

Introduction to SVN&Mantis

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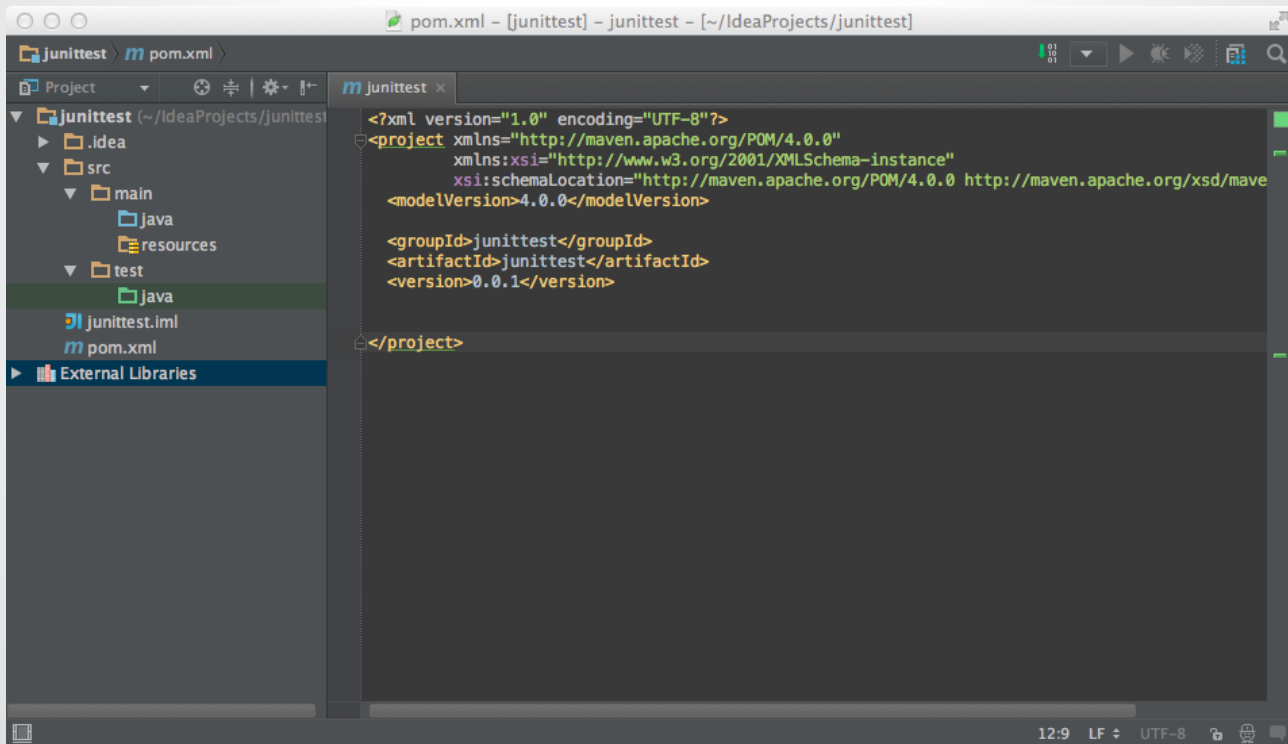
JUnit 이란?

- JUnit은 자바에서 만든 **UnitTest** 도구이자 라이브러리이다.
- JUnit은 크게 **Tester** 부분과 **Assertion** 메소드로 구분되어 있다.

JUnit 설치 및 테스트

- IntelliJ IDEA와 Maven을 기반으로 설치와 테스트를 진행해본다.

JUnit 설치 및 테스트



The screenshot shows an IDE window titled "pom.xml - [junittest] - junittest - [~/IdeaProjects/junittest]". The left sidebar displays a project tree for "junittest" with the following structure:

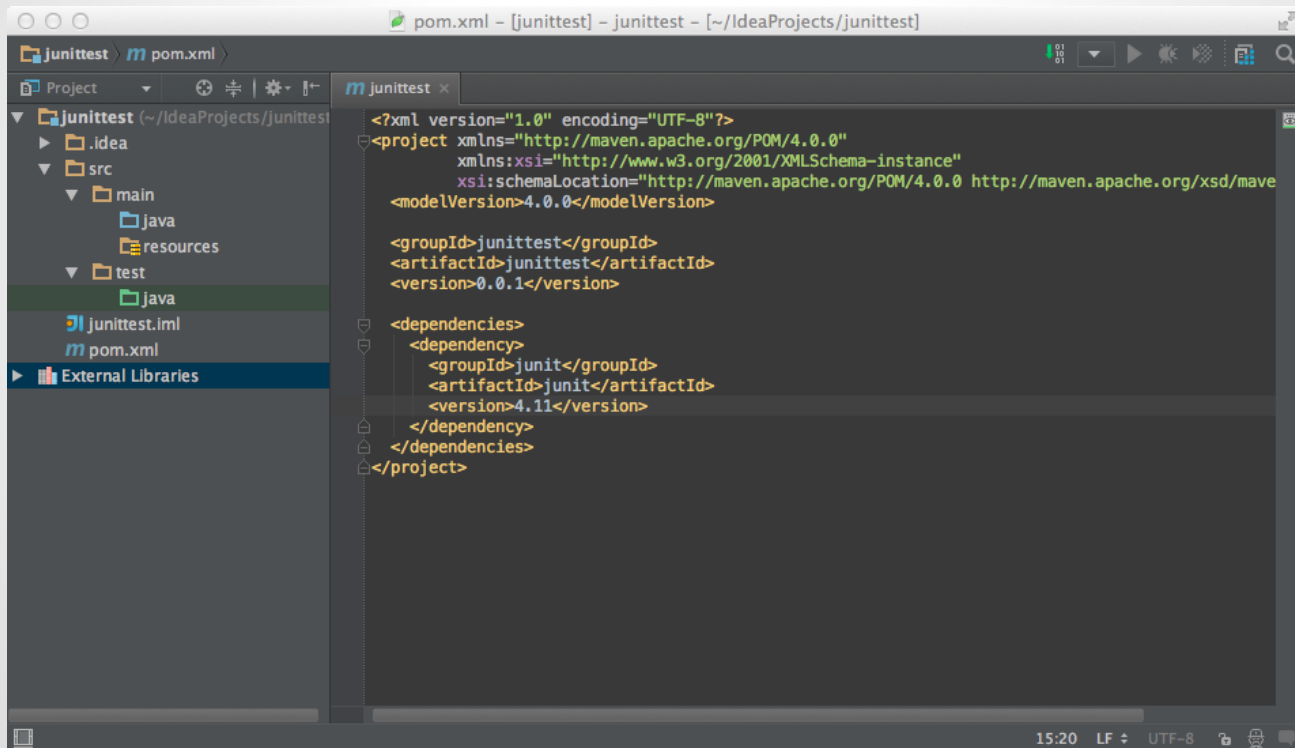
- Project
 - Junittest (~/IdeaProjects/junittest)
 - .idea
 - src
 - main
 - java
 - resources
 - test
 - java
 - junittest.iml
 - pom.xml
 - External Libraries

The main editor area shows the content of the pom.xml file:

```
<?xml version="1.0" encoding="UTF-8"?>  
<project xmlns="http://maven.apache.org/POM/4.0.0"  
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
  <modelVersion>4.0.0</modelVersion>  
  
  <groupId>junittest</groupId>  
  <artifactId>junittest</artifactId>  
  <version>0.0.1</version>  
  
</project>
```

The status bar at the bottom indicates the time is 12:9, the file encoding is UTF-8, and there are icons for search and other IDE functions.

JUnit 설치 및 테스트



The screenshot shows an IDE window with the following content:

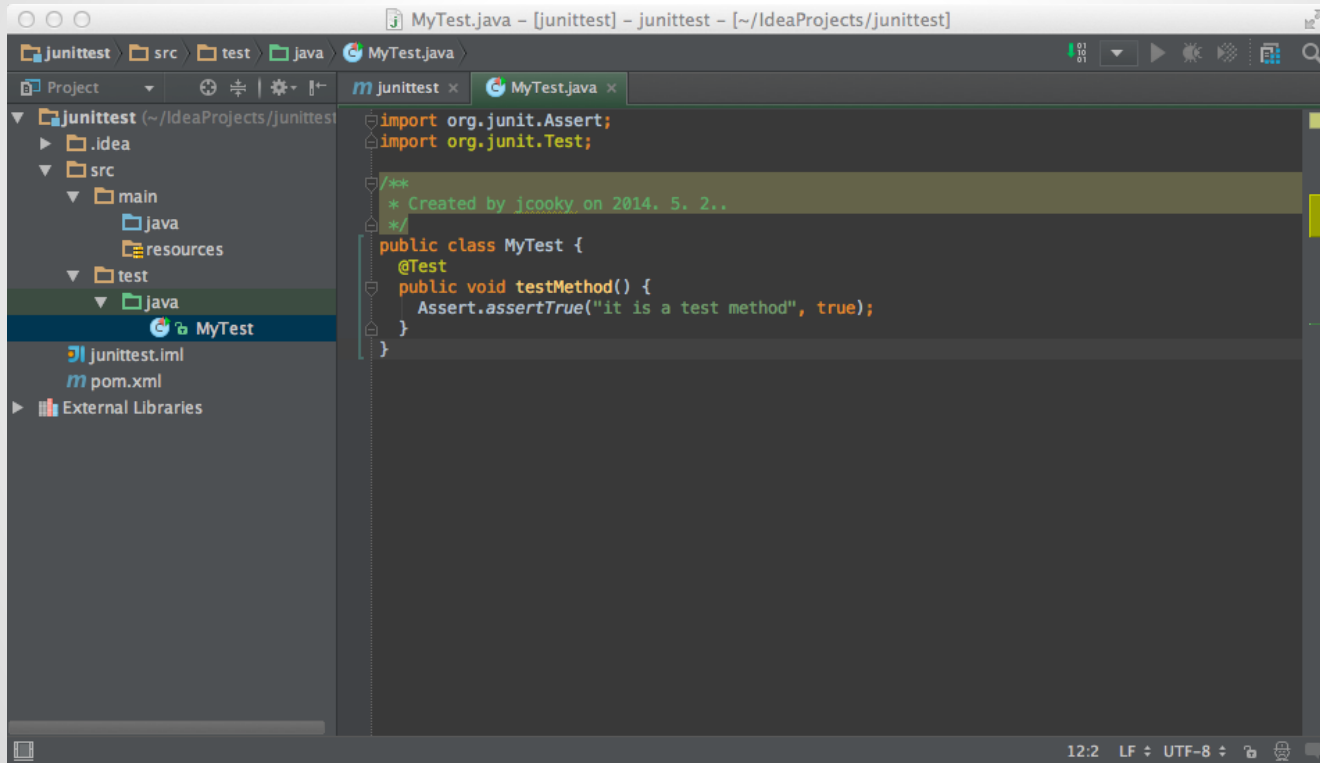
- Window title: pom.xml - [junittest] - junittest - [~/IdeaProjects/junittest]
- Project view (left):
 - Project: junittest (~/IdeaProjects/junittest)
 - src
 - main
 - java
 - resources
 - test
 - java
 - junittest.iml
 - m pom.xml
 - External Libraries
- Code editor (right):

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/mave
  <modelVersion>4.0.0</modelVersion>

  <groupId>junittest</groupId>
  <artifactId>junittest</artifactId>
  <version>0.0.1</version>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.11</version>
    </dependency>
  </dependencies>
</project>
```
- Status bar (bottom): 15:20 LF UTF-8

JUnit 설치 및 테스트



The screenshot shows an IDE window titled "MyTest.java - [junittest] - junittest - [~/IdeaProjects/junittest]". The left sidebar displays a project tree for "junittest" with the following structure:

- junittest (~/IdeaProjects/junittest)
 - .idea
 - src
 - main
 - java
 - resources
 - test
 - java
 - MyTest
 - junittest.iml
 - pom.xml
 - External Libraries

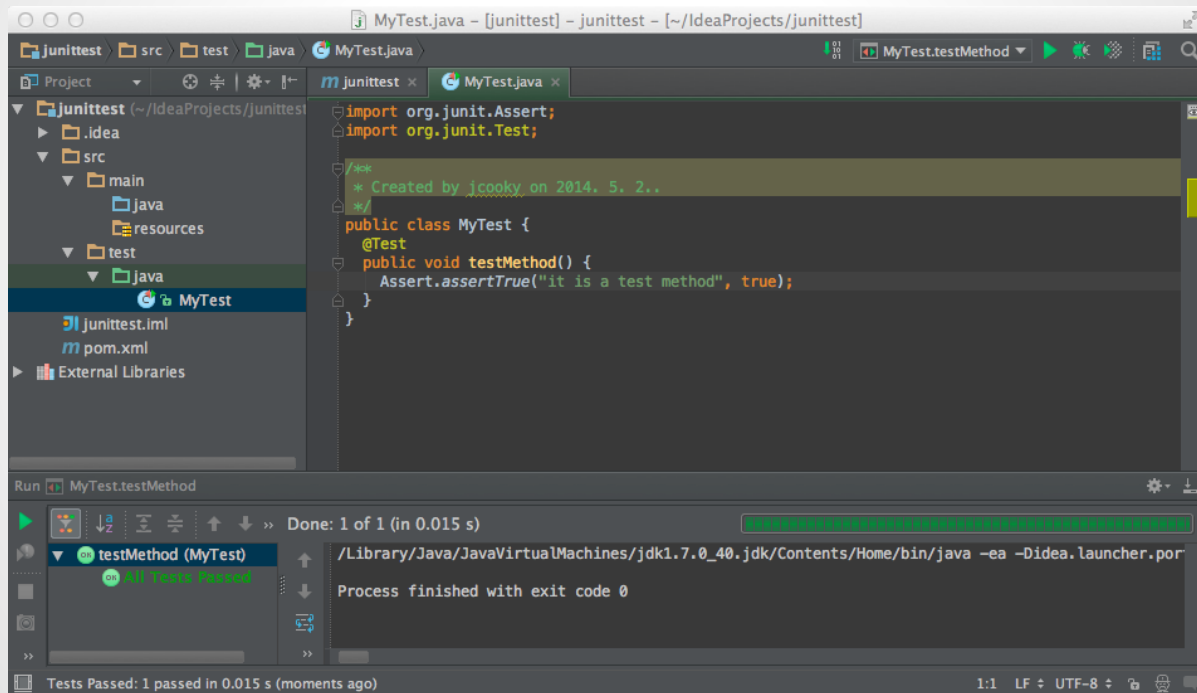
The main editor area shows the code for "MyTest.java":

```
import org.junit.Assert;
import org.junit.Test;

/**
 * Created by jcooky on 2014. 5. 2..
 */
public class MyTest {
    @Test
    public void testMethod() {
        Assert.assertTrue("it is a test method", true);
    }
}
```

The status bar at the bottom indicates the time is 12:2, the file encoding is LF, and the character set is UTF-8.

JUnit 설치 및 테스트



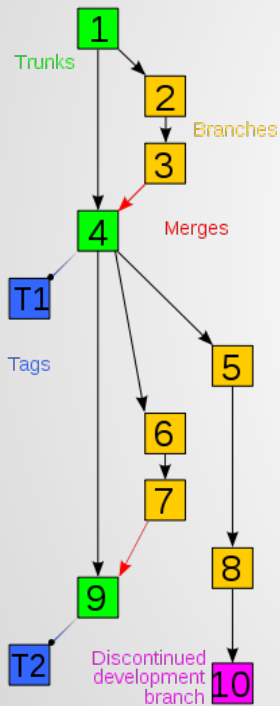
테스트 환경 설명

- OS : OS X Mavericks
- IDE : IntelliJ IDEA 13.1
- Subversion 1.8.8
- Mantis 1.2.17

Version Control System(VCS) 이란?

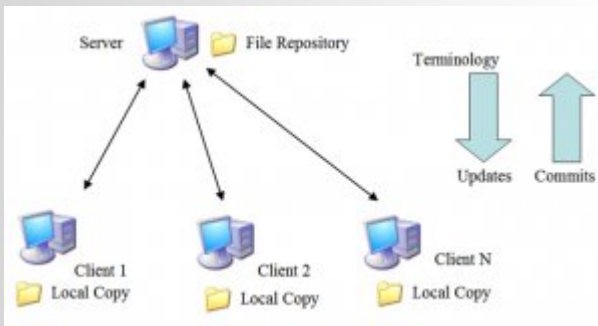
- 보통 소스 코드나 청사진 같은 설계도 등의 디지털 문서를 관리하는데 사용
- 문서의 변경 사항을 추적하고 버전을 부여하기 위해 만들어 졌다.
- 다른 이름으로 Revision Control, Source Control이라고 불린다.
- 공통적으로 Baseline, branch, merge, tagging과 같은 기능들이 있다.
- 구현체로는 Git, SVN, Mercurial, ClearCase 등이 있다.
- 본 자료에서는 SVN을 중점적으로 설명한다.

Version Control System(VCS) 이란?



- 옆 사진은 VCS에서 쓰는 대표적인 Revision Graph를 보여준다.
- 여기서 Revision이란, 프로젝트의 변경 횟수를 의미한다.
- SVN같은 경우 Revision을 기반으로 설계가 되었다.
- SVN의 브랜치 모델의 단점
 - SVN은 머지를 할 경우 라인별로 비교하기 때문에 버전충돌이 일어날 수 있다.

Version Control System(VCS) 이란?



- 옆 사진은 **SVN**을 사용하는 그림이다.
- 보통 개발자는 자기 **PC**에서 **SVN**에 접속하여 커밋, 업데이트와 같은 행동을 수행한다.
 - **Commit(커밋)** : **PC**에서 수정한 소스코드를 서버에 올리는 과정. 이 때, 서버에서 프로젝트의 **Revision**이 올라간다.
 - **Update(업데이트)** : 서버의 해당 브랜치의 소스코드 또는 특정 리비전의 소스코드를 **PC**에 내려받는 과정. 이 때, **PC**에서 프로젝트의 **Revision**이 올라가거나 특정 리비전에 고정된다.

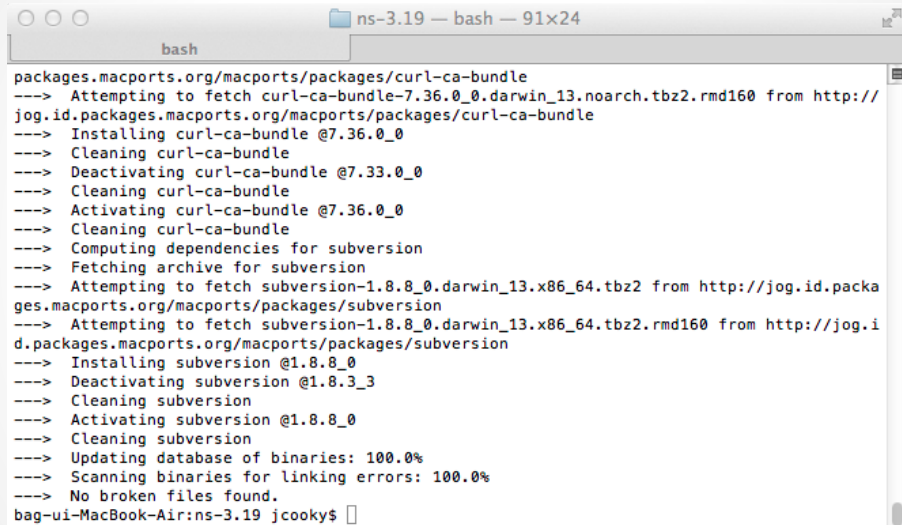
SVN 설치

- Macports를 이용하여 Subversion을 설치
- `$ sudo port install subversion`
- 위 명령어를 실행하여 설치

SVN 설치

```
bag-ui-MacBook-Air:ns-3.19 jcooky$ sudo port install subversion
----> Fetching archive for apr
----> Attempting to fetch apr-1.5.0_0.darwin_13.x86_64.tbz2 from http://jog.id.packages.macports.org/macports/packages/apr
----> Attempting to fetch apr-1.5.0_0.darwin_13.x86_64.tbz2.rmd160 from http://jog.id.packages.macports.org/macports/packages/apr
----> Installing apr @1.5.0_0
----> Cleaning apr
----> Deactivating apr @1.4.8_0
----> Cleaning apr
----> Activating apr @1.5.0_0
----> Cleaning apr
----> Computing dependencies for apr-util
----> Fetching archive for apr-util
----> Attempting to fetch apr-util-1.5.3_0.darwin_13.x86_64.tbz2 from http://jog.id.packages.macports.org/macports/packages/apr-util
----> Attempting to fetch apr-util-1.5.3_0.darwin_13.x86_64.tbz2.rmd160 from http://jog.id.packages.macports.org/macports/packages/apr-util
----> Installing apr-util @1.5.3_0
----> Cleaning apr-util
----> Computing dependencies for apr-util
----> Deactivating apr-util @1.5.2_1
----> Cleaning apr-util
----> Activating apr-util @1.5.3_0
```

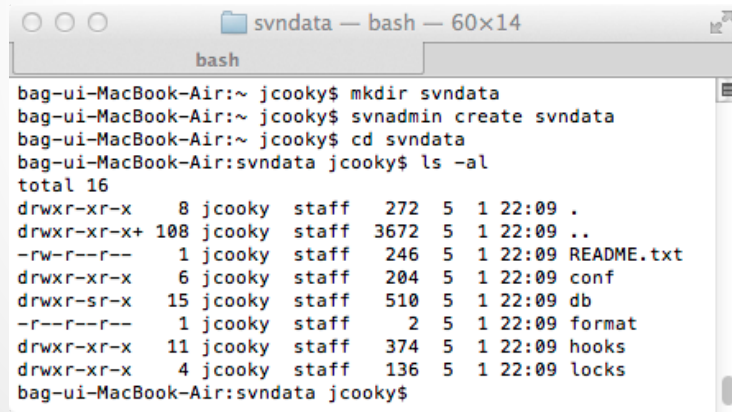
SVN 설치



```
packages.macports.org/macports/packages/curl-ca-bundle
--> Attempting to fetch curl-ca-bundle-7.36.0_0.darwin_13.noarch.tbz2.rmd160 from http://
jog.id.packages.macports.org/macports/packages/curl-ca-bundle
--> Installing curl-ca-bundle @7.36.0_0
--> Cleaning curl-ca-bundle
--> Deactivating curl-ca-bundle @7.33.0_0
--> Cleaning curl-ca-bundle
--> Activating curl-ca-bundle @7.36.0_0
--> Cleaning curl-ca-bundle
--> Computing dependencies for subversion
--> Fetching archive for subversion
--> Attempting to fetch subversion-1.8.8_0.darwin_13.x86_64.tbz2 from http://jog.id.packa
ges.macports.org/macports/packages/subversion
--> Attempting to fetch subversion-1.8.8_0.darwin_13.x86_64.tbz2.rmd160 from http://jog.i
d.packages.macports.org/macports/packages/subversion
--> Installing subversion @1.8.8_0
--> Deactivating subversion @1.8.3_3
--> Cleaning subversion
--> Activating subversion @1.8.8_0
--> Cleaning subversion
--> Updating database of binaries: 100.0%
--> Scanning binaries for linking errors: 100.0%
--> No broken files found.
bag-ui-MacBook-Air:ns-3.19 jcooky$
```

SVN 설치

- `$ mkdir svndata` <- 프로젝트가 들어갈 폴더를 만든다.
- `$ svnadmin create svndata` <- SVN 프로젝트로 지정

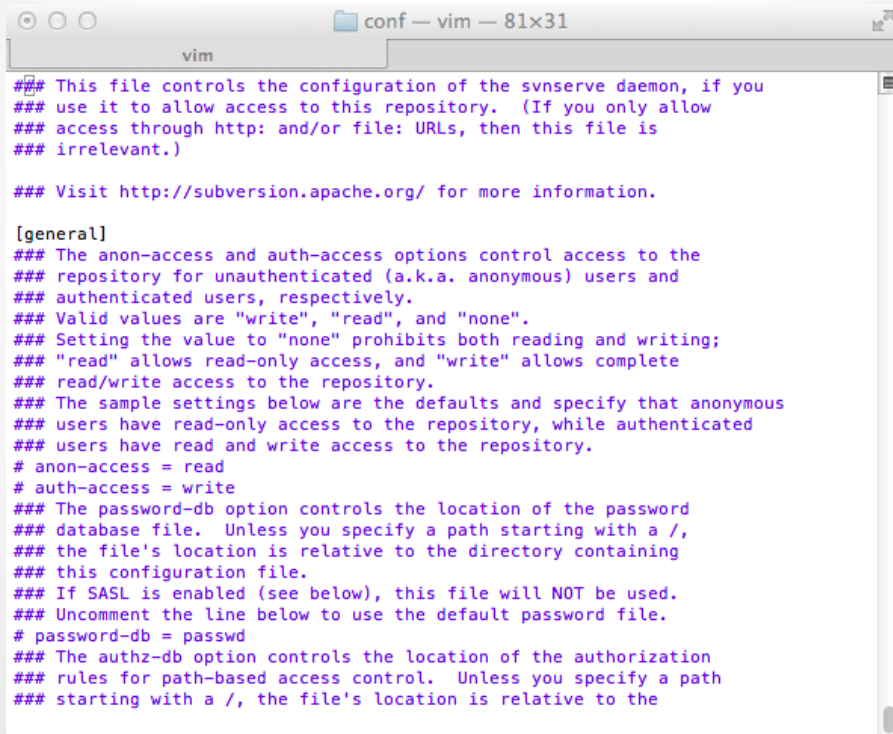


```
svndata — bash — 60x14
bash
bag-ui-MacBook-Air:~ jcooky$ mkdir svndata
bag-ui-MacBook-Air:~ jcooky$ svnadmin create svndata
bag-ui-MacBook-Air:~ jcooky$ cd svndata
bag-ui-MacBook-Air:svndata jcooky$ ls -al
total 16
drwxr-xr-x  8 jcooky  staff   272  5  1 22:09 .
drwxr-xr-x+108 jcooky  staff  3672  5  1 22:09 ..
-rw-r--r--  1 jcooky  staff   246  5  1 22:09 README.txt
drwxr-xr-x  6 jcooky  staff   204  5  1 22:09 conf
drwxr-sr-x 15 jcooky  staff   510  5  1 22:09 db
-r--r--r--  1 jcooky  staff    2  5  1 22:09 format
drwxr-xr-x 11 jcooky  staff   374  5  1 22:09 hooks
drwxr-xr-x  4 jcooky  staff   136  5  1 22:09 locks
bag-ui-MacBook-Air:svndata jcooky$
```


SVN 설치

- `svnserve.conf`를 열어 `password-db`, `anon-access`, `auth-access`의 주석을 풀어준다.
- `conf/passwd`를 열어서 아이디와 패스워드를 설정한다.
- `$ svnserve -d -r ~/svndata`를 실행하면 SVN server가 열린다.

SVN 설치

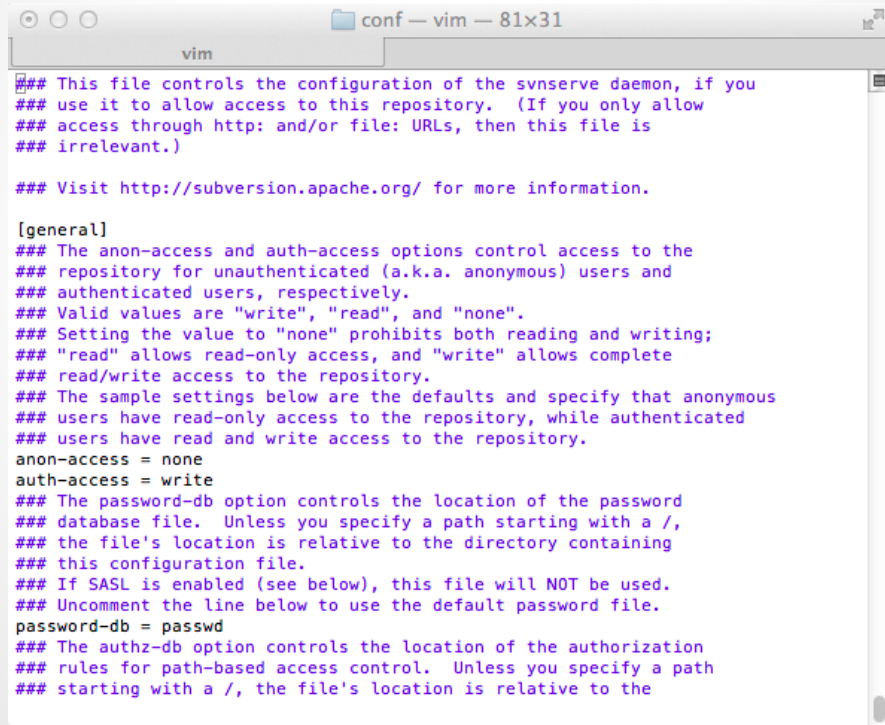


```
conf -- vim -- 81x31
vim
### This file controls the configuration of the svnserve daemon, if you
### use it to allow access to this repository. (If you only allow
### access through http: and/or file: URLs, then this file is
### irrelevant.)

### Visit http://subversion.apache.org/ for more information.

[general]
### The anon-access and auth-access options control access to the
### repository for unauthenticated (a.k.a. anonymous) users and
### authenticated users, respectively.
### Valid values are "write", "read", and "none".
### Setting the value to "none" prohibits both reading and writing;
### "read" allows read-only access, and "write" allows complete
### read/write access to the repository.
### The sample settings below are the defaults and specify that anonymous
### users have read-only access to the repository, while authenticated
### users have read and write access to the repository.
# anon-access = read
# auth-access = write
### The password-db option controls the location of the password
### database file. Unless you specify a path starting with a /,
### the file's location is relative to the directory containing
### this configuration file.
### If SASL is enabled (see below), this file will NOT be used.
### Uncomment the line below to use the default password file.
# password-db = passwd
### The authz-db option controls the location of the authorization
### rules for path-based access control. Unless you specify a path
### starting with a /, the file's location is relative to the
```

SVN 설치



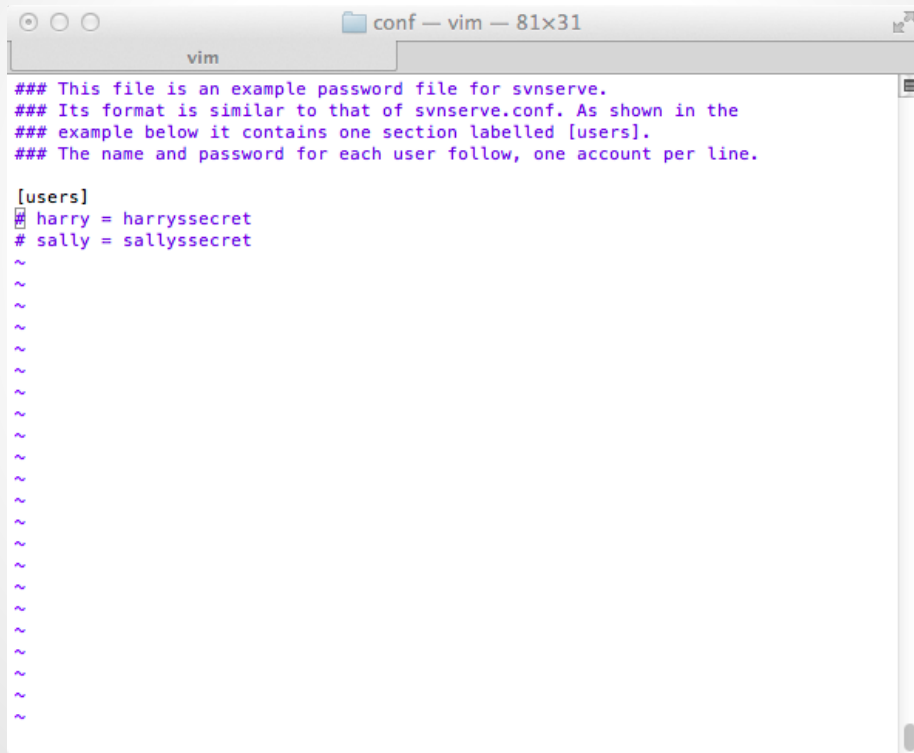
```
vim
conf -- vim -- 81x31

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### use it to allow access to this repository. (If you only allow
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[general]
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### The sample settings below are the defaults and specify that anonymous
### users have read-only access to the repository, while authenticated
### users have read and write access to the repository.
anon-access = none
auth-access = write
### The password-db option controls the location of the password
### database file. Unless you specify a path starting with a /,
### the file's location is relative to the directory containing
### this configuration file.
### If SASL is enabled (see below), this file will NOT be used.
### Uncomment the line below to use the default password file.
password-db = passwd
### The authz-db option controls the location of the authorization
### rules for path-based access control. Unless you specify a path
### starting with a /, the file's location is relative to the
```

SVN 설치

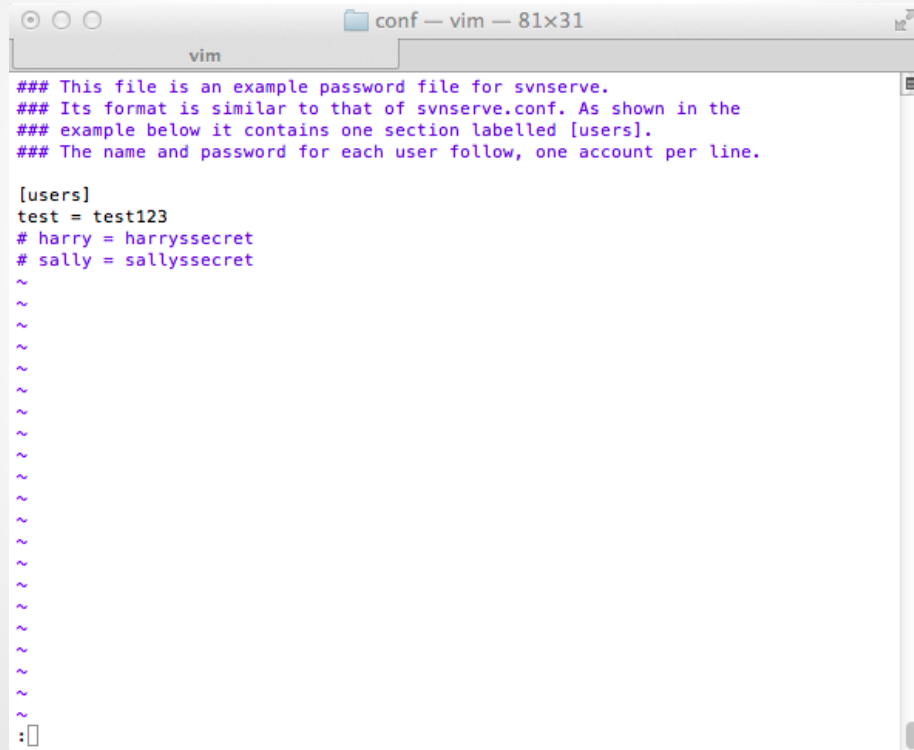


```
vim
conf -- vim -- 81x31

### This file is an example password file for svnserve.
### Its format is similar to that of svnserve.conf. As shown in the
### example below it contains one section labelled [users].
### The name and password for each user follow, one account per line.

[users]
harry = harryssecret
# sally = sallyssecret
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
```

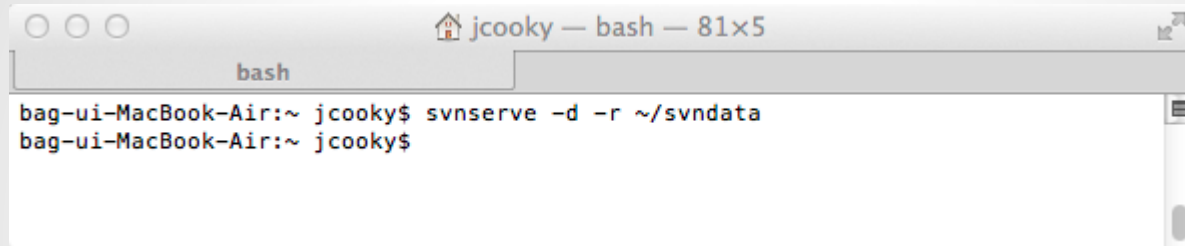
SVN 설치



```
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### This file is an example password file for svnserve.
### Its format is similar to that of svnserve.conf. As shown in the
### example below it contains one section labelled [users].
### The name and password for each user follow, one account per line.

[users]
test = test123
# harry = harryssecret
# sally = sallysecret
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
```

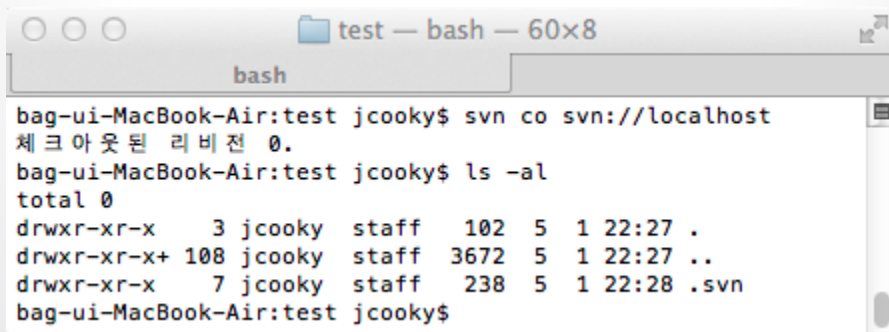
SVN 설치

A screenshot of a macOS terminal window. The title bar shows 'jcooky — bash — 81x5'. The terminal content shows the command 'svnserve -d -r ~/svndata' being executed and the prompt returning to 'jcooky\$'.

```
bash
bag-ui-MacBook-Air:~ jcooky$ svnserve -d -r ~/svndata
bag-ui-MacBook-Air:~ jcooky$
```

SVN 테스트

- svn 명령어를 통해 테스트를 수행한다.
- `$ svn co svn://localhost`
- `.svn`이 지금 폴더에 생겼는지 확인한다.

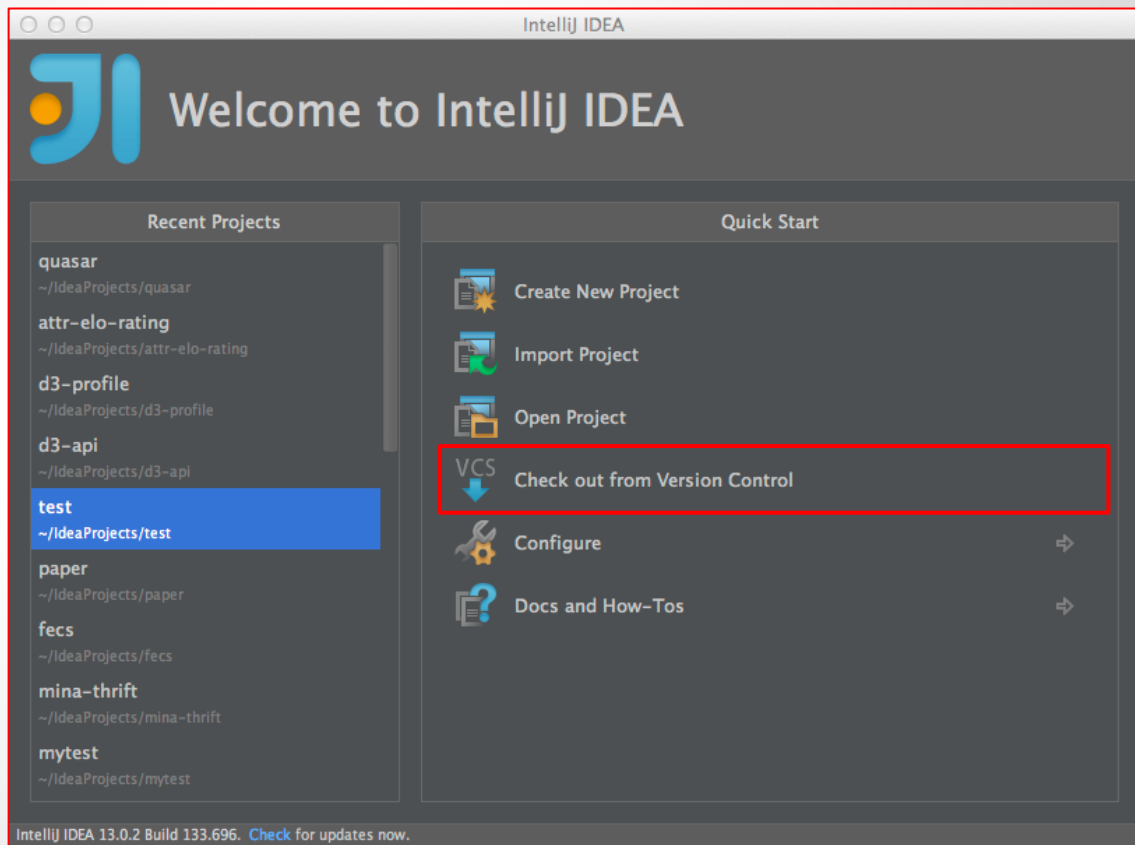


```
test — bash — 60x8
bash
bag-ui-MacBook-Air:test jcooky$ svn co svn://localhost
체크아웃된 리비전 0.
bag-ui-MacBook-Air:test jcooky$ ls -al
total 0
drwxr-xr-x  3 jcooky  staff   102  5  1  22:27  .
drwxr-xr-x+ 108 jcooky  staff  3672  5  1  22:27  ..
drwxr-xr-x  7 jcooky  staff   238  5  1  22:28  .svn
bag-ui-MacBook-Air:test jcooky$
```

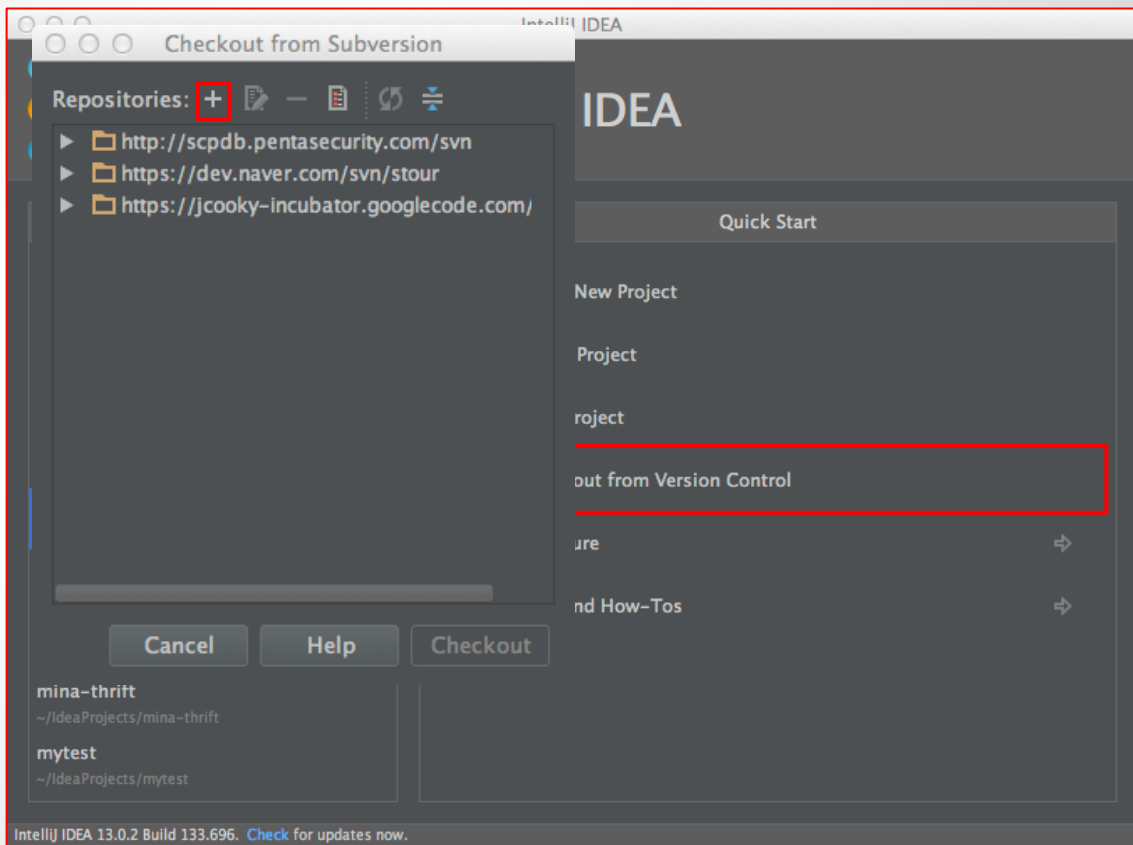
SVN 테스트

- IDE에서 테스트를 해본다.

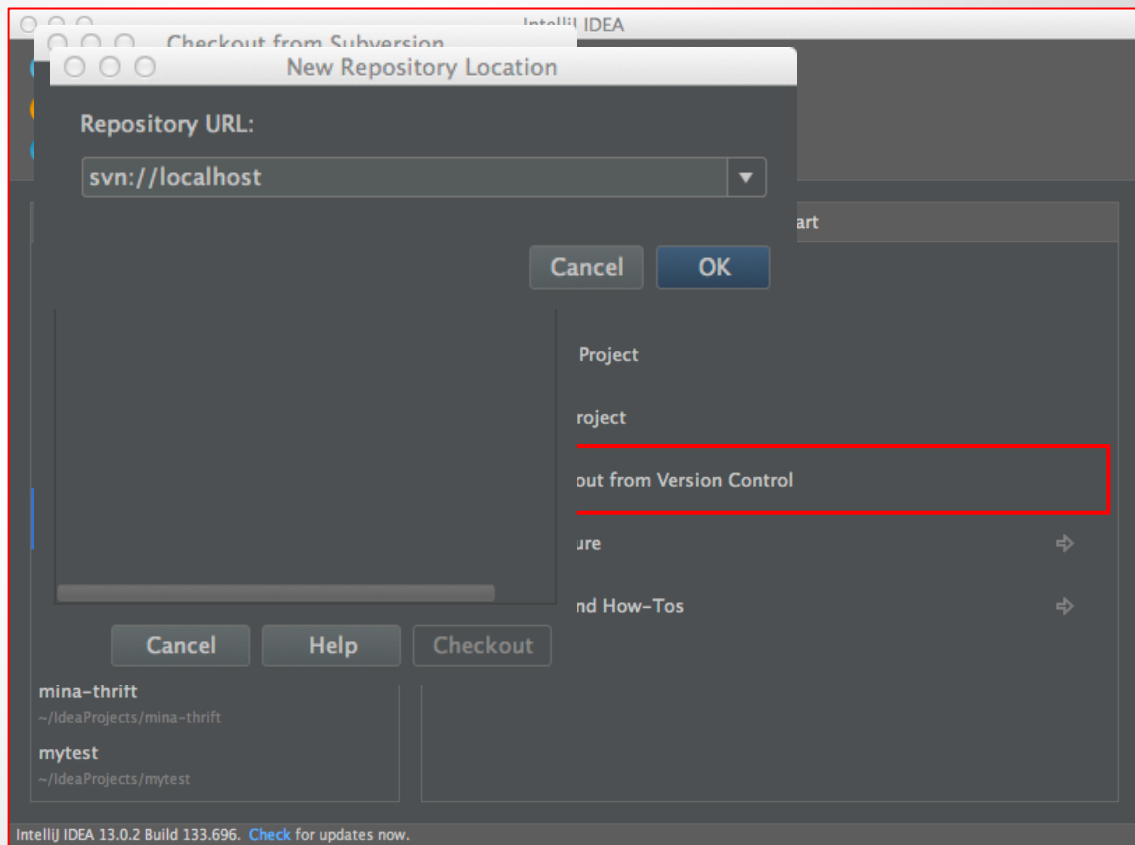
SVN 테스트



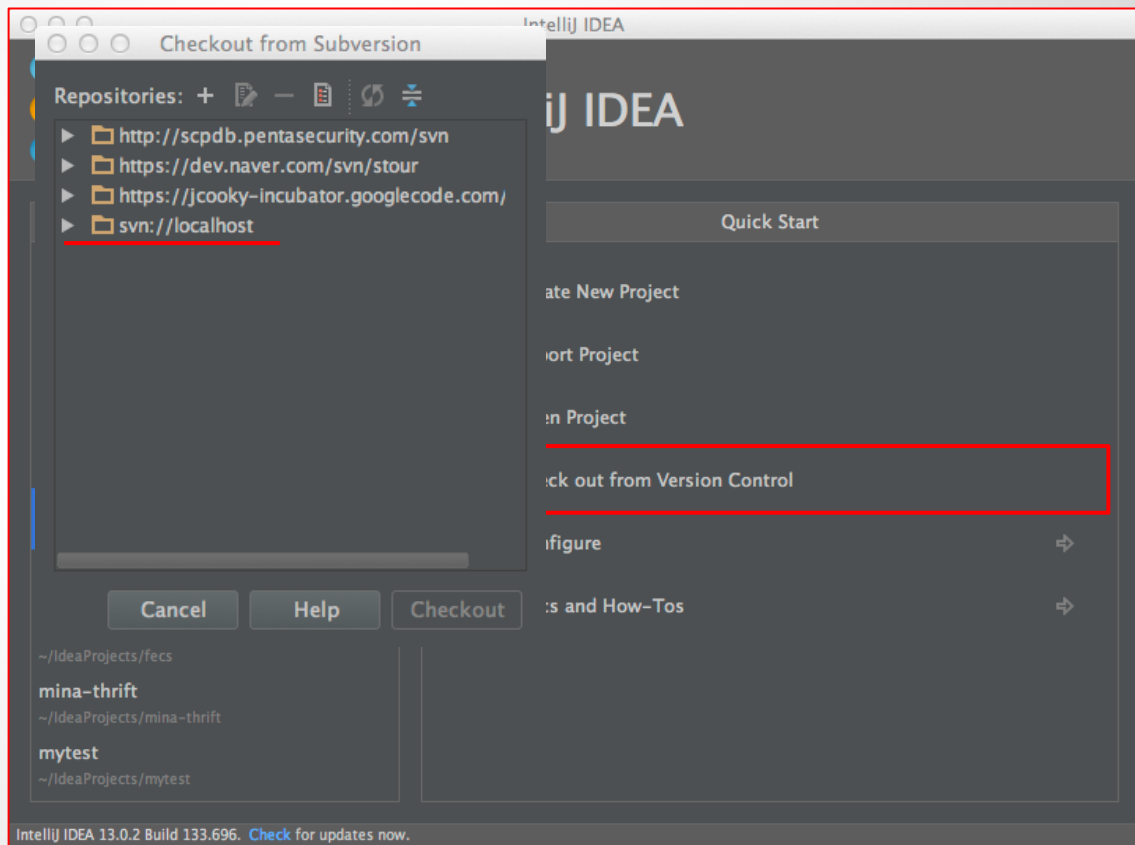
SVN 테스트



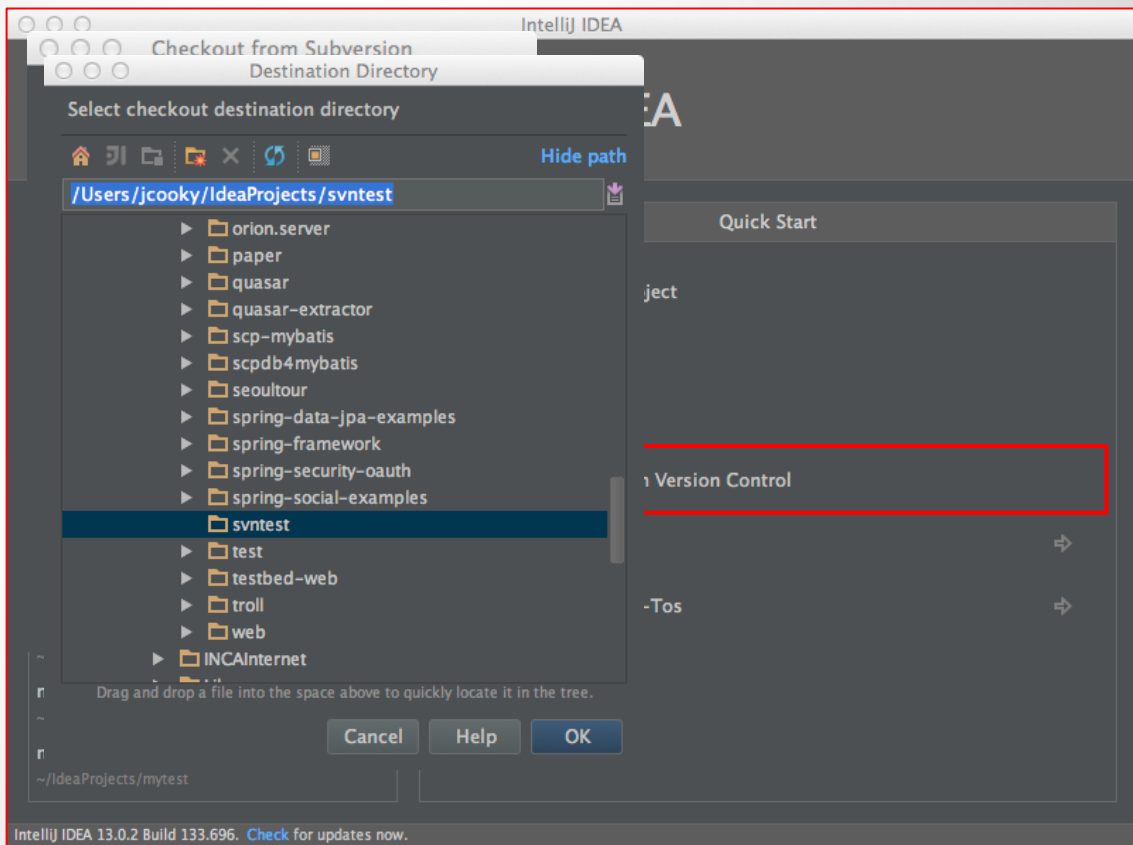
SVN 테스트



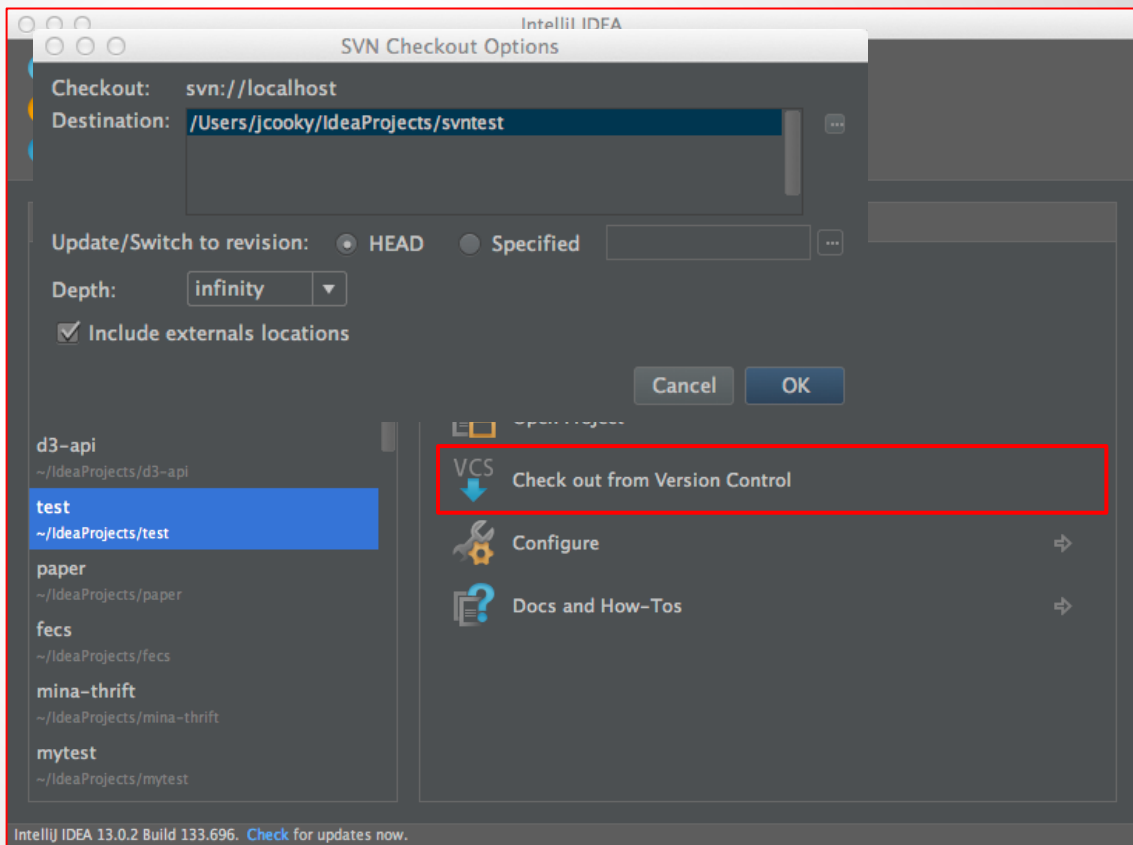
SVN 테스트



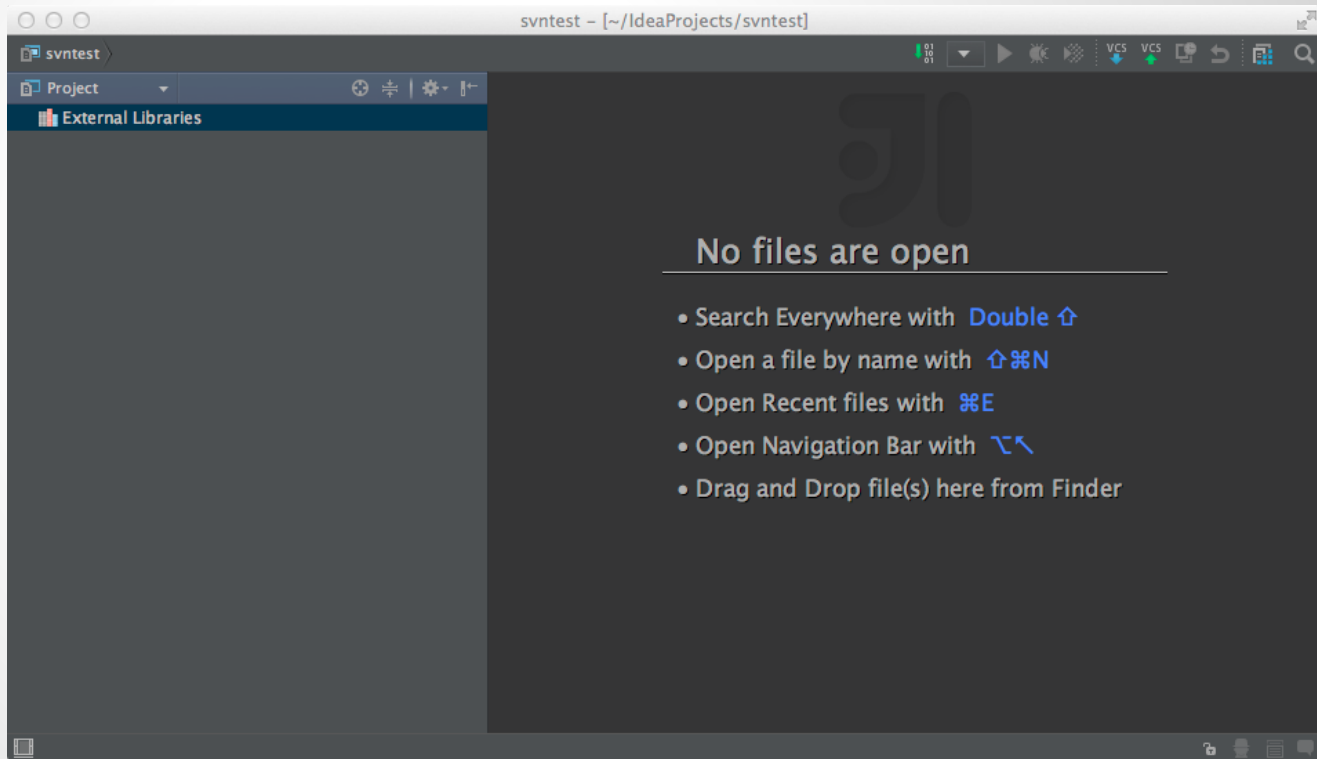
SVN 테스트



SVN 테스트



SVN 테스트



Issue Tracker 란?

- Issue Tracker는 원래 Bug Tracker에서 출발
- 버그 뿐만이 아닌 이슈를 관리할 목적으로 확장됨
- 자연스럽게 프로젝트 관리 기능도 들어가게 되는 경우가 많음
- Mantis 같은 경우 이슈를 단계별로 처리하고 Roadmap까지 제공해줌

Mantis 설치

Apache2&PHP&MySQL을 준비

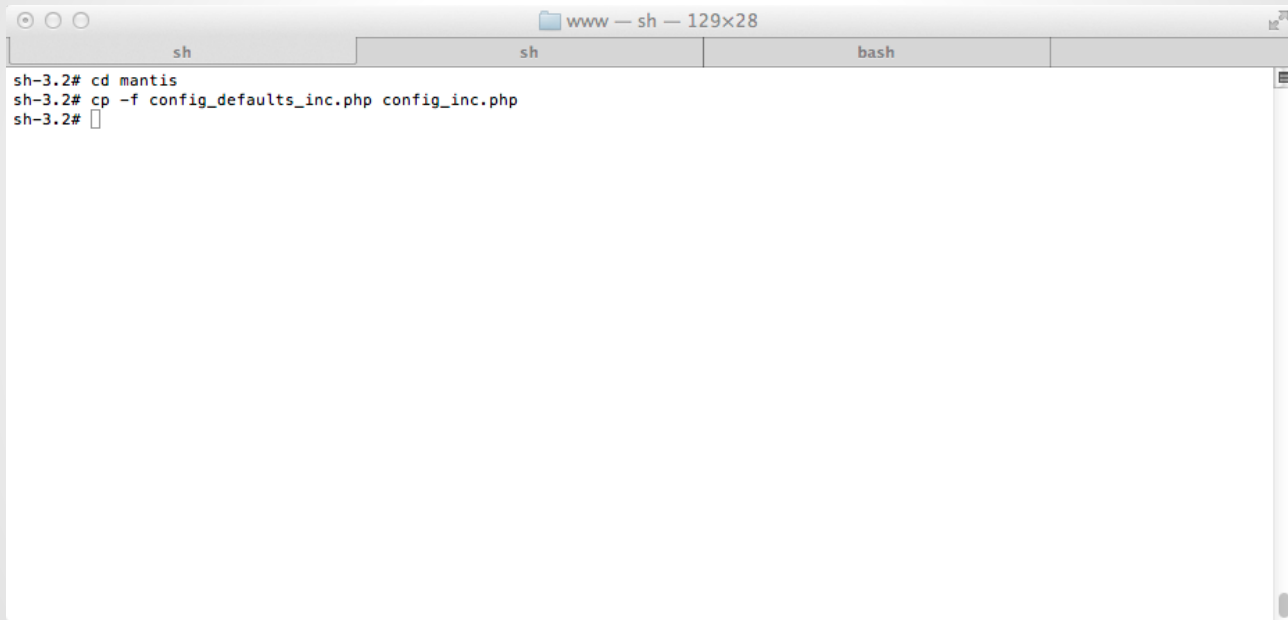
- `$ sudo port install apache2` <- apache2 설치
- `$ sudo port install mysql56` <- mysql 설치
- `$ sudo port install php5-mysql` <- php와 php-mysql 설치

Mantis 설치

- mantis를 다운받고 www폴더에 압축을 푼다.
- 폴더이름을 mantis로 변경
- mantis폴더 내에 config_defaults_inc.php를 config_inc.php로 바꿔준다.
- config_inc.php파일을 열어 아래의 값들을 바꿔준다.

```
$g_hostname='{MySQL hostname}'  
$g_db_username='{MySQL username}'  
$g_db_password='{MySQL password}'  
$g_database_name='{Mantis db name}'  
$g_db_schema=""  
$g_db_type='mysql'
```

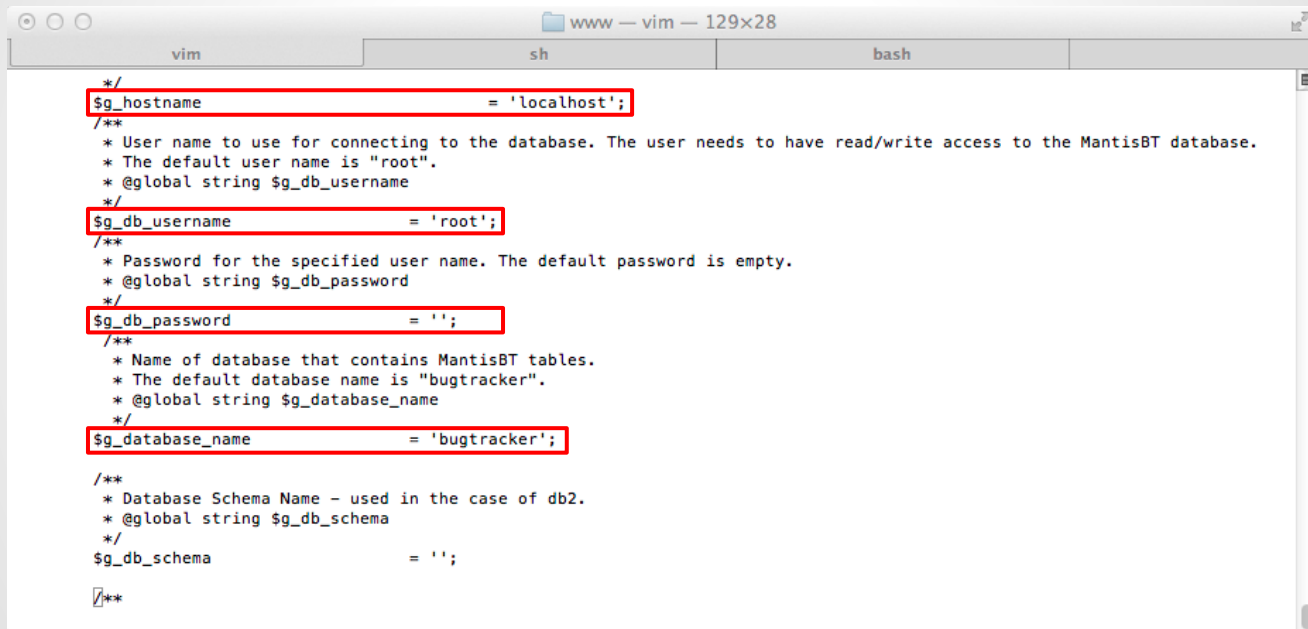
Mantis 설치



A terminal window titled "www - sh - 129x28" with three tabs labeled "sh", "sh", and "bash". The terminal content shows the following commands and their execution:

```
sh-3.2# cd mantis
sh-3.2# cp -f config_defaults_inc.php config_inc.php
sh-3.2#
```

Mantis 설치



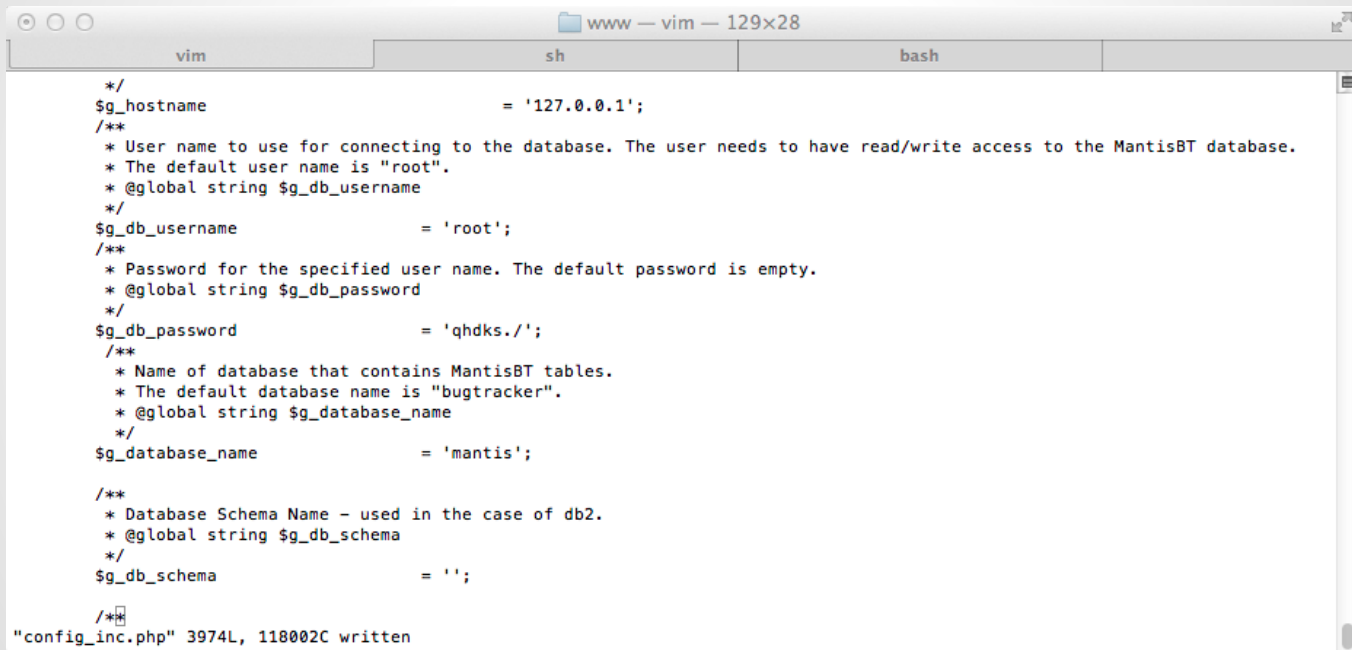
```
www — vim — 129x28
vim      sh      bash

*/
$g_hostname = 'localhost';
/**
 * User name to use for connecting to the database. The user needs to have read/write access to the MantisBT database.
 * The default user name is "root".
 * @global string $g_db_username
*/
$g_db_username = 'root';
/**
 * Password for the specified user name. The default password is empty.
 * @global string $g_db_password
*/
$g_db_password = '';
/**
 * Name of database that contains MantisBT tables.
 * The default database name is "bugtracker".
 * @global string $g_database_name
*/
$g_database_name = 'bugtracker';

/**
 * Database Schema Name - used in the case of db2.
 * @global string $g_db_schema
*/
$g_db_schema = '';

/**
```

Mantis 설치



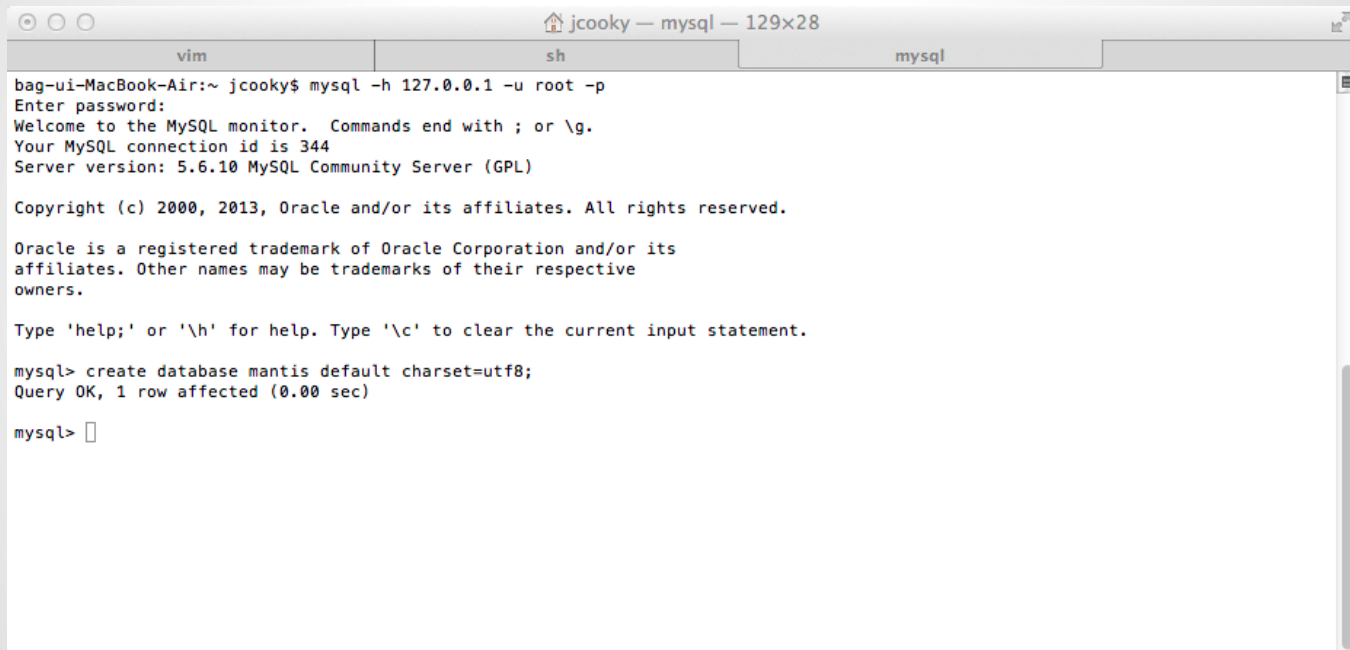
```
vim                               www — vim — 129x28
sh                                  bash

*/
$g_hostname                        = '127.0.0.1';
/**
 * User name to use for connecting to the database. The user needs to have read/write access to the MantisBT database.
 * The default user name is "root".
 * @global string $g_db_username
 */
$g_db_username                     = 'root';
/**
 * Password for the specified user name. The default password is empty.
 * @global string $g_db_password
 */
$g_db_password                     = 'qhdkc./';
/**
 * Name of database that contains MantisBT tables.
 * The default database name is "bugtracker".
 * @global string $g_database_name
 */
$g_database_name                   = 'mantis';

/**
 * Database Schema Name - used in the case of db2.
 * @global string $g_db_schema
 */
$g_db_schema                       = '';

/**
"config_inc.php" 3974L, 11802C written
```

Mantis 설치

A terminal window titled 'jcooky -- mysql -- 129x28' with tabs for 'vim', 'sh', and 'mysql'. The terminal shows the execution of 'mysql -h 127.0.0.1 -u root -p', followed by a password prompt and a MySQL welcome message. The user then enters 'create database mantis default charset=utf8;' and receives a confirmation message.

```
bag-ui-MacBook-Air:~ jcooky$ mysql -h 127.0.0.1 -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 344
Server version: 5.6.10 MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database mantis default charset=utf8;
Query OK, 1 row affected (0.00 sec)

mysql> 
```

Mantis 설치

← → ↻ 🏠 localhost/mantis/admin/install.php ☆ 📧 🌐 JB ☰

SYSTEM WARNING: 'date_default_timezone_get()': It is not safe to rely on the system's timezone settings. You are "required" to use the date.timezone setting or the date_default_timezone_set() function. In case you used any of those methods and you are still getting this warning, you most likely misspelled the timezone identifier. We selected the timezone 'UTC' for now, but please set date.timezone to select your timezone.' in '/Library/WebServer/Documents/mantis/core.php' line 274

[Back to Administration](#) **P r e - I n s t a l l a t i o n C h e c k**

Checking Installation...	
Config File Exists - Upgrade	GOOD
Setting Database Type	GOOD
Checking Database connection settings exist	GOOD
Checking PHP support for database type	GOOD
Config File Exists but Database does not	POSSIBLE PROBLEM Bad config_inc.php?
Checking PHP version (your version is 5.4.24)	GOOD
Checking if safe mode is enabled for install script	GOOD

Installation Options

Type of Database:

Hostname (for Database Server):

Username (for Database):

Password (for Database):

Database name (for Database):

Admin Username (to create Database if required):

Admin Password (to create Database if required):

Print SQL Queries instead of Writing to the Database:

Attempt Installation:

Mantis 설치

The screenshot shows the Mantis installation progress page for the database setup. The browser address bar indicates the URL is localhost/mantis/admin/install.php. The page title is "Check and Install Database".


Setting Database Hostname	GOOD
Setting Database Type	GOOD
Checking PHP support for database type	GOOD
Setting Database Username	GOOD
Setting Database Password	GOOD
Setting Database Name	GOOD
Setting Admin Username	GOOD
Setting Admin Password	GOOD
Attempting to connect to database as admin	GOOD
Attempting to connect to database as user	GOOD
Checking Database Server Version Running mysql version 5.6.10	GOOD

Installing Database

Create database if it does not exist	GOOD
Attempting to connect to database as user	GOOD
Schema CreateTableSQL (mantis_config_table)	GOOD
Schema CreateIndexSQL (idx_config)	GOOD
Schema CreateTableSQL (mantis_bug_file_table)	GOOD
Schema CreateIndexSQL (idx_bug_file_bug_id)	GOOD
Schema CreateTableSQL (mantis_bug_history_table)	GOOD
Schema CreateIndexSQL (idx_bug_history_bug_id)	GOOD
Schema CreateIndexSQL (idx_history_user_id)	GOOD
Schema CreateTableSQL (mantis_bug_monitor_table)	GOOD

Mantis 설치

← → ↻ 🏠 📄 localhost/mantis/login_page.php ☆ 📧 📍 📱 JB ☰



mantis
BUG TRACKER

Login	
Username	<input type="text"/>
Password	<input type="password"/>
Remember my login in this browser	<input type="checkbox"/>
Secure Session	<input checked="" type="checkbox"/> Only allow your session to be used from this IP address.
<input type="button" value="Login"/>	

[\[Signup for a new account \]](#) [\[Lost your password? \]](#)


Warning: You should disable the default 'administrator' account or change its password.

Warning: Admin directory should be removed.

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Mantis 테스트

← → ↻ 🏠 localhost/mantis/manage_proj_create_page.php ☆ M 📍 JB ☰



Logged in as: administrator (administrator) 2014-05-02 00:18 KST Project: All Projects + Switch


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[[Manage Users](#)] [[Manage Projects](#)] [[Manage Tags](#)] [[Manage Custom Fields](#)] [[Manage Global Profiles](#)] [[Manage Plugins](#)] [[Manage Configuration](#)]

Add Project


*Project Name	<input type="text" value="fecs"/>
Status	development ↕
Inherit Global Categories	<input checked="" type="checkbox"/>
View Status	public ↕
Description	<input type="text" value="FECs Project
Failover Elevator Controller Simulator"/>


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webmaster@example.com



Mantis 테스트

← → ↻ 🏠 localhost/mantis/manage_proj_page.php ☆ 📧 📍 JB ☰



Logged in as: administrator (administrator) 2014-05-02 00:22 KST 

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Projects

Name▲	Status	Enabled	View Status	Description
fecs	development	X	public	FECS Project Failover Elevator Controller Simulator

Global Categories

Category	Assign To	Actions
General		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
<input type="text"/>		<input type="button" value="Add Category"/>

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webmaster@example.com



Mantis 테스트

localhost/mantis/bug_report_page.php

Enter Report Details

Category	(select) ▾
Reproducibility	have not tried ▾
Severity	minor ▾
Priority	normal ▾
Select Profile	
Or Fill In	
Platform	<input type="text"/>
OS	<input type="text"/>
OS Version	<input type="text"/>
Product Version	<input type="text"/>
Assign To	<input type="text"/>
Target Version	<input type="text"/>
Summary	test
Description	test
Steps To Reproduce	
Additional Information	

Mantis 테스트

Viewing Issues (1 - 1 / 1) [[Print Reports](#)] [[CSV Export](#)] [[Excel Export](#)]


	P	ID	#		Category	Severity	Status	Updated ▼	Summary
<input type="checkbox"/>		0000001			fecs	minor	new	2014-05-02	test

Select All

new feedback acknowledged confirmed assigned resolved closed

Mantis 테스트

localhost/mantis/view.php?id=1



Logged in as: administrator (administrator) 2014-05-02 00:30 KST

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Recently Visited: 0000001

View Issue Details [[Jump to Notes](#)] [[Send a reminder](#)] [[Issue History](#)] [[Print](#)]

ID	Project	Category	View Status	Date Submitted	Last Update
0000001	fecs	fecs	public	2014-05-02 00:24	2014-05-02 00:24

Reporter administrator

Assigned To

Priority normal **Severity** minor **Reproducibility** have not tried

Status new **Resolution** open

Platform **OS** **OS Version**

Product Version

Target Version **Fixed in Version**

Summary 0000001: test

Description test

Tags No tags attached.

Attach Tags (Separate by ",")

Attached Files

Relationships

New relationship Current issue related to

Upload File

Select File 선택된 파일 없음
(Maximum size: 2,097k)

Users monitoring this issue

Q&A