**20221102-1108在fedora32安裝httpd-2.4.54及php-7.4.32及php-8.1.2**

**(1)下載httpd-2.4.54.tar.gz**

**$ wget https://dlcdn.apache.org/httpd/httpd-2.4.54.tar.gz**

**(2) 查看現況**

**$ pwd**

**/home/admin**

**$ httpd -v**

**Server version: Apache/2.4.46 (Fedora)**

**Server built: Aug 25 2020 00:00:00**

**$ uname -a**

**Linux lfwiki.kmvs.km.edu.tw 5.8.14-200.fc32.x86\_64 #1 SMP Wed Oct 7 14:47:56 UTC 2020 x86\_64 x86\_64 x86\_64 GNU/Linux**

**(3)解開httpd-2.4.54.tar.gz**

**$ tar xvzf httpd-2.4.54.tar.gz**

**(4) 組態**

**$ ./configure --enable-so --enable-unique-id --prefix=/usr/local/apache2 --with-apr=/usr/local/apr --with-apr-util=/usr/local/apr-util**

**(5) 編譯**

**$ make**

**(6) 安裝**

**$ sudo make install**

**:**

**Installing configuration files**

**[PRESERVING EXISTING HTDOCS SUBDIR: /usr/local/apache2/htdocs]**

**[PRESERVING EXISTING ERROR SUBDIR: /usr/local/apache2/error]**

**[PRESERVING EXISTING ICONS SUBDIR: /usr/local/apache2/icons]**

**[PRESERVING EXISTING CGI SUBDIR: /usr/local/apache2/cgi-bin]**

**:**

**(7) 查出有舊的httpd 執行中**

**$ sudo netstat -ltnp | grep ':80'**

**tcp6 0 0 :::80 :::\* LISTEN 3859832/httpd**

**(8)列出執行中的HTTPD**

**$ ps ax|grep httpd**

**1839523 pts/0 S+ 0:00 grep --color=auto httpd**

**3859832 ? Ss 0:02 /usr/sbin/httpd -DFOREGROUND**

**3859833 ? S 0:00 /usr/sbin/httpd -DFOREGROUND**

**3859834 ? Sl 0:14 /usr/sbin/httpd -DFOREGROUND**

**3859835 ? Sl 0:10 /usr/sbin/httpd -DFOREGROUND**

**3859836 ? Sl 0:09 /usr/sbin/httpd -DFOREGROUND**

**3892691 ? Sl 0:10 /usr/sbin/httpd -DFOREGROUND**

**(9) 關閉開機啟動httpd.service**

**$ systemctl disable httpd.service**

**:**

**Removed /etc/systemd/system/multi-user.target.wants/httpd.service.**

**(10) 查看httpd.service 現況**

**$ systemctl status httpd.service**

**● httpd.service - The Apache HTTP Server**

 **Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor pr>**

 **Drop-In: /usr/lib/systemd/system/httpd.service.d**

 **└─php-fpm.conf**

 **Active: active (running) since Tue 2022-11-01 05:26:47 EDT; 14h ago**

 **Docs: man:httpd.service(8)**

 **Main PID: 3859832 (httpd)**

 **Status: "Total requests: 850; Idle/Busy workers 100/0;Requests/sec: 0.0159>**

 **Tasks: 278 (limit: 4666)**

 **Memory: 25.6M**

 **CPU: 46.711s**

 **CGroup: /system.slice/httpd.service**

 **├─3859832 /usr/sbin/httpd -DFOREGROUND**

 **├─3859833 /usr/sbin/httpd -DFOREGROUND**

 **├─3859834 /usr/sbin/httpd -DFOREGROUND**

 **├─3859835 /usr/sbin/httpd -DFOREGROUND**

 **├─3859836 /usr/sbin/httpd -DFOREGROUND**

 **└─3892691 /usr/sbin/httpd -DFOREGROUND**

**(11)關閉httpd.service**

 **$ systemctl stop httpd.service**

**(12) 啟用新裝的httpd失敗
$ /usr/local/apache2/bin/apachectl start**

**AH00534: httpd: Configuration error: More than one MPM loaded.**

**$ sudo systemctl stop php-fpm**

**(13) 修改httpd.conf 註解掉mpm\_prefork\_module**

**$ vi /usr/local/apache2/conf/httpd.conf**

**:**

**#LoadModule mpm\_prefork\_module modules/mod\_mpm\_prefork.so**

**(13B) $ sudo vi /etc/httpd/conf.modules.d/00-mpm.conf**

**(13C)$ cat 00-mpm.conf |grep mpm**

**#LoadModule mpm\_prefork\_module modules/mod\_mpm\_prefork.so**

**#LoadModule mpm\_worker\_module modules/mod\_mpm\_worker.so**

**# LoadModule mpm\_event\_module modules/mod\_mpm\_event.so**

**(14) 啟用新裝的httpd 成功**

**$ sudo /usr/local/apache2/bin/apachectl start**

**(15)$ ps ax|grep httpd**

**(16)查看新裝的httpd版本**

**$ sudo /usr/local/apache2/bin/httpd –v**

**Server version: Apache/2.4.54 (Unix)**

**Server built: Nov 1 2022 20:09:17**

**(17) 查看舊的php版本**

**$ php -v**

**PHP 5.6.40 (cli) (built: Oct 15 2020 23:04:02)**

**Copyright (c) 1997-2016 The PHP Group**

**Zend Engine v2.6.0, Copyright (c) 1998-2016 Zend Technologies**

**(18) 用符號連結把/var/www/html 當作網站主目錄 /usr/local/apache2/htdocs**

**$ sudo mv htdocs htdocs2**

**$ sudo ln -s /var/www/html htdocs**

**(19a) 下載最新版的php-7.4.32.tar.gz**

**$ wget** [**https://www.php.net/distributions/php-7.4.32.tar.gz**](https://www.php.net/distributions/php-7.4.32.tar.gz)

**(19b) 解開php-7.4.32.tar.gz**

**$ tar xvzf php-7.4.32.tar.gz**

**(19c) 組態失敗**

**$ ./configure --with-apxs2=/usr/local/apache2/bin/apxs**

**configure: error: Package requirements (sqlite3 > 3.7.4) were not met:**

**(19D) 查看現有的 sqlite3**

**$ whereis sqlite3**

**sqlite3: /usr/bin/sqlite3 /usr/local/bin/sqlite3 /usr/share/man/man1/sqlite3.1.gz**

**(19E) 使用現有的 sqlite3**

**$ /usr/bin/sqlite3**

**SQLite version 3.33.0 2020-08-14 13:23:32**

**Enter ".help" for usage hints.**

**Connected to a transient in-memory database.**

**Use ".open FILENAME" to reopen on a persistent database.**

**sqlite> .quit**

**(20a) 下載新版的 sqlite3**

**$ wget** [**https://www.sqlite.org/2022/sqlite-autoconf-3390400.tar.gz**](https://www.sqlite.org/2022/sqlite-autoconf-3390400.tar.gz)

**(20b) 解開新版的 sqlite3**

**$ tar xvzf sqlite-autoconf-3390400.tar.gz**

**(20c) 組態**

**$ cd sqlite-autoconf-3390400/**

**$ ./configure --prefix=$HOME/sqlite**

**(20d) 編譯**

**$ make**

**(20e) 安裝**

**$ make install**

**(20f) 修改登入啟動稿.bash\_profile**

**$ vi .bash\_profile
:**

**export PATH=$HOME/sqlite/bin:$PATH**

**export LD\_LIBRARY\_PATH=$HOME/sqlite/lib**

**export LD\_RUN\_PATH=$HOME/sqlite/lib**

**(20h)啟用登入啟動稿.bash\_profile**

**$ source .bash\_profile**

**(20i)$ which sqlite3**

**~/sqlite/bin/sqlite3**

**(20j) $ sqlite3**

**SQLite version 3.39.4 2022-09-29 15:55:41**

**sqlite> .quit**

**(20K) $ export PKG\_CONFIG\_PATH=/usr/local/lib/pkgconfig**

**(20L) $ sudo cp sqlite/lib/libsqlite3.a /usr/local/lib**

**[sudo] password for admin:**

**$ sudo cp sqlite/lib/libsqlite3.la /usr/local/lib**

**$ sudo cp sqlite/lib/libsqlite3.so.0.8.6 /usr/local/lib**

**$ ls /usr/local/lib -l|grep sqlite**

**-rw-r--r-- 1 root root 21405670 Nov 1 23:55 libsqlite3.a**

**-rwxr-xr-x 1 root root 990 Nov 1 23:56 libsqlite3.la**

**lrwxrwxrwx 1 root root 19 Mar 26 2022 libsqlite3.so -> libsqlite3.so.0.8.6**

**lrwxrwxrwx 1 root root 19 Mar 26 2022 libsqlite3.so.0 -> libsqlite3.so.0.8.6**

**-rwxr-xr-x 1 root root 8355912 Nov 1 23:56 libsqlite3.so.0.8.6**

**(21) $ export PKG\_CONFIG\_PATH=/usr/local/lib/pkgconfig**

**$./configure --with-apxs2=/usr/local/apache2/bin/apxs -with-iconv -with-mysql**

**:**

**Thank you for using PHP.**

**(22A) $ make**

**:**

**/usr/bin/ld: /home/admin/php-7.4.32/ext/iconv/iconv.c:1122: undefined reference to `libiconv\_close'**

**collect2: error: ld returned 1 exit status**

**make: \*\*\* [Makefile:265: sapi/cli/php] Error 1**

**(22B)$ whereis iconv**

**iconv: /usr/bin/iconv /usr/local/bin/iconv /usr/include/iconv.h /usr/share/man/man3/iconv.3.gz /usr/share/man/man1/iconv.1.gz /usr/share/man/man1p/iconv.1p.gz /usr/share/man/man3p/iconv.3p.gz**

**(22D) $ make ZEND\_EXTRA\_LIBS='-liconv'**

**:**

**Build complete.**

**Don't forget to run 'make test'.**

**(22E) $ make test**

**Test iconv\_strlen() function : error conditions - pass an unknown encoding [ext/iconv/tests/iconv\_strlen\_error2.phpt]**

**You may have found a problem in PHP.**

**(22F)$ sudo make install**

**:**

**libtool: warning: remember to run 'libtool --finish /home/admin/php-7.4.32/libs'**

**(22G) $ sudo yum install libtool**

**$ libtool --finish /home/admin/php-7.4.32/libs**

**竟無法啟動HTTPD**

**(23) 改裝PHP8.1.12**

**$ wget** [**https://www.php.net/distributions/php-8.1.12.tar.gz**](https://www.php.net/distributions/php-8.1.12.tar.gz)

**(24) $ tar xvzf php-8.1.12.tar.gz**

**(25)$ sudo yum install -y gcc make**

**Package gcc-10.2.1-1.fc32.x86\_64 is already installed.**

**(26)$ sudo yum install -y libxml2-devel openssl-devel \**

**> sqlite-devel curl-devel libpng-devel \**

**> libwebp-devel libjpeg-devel freetype-devel**

**:**

**Upgraded:**

 **libwebp-1.2.0-1.fc32.x86\_64 sqlite-3.34.0-1.fc32.x86\_64**

 **sqlite-libs-3.34.0-1.fc32.x86\_64**

**Installed:**

 **libjpeg-turbo-devel-2.0.4-3.fc32.x86\_64 libwebp-devel-1.2.0-1.fc32.x86\_64**

 **sqlite-devel-3.34.0-1.fc32.x86\_64**

**Complete!**

**(27)$ sudo yum install -y libzip-devel**

**:**

**Installed:**

 **libzip-1.6.1-1.fc32.x86\_64 libzip-devel-1.6.1-1.fc32.x86\_64**

**Complete!:**

**(28A) $ export PKG\_CONFIG\_PATH=/usr/local/libzip/lib64/pkgconfig**

**(28B) $ sudo yum install oniguruma-devel**

**Upgraded: oniguruma-6.9.5-4.rev1.fc32.x86\_64**

**Installed: oniguruma-devel-6.9.5-4.rev1.fc32.x86\_64**

**Complete!**

**(29) $./configure --prefix=/usr/local/php \**

**--enable-fpm --with-openssl --with-zlib \**

**--with-curl --enable-gd --with-webp \**

**--with-jpeg --with-freetype --enable-mbstring \**

**--with-zip --with-mysqli --with-pdo-mysql**

**:**

**configure: error: iconv does not support errno**

**(30) 安裝最新的libiconv**

**$ wget http://ftp.gnu.org/pub/gnu/libiconv/libiconv-1.16.tar.gz**

**$ tar -zxvf libiconv-1.16.tar.gz**

**$ cd libiconv-1.16**

**$ ./configure --prefix=/usr/local/libiconv**

**$ make && sudo make install**

**(31A) ./configure --prefix=/usr/local/php \**

**--enable-fpm --with-openssl --with-zlib \**

**--with-curl --enable-gd --with-webp \**

**--with-jpeg --with-freetype --enable-mbstring \**

**--with-zip --with-mysqli --with-pdo-mysql --with-iconv=/usr/local/libiconv \**

**--enable-intl**

**:**

**configure: error: Package requirements (icu-uc >= 50.1 icu-io icu-i18n) were not met:**

**Package 'icu-uc', required by 'virtual:world', not found**

**Package 'icu-io', required by 'virtual:world', not found**

**Package 'icu-i18n', required by 'virtual:world', not found**

**(31B) $ sudo yum install libicu-devel**

**(31C)$ ./configure --prefix=/usr/local/php --enable-fpm --with-openssl --with-zlib --with-curl --enable-gd --with-webp --with-jpeg --with-freetype --enable-mbstring --with-zip --with-mysqli --with-pdo-mysql --with-iconv=/usr/local/libiconv --enable-intl**

**:**

**Thank you for using PHP.**

**(32) $ make**

**“**

**:**

**warning: function declaration isn’t a prototype [-Wstrict-prototypes]**

 **211 | static inline int zend\_cpu\_supports\_pclmul() {**

 **| ^~~~~~~~~~~~~~~~~~~~~~~~**

**In file included from /home/admin/php-8.1.12/ext/opcache/jit/zend\_jit.c:705:**

**ext/opcache/jit/zend\_jit\_trace.c: In function ‘zend\_jit\_trace\_get\_exit\_addr’:**

**/home/admin/php-8.1.12/ext/opcache/jit/dynasm/dasm\_x86.h:127:19: warning: array subscript -10 is outside array bounds of ‘void \*[38]’ [-Warray-bounds]**

 **127 | D->globals = gl - 10; /\* Negative bias to compensate for locals. \*/**

 **| ~~~^~~~**

**In file included from /home/admin/php-8.1.12/ext/opcache/jit/zend\_jit.c:763:**

**/home/admin/php-8.1.12/ext/opcache/jit/zend\_jit\_x86.dasc:143:14: note: while referencing ‘dasm\_labels’**

 **143 | static void\* dasm\_labels[zend\_lb\_MAX];**

**:**

**PEAR package PHP\_Archive not installed: generated phar will require PHP's phar extension be enabled.**

**directorytreeiterator.inc**

**clicommand.inc**

**directorygraphiterator.inc**

**phar.inc**

**invertedregexiterator.inc**

**pharcommand.inc**

**Build complete.**

**Don't forget to run 'make test'.**

**(33) $ make test**

**:**

**=====================================================================**

**WARNED TEST SUMMARY**

**---------------------------------------------------------------------**

**Phar: bug #69958: Segfault in Phar::convertToData on invalid file [ext/phar/tests/bug69958.phpt] (warn: XFAIL section but test passes)**

**FPM: Buffered worker output decorated log with multiple continuous messages (stdout/stderr mixed) [sapi/fpm/tests/log-bwd-multiple-msgs-stdout-stderr.phpt] (warn: XFAIL section but test passes)**

**=====================================================================**

**You may have found a problem in PHP.**

**Posting to http://qa.php.net/buildtest-process.php**

**Thank you for helping to make PHP better.**

**make: \*\*\* [Makefile:229: test] Error 1**

**(33)** **$ sudo make install**

**[sudo] password for admin:**

**Installing shared extensions: /usr/local/php/lib/php/extensions/no-debug-non-zts-20210902/**

**Installing PHP CLI binary: /usr/local/php/bin/**

**Installing PHP CLI man page: /usr/local/php/php/man/man1/**

**Installing PHP FPM binary: /usr/local/php/sbin/**

**Installing PHP FPM defconfig: skipping**

**Installing PHP FPM man page: /usr/local/php/php/man/man8/**

**Installing PHP FPM status page: /usr/local/php/php/php/fpm/**

**Installing phpdbg binary: /usr/local/php/bin/**

**Installing phpdbg man page: /usr/local/php/php/man/man1/**

**Installing PHP CGI binary: /usr/local/php/bin/**

**Installing PHP CGI man page: /usr/local/php/php/man/man1/**

**Installing build environment: /usr/local/php/lib/php/build/**

**Installing header files: /usr/local/php/include/php/**

**Installing helper programs: /usr/local/php/bin/**

 **program: phpize**

 **program: php-config**

**Installing man pages: /usr/local/php/php/man/man1/**

 **page: phpize.1**

 **page: php-config.1**

**/home/admin/php-8.1.12/build/shtool install -c ext/phar/phar.phar /usr/local/php/bin/phar.phar**

**ln -s -f phar.phar /usr/local/php/bin/phar**

**Installing PDO headers: /usr/local/php/include/php/ext/pdo/**

**(34A) $ echo 'export PATH="/usr/local/php/bin:$PATH"' >> ~/.bashrc**

**(34B)$ source ~/.bashrc**

**(34C)$ cat ~/.bashrc**

**# .bashrc**

**# Source global definitions**

**if [ -f /etc/bashrc ]; then**

 **. /etc/bashrc**

**fi**

**# User specific environment**

**if ! [[ "$PATH" =~ "$HOME/.local/bin:$HOME/bin:" ]]**

**then**

 **PATH="$HOME/.local/bin:$HOME/bin:$PATH"**

**fi**

**export PATH**

**# Uncomment the following line if you don't like systemctl's auto-paging feature:**

**# export SYSTEMD\_PAGER=**

**# User specific aliases and functions**

**export PATH="/usr/local/php/bin:$PATH"**

**(35) $ php --version**

**]$ php --version**

**PHP Warning: PHP Startup: Unable to load dynamic library '/usr/lib64/php/modules/intl.so' (tried: /usr/lib64/php/modules/intl.so (/usr/lib64/php/modules/intl.so: undefined symbol: \_call\_user\_function\_ex), /usr/local/php/lib/php/extensions/no-debug-non-zts-20210902//usr/lib64/php/modules/intl.so.so (/usr/local/php/lib/php/extensions/no-debug-non-zts-20210902//usr/lib64/php/modules/intl.so.so: cannot open shared object file: No such file or directory)) in Unknown on line 0**

**PHP 8.1.12 (cli) (built: Nov 9 2022 22:45:42) (NTS)**

**Copyright (c) The PHP Group**

**Zend Engine v4.1.12, Copyright (c) Zend Technologies**

**$ date**

**Wed 09 Nov 2022 11:05:22 PM EST**

**(36)** **$ sudo cp php.ini-production /usr/local/php/lib/php.ini**

**(37) $ sudo vi /usr/local/php/lib/php.ini**

**$ cat /usr/local/php/lib/php.ini|grep /tmp/mysql.sock**

**pdo\_mysql.default\_socket=/tmp/mysql.sock**

**mysqli.default\_socket =/tmp/mysql.sock**

**(38)** **$ sudo useradd www-data -s /sbin/nologin**

**(39)** **$ cd /usr/local/php/etc**

**(40)** $ **sudo cp php-fpm.conf.default php-fpm.conf**

**$ sudo cp php-fpm.d/www.conf.default php-fpm.d/www.conf**

**(41)** **$ sudo vi php-fpm.d/www.conf**

**:**

user = www-data

group = www-data

**:**

;listen = 127.0.0.1:9000

listen = /tmp/php-fpm.sock

**:**

listen.owner = www-data

listen.group = www-data

listen.mode = 0660

(41B) sudo vi /etc/php-fpm.d/www.conf

**(42)$ sudo /usr/local/php/sbin/php-fpm -t**

 **[03-Nov-2022 03:59:44] NOTICE: configuration file /usr/local/php/etc/php-fpm.conf test is successful**

**(43)]$ sudo vi /etc/systemd/system/php-fpm.service**

[Unit]

Description=PHP FastCGI process manager

After=local-fs.target network.target nginx.service

[Service]

Type=forking

ExecStart=/usr/local/php/sbin/php-fpm

ExecReload=/bin/kill -USR2 $MAINPID

[Install]

WantedBy=multi-user.target

**(44)** **$ sudo systemctl daemon-reload**

**(45) $ sudo systemctl start php-fpm**

**(46)$ sudo systemctl restart php-fpm**

**(47) $ sudo systemctl status php-fpm**

**(48) ]$ sudo systemctl enable php-fpm**

**(49)** **$ sudo systemctl stop httpd.service**

**(50) $ sudo /usr/local/apache2/bin/apachectl start**

**:**

**/usr/local/apache2/bin/apachectl: line 79: 940015 Segmentation fault (core dumped) $HTTPD -k $ARGV**

**(51)** **$ cd ~/httpd-2.4.54/**

**$ sudo make install**

**(52) $ httpd -v**

**Server version: Apache/2.4.46 (Fedora)**

**Server built: Aug 25 2020 00:00:00**

**(53)$ /usr/local/apache2/bin/httpd -v**

**Server version: Apache/2.4.54 (Unix)**

**Server built: Nov 1 2022 20:09:17**

**(54) $ sudo /usr/local/apache2/bin/apachectl start**

**/usr/local/apache2/bin/apachectl: line 79: 969451 Segmentation fault (core dumped) $HTTPD -k $ARGV**

**(55)** **$ sudo /usr/local/apache2/bin/apachectl -l**

**Compiled in modules:**

 **core.c**

 **mod\_so.c**

 **http\_core.c**

 **event.c**

**(56)** **$ sudo vi /usr/local/apache2/conf/httpd.conf**

**LoadModule perl\_module /usr/lib64/httpd/modules/mod\_perl.so**

**(57) $ sudo /usr/local/apache2/bin/apachectl start**

**httpd: Syntax error on line 107 of /usr/local/apache2/conf/httpd.conf: Cannot load /usr/lib/httpd/modules/mod\_perl.so into server: /usr/lib/httpd/modules/mod\_perl.so: cannot open shared object file: No such file or directory**

**(58)** **$ sudo yum install mod\_perl**

**(59)** **$ sudo yum install perl -y**

**(60) $ sudo find / |grep mod\_perl.so**

**/usr/lib64/httpd/modules/mod\_perl.so**

**(61)$ cat /usr/local/apache2/conf/httpd.conf|grep mod\_proxy**

**:**

**LoadModule proxy\_module modules/mod\_proxy.so**

**:**

**LoadModule proxy\_fcgi\_module modules/mod\_proxy\_fcgi.so**

**:**

**<IfModule dir\_module>**

**ProxyPassMatch ^/(.\*\.php(/.\*)?)$ fcgi://127.0.0.1:9000/usr/local/apache2/htdocs/$1**

 **DirectoryIndex index.html index.php**

**</IfModule>**

**(62)** **$ sudo /usr/local/apache2/bin/apachectl start**

**(98)Address already in use: AH00072: make\_sock: could not bind to address 163.25.20.15:80**

**no listening sockets available, shutting down**

**AH00015: Unable to open logs**

**(63)$sudo systemctl stop httpd.service**

**(64)** **$ sudo /usr/local/apache2/bin/apachectl start**

**/usr/local/apache2/bin/apachectl: line 79: 1113462 Segmentation fault (core dumped) $HTTPD -k $ARGV**

**(65)$ ps ax|grep mysql**

 **1162 ? Ssl 0:05 /usr/libexec/mysqld --basedir=/usr**

 **574478 pts/0 S+ 0:00 grep --color=auto mysql**

**(66)$ ps ax|grep php**

 **1125 ? Ss 0:00 php-fpm: master process (/usr/local/php/etc/php-fpm.conf)**

 **1126 ? S 0:00 php-fpm: pool www**

 **1127 ? S 0:00 php-fpm: pool www**

 **574873 pts/0 S+ 0:00 grep --color=auto php**

**(67) $ sudo /usr/local/apache2/bin/apachectl start**

**[sudo] password for admin:**

**AH00534: httpd: Configuration error: More than one MPM loaded.**

**[admin@lfwiki ~]$**

**(68) $ cd /usr/local/apache2/conf**

**$ sudo mv httpd.conf httpd.conf.20221104**

**$ sudo mv httpd.conf.bak httpd.conf**

**$ sudo /usr/local/apache2/bin/apachectl start**

**(69)$ ps ax|grep httpd**

 **584579 ? Ss 0:00 /usr/local/apache2/bin/httpd -k start**

 **584583 ? Sl 0:00 /usr/local/apache2/bin/httpd -k start**

 **584584 ? Sl 0:00 /usr/local/apache2/bin/httpd -k start**

 **584585 ? Sl 0:00 /usr/local/apache2/bin/httpd -k start**

 **585047 pts/0 S+ 0:00 grep --color=auto httpd**

**(70)$ sudo vi /usr/local/apache2/conf/httpd.conf**

**<Proxy "unix:/tmp/php-fpm.sock|fcgi://php-fpm">**

 **ProxySet disablereuse=off**

**</Proxy>**

**<FilesMatch \.php$>**

 **SetHandler proxy:fcgi://php-fpm**

**</FilesMatch>**

**$ cat /usr/local/apache2/conf/httpd.conf|grep mod\_proxy**

**:**

**LoadModule proxy\_module modules/mod\_proxy.so**

**:**

**LoadModule proxy\_fcgi\_module modules/mod\_proxy\_fcgi.so**

**(71) $ sudo systemctl start httpd.service**

**Job for httpd.service failed because the control process exited with error code.**

**See "systemctl status httpd.service" and "journalctl -xe" for details.**

**(72)** **$ sudo cat /etc/php-fpm.d/www.conf**

**(73) $ cat /usr/local/apache2/logs/error\_log**

**[Fri Nov 04 02:11:04.794353 2022] [proxy:error] [pid 903069:tid 140075258050304] (13)Permission denied: AH02454: FCGI: attempt to connect to Unix domain socket /tmp/php-fpm.sock (php-fpm:8000) failed**

**[Fri Nov 04 02:22:14.095645 2022] [core:error] [pid 903067:tid 140075216086784] (13)Permission denied: [client 163.25.20.252:54298] AH00132: file permissions deny server access: /usr/local/apache2/htdocs/lftree/uploads/blackdog.png, referer: http://lfwiki.kmvs.km.edu.tw/**

**[Fri Nov 04 02:22:44.894552 2022] [proxy:error] [pid 903068:tid 140074335311616] (13)Permission denied: AH02454: FCGI: attempt to connect to Unix domain socket /tmp/php-fpm.sock (php-fpm:8000) failed**

**[Fri Nov 04 02:22:44.894598 2022] [proxy\_fcgi:error] [pid 903068:tid 140074335311616] [client 163.25.20.252:54303] AH01079: failed to make connection to backend: httpd-UDS, referer:** [**http://lfwiki.kmvs.km.edu.tw/**](http://lfwiki.kmvs.km.edu.tw/)

**(74) $ vi httpd.conf**

**User www-data**

**Group www-data**

**$ cat httpd.conf|grep www-data**

**User www-data**

**Group www-data**

**(75) sudo /usr/local/apache2/bin/apachectl start**

[**http://lfwiki.kmvs.km.edu.tw/a.php**](http://lfwiki.kmvs.km.edu.tw/a.php) **OK**

**(76) $ date**

**Tue 08 Nov 2022 01:06:03 AM EST**

[**https://cwiki.apache.org/confluence/display/HTTPD/PHP-FPM**](https://cwiki.apache.org/confluence/display/HTTPD/PHP-FPM)