## SVN, Mantis, JUnit

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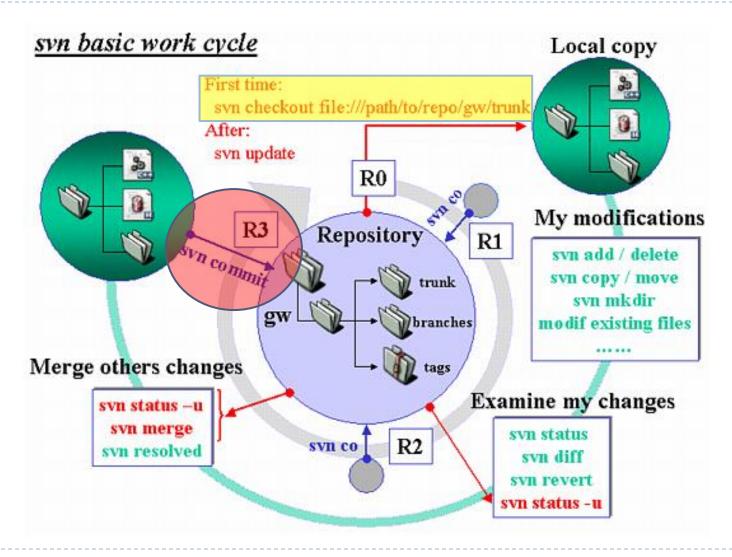
**T4**: Kim, Sangyoon (200811411), Oh, Nayun (200814189)

#### Contents

- SVN?
- ► MANTIS?
- JUNIT?
- **CONCLUSIONS**

## SVN (Subversion) (1/5)





## SVN (Subversion) (2/5)



- Add: Adding files or a file to Repository.
- Checkout (co): copy files from Repo to Local drive.
- Cleanup: If Repo files are locked, needed.
- Commit (ci): Apply changes from local to Repo.
- Revert: If Local file and Repo files are diff., apply local file to Repo file(refresh)
- Status: Show file list that are not added to Repo
- Update (up): Update local files to applied Repo files.

```
가능한 명령:
   blame (praise, annotate, ann)
   cat
   changelist (cl)
   diff (di)
   export
   import
   info
   list (ls)
   lock
   log
   mergeinto
   move (mv, rename, ren)
   propdel (pdel, pd)
   propedit (pedit, pe)
   propget (pget, pg)
   proplist (plist, pl)
   propset (pset, ps)
   resolve
   resolved
   status (stat, st)
   switch (sw)
   unlock
   update (up)
```

## SVN (Subversion) (3/5)



- Step I. Repo setting.
- ▶ Step 2. **User A** Checkout from Repo.
- ▶ Step 3. **User A** Working with local files.
- ▶ Step 4. User A If any changed, Commit.
- Step 5. User A If there's file on Repo not Local, Add and Commit.
- ▶ Step 6. **User B** Updates for changed files.
- ▶ Step 7. **User B** Working with local files.
- Step 8. User B If any changed, Commit.

## SVN (Subversion) (4/5)



- Step I. Installation
   On Linux server, apt-get, or Yum, etc. (packages)
   On Windows, Tortoise SVN
- Step 2. Make an REPO on Server.

```
[dn3108@localhost ~]$ mkdir repo
[dn3108@localhost repo]$ svnadmin create --fs-type fsfs ASAP
[dn3108@localhost repo]$ vim ASAP/conf/svnserve.conf

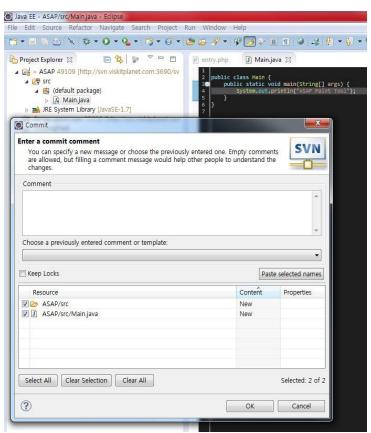
1 ### This file is an example password file for svnserve.
2 ### Its format is similar to that of svnserve.conf. As shown in the
3 ### example below it contains one section labelled [users].
4 ### The name and password for each user follow, one account per line.
5
6 [users]
7 # harry = harryssecret
8 # sally = sallyssecret
9 dn3108 = 64743108
```

2013-05-02

## SVN (Subversion) (5/5)



- Step 3. Checkout Source from REPO
- Step 4. Change files on Local and Commit
  - EX> Eclipse SVN Commit.
- Step 5. Updates.



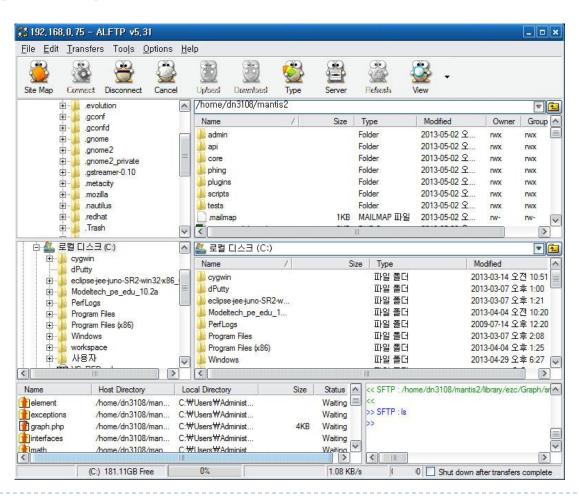
## Mantis (1/8)



- Issue / Bug Tracker
- Install on WEB Server
- Many Comp. work on a project together.
   A lot of issues occur during the intercommunications
- Comfortable UI and System.
- Issue assigning & management of project.

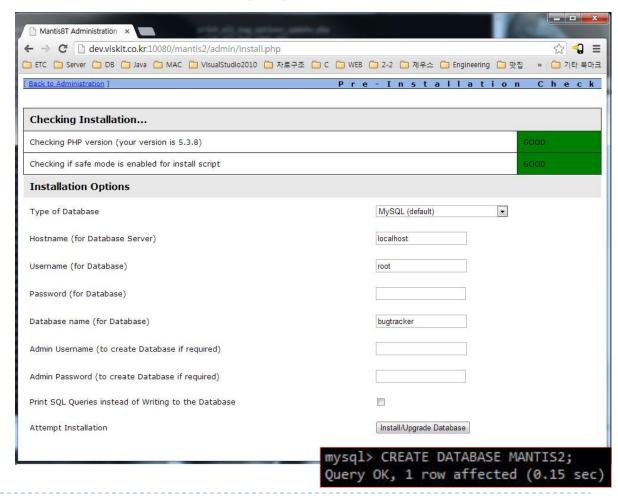
## Mantis (2/8)

- ▶ Installation Step I. Upload Mantis files to WEB SERVER
- Uses PHP
- On Apache, etc



### Mantis (3/8)

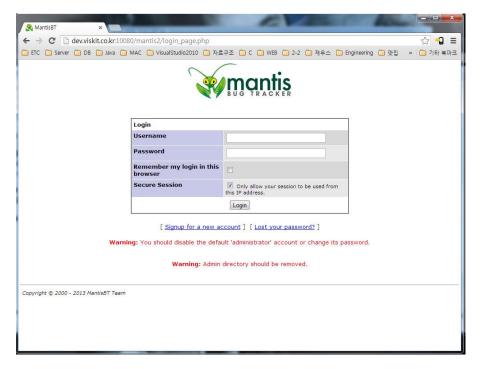
- Step 2. Access {Web Path}/index.php on Web browser
- Requisites chk.
- Needs DBMSOracle | MySQL

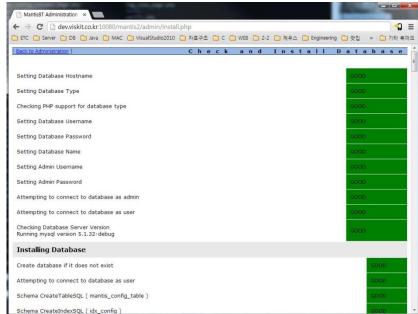


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## Mantis (4/8)

Step 3. Install completed Signup for Mantis & Log into Mantis {Path}/





## Mantis (5/8)



#### Issues

| Reporter:   | Monitored By:      | Assigned To:         | Category:          | Severity:         | Resolution:     | Profile:  |
|-------------|--------------------|----------------------|--------------------|-------------------|-----------------|-----------|
| any         | any                | any                  | any                | any               | any             | any       |
| Status:     | Hide Status:       |                      | Product Version:   | Fixed in Version: | Target Version: | Priority: |
| any         | closed (And Above) |                      | any                | any               | any             | any       |
| Show:       | View Status:       | Show Sticky Issues:  | Changed(hrs):      | Use Date Filters: | Relationships:  |           |
| 50          | any                | Yes                  | 6                  | No                | any             |           |
| Platform:   | OS:                | OS Version:          | Tags:              |                   |                 |           |
| any         | any                | any                  |                    |                   |                 |           |
| Note By:    | any                | Sort by:             | Updated Descending |                   |                 |           |
| Match Type: | All Conditions     |                      |                    |                   |                 |           |
| ⊖ Search    | Apply Filter       | [ Advanced Filters ] |                    |                   |                 |           |



## Mantis (6/8)



#### Issues Details

| View Issue Details [   | Jump to Notes ] [ Wiki ]  |                               | [ << ] [ >> ]                |                    | [ <u>Issue History</u> ] [ <u>Print</u> |  |  |  |  |
|------------------------|---|-------------------------------|------------------------------|--------------------|---|--|--|--|--|
| ID                     | Project   | Category                      | View Status                  | Date Submitted     | Last Update                             |  |  |  |  |
| 0015796                | mantisbt  | bugtracker                    | public                       | 2013-04-29 23:17   | 2013-05-01 16:27                        |  |  |  |  |
| Reporter               | Alyndri   |                               |                              |                    |   |  |  |  |  |
| Assigned To            |   |                               |                              |                    |   |  |  |  |  |
| Priority               | normal  | Severity                      | major                        | Reproducibility    | always                                  |  |  |  |  |
| Status                 | new   | Resolution                    | open                         |                    |   |  |  |  |  |
| Platform               |   | os                            |                              | OS Version         |   |  |  |  |  |
| <b>Product Version</b> | 1.2.15  |                               |                              |                    |   |  |  |  |  |
| Target Version         |   | Fixed in Version              |                              |                    |   |  |  |  |  |
| Summary                | 0015796: very slow response times   |                               |                              |                    |   |  |  |  |  |
| Description            | Hi there,  Our corporation uses Mantis as it's main defect management tool internally. At any one time we can have a high number of projects open and assigned to different users.  Our issue is that every time any Mantis page refreshes, the 'project list' in the top right corner is refreshed also. This has been found to do over 200 queries to the database, taking up to 15 seconds whenever we request an action or try to move to a new page.  Is there a possibility that this list could be enhanced to not cause so many queries every time a request is sent? |                               |                              |                    |   |  |  |  |  |
|                        | to the database, taking up  | to 15 seconds whenever we re- | quest an action or try to mo | ove to a new page. | has been found to do over 200 queries   |  |  |  |  |
| Tags                   | to the database, taking up  | to 15 seconds whenever we re- | quest an action or try to mo | ove to a new page. | s has been found to do over 200 queries |  |  |  |  |
| Tags<br>Attached Files | to the database, taking up  Is there a possibility that the   | to 15 seconds whenever we re- | quest an action or try to mo | ove to a new page. | has been found to do over 200 queries   |  |  |  |  |
|                        | to the database, taking up  Is there a possibility that the   | to 15 seconds whenever we re- | quest an action or try to mo | ove to a new page. | s has been found to do over 200 queries |  |  |  |  |
|                        | to the database, taking up  Is there a possibility that the   | to 15 seconds whenever we re- | quest an action or try to mo | ove to a new page. | has been found to do over 200 queries   |  |  |  |  |

## Mantis (7/8)



Issues Report 🗖 mantis : 네이버 통합검색 🗴 🎇 Report Issue - MantisBT 🗴 ← → C dev.viskit.co.kr:10080/mantis/bug\_report\_page.php ☆ 🔒 🔳 **Enter Report Details** \*Category Reproducibility have not tried **Priority!** Severity minor 💌 Priority None, Low, Normal, ⊖ Or Fill In High, Urgent, Immediate Platform OS Version Assign To Summary Description Assign to sb! Assign to User's accounts Steps To Reproduce Additional Information

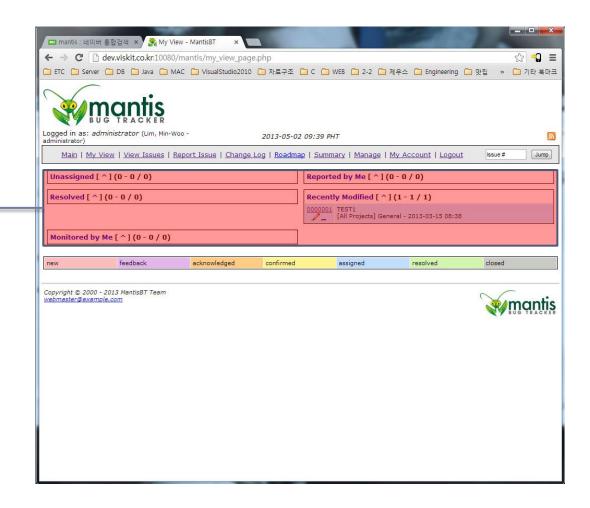
# Mantis (8/8)





#### **Summary!**

Unassigned
Resolved
Monitored by Me
Reported by Me
Recently Modified

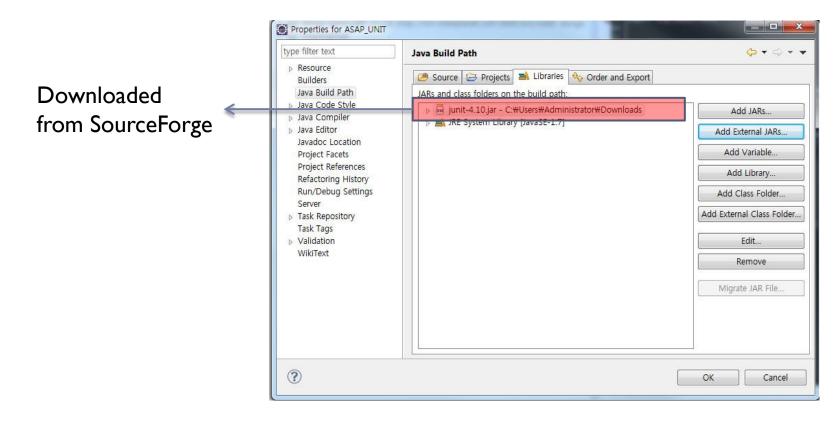


## JUnit (1/5)

- A unit testing framework for the Java Programming Lang.
- Using Annotation(@) to Test unitly.
- Many functions support.
- In Development & Implementation stage, Unit Test will be together during the project working.

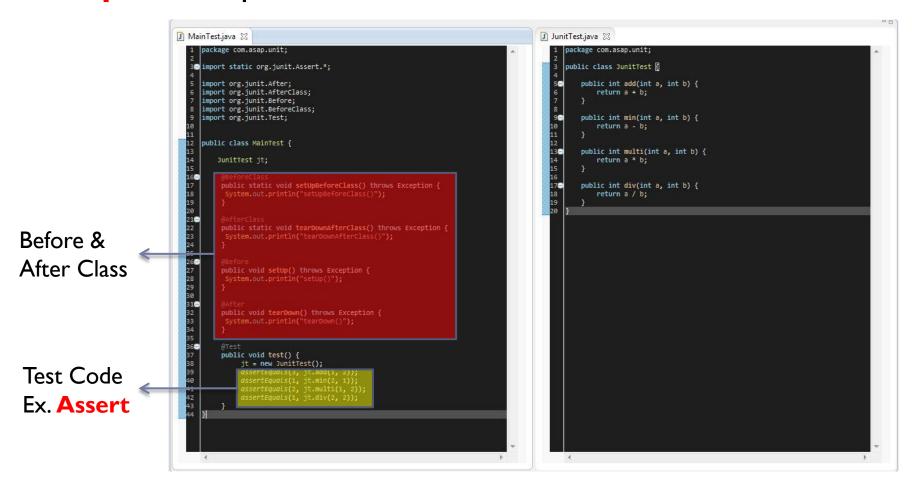
## JUnit (2/5)

▶ **Step I**. Junit JAR Library Including on project



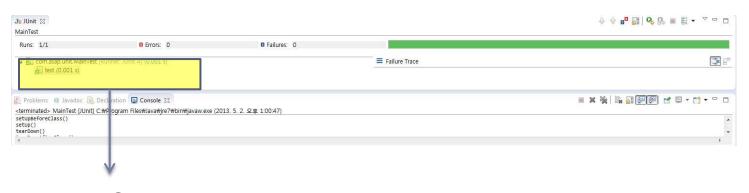
## JUnit (3/5)

#### Step 2. Example Codes



## JUnit (4/5)

#### ▶ **Step 3.** Run as Junit TEST



Test Case

## JUnit (5/5)

- More Functions of Junit
  - I. JUnit for DAO(Database Access Object)
  - 2. JUnit for Normal Methods(Unit)
- Assertion Overloaded assertion methods.
   Parameter order is expected value followed by actual value.
- Test Runners Netbeans, Eclipse (IDE) have native GUI.
- Aggregating Using Suite as a runner allows you to manually build a suite containing tests from may classes.
- Exception Testing Annotation(@Test) has an optional parameter "Expected"
- Ignoring Testing Annotation(@Ignore)
- Parameterized Testing Situations that have many parameter into a method. Annotation (@RunWith)
- Using with Maven
- Etc

#### Conclusions

- SVN for CM(Configure Management)
- Mantis for Issue management
- JUnit for Testing without specified plan during implementation.
- Any other tools in development with above three tools.
  - Maven
  - Ant
  - ▶ Git
  - JIRA
- To improve effeciency during development & implementation.

# Thank you