

Lanterns Game System

Install & Setup Guide

安裝及配置指引

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1. 介紹
 - 1.1 前言
 - 1.2 系統組成
 - 1.3 安裝步驟

2. 系統需求 System Required
 - 2.1 PC 軟件系統需求
 - 2.2 PC 硬件系統需求
 - 2.3 DirectX 版本

3. 數據庫服務器配置 DB Server Configuration
 - 3.1 數據庫服務器配置

4. 終端配置 Client Configuration
 - 4.1 配置文件
 - 4.2 Config.xml 配置文件
 - 4.3 SlotGame.exe.config 配置文件

5. 常見問題
 - 5.1 雙顯示器配置問題
 - 5.2 鍵盤設定問題

6. 附件
 - 6.1 Microsoft SQL Server Express Version 安裝步驟

1. 介紹

1.1 前言

本系統是為澳門銀河開發的遊戲系統；我們假定在你閱讀本使用者指引以前,你已經了解 MSSQL, Dot Net Framework, DirectX 和 Windows 等軟體組件的功能及其使用方法；如你對以上任何一樣軟體組件尚有疑問，請先了相關的資訊。

1.2 系統組成

本系統由兩個個部份組成,分別為數據庫和遊戲程序

1.3 安裝步驟

a. 安裝 Dot Net Framework 4.0 Full Version

b. 安裝 MSSQL Server

c. 安裝 DirectX Component

d. 安裝遊戲程序

(遊戲程序是一個經過壓縮處理的檔案,只需將該檔案解壓縮到預先建立的目錄即可,例如: C:\Matrix\Apps)

e. 設定遊戲程序

(設定遊戲程序數據的數據庫位置,及登入數據庫的帳號及密碼)

2. 系統需求

2.1 PC 軟件系統需求

a. Windows XP or Higher

b. Microsoft Dot Net Framework 4.0

c. Windows Media Player 11

d. TCP/IP Network Protocol

e. DirectX with managed code invoke

f. Microsoft SQL Server 2008

2.2 PC 硬件系統需求

a. 2.0 GHz CPU

b. Display Adapter with 256 MB Ram and support shader 3.0

c. Dual Display Output

2.3 DirectX 版本

遊戲系統使用的 DirectX 組件,必需支援 Managed Code Invoke ,否則系統無法正常工作;也就說并非所有的 DirectX 版本都支援該功能，你可以從微軟公司下載支援

Managed Code Invoke 功能的 DirectX 組件；你必需正確安裝該組件系統才能工作，以下是一個該組件的下載連結

<http://www.microsoft.com/downloads/en/details.aspx?FamilyID=04ac064b-00d1-474e-b7b1-442d8712d553&displaylang=en>

(注意，微軟公司可能隨時更改組件的下載連結，本公司并不保證以上連結絕對有效)

3. 服務器配置 Server Configuration

3.1 數據庫設置

a. 設定數據庫驗證方式

Microsoft SQL Server 有兩種帳戶驗證方式,本系統必須使用 SQL Server 驗證方式否則無法正常工作。

b. 設定數據庫連接方式

Microsoft SQL Server 提供了多種數據連接方式,如 Share Memory Named Pipe, TCP/IP, VIA 等；本系統必須使用 TCP/IP 作為數據庫的連接方式。

c. 設定數據庫連接端口

Microsoft SQL Server 的預設 TCP/IP 端口為 1433,但是 Microsoft SQL Server Express Version, 并不會預設使用 1433 端口。

d. 還原或掛接數據庫

系統數據庫由系統開發供應商提供,它是一對文件分別為 "galaxy.mdf" 和 "galaxy.ldf"；系統數據庫名稱是 "galaxy"，新安裝系統或重裝系統必須重新掛接 (attach) 數據庫。

Microsoft SQL Server Express Version 并不會預設啟用 TCP/IP 連接方式，使用者必須手動調整該項設定

- i. 打開 SQL Server Configuration Manager
- ii. 選擇 SQL Server Network Configuration
- iii. 選擇 Protocol for SQL Express
- iv. 打開 TCP/IP 選項
- v. 於 Network Protocol 標籤下 Enable 位置選擇 YES
- vi. 於 IP Address 標籤下 IP ALL → TCP Port 填入 1433
- vii. 儲存并重新啟動 SQL Server

4. 遊戲系統配置 Game System Configuration

4.1 配置文件

程序有兩個用於配置的文件,分別為 “SlotGame.exe.config” 和 “config.xml”

i.	SlotGame.exe.config	主要用於數據庫連接,服務連接等,啟動程序所必須的參數配置,SlotGame 程序不會修改這個配置文件,也不提供配置的用戶界面所以這個配置文件必須手動修改.
ii.	config.xml	主要用於輸入設備等的設定, SlotGame 程序提供設定界面供使用者設定這些參數,而且 SlotGame 程序會回寫這個文件

4.2 SlotGame.exe.config

配置文件如下圖所示

```
<applicationSettings>
  <SlotGame.AppSettings>
    <setting name="server_host" serializeAs="String">
      <value>127.0.0.1,1433</value>
    </setting>
    <setting name="db_name" serializeAs="String">
      <value>galaxy</value>
    </setting>
    <setting name="db_user" serializeAs="String">
      <value>sa</value>
    </setting>
    <setting name="db_password" serializeAs="String">
      <value>566130</value>
    </setting>
    <setting name="result_output_diaplay" serializeAs="String">
      <value>1</value>
    </setting>
    <setting name="score_value" serializeAs="String">
      <value>1000</value>
    </setting>
    <setting name="max_lanterns" serializeAs="String">
      <value>30</value>
    </setting>
    <setting name="max_star" serializeAs="String">
      <value>3</value>
    </setting>
    <setting name="lightup_sound" serializeAs="String">
      <value>bell15.wav</value>
    </setting>
    <setting name="result_output_maximize" serializeAs="String">
      <value>True</value>
    </setting>
  </SlotGame.AppSettings>
</applicationSettings>
```

配置文件定義：

a1.	server_host	數據庫的連接位置，它的格式是 "IP,PORT" 如 "127.0.0.1,1433"
a2.	db_name	數據庫的名稱

a3.	db_user	數據庫的登入帳戶名
a4.	db_password	數據庫的登入密碼
a5.	result_output_display	用於設定遊戲界面輸出的顯示器，由 0 開始；0 代表主顯示器，1 代表第二顯示器，2 代表第三顯示器如此類推
a6.	result_output_maximize	用於設定遊戲界面是否需要最大化
a7.	score_value	用於設定參加者每按一次鍵,所取得的獎金
a8.	max_lanterns	最多同時可顯示的燈籠數量
a9.	max_stars	最多同時可顯示的星星數量
a10.	lightup_sound	燈籠點亮時的聲音效果檔案

4.3 顯示器設定

由於遊戲程序支援雙顯示輸出，所以必須正確的設置操作系統的顯示器才能支持這一功能；操作系統的第二顯示器必須設定為 "Extend" 延申模式,否則遊戲界面無移到第二個顯示器輸出。

5. 常見問題

5.1 雙顯示器配置問題

如果遊戲界面無法切換到第二個顯示器,那麼首先請確定第二顯示器設定到 "Extend" 延申模式并且正常顯示，如果第二顯示器能工作在延申模式及正常顯示，那麼遊戲程序也會自動把遊戲界面窗口切換到第二顯示器；如果第二顯示器沒有信號，那麼請檢查第二顯示器的分辨率是否設置正確。

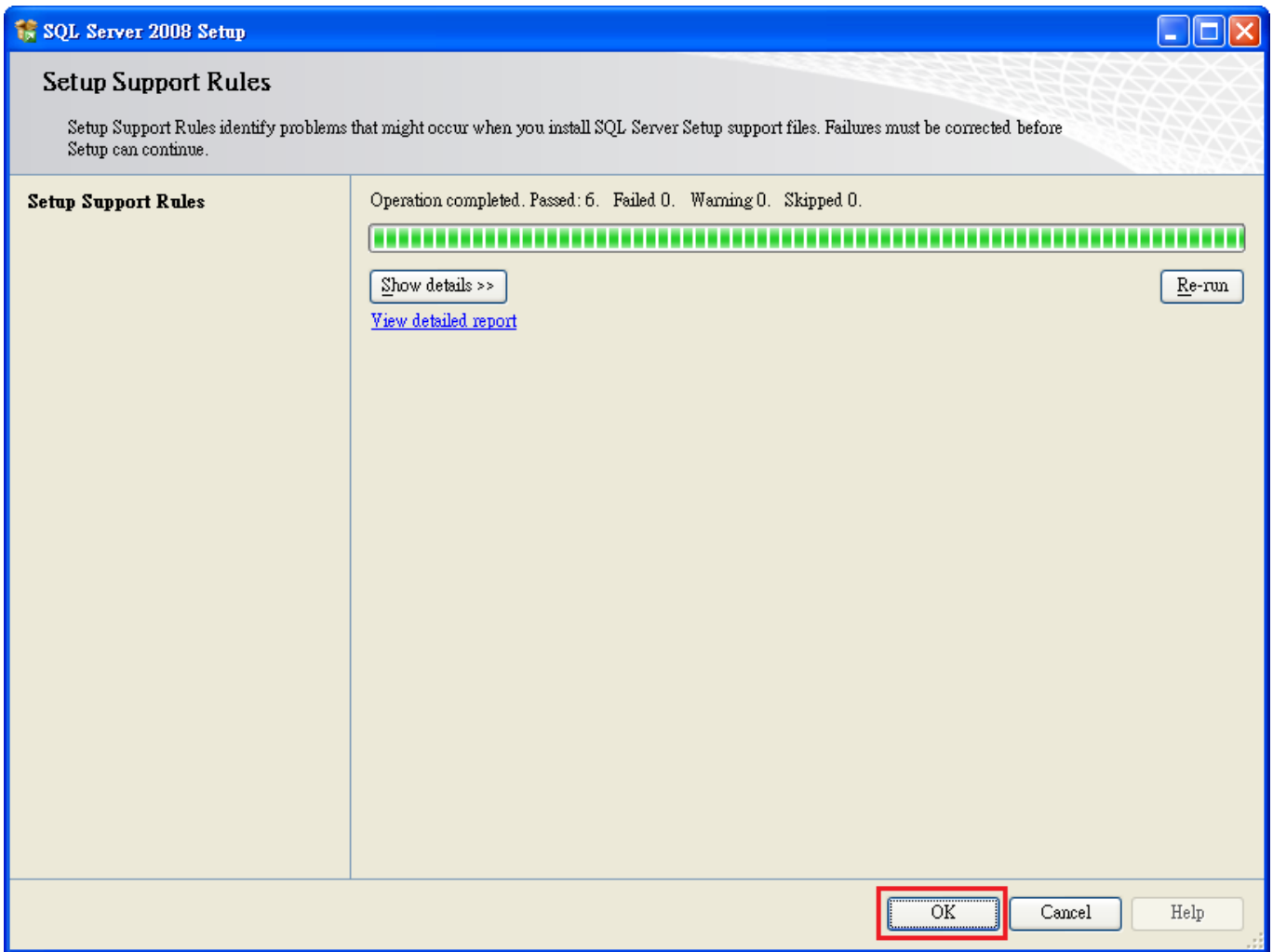
由於貴公司的 LCD Wall 分辨率只有 768x432，所以第二顯示器的分辨率應設置在 800x600 這樣可以提高系統運行效率，以避免高分辨率下的效能損失。

5.2 輸入設備設定問題

在每次拔插以後，或使用不同帳戶登入以後;系統分配的設備編號可能會改變；如遇輸入設備不能工作或工作不正常，請檢查輸入設備是否連接妥當，可以在程序中重選擇輸入設備并保存設置。

6.附件

6.1 Microsoft SQL Server Express Version 安裝步驟



SQL Server 2008 Setup

Product Key

Specify the edition of SQL Server 2008 to install.

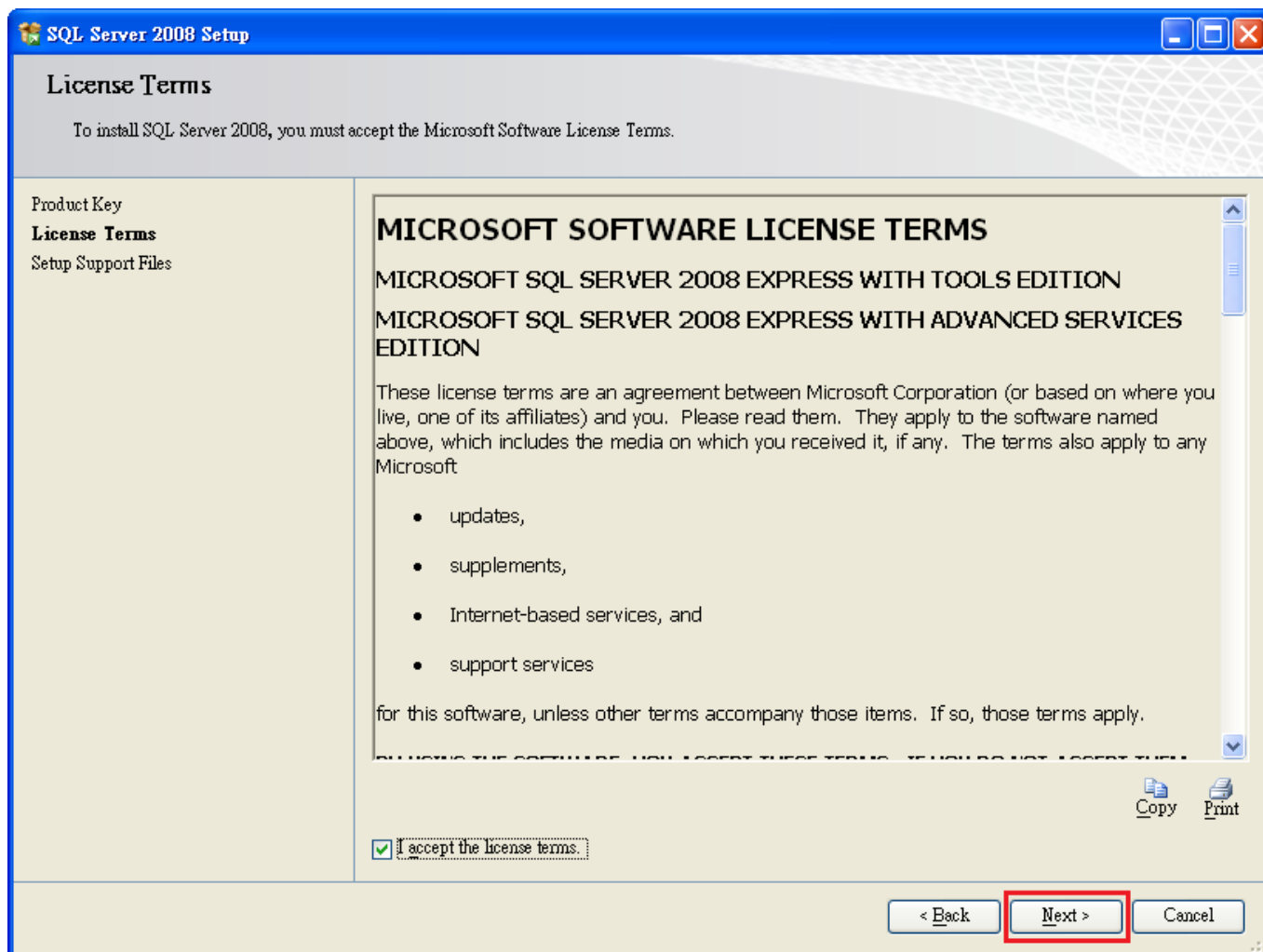
Product Key
License Terms
Setup Support Files

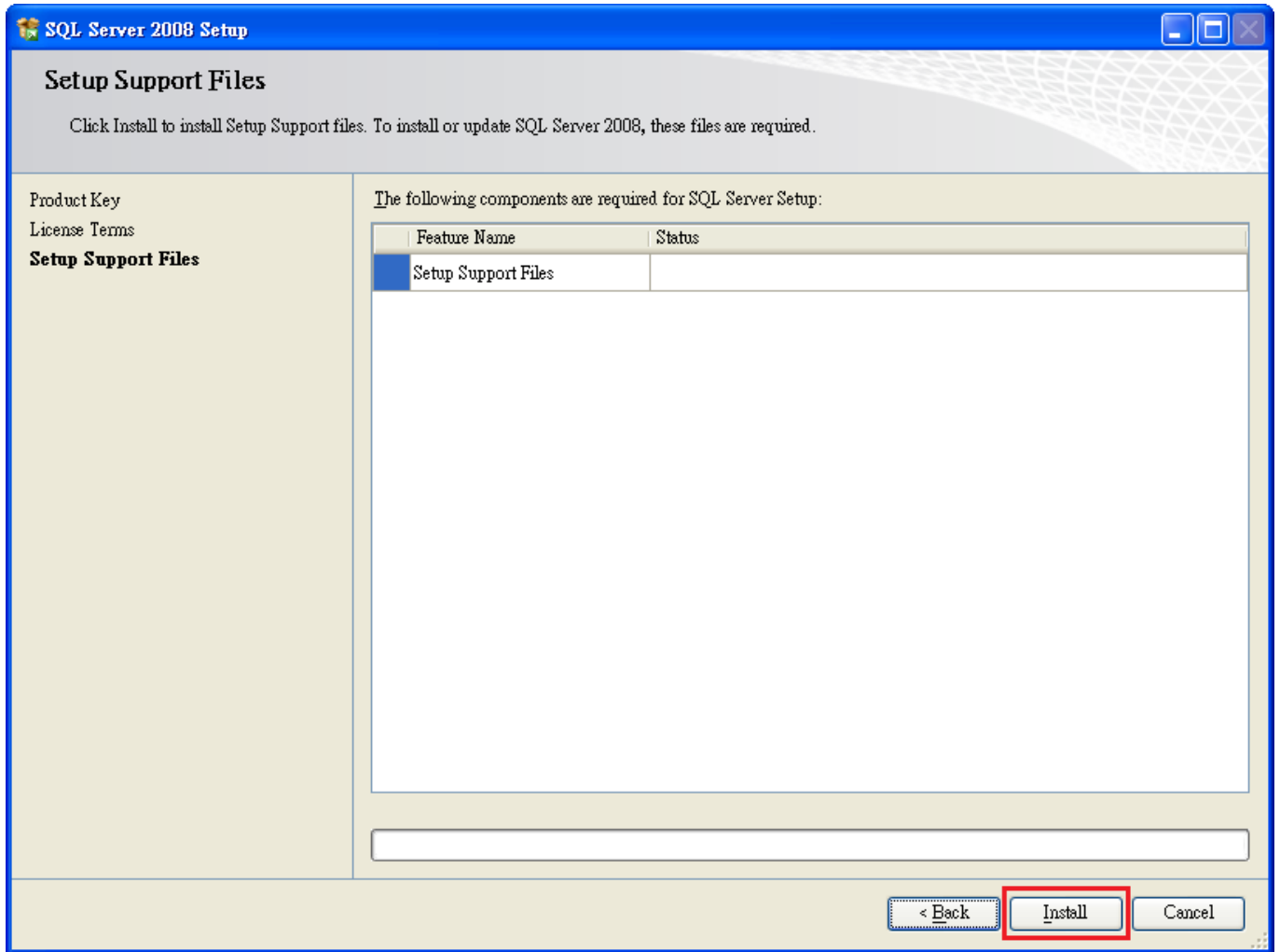
Specify a free edition of SQL Server or provide a SQL Server product key to validate this instance of SQL Server 2008. Enter the 25-character key from the Microsoft certificate of authenticity or product packaging. If you specify Enterprise Evaluation, the instance will be activated with a 180-day expiration. To upgrade from one edition to another edition, run the Edition Upgrade Wizard.

Specify a free edition:
Express with Advanced Services

Enter the product key:

< Back **Next >** Cancel





SQL Server 2008 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators and data directories.

Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete

Account Provisioning | Data Directories | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

Windows authentication mode

Mixed Mode (SQL Server authentication and Windows authentication)

Built-in SQL Server system administrator account

Enter password: *****

Confirm password: *****

Specify SQL Server administrators

Administrator (Administrator)

SQL Server administrators have unrestricted access to the Database Engine.

Add Current User | Add... | Remove

< Back | Next > | Cancel | Help

The screenshot shows the 'Error and Usage Reporting' step in the SQL Server 2008 Setup wizard. The window title is 'SQL Server 2008 Setup'. The main heading is 'Error and Usage Reporting' with the subtitle 'Help Microsoft improve SQL Server features and services.' On the left is a navigation pane with the following items: Setup Support Rules, Feature Selection, Instance Configuration, Disk Space Requirements, Server Configuration, Database Engine Configuration, **Error and Usage Reporting**, Installation Rules, Ready to Install, Installation Progress, and Complete. The main area contains the following text: 'Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings.' Below this are two hyperlinks: '[View the Microsoft policy for SQL Server privacy and data collection.](#)' and '[Read more about Microsoft Update and Automatic Update.](#)'. There are two unchecked checkboxes: the first is 'Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.' and the second is 'Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use Microsoft software and services.' At the bottom right are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'. The 'Next >' button is highlighted with a red rectangle.

SQL Server 2008 Setup

Installation Rules

Setup is running rules to determine if the installation process will be blocked. For more information, click Help.

Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete

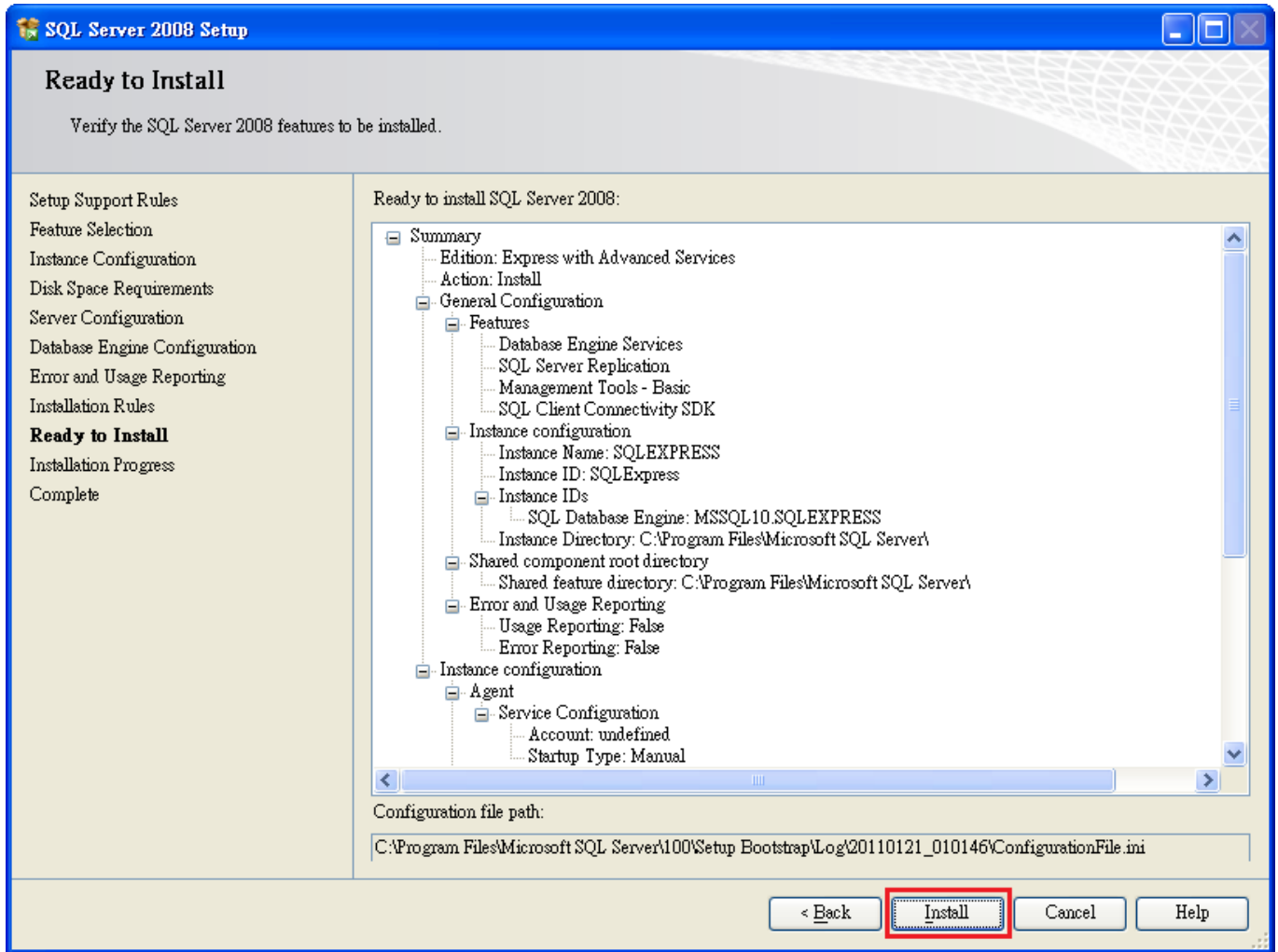
Operation completed. Passed: 8. Failed: 0. Warning: 1. Skipped: 2.

Hide details << Re-run

[View detailed report](#)

Rule	Status
Same architecture installation	Passed
Cross language installation	Passed
Existing clustered or cluster-prepared instance	Passed
Reporting Services Catalog Database File Existence	Not applicable
Reporting Services Catalog Temporary Database File Existence	Not applicable
SQL Server 2005 Express tools	Passed
Operating system supported for edition	Passed
FAT32 File System	Warning
SQL Server 2000 Analysis Services (64-bit) install action	Passed
Instance name	Passed
Previous releases of Microsoft Visual Studio 2008	Passed

< Back **Next >** Cancel Help




SQL Server 2008 Setup

Installation Progress

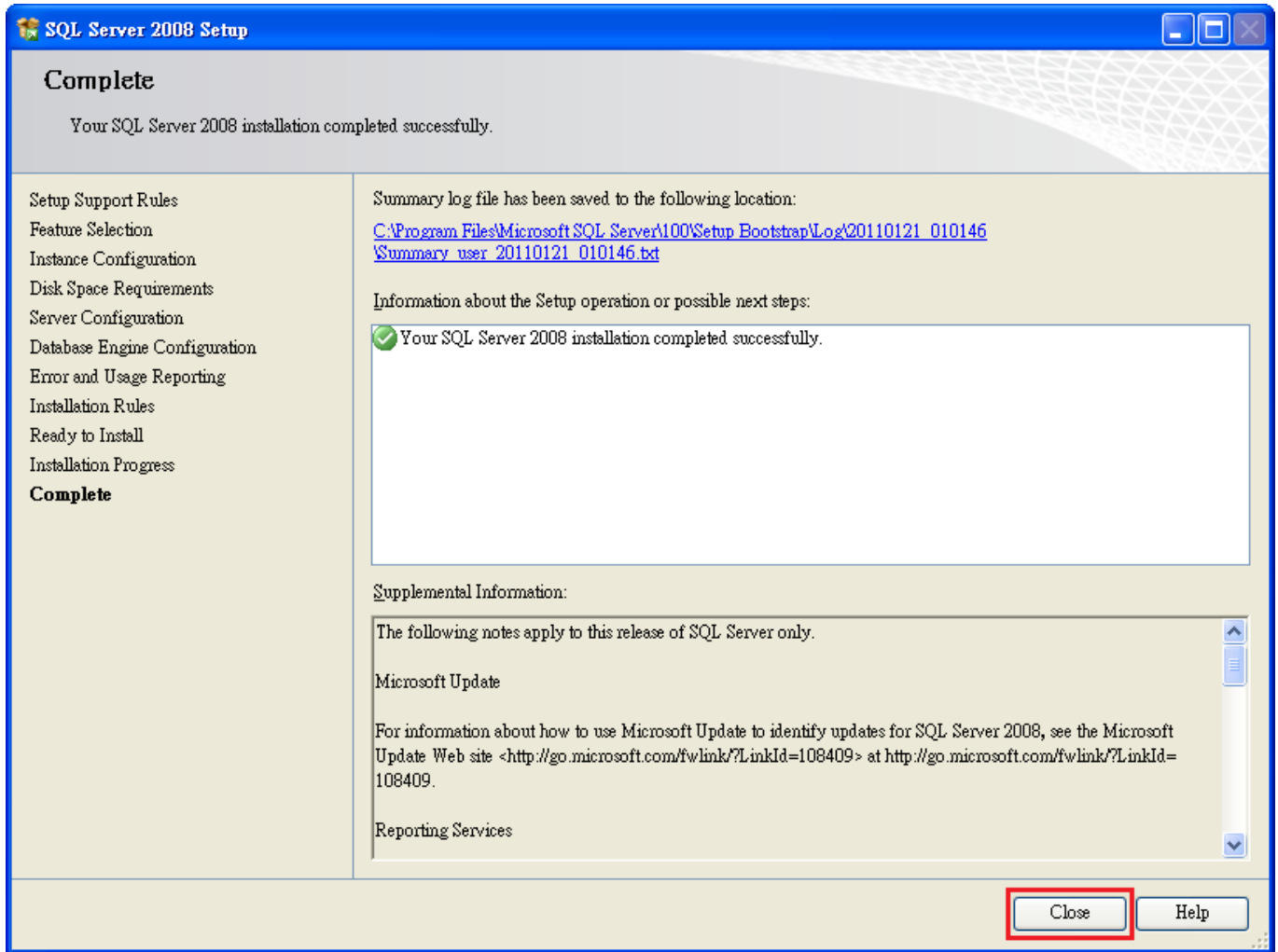
Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete

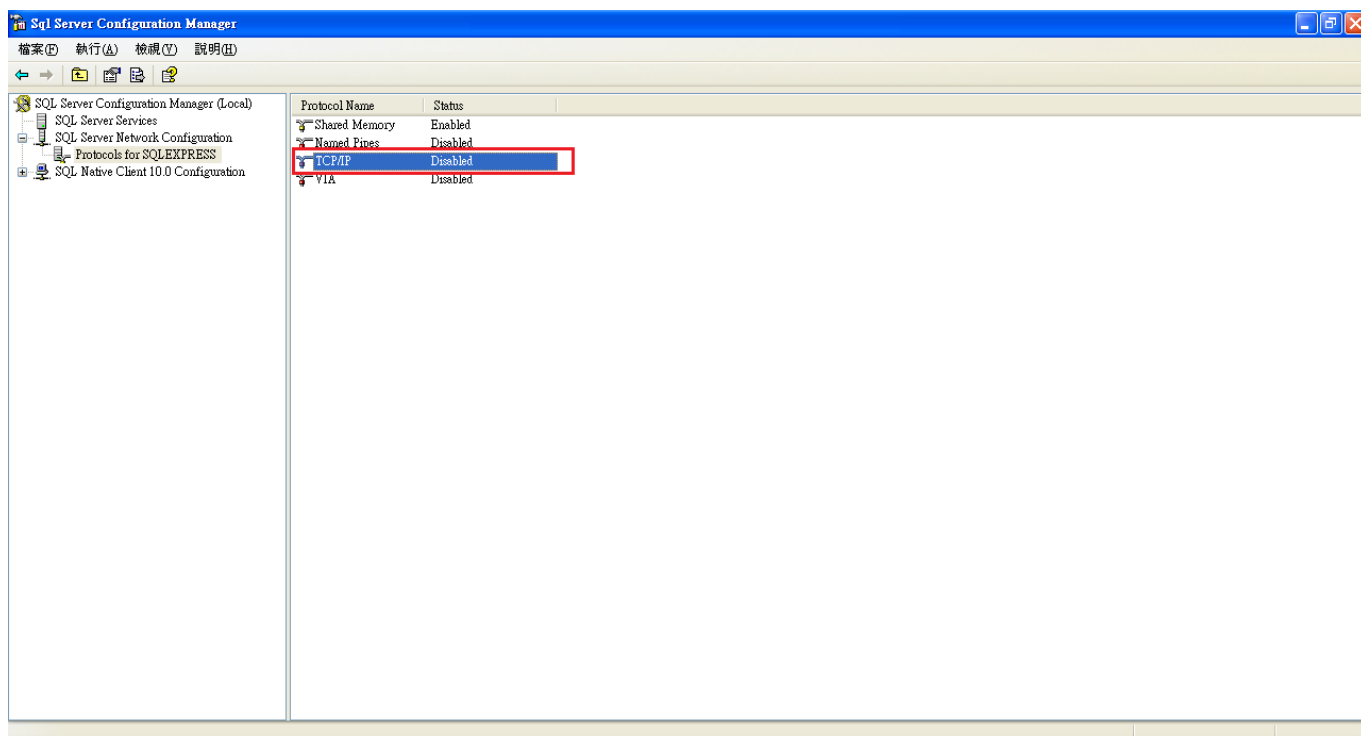
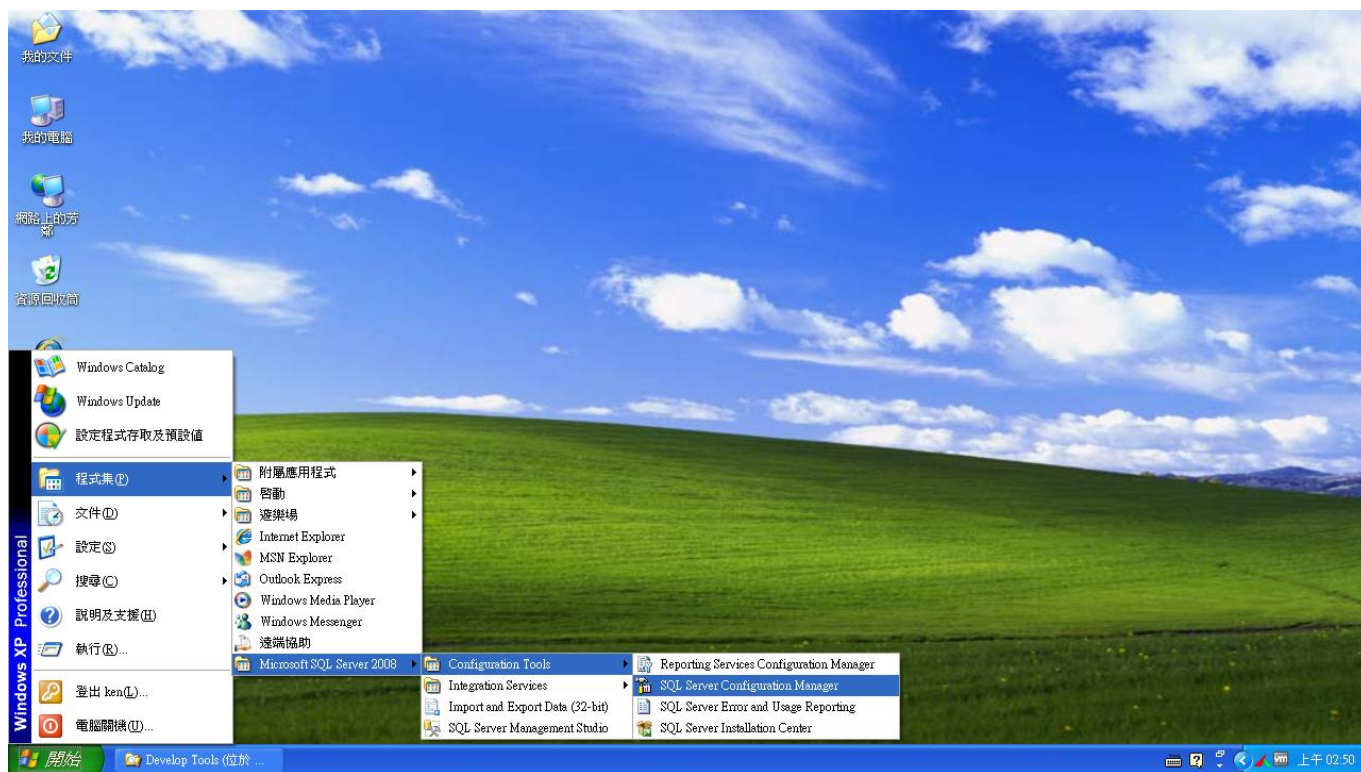
Setup process complete



Feature Name	Status
✓ Database Engine Services	Success
✓ SQL Server Replication	Success
✓ Management Tools - Basic	Success
✓ SQL Client Connectivity SDK	Success

Next > Cancel Help





The screenshot shows the SQL Server Configuration Manager interface. On the left, the tree view is expanded to 'SQL Server Network Configuration' > 'Protocols for SQLEXPRESS'. The right pane shows a list of protocols: Shared Memory (Enabled), Named Pipes (Disabled), TCP/IP (Disabled), and VIA (Disabled). A 'TCP/IP 內容' dialog box is open, showing the 'General' tab. The 'Enabled' checkbox is checked, and the 'Listen All' dropdown is set to 'No'. The 'Keep Alive' value is 30000 and 'Listen All' is Yes. At the bottom of the dialog, it says 'Enabled Enable or disable TCP/IP protocol for this server instance'.

Protocol Name	Status
Shared Memory	Enabled
Named Pipes	Disabled
TCP/IP	Disabled
VIA	Disabled

Property	Value
Enabled	No
Keep Alive	30000
Listen All	Yes

The screenshot shows the same SQL Server Configuration Manager interface. The 'TCP/IP 內容' dialog box is open, showing the 'IP Addresses' tab. It lists three IP addresses: IP1, IP2, and IPAll. The 'TCP Port' for IPAll is highlighted with a red box and set to 1433. The 'TCP Port' section at the bottom of the dialog is also visible.

IP Address	Active	Enabled	TCP Dynamic Ports	TCP Port
IP1	Yes	No	0	
IP2	Yes	No	0	
IPAll			0	1433

The screenshot displays the SQL Server Configuration Manager interface. The left-hand tree view shows the following structure:

- SQL Server Configuration Manager (Local)
 - SQL Server Services
 - SQL Server Network Configuration
 - Protocols for SQLEXPRESS
 - SQL Native Client 10.0 Configuration

The main pane shows a table of services with the following columns: Restart service, State, Start Mode, Log On As, Process ID, and Service Type.

Restart service	State	Start Mode	Log On As	Process ID	Service Type
SQL Server Browser	Stopped	Other (Boot System, ...	NT AUTHORITY\LO...	0	SQL Browser
SQL Server (SQLE...	Running	Automatic	LocalSystem	2660	SQL Server
SQL Server Agent (...	Stopped	Other (Boot System, ...	NT AUTHORITY\WE...	0	SQL Agent

The Windows taskbar at the bottom shows the Start button, a taskbar with 'Develop Tools (位於 ...' and 'Sql Server Configurati...', and a system tray with the time '上午 02:51'.