練習開發環境建置

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練習一

- 1) 課程開發及執行環境
 - □ 安裝 Java SDK
 - 安裝 NetBeans IDE
 - 安裝 Tomcat
 - NetBeans 管理 Tomcat

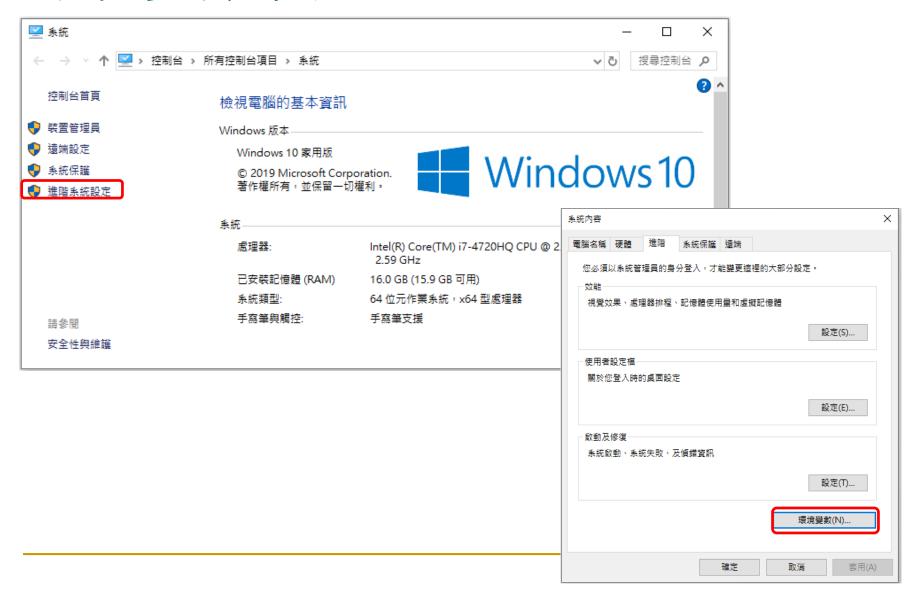
安裝 Java SDK

- Java SDK下載
 - □ https://www.oracle.com/tw/java/technologies/javasec-downloads.html 下載
 - □ jdk-11.0.x_windows-x64_bin.exe
- 安裝Java SDK
 - □ 執行 jdk-11.0.x_windows-x64_bin.exe

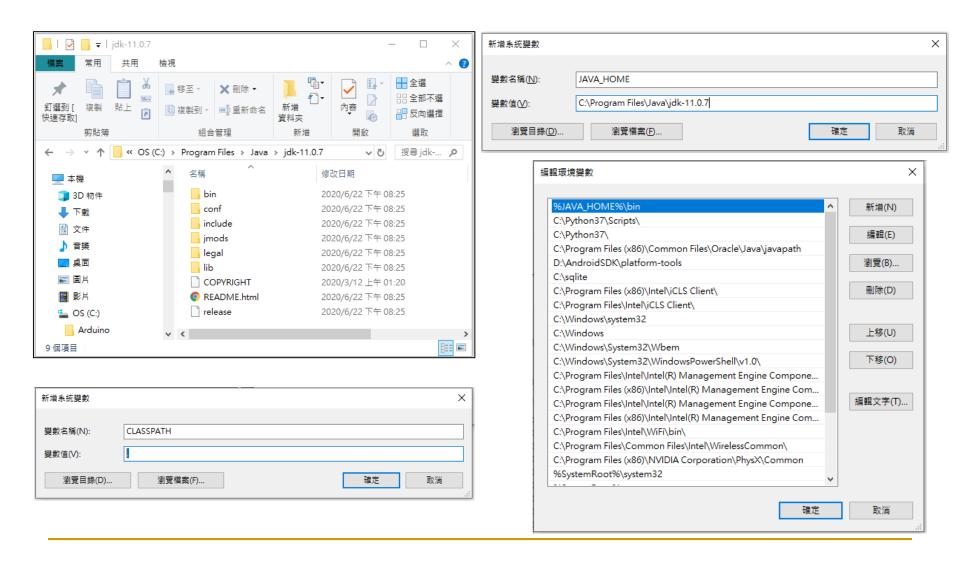
安裝 Java SDK

- ■環境變數設定
 - □ Windows 【控制台>系統及安全性>系統>進階系統設定】 的【環境變數】項目
 - □ 新增 JAVA_HOME = [Java SDK Location]
 - JAVA_HOME = C:\Program Files\Java\jdk-X. Y.Z
 - □ 編輯 PATH 加入
 - %JAVA_HOME%\bin;
- ■測試
 - □ java –version
 - javac

環境變數設定 Windows



環境變數設定



測試

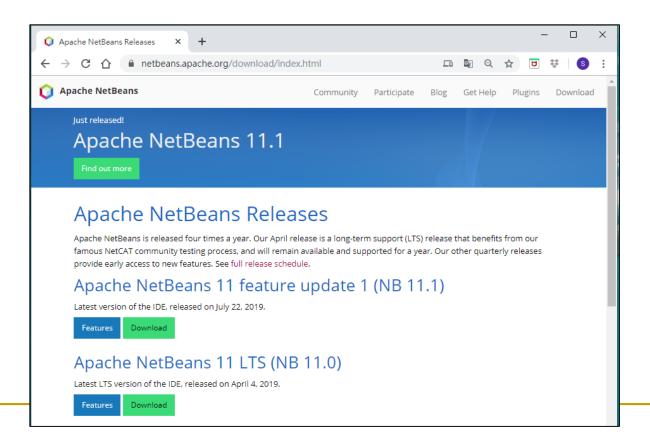
- ■測試環境變數
 - java –version
 - javac

```
C:\>java -version
java version "11.0.7" 2020-04-14 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.7+8-LTS)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.7+8-LTS, mixed mode)
C:\>
```

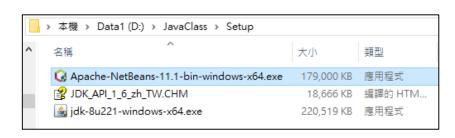
```
■ 命令提示字元
                                                                      C:\>javac
Jsage: javac <options> <source files>
where possible options include:
                               Read options and filenames from file
 @<filename>
 -Akey[=value]
                               Options to pass to annotation processors
 --add-modules <module>(,<module>)*
       Root modules to resolve in addition to the initial modules, or al
 modules
       on the module path if <module> is ALL-MODULE-PATH.
 --boot-class-path <path>, -bootclasspath <path>
       Override location of bootstrap class files
  --class-path <path>, -classpath <path>, -cp <path>
       Specify where to find user class files and annotation processors
                               Specify where to place generated class fil
  -d <directory>
  -deprecation
       Output source locations where deprecated APIs are used
  --enable-preview
        Enable preview language features. To be used in conjunction with
```

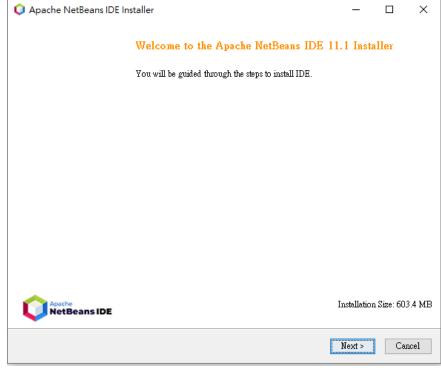
- NetBeans下載
 - https://netbeans.apache.org/download/index.html
 - Apache-Netbeans-11.x-bin-windows-x64.exe
- 安裝 NetBeans
- 測試

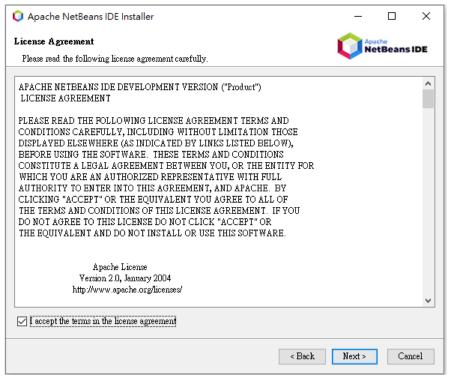
- NetBeans下載
 - https://netbeans.apache.org/download/index.html

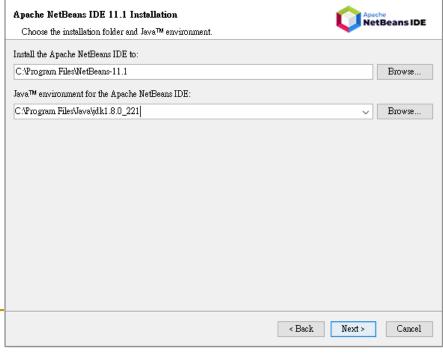


執行 Apache-Netbeans-11.x-bin-windows-x64.exe



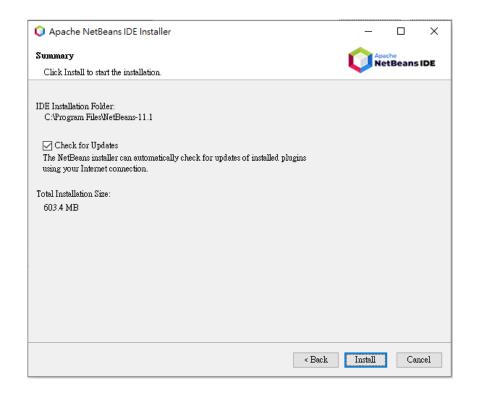


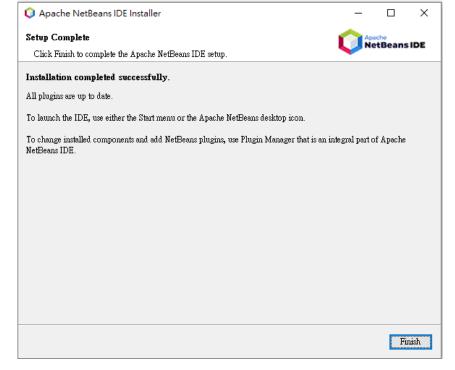




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Apache NetBeans IDE Installer





- 下載Tomcat
 - https://tomcat.apache.org/download-90.cgi
 - apache-tomcat-9.0.x.exe
- 安裝Tomcat
 - □ 設定Shutdown Port
 - □設定管理者帳號密碼
- 檢視伺服器設定

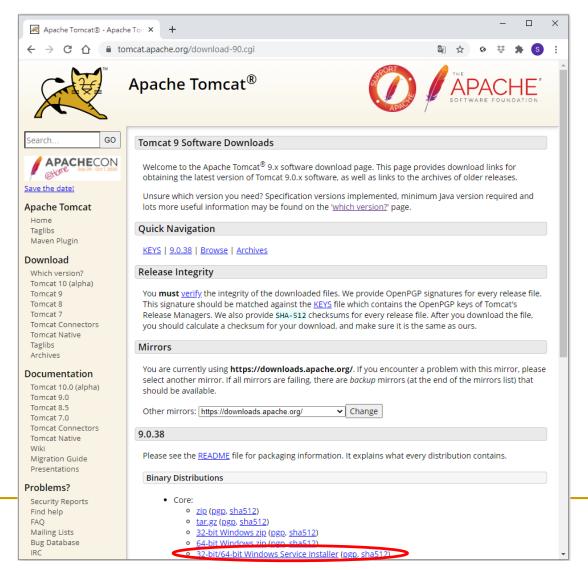
- ■環境變數設定
 - □ 新增 CATALINA_HOME = [Tomcat 安裝路徑]

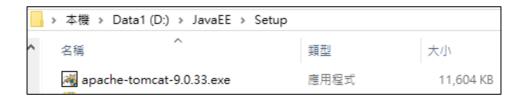
 CATALINA_HOME = C:\Program Files\Apache Software
 Foundation\Tomcat 9.0
 - □ 編輯 PATH

 PATH = %CATALINA_HOME%\bin;
- ■測試
 - □ 啟動關閉 Tomcat
 - □ 瀏覽器檢視內建網站

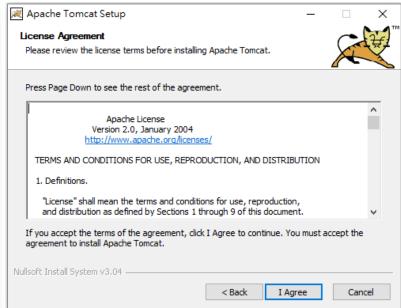
下載 Tomcat

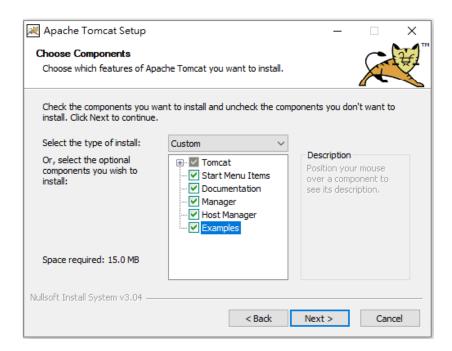
■ 下載位置: https://tomcat.apache.org/download-90.cg











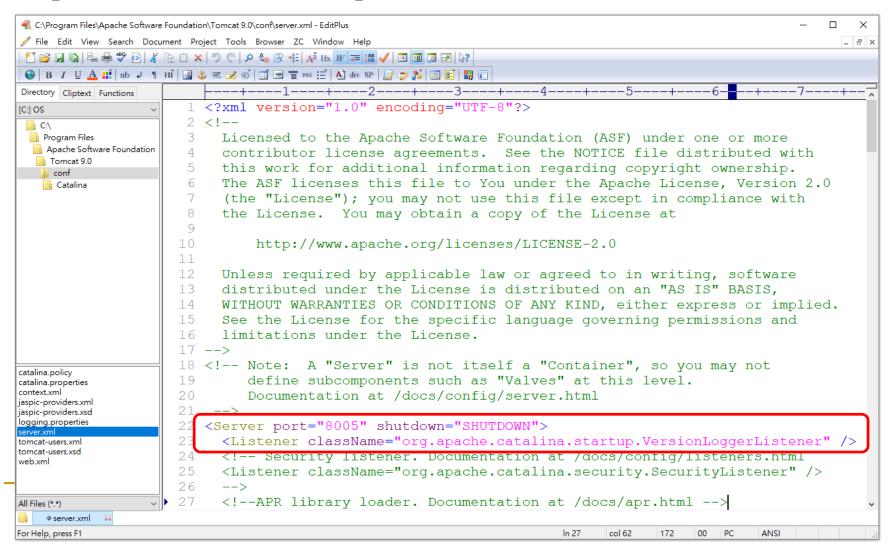
Username: admin Password: tomcat

	onfiguration	Options – \square X		
Configuration Tomcat basic configuration.				
Server Shutdown Port		-1		
HTTP/1.1 Connector Port		8080		
Windows Service Name		Tomcat9		
Create shortcuts for all users				
Tomcat Administrator Login (optional)	User Name Password			
Indian St. Taraball Contains vol. 04	Roles	admin-gui,manager-gui		
Jullsoft Install System v3,04 —		< Back Next > Cancel		
Apache Tomcat Setup: C Configuration Tomcat basic configuration.	onfiguration	Options – 🗆 X		
Configuration	onfiguration	Options - X 8005 設定Shutdown Port		
Configuration Tomcat basic configuration.	onfiguration			
Configuration Tomcat basic configuration. Server Shutdown Port	onfiguration	影应5 設定Shutdown Port		
Configuration Tomcat basic configuration. Server Shutdown Port HTTP/1.1 Connector Port		8005 設定Shutdown Port 8080		
Configuration Tomcat basic configuration. Server Shutdown Port HTTP/1.1 Connector Port Windows Service Name	User Name	8005 設定Shutdown Port 8080		
Tomcat basic configuration. Server Shutdown Port HTTP/1.1 Connector Port Windows Service Name Create shortcuts for all users Tomcat Administrator Login		8005 設定Shutdown Port 8080		

→ 本機 <os (c:)="" 9.0<="" apache="" files="" foundation="" program="" software="" th="" tomcat="" →=""></os>						
^	名稱	類型	大小	修改日期		
	☐ bin	檔案資料夾		2020/4/8 下午 02:48		
	conf	檔案資料夾		2020/4/8 下午 02:49		
	📊 lib	檔案資料夾		2020/4/8 下午 02:48		
	☐ logs	檔案資料夾		2020/10/2 下午 11:43		
	temp	檔案資料夾		2020/4/8 下午 02:48		
	webapps	檔案資料夾		2020/10/2 下午 11:43		
	work	檔案資料夾		2020/4/8 下午 02:49		
	LICENSE	檔案	57 KB	2020/3/11 下午 05:33		
	☐ NOTICE	檔案	3 KB	2020/3/11 下午 05:33		
	RELEASE-NOTES	檔案	7 KB	2020/3/11 下午 05:33		
	₹ tomcat.ico	固示	22 KB	2020/3/11 下午 05:33		
	Uninstall.exe	應用程式	80 KB	2020/3/11 下午 05:34		

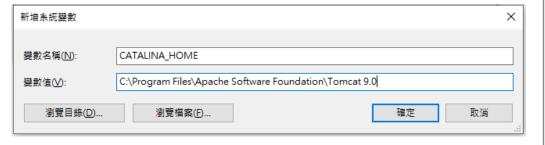
檢視 Tomcat Server 設定

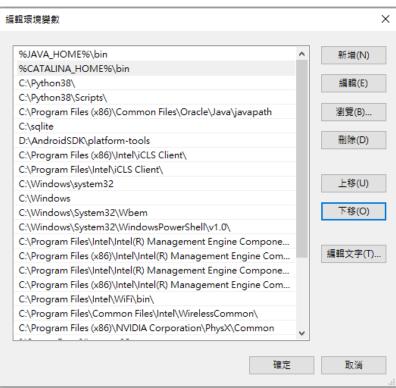
[Tomcat安裝路徑]\conf\server.xml



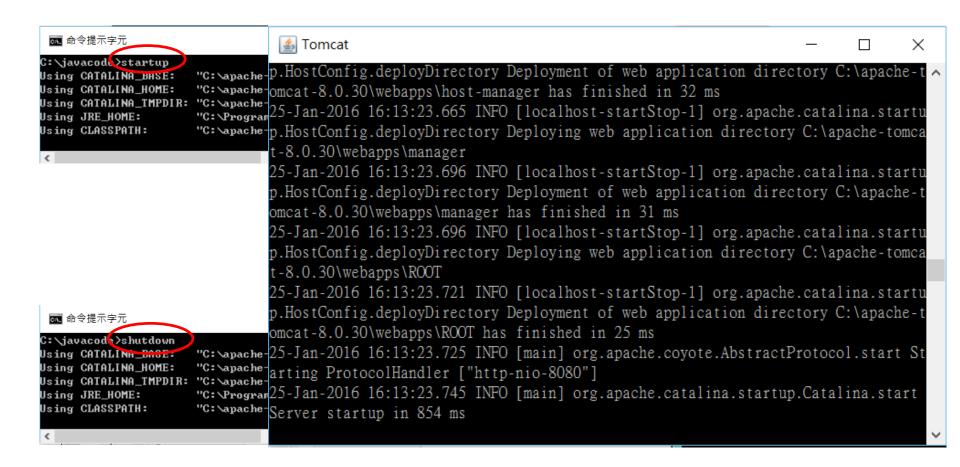
Tomcat 設定

- ■環境變數設定
 - □ 新增 CATALINA_HOME = [Tomcat 安裝路徑]
 CATALINA_HOME = C:\Program Files\Apache Software
 Foundation\Tomcat 9.0
 - □ 編輯 PATH
 PATH = %CATALINA_HOME%\bin

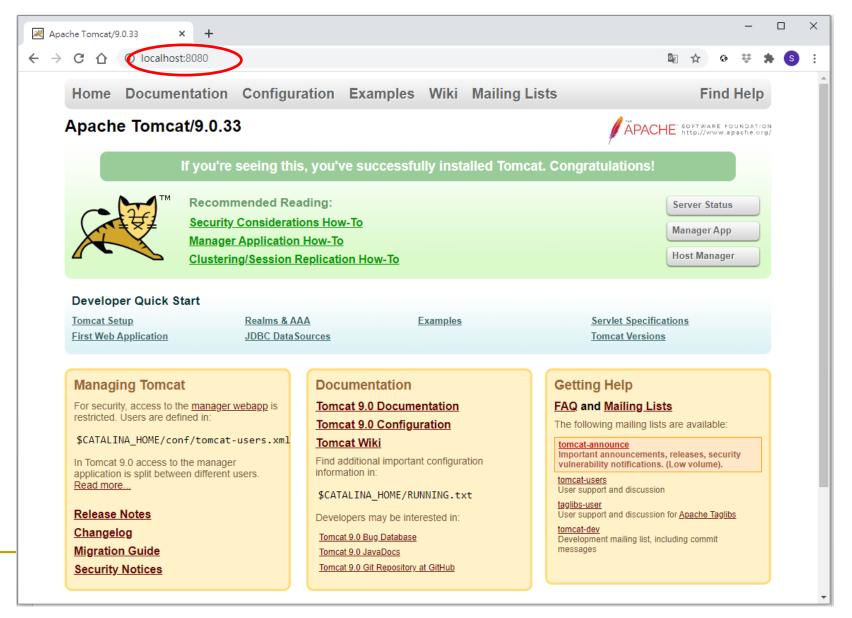




測試 - 啟動/關閉 Tomcat



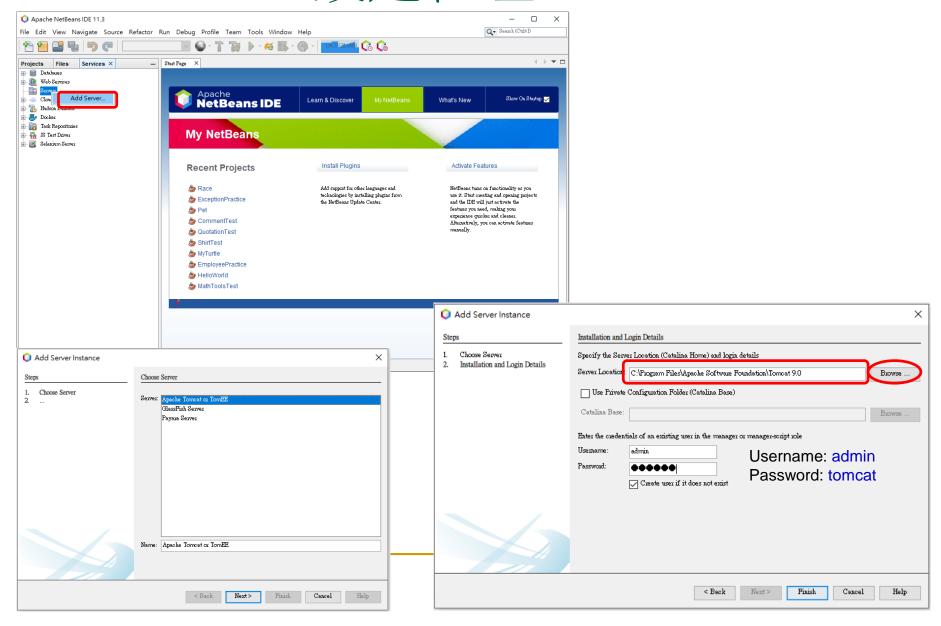
測試-啟動瀏覽器



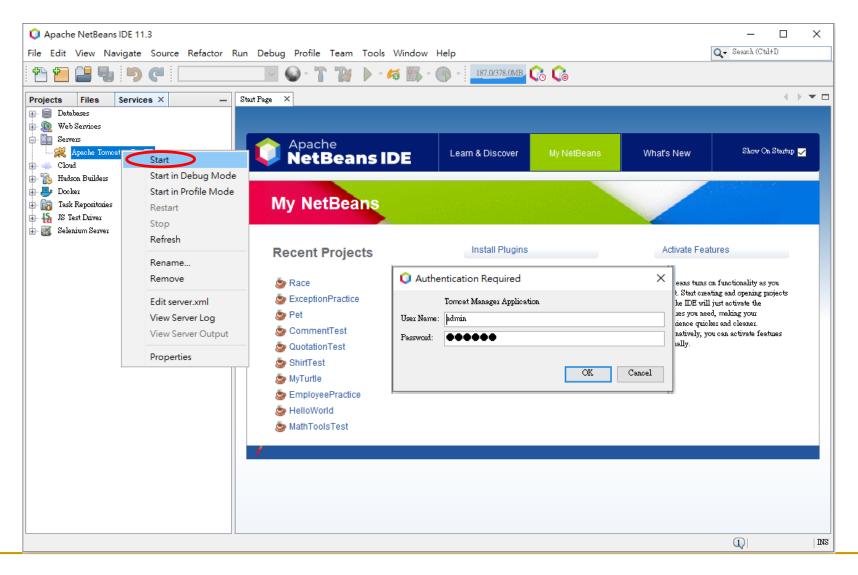
NetBeans 管理 Tomcat

- NetBeans 設定管理 Tomcat
 - □ Services Server 管理
 - 新增 Apache Tomcat or TomEE Server
 - □ 指定Tomcat安裝目錄
 - 管理者帳號密碼
- 測試
 - NetBeans 中啟動Tomcat
 - □ Tomcat 伺服器首頁
 - WebApp Manager (Optional)
 - Tomcat User設定管理者帳號,新增manager-gui權限

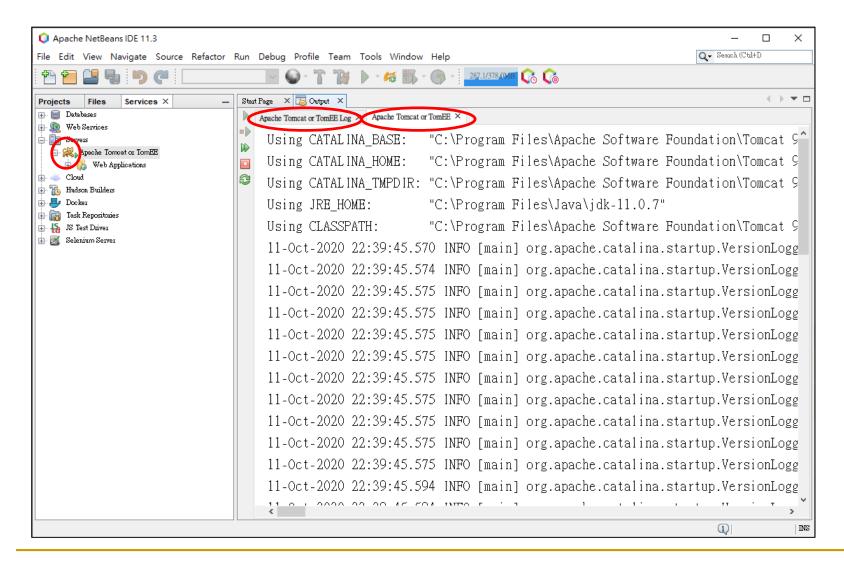
NetBeans 設定管理 Tomcat



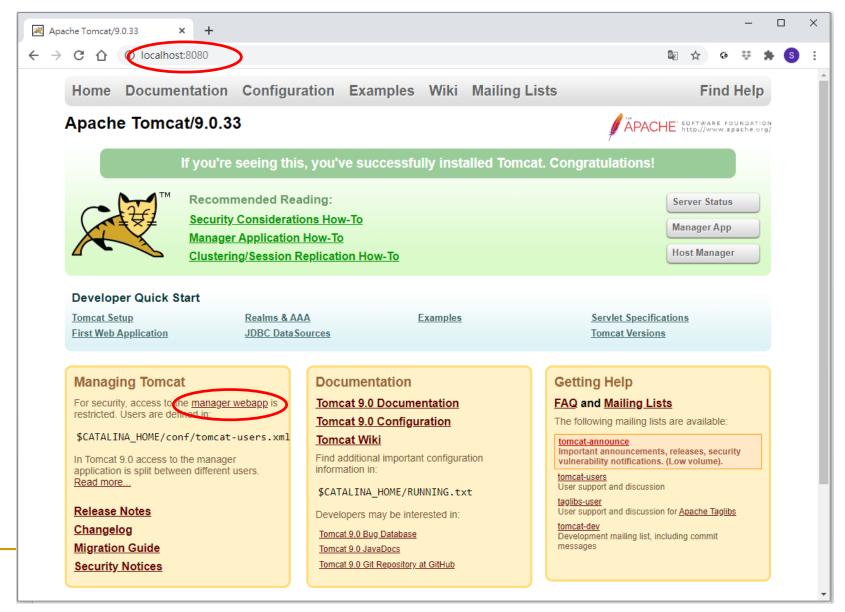
測試 - NetBeans 中啟動Tomcat



測試 - NetBeans中啟動Tomcat

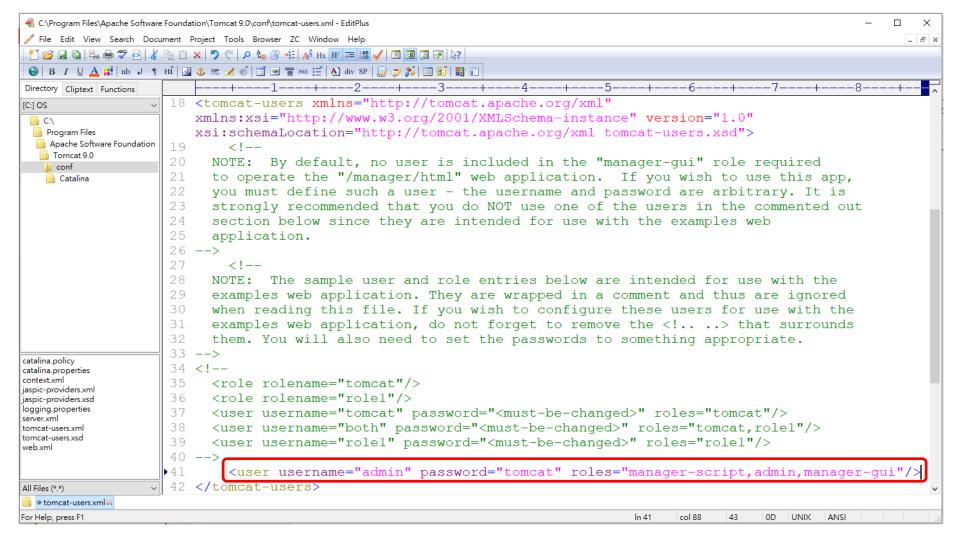


測試 – 連結Tomcat 首頁



檢視 Tomcat User設定

■ [Tomcat安裝路徑]\conf\tomcat-users.xml



測試-WebApp Manager

