

Computing Resources at ICT

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Your Own ...

- Linux account
- Web site, including password protection
- MySQL Database
- Subversion repository
 - Version control, file sharing, backup

ICT vs IT

- There are two different servers:
 - `ict.siit.tu.ac.th` (Moodle)
 - `it.siit.tu.ac.th` (SSH, MySQL, website)
- In the past there was only ICT, but some services moved to IT
- username/password originally the same on ICT/IT, but they are not connected
 - Change password on ICT does NOT change it on IT
- Some instructions are out of date
 - May refer to `ict.siit.tu.ac.th` instead of `it.siit.tu.ac.th`

Username and Password

- Username
 - 'u' followed by your ID
 - u5000000000
- Password
 - Password for Linux account emailed to you
 - All systems linked to Linux account (same username & password): Moodle, SVN, secure web
 - EXCEPT MySQL database: initially same username & password but not linked ??
 - How to change password: SSH into Linux account and type 'passwd'

Examples

- Linux account
 - Use ssh or PuTTY to login to ICT server
- Personal Web Page
 - Use scp or WinSCP to copy files to ICT server
 - All files in your `public_html` directory are accessible via:
 - <http://it.siit.tu.ac.th/~u5000000000/>
- Private Web Page
 - Files in `public_html/private` are password protected:
 - <https://it.siit.tu.ac.th/~u5000000000/private/>

Examples

- MySQL Database
 - Database name: same as your username
 - Access via command line on ICT server
 - `mysql -u u5000000000 -p u5000000000`

Subversion (SVN)

- Centralised version control system
 - Version Control
 - Online File Storage
 - File Sharing
 - Backup

SVN Concepts

- Files and directories stored in a **repository** on `ict.siit.tu.ac.th`
- Initially, a user performs a **checkout** of a repository, creating a **working copy** on their own computer
- User creates, edits, removes files in normal manner on their computer
- **Commit** changes from working copy to repository (upload latest changes to server)
- **Update** working copy from repository (download latest version from server)

SVN at ICT

- Every student has their own private repository
 - <https://it.siit.tu.ac.th/svn/u5000000000>
 - Use for own files; NOT for senior project
- A public projects repository:
 - <https://it.siit.tu.ac.th/svn/projects>
 - Directories will be created for each group
 - <https://it.siit.tu.ac.th/svn/projects/2015/senior/bs1>
 - <https://it.siit.tu.ac.th/svn/projects/2015/senior/bs2>
 - ...

Using SVN on Your Computer

- Windows
 - TortoiseSVN
 - Tutorial: <http://ict.siit.tu.ac.th/help/subversion>
- Linux
 - Command line: `svn`
 - Tutorial: <http://ict.siit.tu.ac.th/help/subversion>
- Mac OS X
 - Versions, Cornerstone, command line
- Netbeans, Eclipse and others have plugins
- Web (read-only): ViewVC
 - <https://it.siit.tu.ac.th/viewvc/>

SVN: What To Do?

- Get started:
 - Install a SVN client for your computer
 - Checkout your groups repository
 - <https://it.siit.tu.ac.th/svn/projects/2014/senior/XXY>
- During project (e.g. once per day):
 - Update your working copy
 - Edit your files on your computer
 - Commit your changes to server

What To Put on SVN

- Your project documents
 - Presentations, proposal, reports
- Your project code
 - Source code that you write
 - Web pages that you create
 - Images that you create

What NOT To Put on SVN

- Object and executable code: .o, .exe, .jar, .dll, .bin, ...
- Generated documents: .pdf, .dvi, LaTeX generated files, ...
- Downloaded documents that others created
- Compressed or archives of files: .zip, .tgz, .tar, .rar
- Downloaded media: .avi, .mp3, .mp4, .jpg, ...
- Copyrighted content
- Non-project files