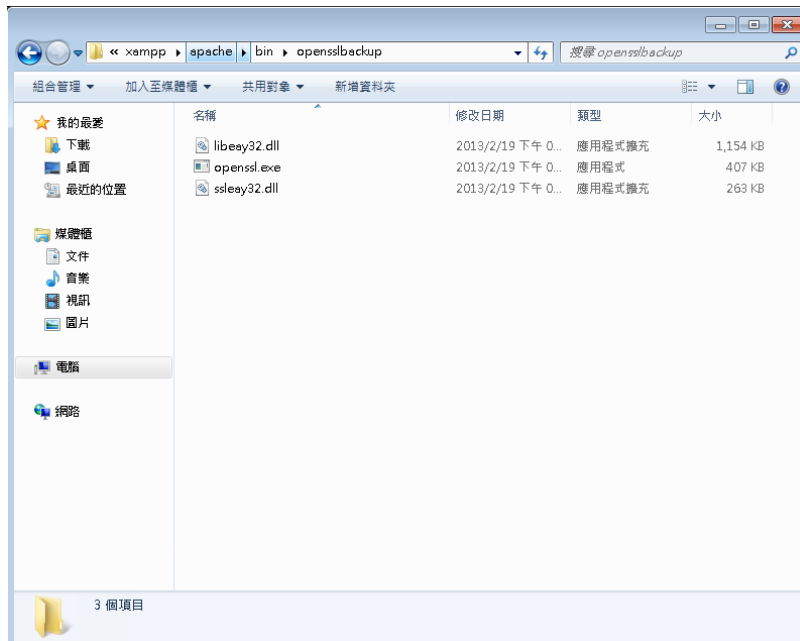


Heartbleed 弱點修正步驟

1. 停止 Apache 以及 MySQL 服務
2. 下載更新套件(附件內有三個版本，請依單位需求安裝)
 - I. <http://www.microsoft.com/zh-tw/download/details.aspx?id=30679>
 - II. <http://sourceforge.net/projects/xampp/files/security/2014-04%20Heartbleed/xampp-opensslfix-win32.zip/download>
3. 將以下五個檔案備份，以免操作失當。
 - A. c:\xampp\apache\bin\libeay32.dll
 - B. c:\xampp\apache\bin\ssleay32.dll
 - C. c:\xampp\apache\bin\openssl.exe

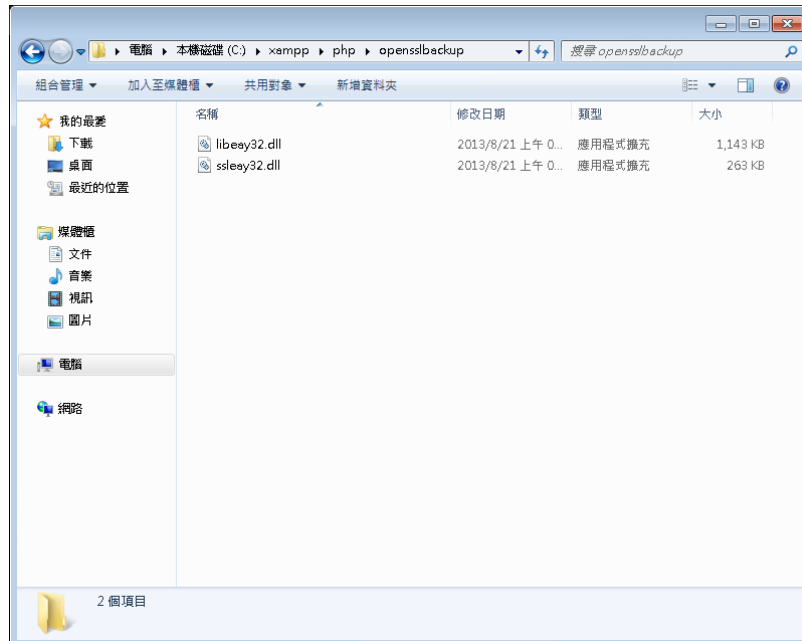
***在 bin 目錄底下建立備份資料夾-opensslbackup**



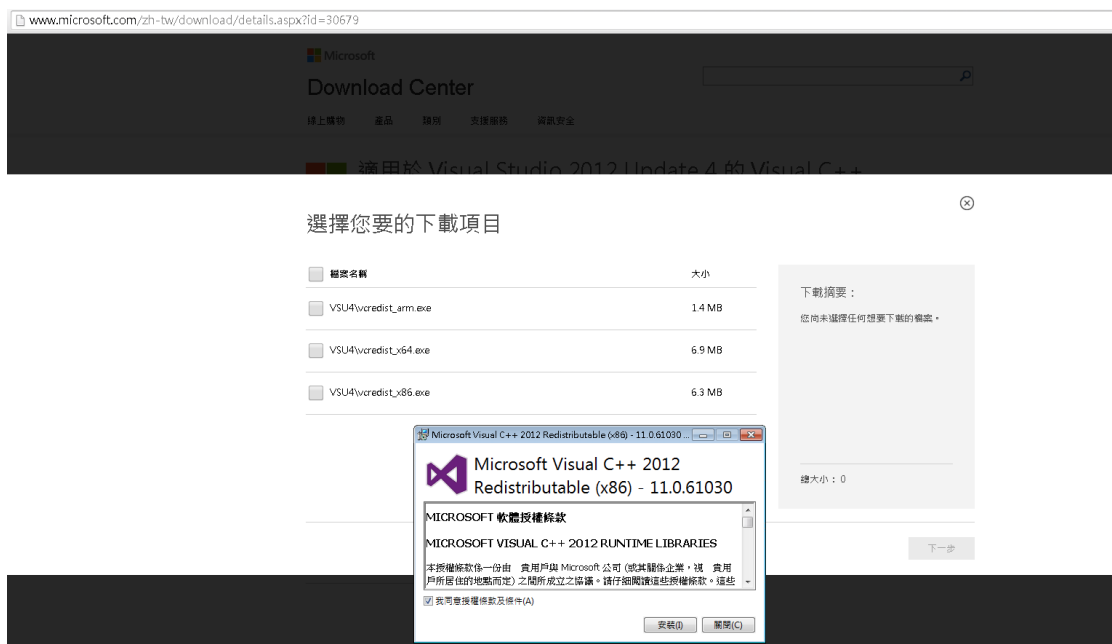
D. c:\xampp\php\libeay32.dll

E. c:\xampp\php\ssleay32.dll

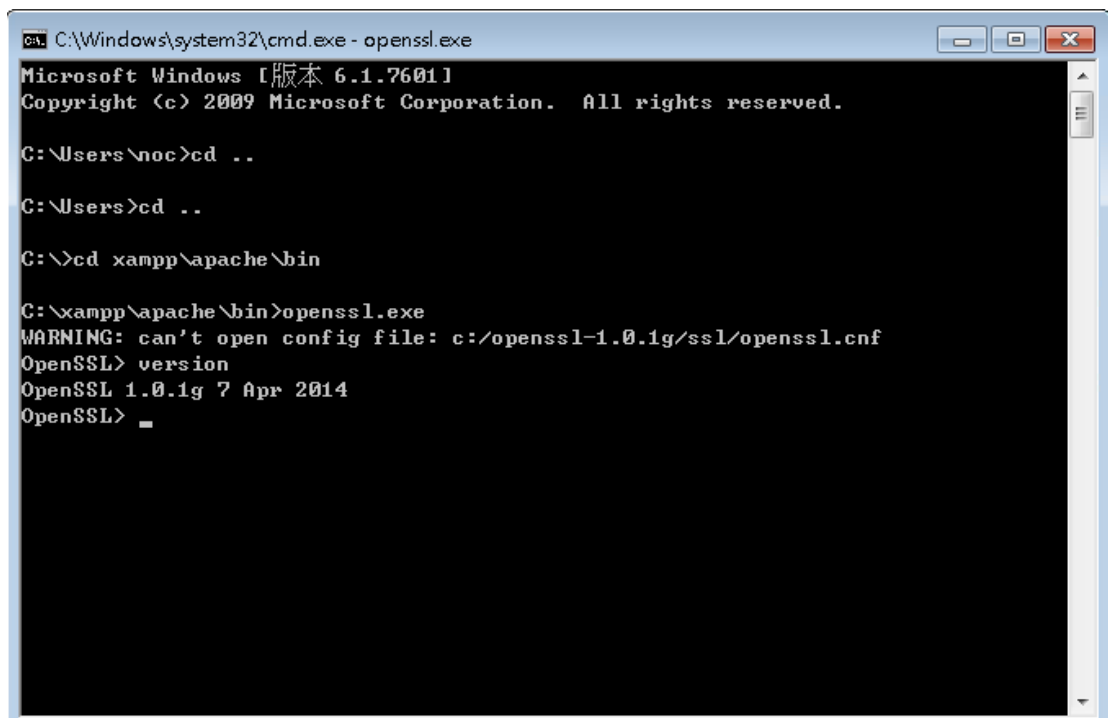
*在 php 目錄底下建立備份資料夾-opensslbackup



4. 執行”下載 II”的檔案-vc redistrib_arm.exe(依單位機器而選擇 vc redistrib_64 or vc redistrib_X86)



5. 解壓縮 xampp-opensslfix-win32.zip，將 3 個檔案移動至
c:\xampp\apache\bin\ 覆蓋原本檔案
 - I. c:\xampp\apache\bin\libeay32.dll
 - II. c:\xampp\apache\bin\ssleay32.dll
 - III. c:\xampp\apache\bin\openssl.exe
6. 解壓縮 xampp-opensslfix-win32.zip，將 2 個檔案移動至
c:\xampp\php\
 - IV. c:\xampp\php\libeay32.dll
 - V. c:\xampp\php\ssleay32.dll
7. 重新啟動 Apache 與 Mysql
8. 檢查 OpenSSL 套件是否為 1.0.1g



```
C:\Windows\system32\cmd.exe - openssl.exe
Microsoft Windows [版本 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\noc>cd ..
C:\Users>cd ..
C:\>cd xampp\apache\bin
C:\xampp\apache\bin>openssl.exe
WARNING: can't open config file: c:/openssl-1.0.1g/ssl/openssl.cnf
OpenSSL> version
OpenSSL 1.0.1g 7 Apr 2014
OpenSSL> _
```