建構 PHP+JSP 環境

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環境:

CentOS4.0

安裝版本與下載路徑:

JDK 5.0: http://java.sun.com/javase/downloads/index_jdk5.jsp

Apache 2.0.5.9: http://ftp.mirror.tw/pub/apache/httpd/httpd-2.0.59.tar.gz

Tomcat 4.1.36:

http://ftp.tcc.edu.tw/pub/Apache/tomcat/tomcat-4/v4.1.36/bin/apache-tomcat-4.1.36.tar.gz

JK 1.2.25(mod_jk):

http://www.apache.org/dist/tomcat/tomcat-connectors/jk/source/jk-1.2.25/tomcat-connectors-1.2.2
5-src.tar.gz

PHP 4.4.7: http://tw2.php.net/get/php-4.4.7.tar.gz/from/a/mirror

MySQL 4.1.22: http://dev.mysql.com/downloads/mysql/4.1.html

Eaccelerator 0.9.5.1: http://bart.eaccelerator.net/source/0.9.5.1/

ZendOptimizer 3.3.3: http://www.zend.com/downloads

開始安裝:

Install MySQL:

```
cd /usr/local/src/
tar -zxvf mysql-max-4.1.20-pc-linux-gnu-i686.tar.gz

ln -s /usr/local/src/mysql-max-4.1.20-pc-linux-gnu-i686 /usr/local/mysql
cd /usr/local/mysql

groupadd mysql
useradd -g mysql mysql

scripts/mysql_install_db --user=mysql

chown -R root .
chown -R mysql data
chgrp -R mysql .

bin/mysqld_safe --user=mysql &

cp support-files/my-medium.cnf /etc/my.cnf

Boot Start:
```

```
vi /etc/rc.d/rc.local
/usr/local/mysql/bin/safe_mysqld --user=mysql &
```

Install JDK:

```
chmod 755 JDK1.5.0.rpm.bin
./JDK1.5.0.rpm.bin
```

```
Set PATH:
vi /etc/profiles
JAVA_HOME=/usr/java/jdk_1.5.0/
PATH=$PATH:$JAVA_HOME/bin
export PATH JAVA_HOME
```

```
source /etc/exports
```

Install Apache:

```
cd /usr/local/src/
tar -zxvf httpd-2.0.59.tar.gz
```

```
Configure:
./configure \
--prefix=/usr/local/apache \
--enable-modules=so \
--enable-mods-shared=most \
--enable-v4-mapped \
--enable-proxy \
--enable-ssl \
--enable-proxy-http \
--enable-proxy-ftp \
--enable-cache \
--enable-disk-cache \
--enable-mem-cache \
--enable-so \
--enable-speling \
--enable-cgi \
--with-ssl=/usr/share/ssl
```

make;make install

Boot start:
vi /etc/rc.d/rc.local
/usr/local/apache/bin/apachectl start

Install PHP:

Check RPM Install:
yum -y install libselinux*
yum -y install libc-client*
yum -y install bzip*
yum -y install gmp*
yum -y install curl*
yum -y install xmlsec*
yum -y install net-snmp*
yum -y install cyrus-imapd*
yum -y install gd
yum -y install libpng*
yum -y install zlib*
yum -y install bison
yum -y install flex
yum -y install openssl*
yum -y install gtkspell*
yum -y install autoconf
yum -y install libtool
yum -y install libjpeg-devel
yum -y install libjpeg

Configure:
./configure \
--prefix=/usr/local/php \
--with-mysql=/usr/local/mysql \
--with-apxs2=/usr/local/apache/bin/apxs \
--with-config-file-path=/etc \
--with-gd \
--with-gettext \
--with-zlib \
--with-kerberos \
--with-imap-ssl \

```
--with-snmp \
--with-openssl \
--with-zlib \
--with-iconv \
--with-imap \
--with-bz2 \
--with-curl \
--without-gdbm \
--with-gmp \
--with-png \
--with-pspell \
--with-xml \
--with-layout=GNU \
--with-pic \
--enable-mbstring \
--enable-roxen-zts \
--enable-magic-quotes \
--enable-libgcc \
--enable-versioning \
--enable-bcmath \
--enable-calendar \
--enable-exif \
--enable-ftp \
--enable-filepro \
--enable-shared \
--enable-static \
--enable-fast-install \
--enable-zend-multibyte \
--enable-memory-limit \
--enable-experimental-zts \
--enable-safe-mode \
--enable-ucd-snmp-hack \
--enable-bcmath \
--enable-pic \
--enable-inline-optimization \
--enable-force-cgi-redirect \
--enable-sockets \
--enable-sysvsem \
--enable-track-vars \
--enable-trans-sid \
--enable-yp \
```

```
--enable-wddx \
--enable-gd-native-ttf \
--enable-shmop \
--enable-dbx \
--enable-dio \
--enable-mbstr-enc-trans \
--enable-mbregex \
--disable-debug \
--disable-rpath

make;make install

cp /usr/local/src/php4.4.7/php.ini-recommended /etc/php.ini

Setup Apache:
vi /usr/local/apache/conf/httpd.conf

AddType        application/x-httpd-php  .php
LoadModule   php4_module            modules/libphp4.so

/usr/local/apache/apachectl restart
```

Install Tomcat:

```
cd /usr/local/
tar -zxvf apache-tomcat4.1.3.6.tar.gz
```

Compile mod_jk:

```
        cd /usr/local/src/
        tar -zxvf tomcat-connectors-1.2.25-src.tar.gz

        Configure:
        ./configure --with-apxs=/usr/local/apache/bin/apxs

        vi /usr/local/apache/conf/httpd.conf
        LoadModule jk_module modules/mod_jk.so

        <VirtualHost *:80>
```

```
        JkMount /*.jsp ajp13
    </VirtualHost>
/* JSP 檔案存放路徑預設為/usr/local/tomcat/webapps/ROOT
 *  所以 Apache 預設目錄/usr/local/apache/htdocs/下是看不到 JSP 的
 *  假設您有在下層的目錄/usr/local/tomcat/webapps/ROOT/dir1
 *  那麼
 * <VirtualHost *:80>
    * JkMount /*.jsp ajp13
    * JkMount /dir1/*.jsp ajp13 //多加此筆並依此類推
    * </VirtualHost>
/*
```

Install ZendOptimizer:

//建議先把 Apache 以及 PHP 環境建構起來
//因為安裝時會修改到 php.ini 檔案

./install.sh

Install EAccelerator:

cd /usr/local/src/
tar -zxvf eaccelerator-0.9.5.1.tar.gz

/usr/local/php/bin/phpize

./configure \
--enable-eaccelerator=shared \
--with-php-config=/usr/local/php/bin/php-config

make;make install

編譯完成後請紀錄 eaccelerator.so 檔案位置

Setup php.ini:

vi /etc/php.ini

extension="/usr/local/php/20020429-zts/eaccelerator.so"

```
eaccelerator.shm_size="16"
eaccelerator.cache_dir="/phpcache"
eaccelerator.enable="1"
eaccelerator.optimizer="1"
eaccelerator.check_mtime="1"
eaccelerator.debug="0"
eaccelerator.filter=""
eaccelerator.shm_max="0"
eaccelerator.shm_ttl="0"
eaccelerator.shm_prune_period="0"
eaccelerator.shm_only="0"
eaccelerator.compress="1"
eaccelerator.compress_level="9"

mkdir /phpcache
chmod 777 /phpcache
```

Testing:
    重新啟動服務 Apache 以及 Tomcat
    在 Apache 家目錄下建立一個.php 檔案測試
    在 Tomcat 家目錄下建立一個.jsp 檔案測試

心得感想:
    1.RPM 套件需確實安裝到，如 gcc,gcc-devel..etc
    2.編譯 mod_jk.so 發生了時間不同步的問題
        ntpdate -n tock.stdtime.gov.tw 應該可以解決該問題