

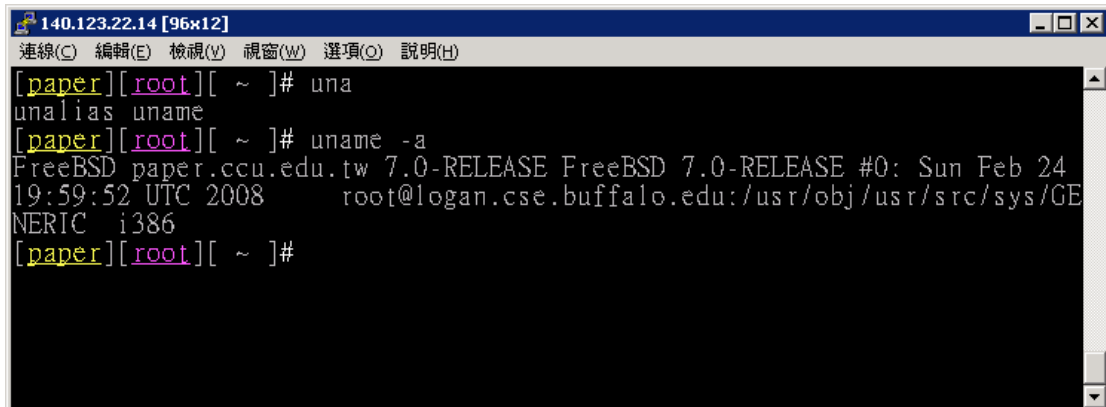
Ethesys2.1 系統建置說明書

撰寫者：電機所 吳柏毅 694415130

Email : appleboy.tw@gmail.com

1. 系統：

FreeBSD 7.0 Release



```
140.123.22.14 [96x12]
[paper][root][ ~ ]# una
unalias uname
[paper][root][ ~ ]# uname -a
FreeBSD paper.ccu.edu.tw 7.0-RELEASE FreeBSD 7.0-RELEASE #0: Sun Feb 24
19:59:52 UTC 2008      root@logan.cse.buffalo.edu:/usr/obj/usr/src/sys/GE
NERIC i386
[paper][root][ ~ ]#
```

Apache : apache-worker-2.2.8 搭配 MPM worker 改善分配記憶體

MySQL : mysql-server-5.1.24 搭配 Multithreaded SQL database

PHP : 5.2.6 版本

2. 安裝軟體：

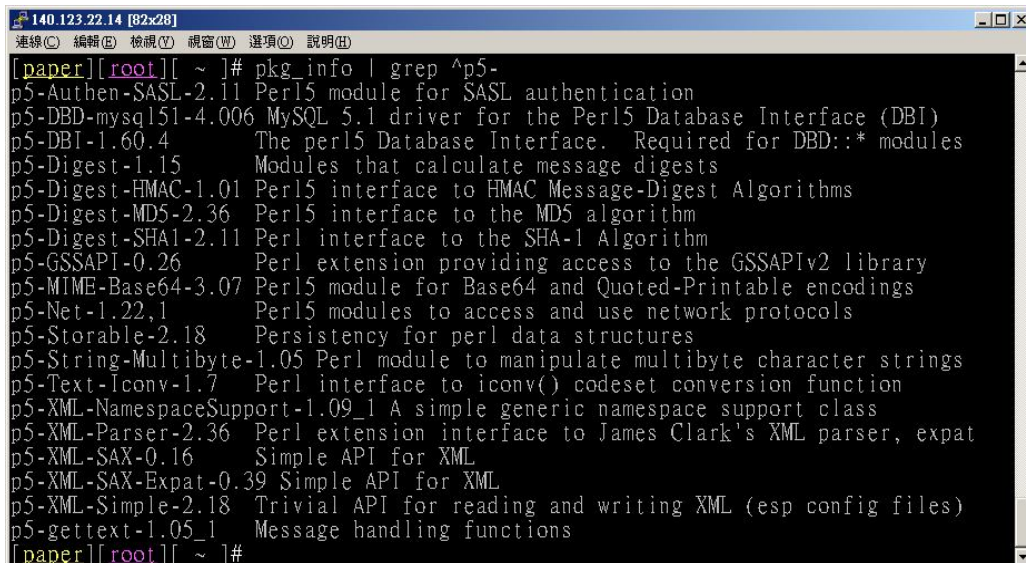
先安裝 apache mysql php 於系統裡面

cd /usr/ports/www/apache22/ ; make WITH_MPM=worker install clean

cd /usr/ports/databases/mysql51-server/;make install clean

pkg_info | grep ^p5-

這可以查出有哪些 perl 的套件已經安裝



```
140.123.22.14 [82x28]
[paper][root][ ~ ]# pkg_info | grep ^p5-
p5-Authen-SASL-2.11 Perl5 module for SASL authentication
p5-DBD-mysql51-4.006 MySQL 5.1 driver for the Perl5 Database Interface (DBI)
p5-DBI-1.60.4      The perl5 Database Interface.  Required for DBD::* modules
p5-Digest-1.15    Modules that calculate message digests
p5-Digest-HMAC-1.01 Perl5 interface to HMAC Message-Digest Algorithms
p5-Digest-MD5-2.36 Perl5 interface to the MD5 algorithm
p5-Digest-SHA1-2.11 Perl interface to the SHA-1 Algorithm
p5-GSSAPI-0.26    Perl extension providing access to the GSSAPIv2 library
p5-MIME-Base64-3.07 Perl5 module for Base64 and Quoted-Printable encodings
p5-Net-1.22.1     Perl5 modules to access and use network protocols
p5-Storable-2.18  Persistency for perl data structures
p5-String-Multibyte-1.05 Perl module to manipulate multibyte character strings
p5-Text-Iconv-1.7 Perl interface to iconv() codeset conversion function
p5-XML-Namespacesupport-1.09_1 A simple generic namespace support class
p5-XML-Parser-2.36 Perl extension interface to James Clark's XML parser, expat
p5-XML-SAX-0.16   Simple API for XML
p5-XML-SAX-Expat-0.39 Simple API for XML
p5-XML-Simple-2.18 Trivial API for reading and writing XML (esp config files)
p5-gettext-1.05_1 Message handling functions
[paper][root][ ~ ]#
```

如果都沒安裝的話，請安裝底下元件：

- DBI
- DBD:mysql
- Net
- Text::Iconv
- XML::Simple
- String::Multibyte
- ZIP

FreeBSD 利用 ports 安裝：

DBI

```
cd /usr/ports/databases/p5-DBI/
```

DBD::Mysql

```
cd /usr/ports/databases/p5-DBD-mysql51/
```

Net 或 Net::FTP

```
cd /usr/ports/net/p5-Net/
```

XML::Simple

```
cd /usr/ports/textproc/p5-XML-Simple
```

Text::Iconv

```
cd /usr/ports/converters/p5-Text-Iconv/
```

String::Multibyte

```
cd /usr/ports/converters/p5-String-Multibyte/
```

ZIP

```
cd /usr/ports/archivers/zip
```

3. [Ethesys 安裝步驟]

首先解壓縮 `ethesys 2.1` 這套軟體，然後進去該目錄之後，打開 `Makefile` 檔案

```
###
### MODIFIE THESE FIRST!!
###
### Modify these variables accroding your system environment.
SHELL = /bin/sh
PERL = /usr/bin/perl
MYSQL_BINDIR = /usr/local/bin
STORING_THESES_DIR = /home/theses
PREFIX = /usr/local/www/apache22/data
# Linux.
# PREFIX = /var/html

[1] Makefile (MAKE) LINE [ 11/434] COL [01] ascii['00'] 1%
```

上面那些其實大概要改一下，畢竟每台主機不同

PERL 執行檔 perl 的位置

STORING_THESES_DIR 解壓縮軟體的目錄

PREFIX Web 預計放的地方

修改databases/mysql_etd_users.sql 檔案，修改預設Ethesys 使用者
etd_submitted. etd_available 的密碼。

A screenshot of a MySQL command-line interface window. The title bar shows the IP address "140.123.22.14" and resolution "[63x14]". The menu bar includes options like "連線(C)", "編輯(E)", "檢視(V)", "視窗(W)", "選項(O)", and "說明(H)". The main area has a black background with yellow and green text. It displays two SQL INSERT statements into the 'mysql.user' table. The first statement inserts a user named 'etd_submitted' with password 'wwwadmin'. The second statement inserts a user named 'etd_available' with password 'wwwadmin'. Both users have various privilege flags set to 'Y' or 'N' and resource usage limits of 0. The status bar at the bottom indicates the current file is "users.sql", line 10 of 35, column 02, with an ASCII value of '32' and 23% completion. Below the status bar, it says "databases/mysql_etd_users.sql" [converted] 35L, 1913C.

如果 mysql 忘記密碼，或者是不會設定，可以參考底下這篇：[\[MYSQL\] 忘記 root 密碼，登不進去 phpMyAdmin 教學](#)

接下來打 `make` 然後會叫您輸入 `root` 密碼，請輸入自己的設定，系統剛裝好不會有密碼的，所以請自行設定 `root` 的密碼

然後輸入 `make install`

最後 make clean

請熟悉 Makefile ，裡面有一些功能，備份資料庫，建立資料庫

Make db install 進行資料庫安裝

Make backup 備份資料庫

這些都會寫在 Makefile 裡面，可以自行觀看

這樣大概就是裝好了，接下來是 Apache 的設定

3. 修改 etd-master-lib.pl，適合自己學校的設定

然後讓 Apache 支援 phpMyAdmin 跟 php

```
Alias /phpMyAdmin/ "/usr/local/www/phpMyAdmin/"
<Directory "/usr/local/www/phpMyAdmin/">
    Options All
    AllowOverride All
    Order Allow,Deny
    Allow from ALL
</Directory>
#
# PHP
#
AddType application/x-httpd-php .php
AddType application/x-httpd-php-source .phps
```

底下是設定要把一些目錄設定起來，拿到特定帳號才可以觀看喔

```
<Directory /usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-review>
    Options Indexes FollowSymLinks
    AllowOverride None
    AuthUserFile /usr/local/etc/apache22/PASSWD
    AuthGroupFile /dev/null
    AuthName "限 eThesys 小組成員使用"
    AuthType Basic
    <Limit GET PUT POST>
        require user admin
    </Limit>
</Directory>
### ETD-maint.
<Directory /usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-maint>
    Options Indexes FollowSymLinks
    AllowOverride None
    AuthUserFile /usr/local/etc/apache22/PASSWD
    AuthGroupFile /dev/null
    AuthName "限 eThesys 小組成員使用"
    AuthType Basic
    <Limit GET PUT POST>
        require user admin
```



```

</Limit>
</Directory>
<Directory /home/theses>
    Options Indexes FollowSymlinks
    AllowOverride None
    AuthUserFile /usr/local/etc/apache22/PASSWD
    AuthGroupFile /dev/null
    AuthName "限 eThesys 小組成員使用"
    AuthType Basic
    <Limit GET PUT POST>
        require user admin
    </Limit>
</Directory>
<Directory /home/theses>
    Options Indexes FollowSymlinks
    AllowOverride None
    AuthUserFile /usr/local/etc/apache22/PASSWD
    AuthGroupFile /dev/null
    AuthName "限 eThesys 小組成員使用"
    AuthType Basic
    <Limit GET PUT POST>
        require user admin
    </Limit>
</Directory>

```

底下設定哪些目錄可以執行 cgi module

```

ScriptAlias /ETD-db/ETD-browse/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-browse/"
ScriptAlias /ETD-db/ETD-maint/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-maint/"
ScriptAlias /ETD-db/ETD-review/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-review/"
ScriptAlias /ETD-db/ETD-submit/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-submit/"
ScriptAlias /ETD-db/ETD-search/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-search/"
ScriptAlias /ETD-db/ETD-search-c/

```

```

"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-search- c/"
ScriptAlias /ETD-db/ETD-OAI/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-OAI/"
ScriptAlias /ETD-db/ETD-import/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-import/"
ScriptAlias /ETD-db/ETD-statistic/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-        statistic/"
ScriptAlias /ETD-db/ETD-qnaire/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-qnaire/"
ScriptAlias /ETD-db/ETD-ISO2709/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-ISO2709/"
ScriptAlias /ETD-db/ETD-dbexport/
"/usr/local/www/apache22/data/ETD-db/cgi-bin/ETD-        dbexport/"
Alias /ETD-db/ "/usr/local/www/apache22/data/ETD-db/web_root/"
Alias /theses/ "/home/theses/"

```

產生 /usr/local/etc/apache22/PASSWD 密碼檔

```
#htpasswd -c /usr/local/etc/apache22/PASSWD admin
```

接著輸入密碼，之後就可以利用 admin 這個帳號來做網頁上論文審查動作。

10. 請確認 Apache 設定檔的 User 及 Group 兩個設定參數，分別為 Apache 執行身份及所屬群組，請將 <PREFIX>ETD-db 及 STORING_THESES_DIR 所設定的目錄利用以下的指令來更改為 Apache 執行身份可存取的權限狀態：

比方 Apache 設定檔內的設定是：

```

..
User www
Group www
STORING_THESES_DIR 設定目錄為 /home/theses
% chown -R www:www <PREFIX>/ETD-db
% chown -R www:www /home/theses

```

重跑 Apache，並開始測試，Etheses 的網頁會在 <http://140.123.22.14/ETD-db/>

eThesys 博碩士學位論文系統 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://140.123.224.14/ETD-db

mysql_free_result

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eThesys 分散式學位論文共建共享計劃

- 瀏覽及查詢論文部份 (Browse and Search ETD Session)**
 - [整體中文查詢介面 \(Traditional Chinese Search Form Page\)](#) ---- 搜尋所有可使用的論文。
 - [英文版查詢介面 \(English Search Form Page\)](#) ---- You can search all available ETDs.
 - [英文版瀏覽介面 \(English Browse Form Page\)](#) ---- You can browse all available ETDs.
- 繳交論文使用者使用部份 (Submission Form Session)**
 - [登入繳交論文 \(Login and Submit Your ETD Form\)](#) ---- 透過 E-mail 認證無誤後開始進入繳交程序 (需要帳號及密碼)。
- 論文審核暨管理者使用部份 (ETDs' Administraton Session)**
 - [審查繳交的論文 \(Reviewing All Submitted ETDs\)](#) ---- 審查、更改、刪除及核准繳交的論文 (需要帳號及密碼)。
 - [管理可使用的論文 \(Maintain All Available ETDs\)](#) ---- 更改、刪除及改變審核過且可使用的論文 (需要帳號及密碼)。
- 其他相關以及系統開發連結 (Other Links)**
 - [博碩士論文 XML 書目資料轉入工具](#) ---- 轉入國圖所提供之論文書目資料 XML 檔案 (需要帳號及密碼)。
 - [ISO-2709 機讀格式資料轉出工具\(Perl版本\)](#) ---- 轉出 ISO-2709 機讀格式論文書目資料檔 (需要帳號及密碼)。
 - [博碩士論文資料簡易統計頁面](#) ---- 簡易統計功能程式，概略統計現有系統的相關資料
 - [管理學年度資料](#) ---- 新增及刪除學年度資料

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