



# Web Server/Services

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tsuyi

# FAMP(FreeBSD+Apache+MySQL+PHP)

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- Apache 2.2 (50%)
- MySQL5.5 (20%)
- PHP 5 (10%)
- HTTPS (10%)
- Demo Test (10%)

# Apache

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- Basic system (10%)
- Virtual Hosts (5%)
- .htaccess (5%)
- Userdir (5%)
- Redirect (5%)
- Application : Git With Http (20%)

# Apache – Git With Http

## ☐ You can use

- Git & Gitweb
  - /usr/ports/devel/git
  - make config #choose gitweb

The screenshot shows a web browser window with the address bar containing 'gitweb.lazchi.nctucs.net/gitweb/'. The page title is 'Chicken Git Reop /' and there is a 'git' logo in the top right corner. Below the title is a search bar with a 're' radio button and a 'Search' button. A link 'List all projects' is centered below the search bar. The main content is a table listing several Git repositories.

Project	Description	Owner	Last Change
chick.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	86 min ago <a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>
mydroid.git	It's a repository for test git server and gitweb.	User &	15 hours ago <a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>
normal.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	113 min ago <a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>
sademo.git	This is for SA demo.	World Wide Web Owner	right now <a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>
test.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	No commits <a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>

At the bottom right of the page, there are two buttons: 'TXT' and 'OPML'.

# PHP

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- Basic system (10%)

# MySQL

❑ Basic system(10%)

❑ phpMyAdmin(10%)

The screenshot displays the phpMyAdmin interface for a localhost environment. The top navigation bar includes options like '資料庫' (Database), 'SQL', '狀態' (Status), '程序' (Scripts), '權限' (Privileges), '匯出' (Export), '匯入' (Import), '變數' (Variables), '字集' (Charsets), '引擎' (Engines), '複製' (Replication), '同步' (Sync), and '設定' (Settings). The left sidebar shows a list of databases: hwsheng, information\_schema, mysql, performance\_schema, and test. The main content area is divided into two sections: '一般設定' (General Settings) and '外觀設定' (Appearance Settings). The 'MySQL' section on the right provides system information, and the '網站伺服器' (Web Server) section provides server details. The 'phpMyAdmin' section at the bottom provides version and resource information.

**MySQL**

- 伺服器: Localhost via UNIX socket
- 伺服器版本: 5.5.15
- 協定版本: 10
- 使用者: root@localhost
- MySQL 字集: UTF-8 Unicode (utf8)

**網站伺服器**

- Apache/2.2.19 (FreeBSD) mod\_ssl/2.2.19 OpenSSL/0.9.8q DAV/2 PHP/5.3.8 with Suhosin-Patch
- MySQL 客戶端版本: mysqlnd 5.0.8-dev - 20102224 - \$Revision: 310735 \$
- PHP 外掛: mysqli

**phpMyAdmin**

- 版本資訊: 3.4.4, 最新穩定版本: 3.4.7.1
- 文件
- 維基 (Wiki)
- 官方首頁
- 貢獻
- 取得支援

# Requirement(1/6)

- ❑ To do this homework , you need 2 domain name.
  - <http://twbbs.org/>
  - <http://www.nctucs.net/>
  
- ❑ You need two hostnames use same IP address.
  
- ❑ When access <http://yourdomain1>, it will show the php information.

PHP Version 5.3.27



System	FreeBSD hw4 9.1-RELEASE FreeBSD 9.1-RELEASE #0 r243826: Tue Dec 4 06:55:39 UTC 2012 root@obrian.cse.buffalo.edu:/usr/obj/usr/src/sys/GENERIC i386
Build Date	Nov 18 2013 19:17:57
Configure Command	./configure '--with-layout=GNU' '--localstatedir=/var' '--with-config-file-scan-dir=/usr/local/etc/php' '--disable-all' '--enable-libxml' '--enable-mysqld' '--with-libxml-dir=/usr/local' '--with-pcre-regex=/usr/local' '--with-zlib-dir=/usr' '--program-prefix=' '--with-apxs2=/usr/local/sbin/apxs' '--with-regex=php' '--with-zend-vm=CALL' '--prefix=/usr/local' '--

## Requirement(2/6)

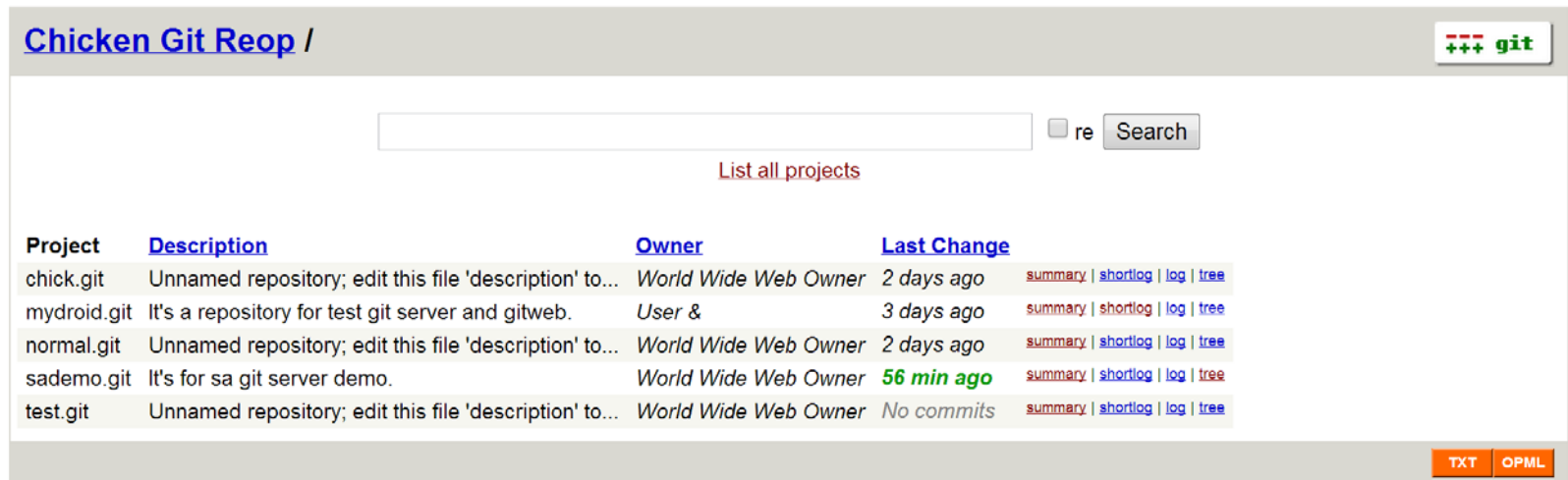
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- ❑ When access <http://yourdomain1/sademo.html>, it will show the text **“This page is for sa demo.”**. Notice that user can use both **http** and **https** portocal to access this page.
- ❑ When access <http://yourdomain1/private/>, user need enter id "nctucs" and password "sahw4" which is implemented by .htaccess. And it will show the text **“It’s my secret.”**



# Requirement(3/6)

- ❑ System user **sysadm** can put file at **~/WWW/** and others can access it by visiting **<http://yourdomain1/~sysadm/>**. **sysadm's password is your student id.**
- ❑ Your git website url is **<http://yourdomain2/gitweb>**



The screenshot shows a web interface for a Git repository named "Chicken Git Reop". At the top right, there is a Git logo and the text "+++ git". Below the header, there is a search bar with a "re" checkbox and a "Search" button. Underneath the search bar, it says "List all projects". The main content is a table with the following columns: "Project", "Description", "Owner", and "Last Change".

Project	Description	Owner	Last Change
chick.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	2 days ago
mydroid.git	It's a repository for test git server and gitweb.	User &	3 days ago
normal.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	2 days ago
sademo.git	It's for sa git server demo.	World Wide Web Owner	56 min ago
test.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	No commits

At the bottom right of the interface, there are two buttons: "TXT" and "OPML".

# Requirement(4/6)

- ❑ For demo, you need to put a git repository named “**sademo.git**”. And it’s decription is “**This repository is for sa demo.**”.

Project	Description	Owner	Last Change	
chick.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	2 days ago	<a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>
mydroid.git	It's a repository for test git server and gitweb.	User &	3 days ago	<a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>
normal.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	3 days ago	<a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>
sademo.git	This repository is for sa demo.	World Wide Web Owner	<b>63 min ago</b>	<a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>
test.git	Unnamed repository; edit this file 'description' to...	World Wide Web Owner	No commits	<a href="#">summary</a>   <a href="#">shortlog</a>   <a href="#">log</a>   <a href="#">tree</a>

# Requirement(5/6)

- ❑ On your website, enter the sademo.git will show URL information, it's URL is

<http://yourdomain2/gitweb/sademo.git>.



The screenshot shows a Git repository page for 'sademo.git'. The page title is 'Chicken Git Reop / sademo.git / summary'. Below the title, there are navigation links: 'summary | shortlog | log | commit | commitdiff | tree'. The main content area contains the following information:

- description: This repository is for sa demo.
- owner: World Wide Web Owner
- last change: Fri, 22 Nov 2013 13:41:50 +0800 (13:41 +0800)
- URL: <http://gitweb.lazchi.nctucs.net/gitweb/sademo.git> (highlighted with a red box)

Below the URL, there is a 'shortlog' section showing two commits:

- 70 min ago tsuyi bb master commit | commitdiff | tree | snapshot (tar.gz tar.gz zip)
- 74 min ago tsuyi aa commit | commitdiff | tree | snapshot (tar.gz tar.gz zip)

There is also a 'heads' section showing the 'master' branch:

- 70 min ago master shortlog | log | tree

At the bottom, there is a note: 'This repository is for sa demo.'

- ❑ You can **clone** and **push** your repository by <http://yourdomain2/gitweb/sademo.git> and password is your student id.

# Requirement(6/6)

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- ❑ Users use **cookie authentication** when access your phpMyAdmin site <http://yourdomain1/phpMyAdmin/>
  - (You need to add a MySQL user for authentication).
  - Create another user with limited privilege
  - And notice that if others access <http://yourdomain2/phpMyAdmin/>, they can not access it.
  - Only 140.113.\*.\* can access it
  - But 140.113.235.\* can't access it
  
- ❑ Redirect <http://yourdomain1/ILoveSA> to <http://help.cs.nctu.edu.tw/>
  - But <http://yourdomain2/ILoveSA> will not redirect .

# Other Information

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## Due date

- **2013 12/12**

## Reference

- <http://tech.marsw.tw/tags/git>
- <https://git.wiki.kernel.org/index.php/Gitweb>

# Help

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- ❑ IRC channel #nctuNASA on freenode
- ❑ Newsgroup cs.course.sysadmin
- ❑ BBS bs2.to board CS-SysAdmin
- ❑ Email ta@nasa.cs.nctu.edu.tw
- ❑ Goto CSCC to ask professional 3F!