



PHP語言實作於GAE平台之步驟

Quercus是一套完全由Java實作可模擬PHP語言的套件。

以下逐一說明如何申請註冊GAE服務，並於Java運行環境上部署Quercus服務，以順利運行PHP語言。

1. 使用Gmail帳號登入GAE平台 (<http://appengine.google.com/>)，登入後，將可馬上新增配置應用系統名稱 (Create an Application)。申請新增應用系統，首先需按步驟取得手機認證碼 (+886手機末九碼)，而每一組手機號碼，僅能提供一組帳號進行認證；隨即即可輸入手機認證碼 (Account Code)，進而開始設定應用系統網域識別名稱 (Application Identifier) 與系統標題 (Title)。 GAE平台提供每組Gmail帳號可開設十組應用系統。

2. 確認此Gmail帳號於GAE平台中是否已開啟Java Runtime環境 (http://appengine.google.com/promo/java_runtime)。

原則上，目前申請完應用系統，Java環境會隨即開啟；若否，則可能需等待一至兩天；另由Gmail發信告知。

3. 於本地端安裝JDK (<http://java.sun.com/javase/downloads/index.jsp>)。

4. 下載GAE SDK for Java (<http://code.google.com/intl/zh-TW/appengine/downloads.html>)，解壓縮後之資料夾置於C:\GAE\內。

5. 下載 Quercus套件 (<http://www.webdigi.co.uk/fun/php-appengine/phpwithjava.zip>)，解壓縮後之資料夾置於C:\GAE\內。

6. 可先於本地端測試Quercus的運作情況：

```
cmd> cd C:\GAE\appengine-java-sdk-1.2.0\bin
dev_appserver.cmd c:\GAE\phpwithjava\war
```

7. 將Quercus內設定檔 (appengine-web.xml、web.xml) 的服務名稱 (phpwithjava) 更改為剛剛申請之「網域識別名稱」 (ex. ck2gae)。

Applications Overview - Windows Internet Explorer

https://appengine.google.com/

Application	Title	Curre
kamio1225	kamio1225	None
twkamio	twkamio	

此為gae平台名稱

```

1.. appengine-web.xml  2.. web.xml
1 <?xml version="1.0" encoding="utf-8"?>
2 <appengine-web-app xmlns="http://appeng
3   <application>GAE平台</application>
4   <version>1</version>

```

此原為phpwithjava字樣，請替換掉，以此
 案例，您可以選上述其中一個，如
 kamio1225

```

2.. web.xml
7 <ervlet>
8   <ervlet-name>Quercus Servlet</servle
9   <ervlet-class>com.caucho.quercus.ser
10  <init-param>
11    <param-name>ini-file</param-name>
12    <param-value>WEB-INF/php.ini</param
13    <param-name>compile</param-name>
14    <param-value>>true</param-value>
15  </init-param>
16 </ervlet>
17 <ervlet>
18   <ervlet-name>GAE平台</ervlet-name>
19   <ervlet-class>de.apux.ajaxialis.ajax
20 </ervlet>
21 <ervlet-mapping>
22   <ervlet-name>Quercus Servlet</servle
23   <url-pattern>*.php</url-pattern>
24 </ervlet-mapping>
25 <ervlet-mapping>
26   <ervlet-name>GAE平台</ervlet-name>
27   <url-pattern>/GAE平台</url-pattern>

```

原為phpwithjava，請替換
 掉，以此案例，您可以
 選上述其中一個，如
 kamio1225，共修改3個
 地方

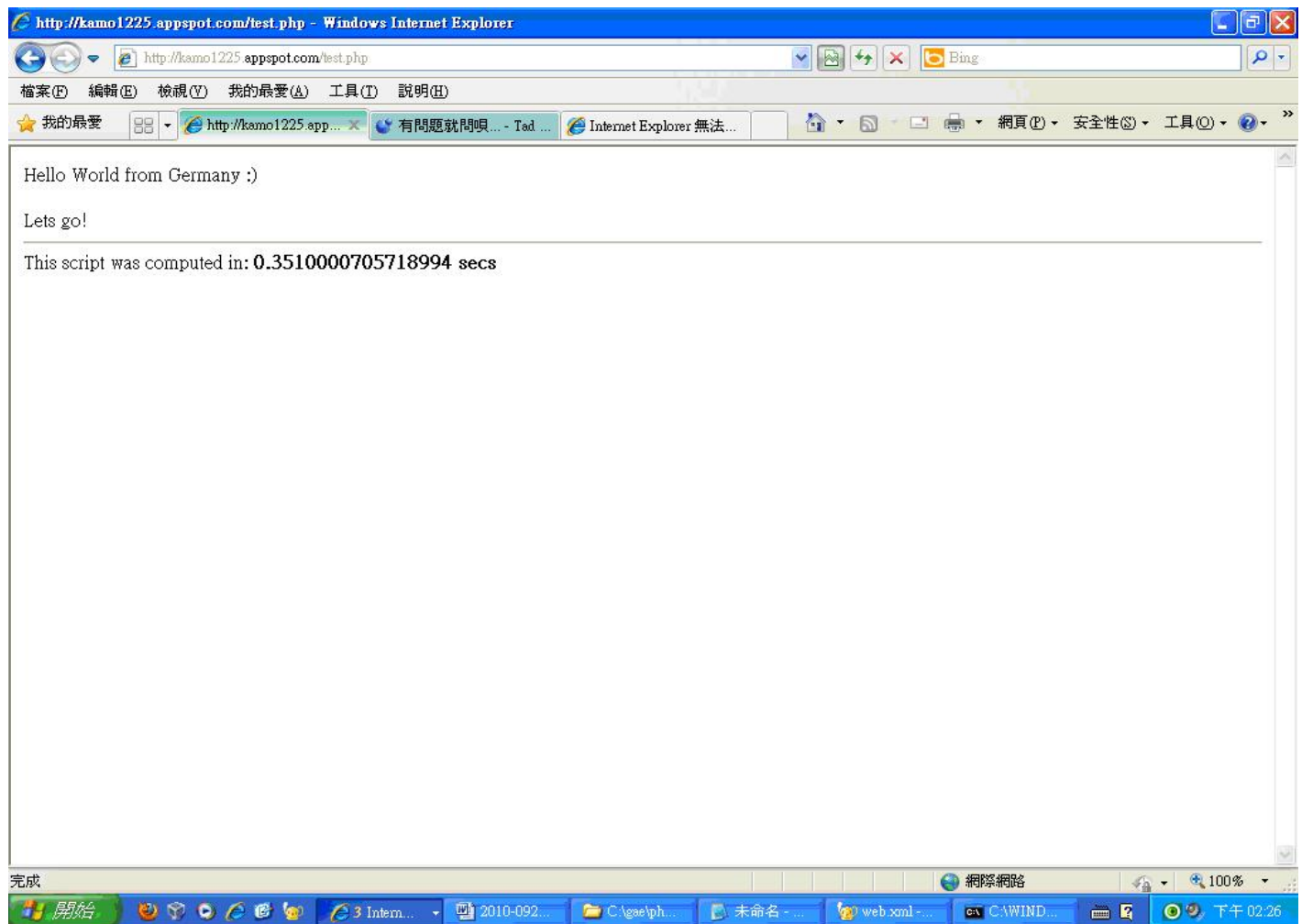
8. 上傳Quercus應用系統至GAE平台：

```
cmd> cd C:\GAE\appengine-java-sdk-1.2.0\bin
```

```
cmd> appcfg.cmd update c:\GAE\phpwithjava\war
```

成功上傳的話，將可看到完成百分比，與Update complete、Success等字樣。

9. 透過網域識別名稱檢視應用系統的運作 (ex. <http://ck2gae.appspot.com/>)。



Using PHP on Google App Engine

Even after several years of public requests for opening App Engine ports for PHP programmers Google hasn't done much for it. But as well as Ruby is working on App Engine with Java, so is PHP possible using Caucho's Quercus Java implementation. Combining AppEngine and Quercus is little tricky at the moment. Information is spread all over the net and often is not using the latest packages. That's why you may find next easy steps welcome.

Components needed

- Java Development Kit (1.6)
- Google Application Engine Software Development Kit (1.4.0)
- Quercus & Resin Java-PHP5 bridge by Caucho (4.0)

Downloads

1. Download JDK6 (<http://download.java.net/jdk6/>) if you don't have it. Apple has its own fork of JDK for MacOS X and version 6 is already on basic operating system installation. For earlier versions you get the most recent help from Google.
2. Download custom [PHP on Google App Engine](#) installation package. Unzip to some place on your computer. Package size is 47.4Mb.

You can get all components on package separately, but if you want easy way, I recommend downloading custom installation package for hassle free deployment. In case you want to make your own setup, it's all here:

- Download AppEngine (<http://code.google.com/intl/fi-FI/appengine/downloads.html>). Choose Java version instead of Python version.
- Download Quercus (<http://quercus.caucho.com/>). Get the latest war or source.
- See some instruction from this blog: <http://raivoratsep.com/42/running-quercus-php-on-app-engine/> to

make them work together.

Configure & Deploy

With JDK6 you need to follow their (<http://www.oracle.com/technetwork/java/javase/index-137561.html>) install instructions. Most probably you will have JDK already installed on your computer. Then follow these steps:

1. Create your application on Google: <http://appengine.google.com/>. Take the name of the application for the next steps.
2. Get PHP on Google App Engine (<http://budurl.com/phpongogleappengine>) and unzip if you didn't already
3. Open `./war/appengine-web.xml` file from unzipped directory and edit 3rd line:
4. `<application>my-application-id</application>`
5. to contain your application id.
6. Open console and go to the unzipped directory called "ck2gae":
7. `cd /path/to/ck2gae/`
8. Run the deployment code for mac/linux:
9. `sh ./appengine-java-sdk-1.4.0/bin/appcfg.sh \\
10. --enable_jar_splitting update ./war`
11. or run the deployment code for windows:
12. `./appengine-java-sdk-1.4.0/bin/appcfg.cmd \\
13. --enable_jar_splitting update ./war`
14. Give your Google account username and password.
15. Point your browser to your application root:
16. `http://my-application-id.appspot.com`

And that's it! See working example from: <http://ck2gae.appspot.com> and notice the content of `phpinfo()` as an evidence of successful operation.

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