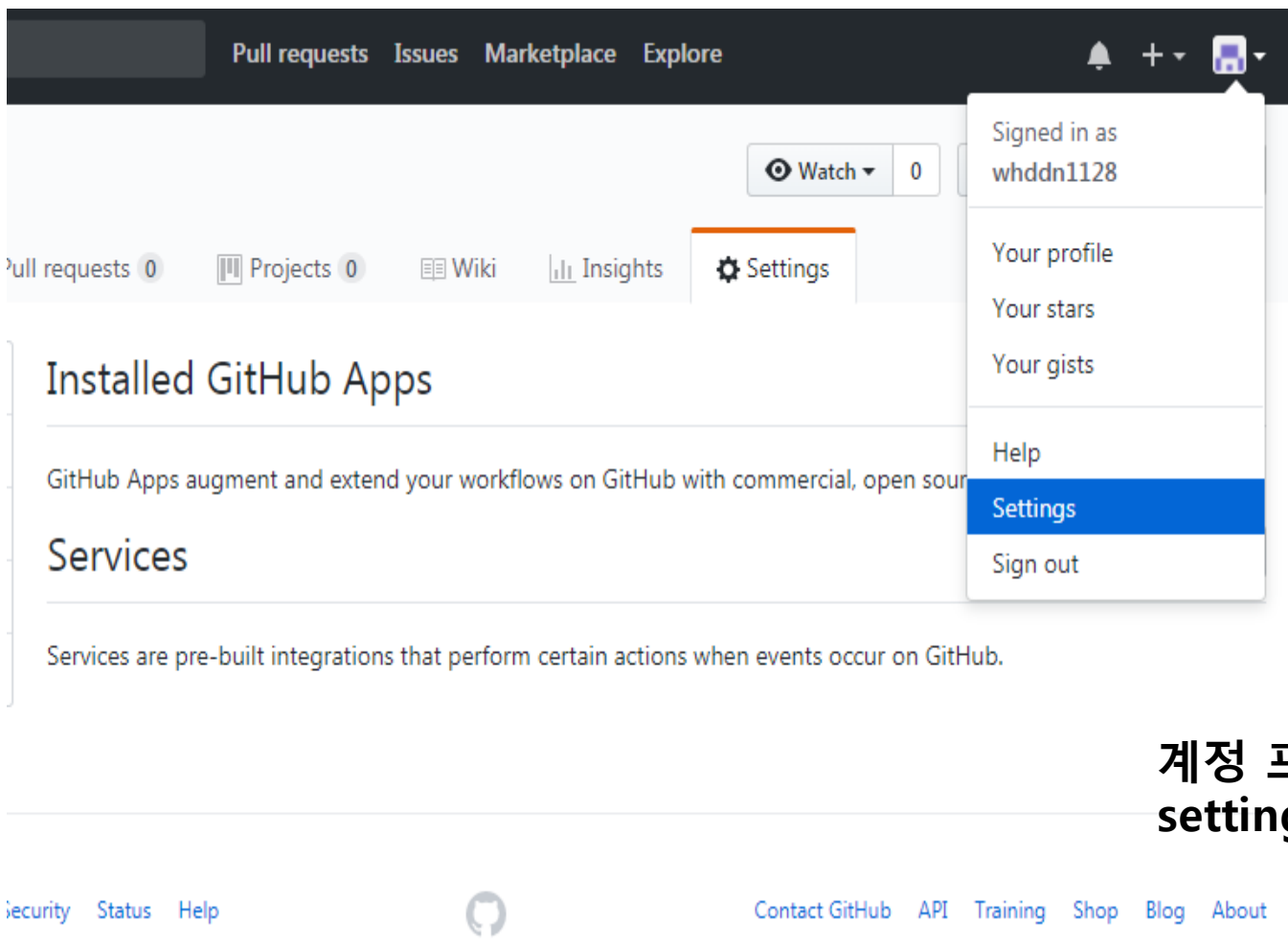
Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository

Git & Jenkins 연동



계정 프로필
setting

Git & Jenkins 연동

Personal settings
Profile
Account
Emails
Notifications
Billing
SSH and GPG keys
Security
Blocked users
Repositories
Organizations
Saved replies
Applications
Developer settings
Organization settings
loopinin

Public profile

Name

Public email

You have set your email address to private. To toggle email privacy, go to [email settings](#) and uncheck "Keep my email address private."

Bio

You can @mention other users and organizations to link to them.

URL

Company

You can @mention your company's GitHub organization to link it.

Location

Developer Settings

Git & Jenkins 연동

Settings / Developer settings

개인 접근 허가 토큰 생성

OAuth Apps

GitHub Apps

Personal access tokens

Personal access tokens

Generate new token

Revoke all

Tokens you have generated that can be used to access the [GitHub API](#).

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Git & Jenkins 연동

New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Token description

What's this token for?

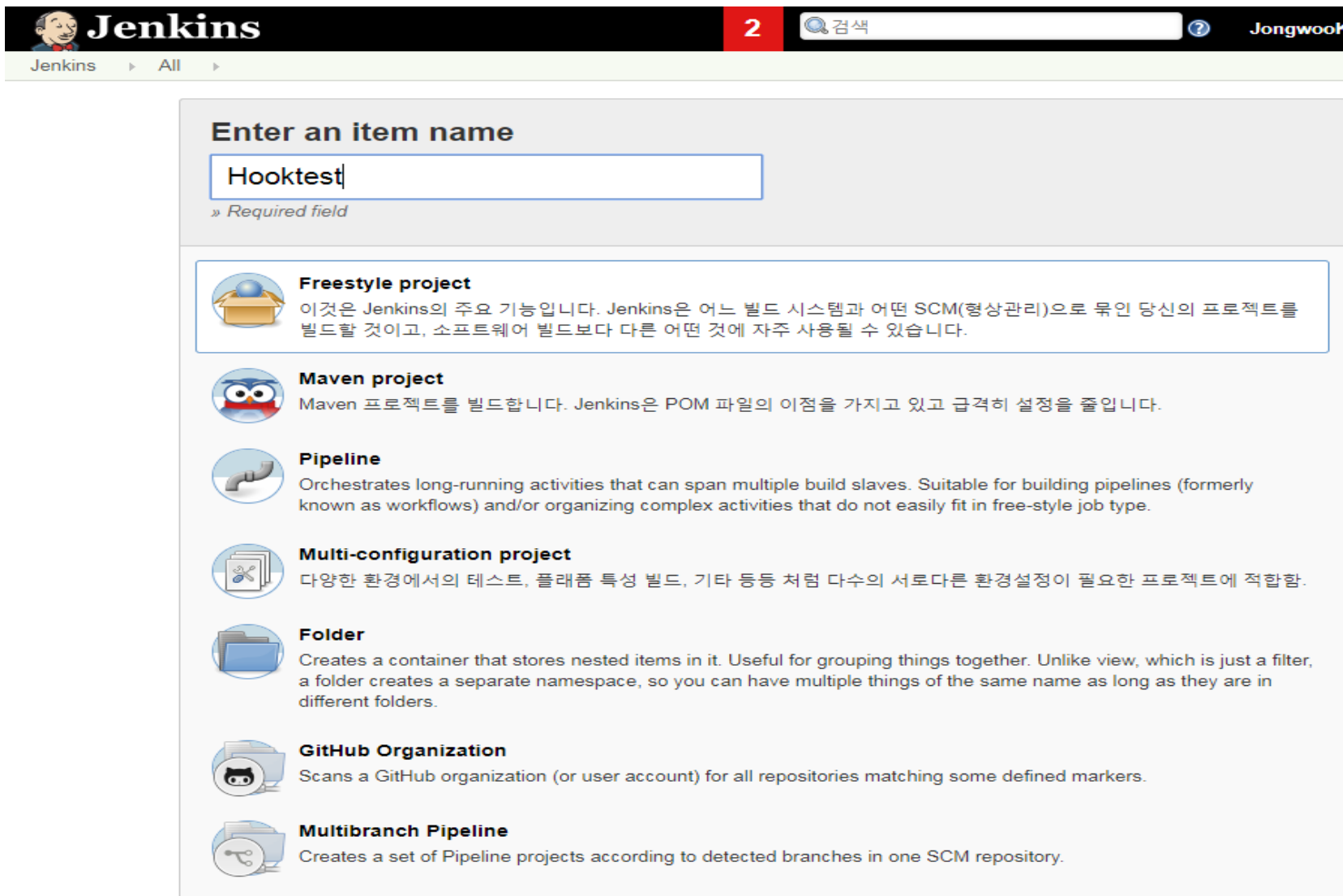
Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input type="checkbox"/> admin:org	Full control of orgs and teams
<input type="checkbox"/> write:org	Read and write org and team membership
<input type="checkbox"/> read:org	Read org and team membership
<input type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input checked="" type="checkbox"/> admin:repo_hook	Full control of repository hooks
<input checked="" type="checkbox"/> write:repo_hook	Write repository hooks
<input checked="" type="checkbox"/> read:repo_hook	Read repository hooks

이름, 범위 설정

Git & Jenkins 연동



Jenkins

2

검색








Jongwook

Jenkins > All >

Enter an item name

Hooktest

» Required field

- 
Freestyle project
 이것은 Jenkins의 주요 기능입니다. Jenkins은 어느 빌드 시스템과 어떤 SCM(형상관리)으로 묶인 당신의 프로젝트를 빌드할 것이고, 소프트웨어 빌드보다 다른 어떤 것에 자주 사용될 수 있습니다.
- 
Maven project
 Maven 프로젝트를 빌드합니다. Jenkins은 POM 파일의 이점을 가지고 있고 급격히 설정을 줄입니다.
- 
Pipeline
 Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- 
Multi-configuration project
 다양한 환경에서의 테스트, 플랫폼 특성 빌드, 기타 등등 처럼 다수의 서로다른 환경설정이 필요한 프로젝트에 적합함.
- 
Folder
 Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
- 
GitHub Organization
 Scans a GitHub organization (or user account) for all repositories matching some defined markers.
- 
Multibranch Pipeline
 Creates a set of Pipeline projects according to detected branches in one SCM repository.





Git & Jenkins 연동




프로젝트 - General - Github project

Git & Jenkins 연동

빌드 유발

- 빌드를 원격으로 유발 (예: 스크립트 사용) 
- Build after other projects are built 
- Build periodically 
- GitHub hook trigger for GITScm polling 

- Poll SCM 

Git & Jenkins 연동

Build

Invoke Gradle script X ?

Gradle Version

Use Gradle Wrapper

Tasks ?

빌드 옵션 선택

Git & Jenkins 연동

GitHub

GitHub Servers

GitHub Server ?

Name ?

API URL ?

Credentials ?

?

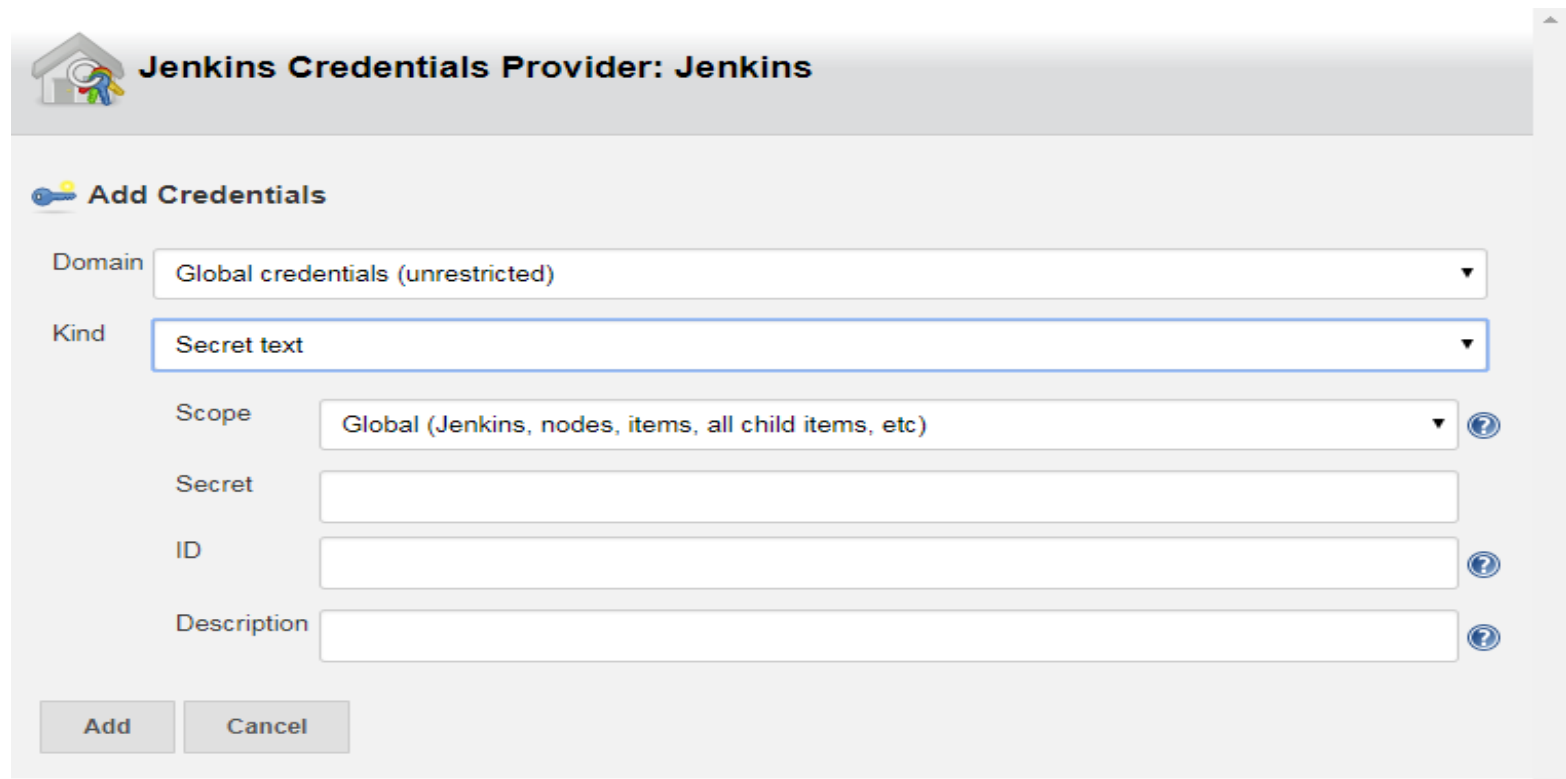
?

Failed to validate the account

Manage hooks ?

Jenkins 시스템 구성 -
GitHub

Git & Jenkins 연동



The screenshot shows the Jenkins 'Add Credentials' form. The title is 'Jenkins Credentials Provider: Jenkins'. Below the title is a section labeled 'Add Credentials' with a key icon. The form contains several fields: 'Domain' is a dropdown menu set to 'Global credentials (unrestricted)'; 'Kind' is a dropdown menu set to 'Secret text'; 'Scope' is a dropdown menu set to 'Global (Jenkins, nodes, items, all child items, etc)' with a help icon; 'Secret' is an empty text input field; 'ID' is an empty text input field with a help icon; and 'Description' is an empty text input field with a help icon. At the bottom of the form are two buttons: 'Add' and 'Cancel'.

Secret : Access token
ID : user ID

Git & Jenkins 연동

GitHub

GitHub Servers

GitHub Server ?

Name ?

API URL ?

Credentials ?


?


Credentials verified for user whddn1128, rate limit: 4998

Manage hooks ?

Test connection 클릭

Git & Jenkins 연동

 **Jenkins Credentials Provider: Jenkins**

 **Add Credentials**

Domain: Global credentials (unrestricted) ▼

Kind: Username with password ▼

Scope: Global (Jenkins, nodes, items, all child items, etc) ▼ ⓘ

Username: JongwookKim ⓘ

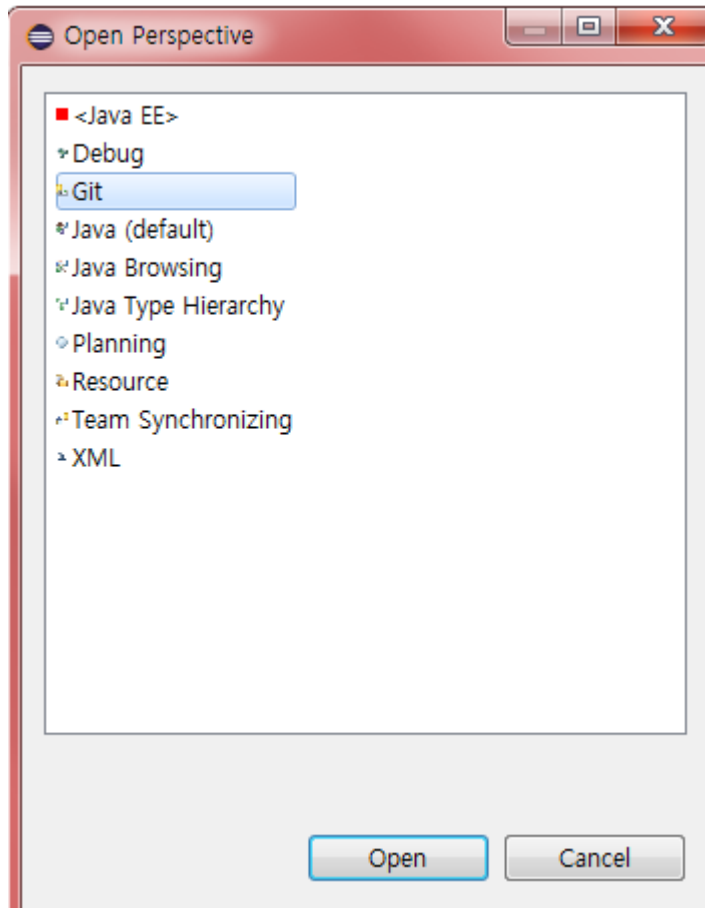
Password: ⓘ

ID: sv2018 ⓘ

Description: ⓘ

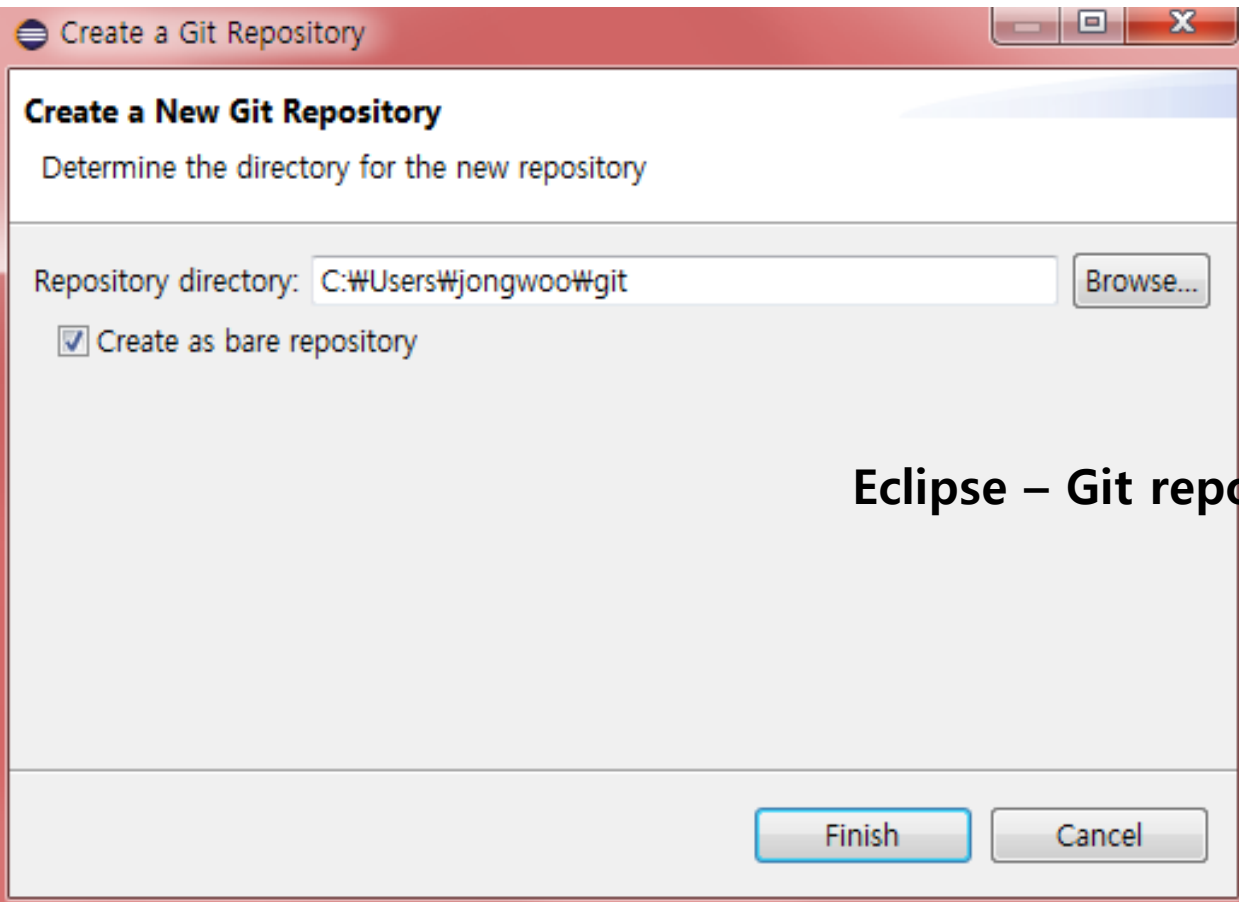
Username : Jenkins
ID : Jenkins
password : Jenkins

Egit으로 Github에 Push



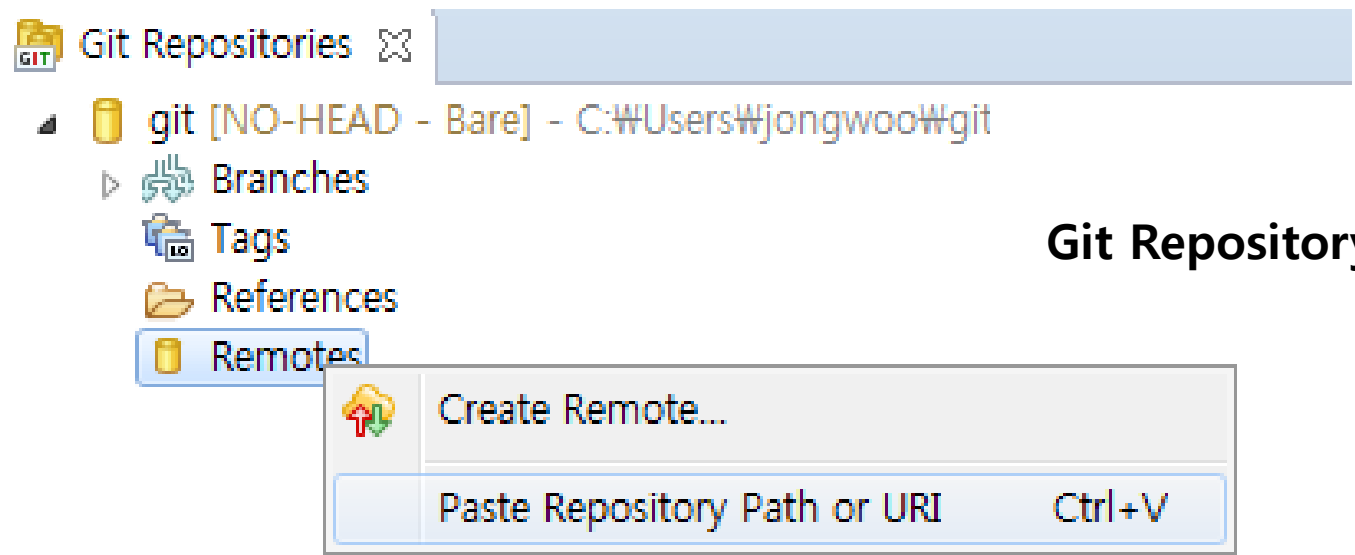
Eclipse – perspective –
GIT 추가

Egit으로 Github에 Push



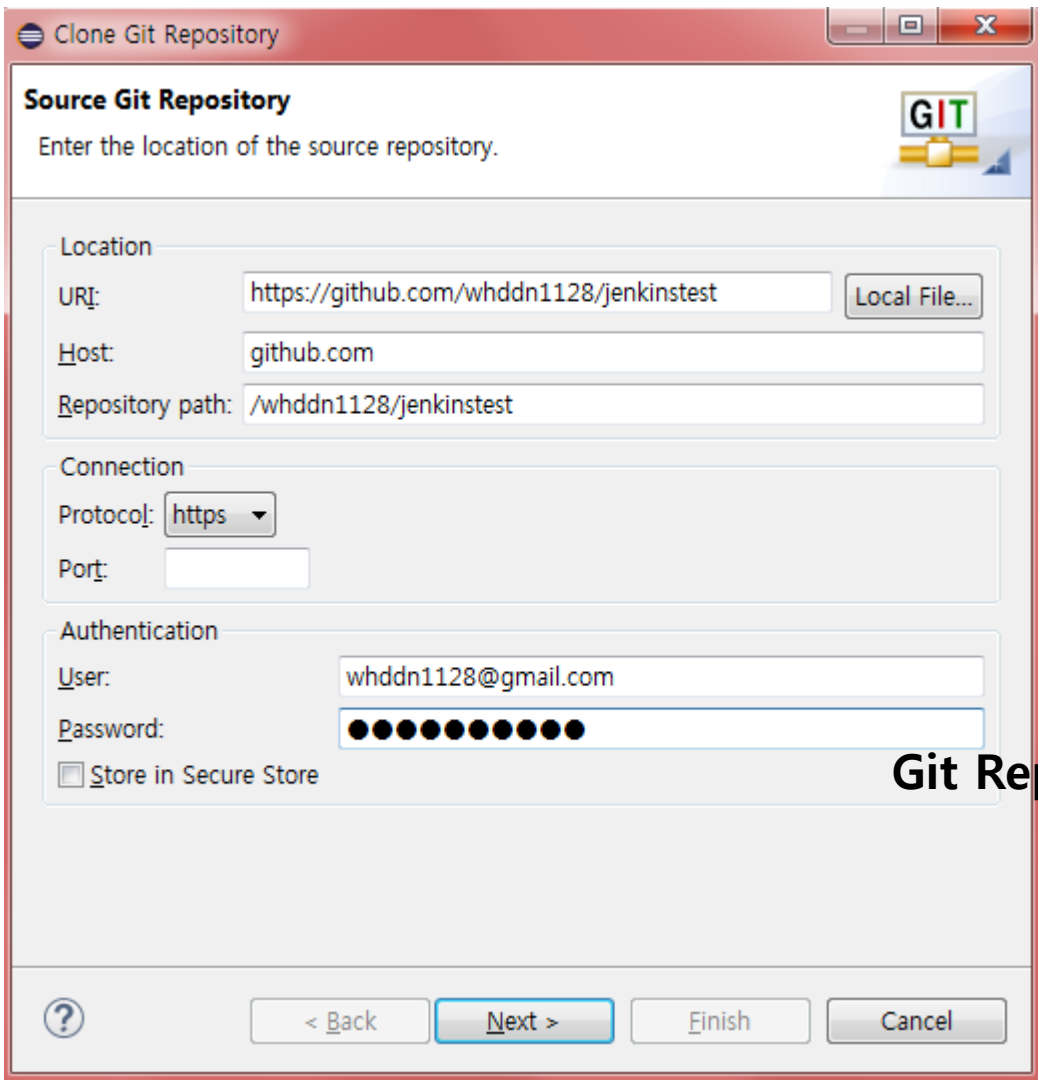
Eclipse – Git repository 생성

Egit으로 Github에 Push



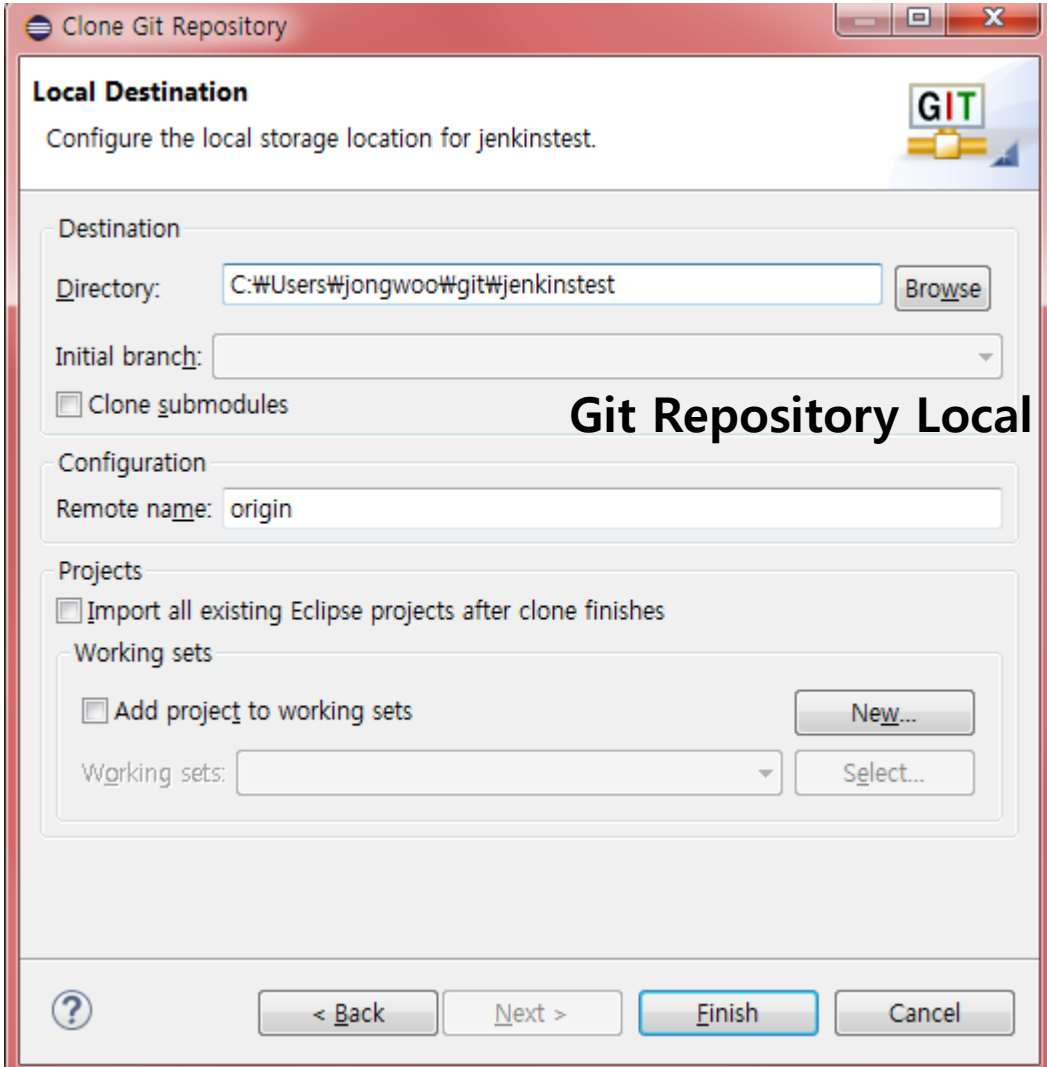
Git Repository 생성 확인

Egit으로 Github에 Push



Git Repository 정보 입력

Egit으로 Github에 Push



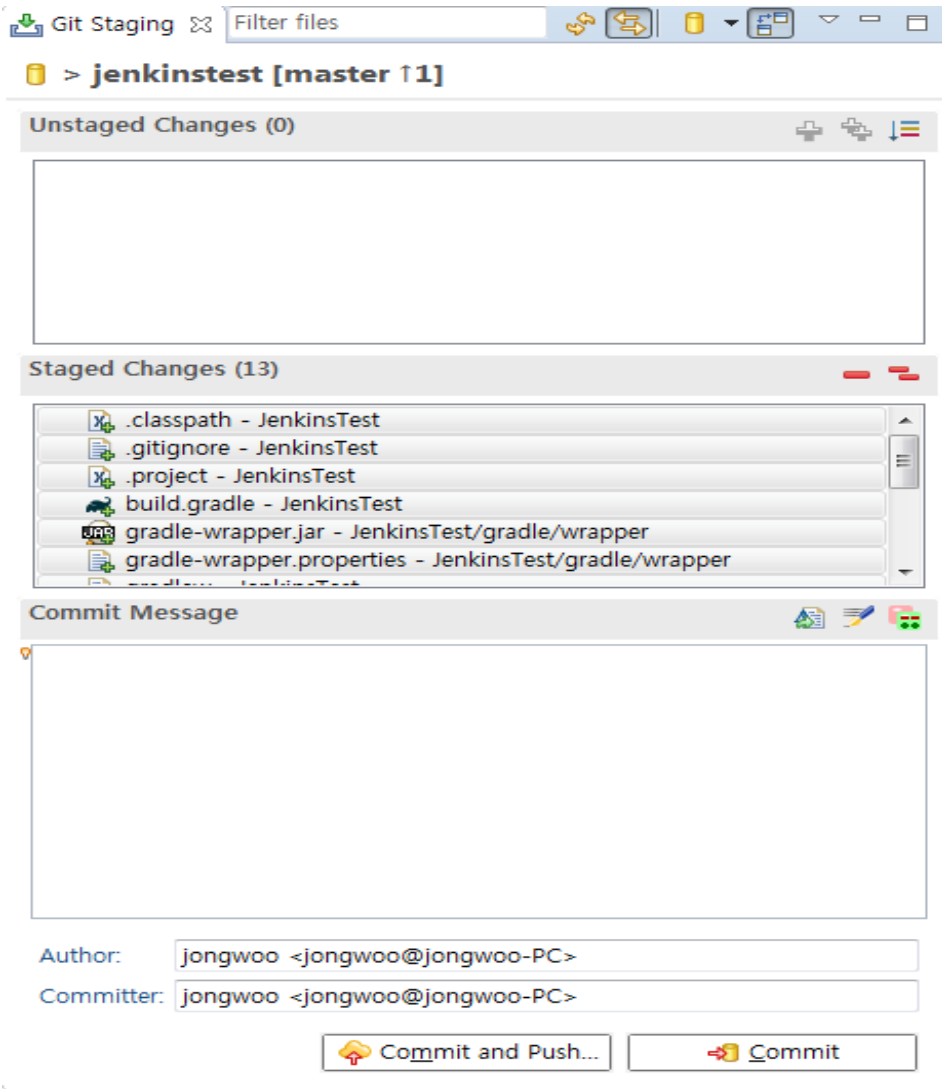
Git Repository Local 설정

Egit으로 Github에 Push

- ▶ JenkinsTest [jenkinstest master]
 - ▶ src/main/java
 - ▶ src/test/java
 - ▶ JRE System Library [JavaSE-1.8]
 - ▶ Project and External Dependencies
 - ▶ gradle
 - ▶ src
 - ▶ build.gradle
 - ▶ gradlew
 - ▶ gradlew.bat
 - ▶ settings.gradle
-

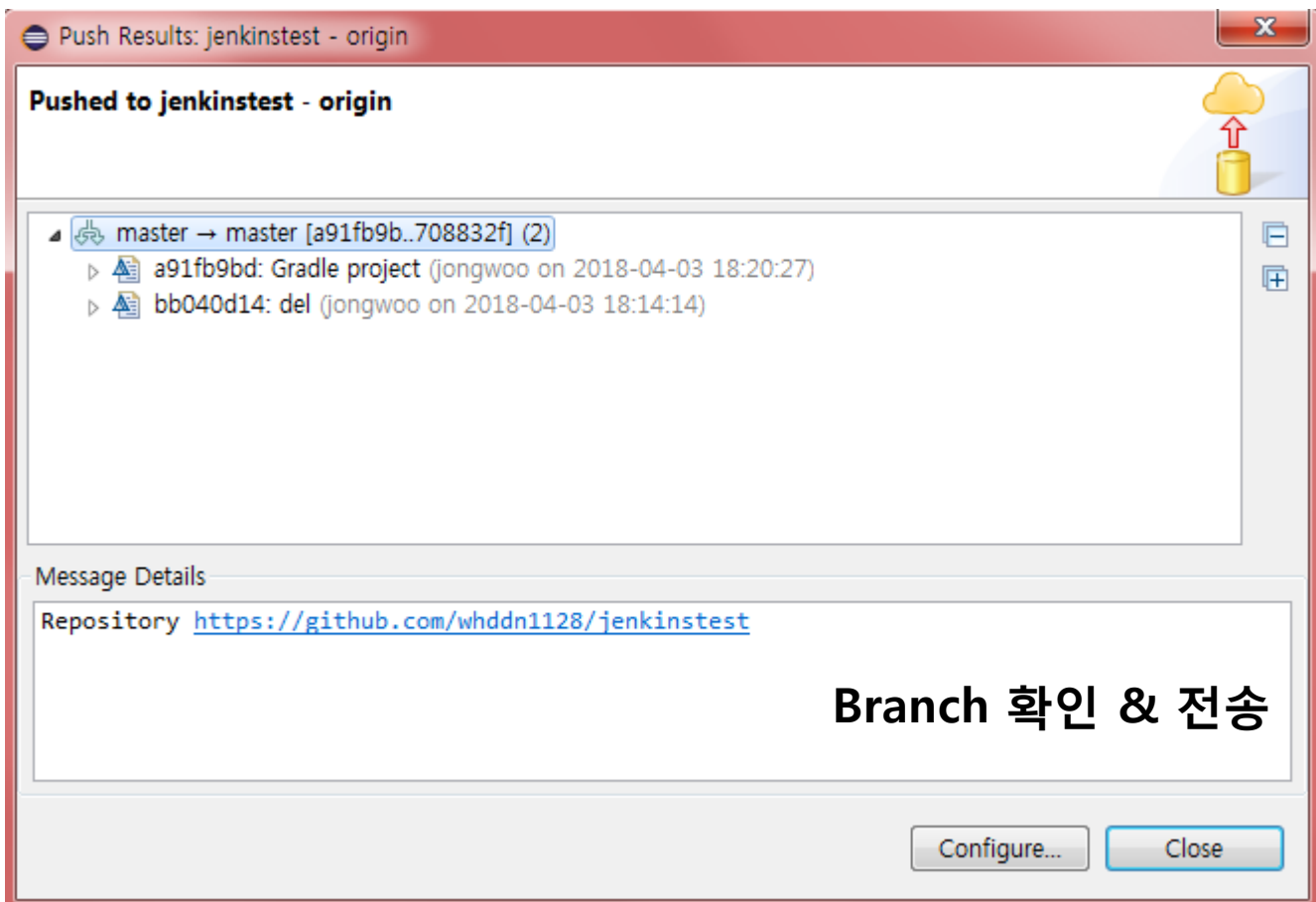
Push할 Test Project 생성 및 확인

Egit으로 Github에 Push



수정 사항 & Commit 메시지 입력

Git & Jenkins 연동



Git & Jenkins 연동

The screenshot shows a GitHub repository page for 'whddn128 / jenkins-test'. At the top, there are buttons for 'Watch' (0), 'Star' (0), and 'Fork' (0). Below this is a navigation bar with 'Code', 'Issues' (0), 'Pull requests' (0), 'Projects' (0), 'Wiki', 'Insights', and 'Settings'. A message states 'No description, website, or topics provided.' with an 'Edit' button. Below that, statistics show '4 commits', '1 branch', '0 releases', and '0 contributors'. There are buttons for 'Branch: master', 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. A file tree shows 'JenkinsTest' as a 'Gradle project' with a commit 'a91fb9b' from 'jongwoo and jongwoo' 41 seconds ago. At the bottom, there is a prompt to 'Add a README'.

GitHub Repository 확인

Git & Jenkins 연동

whddn1128 / jenkins Watch 0 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Branch: master **jenkinstest / JenkinsTest / src / main / java / Main.java** Find file Copy path

jongwoo Gradle project a91fb9b a minute ago

0 contributors

8 lines (5 sloc) | 115 Bytes Raw Blame History

```
1
2 public class Main {
3     public static void main(String[] args) {
4         System.out.println("Hello Jenkins");
5     }
6
7 }
```

Source 코드 update 확인

Git & Jenkins 연동

Jenkins 2 JongwooKim | 로그아웃

Jenkins > BuildwhenHooktest > GitHub Hook Log [자동으로 새로고침](#)

- 대시보드로 돌아가기
- 상태
- 변경사항
- 작업공간
- Build Now
- Project 삭제
- 구성
- GitHub Hook Log**
- GitHub
- Rename

Last GitHub Push

Started on 2018. 4. 3 7:24:18
 Started by event from 192.30.252.34 <http://49.173.110.208:8080/github-webhook/> on 4 03
 19:24:18 KST 2018
 No existing build. Scheduling a new one.
 Done. Took 3 ms
 Changes found

Build History [추이](#)

x

#1	2018. 4. 3 오후 7:24
----	--------------------

[RSS \(전체\)](#) [RSS \(실패\)](#)

Jenkins에서 빌드 확인

◆ Redmine 이란?

◆ Redmine 설치

◆ Redmine 실행

Redmine 이란?

❖ 소개

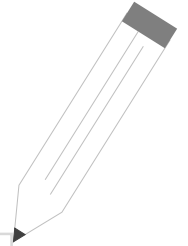
- 프로젝트 관리와 버그 추적 기능 제공하는 도구

❖ 기능

- 화면 기반의 프로젝트 관리(달력/간트 차트)
- 일정관리기능
- CI 프로젝트 관리, 이슈 추적, 형상 관리


❖ 특징

- Trac의 영향을 많이 받음
- 루비 온 레일즈 기반



Redmine 설치

https://bitnami.com/stack/redmine


 bitnami

[Products](#) [Solutions](#) [Partners](#) [Company](#) [News](#) [Support](#)

Console
[My Account](#)

Home > Applications > Bug Tracking > Redmine

[Overview](#)
[Installers](#)
[Virtual Machines](#)
[Cloud](#)
[Containers](#)



Redmine

[www.redmine.org](#) | Open Source

♥ Follow

The 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 a clean interface that makes it easy to define your first project and get started.

More on Redmine

Redmine will also integrate with a version control tool so that development and project management workflows can be tightly connected with each other. The Bitnami Redmine Stack comes with Subversion already installed and configured.

Key features of Redmine include

- Add users and roles.
- Add and track issues (or have your team do it).
- Plan and manage your project with Redmine's built-in Gantt charts and calendar.
- Use the project wiki and document manager to store project documents.
- Configure notifications to stay updated on issue status and changes.
- Define workflows to streamline collaboration with your team.

Why use the Bitnami Redmine Stack?

🕒 DEMO IN BROWSER

☁️ LAUNCH IN THE CLOUD

🐳 CONTAINER DEPLOYMENT

🐳 Redmine Docker Container

⬇️ LOCAL INSTALL

📄 **DOWNLOAD REDMINE INSTALLER**
bitnami-redmine-3.4.4-3-windows-in...
Version 3.4.4

OTHER OPTIONS

📄 All Redmine Installers

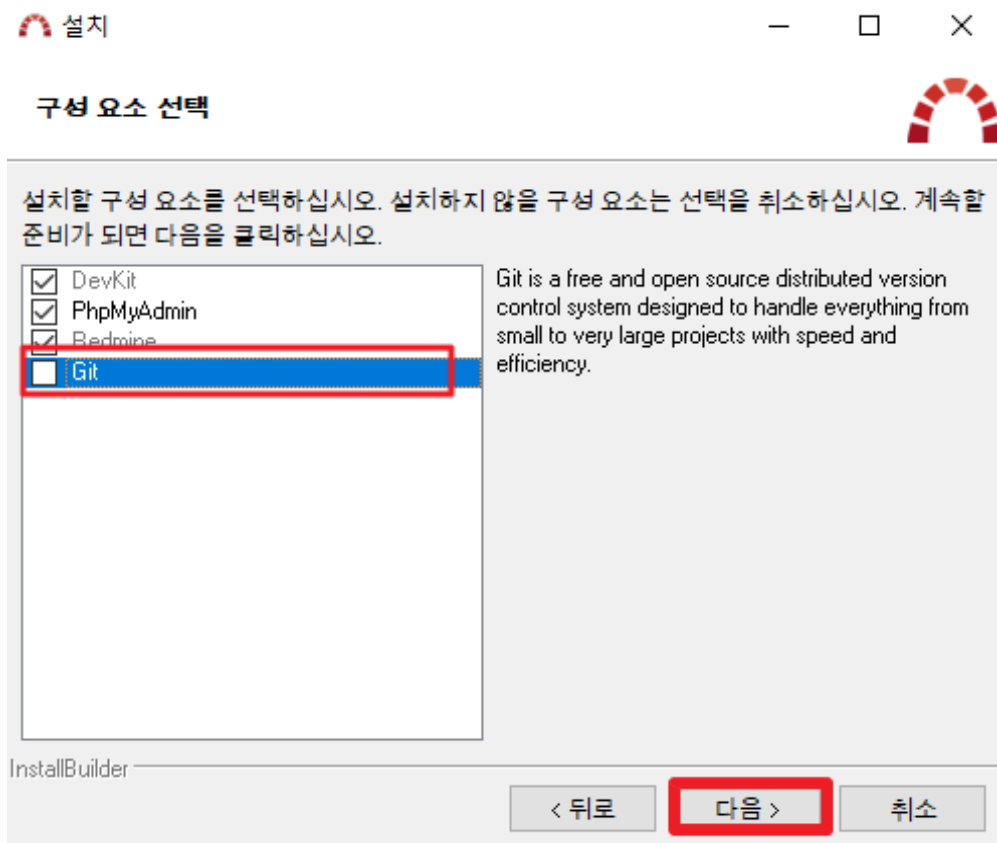
🖥️ Redmine Virtual Machines

[Help me choose](#)

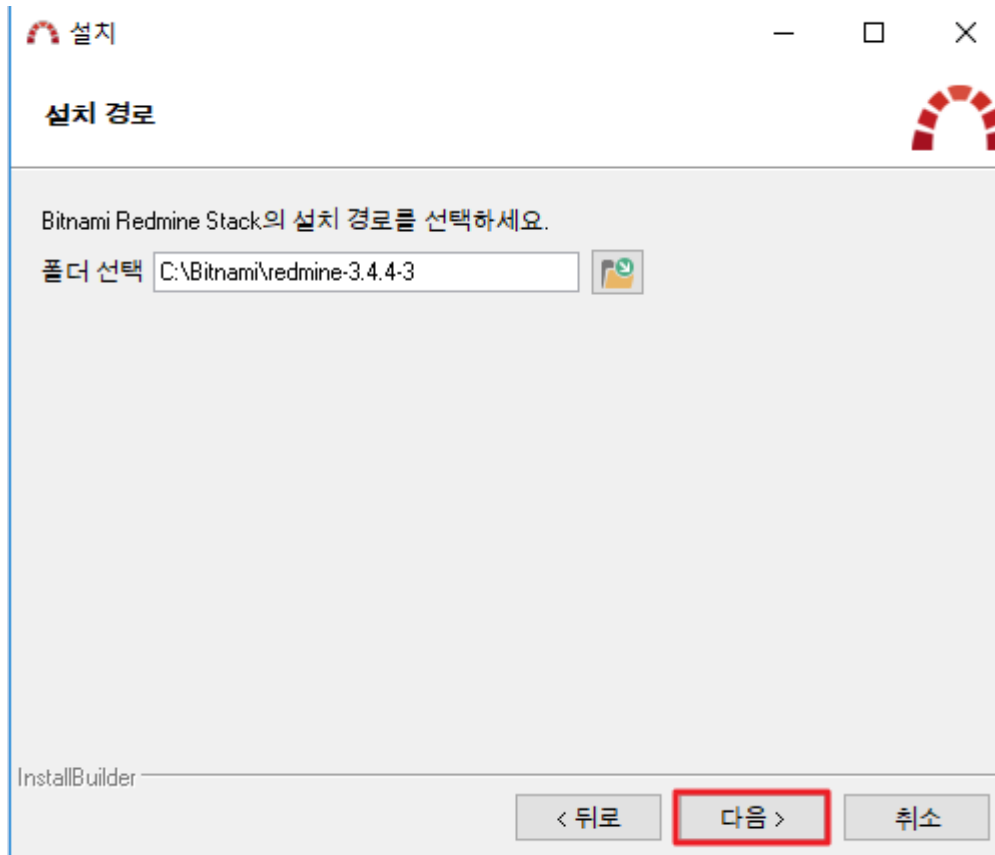
Redmine 설치



Redmine 설치



Redmine 설치



Redmine 설치

설치

Admin 계정 생성

Bitnami Redmine Stack 관리자 계정을 생성합니다.

이름 Fill In

이메일 주소

로그인 계정명

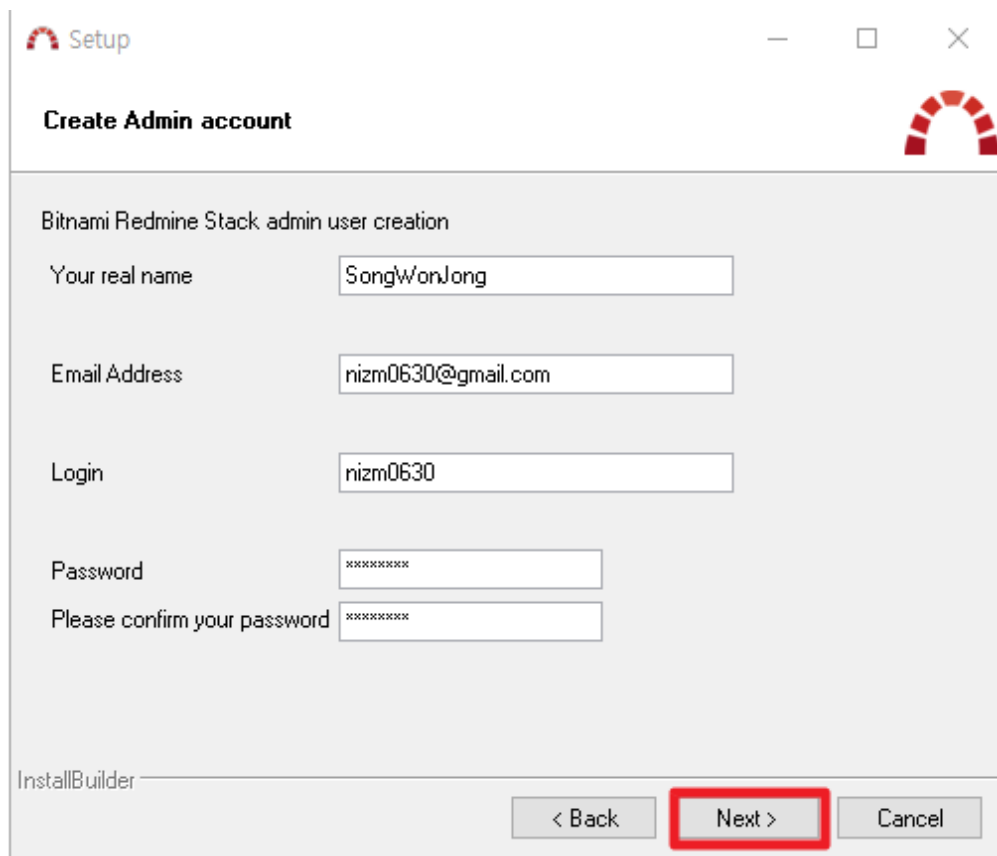
패스워드

패스워드를 재입력

InstallBuilder

< 뒤로 **다음 >** 취소

Redmine 설치



Setup

Create Admin account

Bitnami Redmine Stack admin user creation

Your real name

Email Address

Login

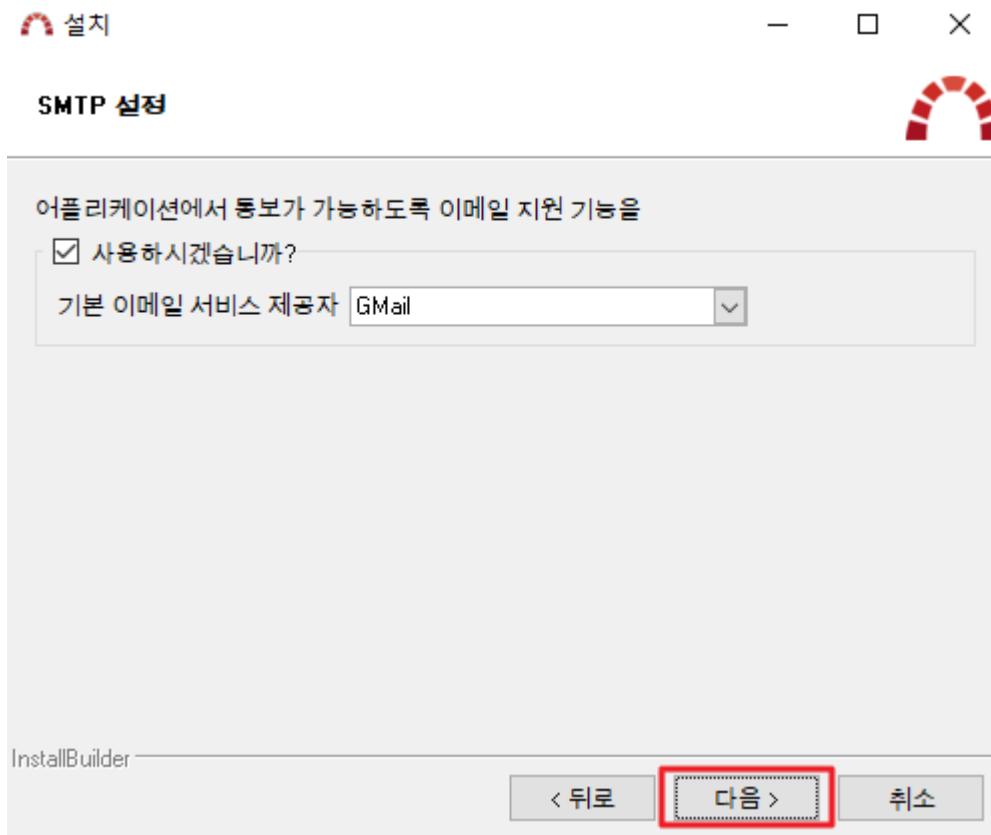
Password

Please confirm your password

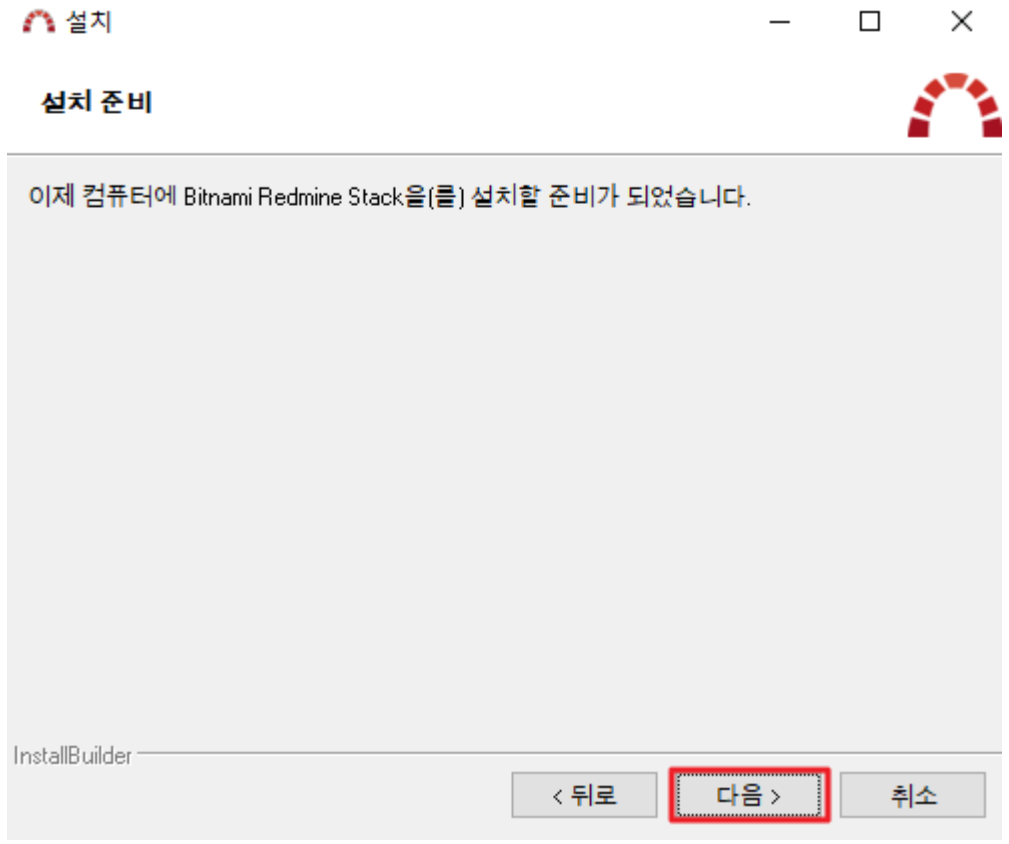
InstallBuilder

< Back **Next >** Cancel

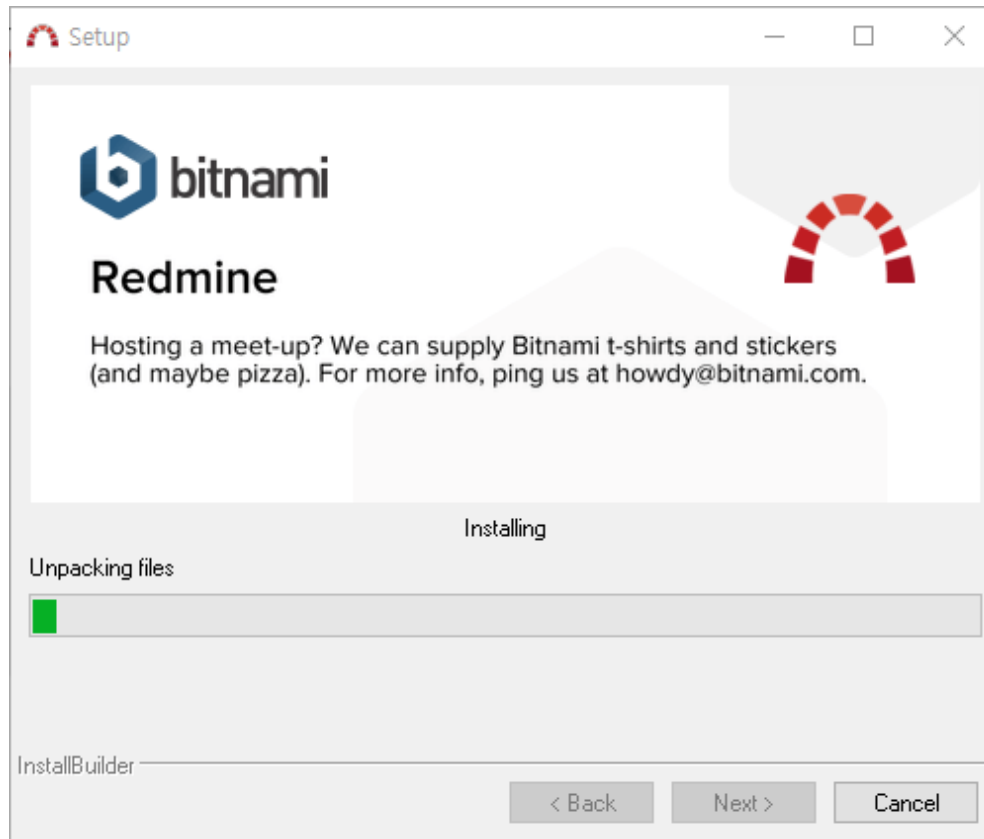
Redmine 설치



Redmine 설치



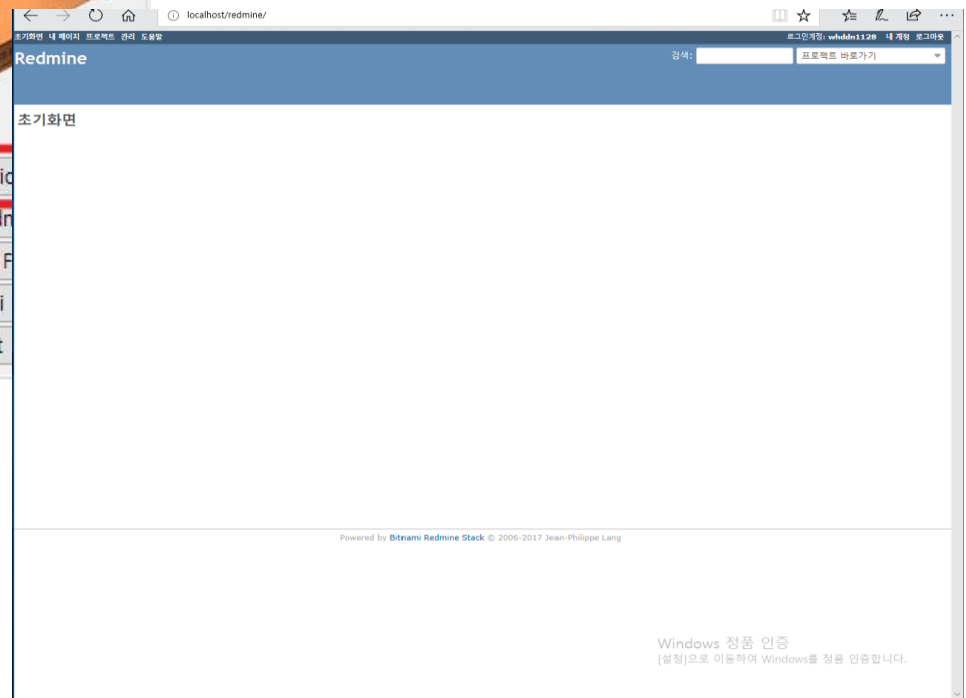
Redmine 설치



Redmine 실행



-URL에 해당 IP + 등록된 Port번호
-Application실행



Redmine 실행 Project 생성



Redmine 실행

초기화면 내 페이지 프로젝트 관리 도움말 로그인계정: whddn1128 내 계정 로그아웃

Redmine 검색: 프로젝트 바로가기 ▼

프로젝트 작업내역 일감 소요 시간 Gantt 차트 달력 뉴스

새 프로젝트

1 이름 *

설명 **B** *I* U ~~S~~ **C** H1 H2 H3 pre

식별자 *
1 에서 100 글자 소문자(a-z),숫자,대쉬(-)와 밑줄(_)만 가능합니다.
식별자는 저장후에는 수정할 수 없습니다.

홈페이지

공개

상위 프로젝트 구성원 상속

모듈

<input checked="" type="checkbox"/> 일감관리	<input checked="" type="checkbox"/> 시간추적	<input checked="" type="checkbox"/> 뉴스	<input checked="" type="checkbox"/> 문서
<input checked="" type="checkbox"/> 파일	<input checked="" type="checkbox"/> 위키	<input checked="" type="checkbox"/> 저장소	<input checked="" type="checkbox"/> 게시판
<input checked="" type="checkbox"/> 달력	<input checked="" type="checkbox"/> Gantt 차트		

일감 유형

<input checked="" type="checkbox"/> 결함	<input checked="" type="checkbox"/> 새기능	<input checked="" type="checkbox"/> 지원
--	---	--

2 **만들기** 만들고 계속하기

Redmine 실행

Issue 생성

초기화면 내 페이지 프로젝트 관리 도움말 로그인계정: whddn1128 내 계정 로그아웃

SV_2018 검색: SV_2018

+ 개요 작업내역 **1** 일감 소요 시간 Gantt 차트 달력 뉴스 문서 위키 파일 설정

새 일감만들기

Fill In

유형 * 지원 비공개

제목 * Jenkins + Git push 연동

설명 B I U S C H1 H2 H3 pre

연동하고 push후 빌드 확인할것, 등록된 메일로 메일 잘 오는지 확인할 것.

상태 * 신규

우선순위 * 보통

담당자 << 나 >>

상위 일감

시작시간 2018-03-30

완료기한 2018-04-02

추정시간 시간

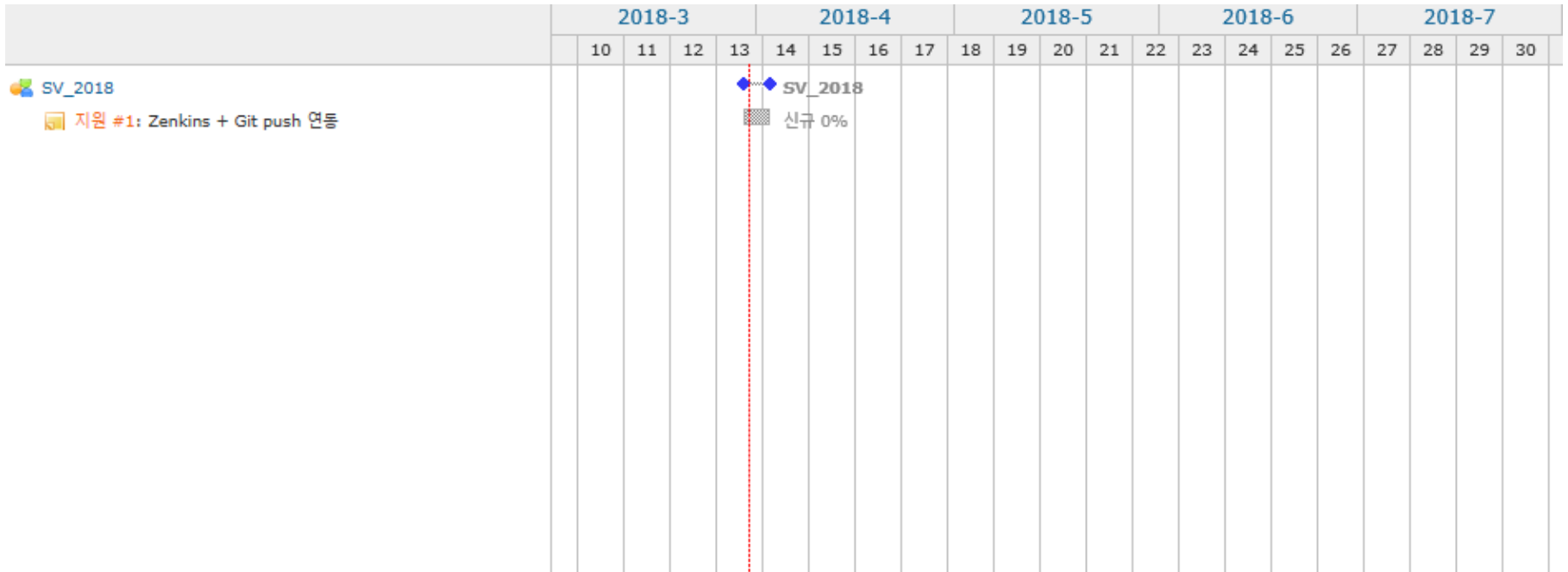
진척도 0 %

파일 (최대 크기: 5 MB)

일감관람자 추가할 일감관람자 검색

2

Redmine 실행 Gantt 차트



Redmine 실행

달력

▼ 검색조건

상태

진행중 ▼

검색조건 추가

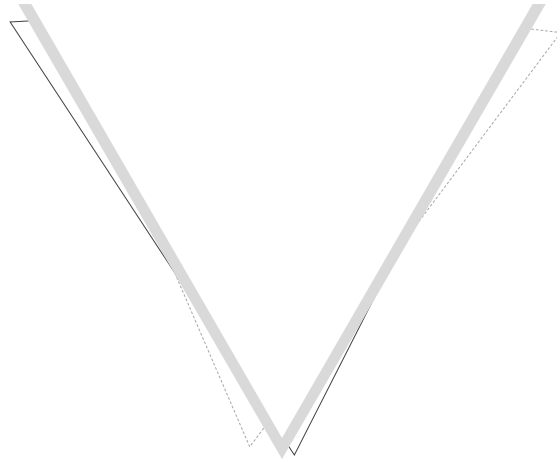
월 3월 ▼ 년 2018 ▼ 적용 지우기

« 2월 | 4월 »

	일요일	월요일	화요일	수요일	목요일	금요일	토요일
9	25	26	27	28	1	2	3
10	4	5	6	7	8	9	10
11	11	12	13	14	15	16	17
12	18	19	20	21	22	23	24
13	25	26	27	28	29	30	31

⇒ 지원 #1: Zenkins
+ Git push 연동

Q&A



THANK YOU

