1. Installation and Configuration of Database Server

1.1 Downloading MS SQL 2008 Express

MSSQL 2008 Express is free to download from the following website: <u>http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=22973</u> Running on 64 bit: SQLEXPRWT_x64_ENU.exe Running on 32 bit: SQLEXPRWT_x86_ENU.exe

1.2 Database Setup

- 1.2.1 Run and install all downloaded files
- 1.2.2 On Windows 7 system, open Microsoft SQL 2008 installation file. The OS may detect compatibility issue and ask to install SP1. Please ignore this part for now. Go ahead and continue on SQL Server2008 installation.
- 1.2.3 Click on INSTALLATION → New SQL Server stand-alone installation or add features to an existing installation

Planning	real New SQL Server stand-alone installation or add features to an existing installation
Installation	Launch a wizard to install SQL Server 2008 in a non-clustered environment or to add
Maintenance	features to an existing SQL Server 2008 instance.
Tools	Rew SQL Server failover cluster installation
	Launch a wizard to install a single-node SQL Server 2008 failover cluster.
Resources	Add and a set of COL Concern following during:
Advanced	Add hode to a sQL server railover cluster
Options	 Launch a wizard to add a node to an existing SQL Server 2006 failover cluster.
	Upgrade from SQL Server 2000 or SQL Server 2005
	Launch a wizard to upgrade SQL Server 2000 or SQL Server 2005 to SQL Server 2008. Before you upgrade, you should run the Upgrade Advisor to detect potential problems.
	Search for product updates
	Search Microsoft Update for SQL Server 2008 product updates.

1.2.4 During installation, Setup Support Rules identify problems that might occur when you install SQL Server Setup support files, Failures must be corrected before Setup can continue.

Setup Support Rules Setup Support Rules identify pro must be corrected before Setup	oblems that might occur when you install SQL Server Setup support files. Failures o can continue.
Setup Support Rules	Operation completed. Passed: 6. Failed 0. Warning 0. Skipped 0.
	Show details >> Re-run View detailed report
	OK Cancel Help

1.2.5 Product Key: Specify the edition of SQL Server 2008 to install. In this example, free edition is used for this example. Click NEXT.

Specify the edition of SQ	L 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. (a) Specify a free edition: Express with Advanced Services (b) Enter the product key: (c) Enter the product ke
	< Back Next > Cancel

1.2.6 License Terms: Review and accept License Terms. Click NEXT.

License Terms To install SQL Server 2008, you n	nust accept the Microsoft Software License Terms.
Product Key License Terms Setup Support Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2008 EXPRESS WITH TOOLS EDITION MICROSOFT SQL SERVER 2008 EXPRESS WITH ADVANCED SERVICES EDITION These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft • updates, • updates, • supplements, • Internet-based services, and • support services for this software, unless other terms accompany those items. If so, those terms apply Image: Print Image: Print
	< Back Next > Cancel

1.2.7 Click INSTALL to install Setup Support files. To install or update SQL Server 2008, these files are required.

Setup Support Files Click Install to install Setup Supp	port files. To install or update S(QL Server 2008, these files are required.
Product Key	The following components a	re required for SQL Server Setup:
License Terms	Feature Name	Status
Setup Support Files	Setup Support Files	
		< Back Install Cancel

1.2.8 Setup Support Rules: Setup Support Rules identify problems that might occur when you install SQL Server Setup support files. Failures must be corrected before Setup can continue.

Setup Support Rules Setup Support Rules identify pro must be corrected before Setup	lems that might occur when you install SQL Server Setup support f an continue.	iles. Failures
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration	Operation completed. Passed: 9. Failed 0. Warning 2. Skipped Hide details << <u>View detailed report</u>	0. Re-run
Error and Usage Reporting	Rule	Status
Installation Rules	Susion Active Template Library (ATL)	Passed
Ready to Install	Unsupported SQL Server products	Passed
Installation Progress	Performance counter registry hive consistency	Passed
Complete	Previous releases of SQL Server 2008 Business Intelligence	Passed
	Previous CTP installation	Passed
	Consistency validation for SQL Server registry keys	Passed
	Computer domain controller	Passed
	Microsoft .NET Application Security	Warning
	Edition WOW64 platform	Passed
	Windows PowerShell	Passed
	Nindows Firewall	Warning
	< Back Next >	Cancel Help

1.2.9 Feature Selection: Select the Express with Advanced Services features to install. For clustered installations, only Database Engine Services and Analysis Services can be clustered. Check Database Engine Services and Management Tools-Basic. Click NEXT.

Feature Selection Select the Express with Advanc Services and Analysis Services	ed Services features to install. For c can be clustered.	lustered installations, only Da	atabase Engine
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	Features: Instance Features Solution Solution Solution Solution Solution Shared Features Management Tools - Ba Solution Connectivity Redistributable Features	sic SDK	Description: Include the Database Engine, the core service for storing, processing and securing data. The Database Engine provides controlled access and rapid transaction processing and also provides rich support for sustaining high availability.
	Select All Unselect All Shared feature directory: Shared feature directory (x86):	C:\Program Files\Microsoft C:\Program Files (x86)\Micro < Back Next	SQL Server\ osoft SQL Server\ > Cancel Help

1.2.10 Instance Configuration: Specify the name and instance ID for the SQL Server instance. In this example, "SQLExpress".

Instance Configuration Specify the name and instance	ID for the SQL Server ir	nstance.			
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	 Default instance Named instance 	: SQLExpre	ess		
	Instance ID: Instance root direc SQL Server directo Installed instances:	SQLExpre tory: C:\Progra	ess am Files\Microsoft S am Files\Microsoft S	QL Server\ SQL Server\MSSQL1	
	Instance	Features	Edition	Version	Instance ID
	,		< Back	Next > Ca	ncel Help

1.2.11 Disk Space Requirements: Review the disk space summary for the SQL Server features you selected. Disk space can be allocated accordingly.

etup Support Rules	Disk Usage Summary:
eature Selection nstance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error and Usage Reporting installation Rules Ready to Install installation Progress Complete	 Drive C: 1294 MB required, 84728 MB available System Drive (C:\): 696 MB required Shared Install Directory (C:\Program Files\Microsoft SQL Server\): 395 MB required Instance Directory (C:\Program Files\Microsoft SQL Server\): 203 MB required

1.2.12 Server Configuration: Specify the configuration. Name all Service Accounts.

ietup Support Rules ieature Selection nstance Configuration	Service Accounts Collation Microsoft recommends that yo	u use a separate account fo	or each SQL Se	rver service.
Disk Space Requirements	Service	Account Name	Password	Startup Type
erver Configuration	SQL Server Database Engine	NT AUTHORITY\NET		Automatic 👻
Ready to Install				
Ready to Install nstallation Progress Complete	These services will be configure account. On some older Wind account. For more information	ed automatically where pos ows versions the user will ne , click Help. Account Name	sible to use a l eed to specify Password	ow privilege a low privilege Startup Type
Ready to Install nstallation Progress Complete	These services will be configure account. On some older Windo account. For more information Service SQL Server Browser	ed automatically where pos ows versions the user will ne , click Help. Account Name NT AUTHORITY\LOC	sible to use a l eed to specify Password	ow privilege a low privilege Startup Type Disabled v

1.2.13 Database Engine Configuration: Specify Database Engine authentication security mode, administrators and data directories. Select Mixed mode. Default account name is sa. Create and confirm password. Create and add a SQL Server administrator. In this example, fuho-PC\fuho (fuho).

Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error and Usage Reporting Installation Rules Ready to Install	Account Provisioning Data Directories FILESTREAM Specify the authentication mode and administrators for the Data Authentication Mode Image: Specify Windows authentication mode Image: Specify Mixed Mode (SQL Server authentication and Windows authentication Image: Specify Herein Provision Image: Specify Herein Provision	atabase Engine. entication)
Complete	Specify SQL Server administrators fuho-PC\fuho (fuho) Add Current User Add Remove	SQL Server administrators have unrestricted access to the Database Engine.

1.2.14 Error and usage Reporting: Help Microsoft improves SQL Server features and services. Click NEXT.

Error and Usage Report	rver features and services.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration	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 though Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings.
Database Engine Configuration Error and Usage Reporting	View the Microsoft policy for SQL Server privacy and data collection.
Installation Rules Ready to Install	Read more about Microsoft Update and Automatic Update.
Installation Progress Complete	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.
	Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use Microsoft software and services.
	< Back Next > Cancel Help

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

Installation Rules	
Setup is running rules to determ	nine 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: 9. Failed 0. Warning 0. Skipped 2. Show details >> View detailed report
	< Back Next > Cancel Help

1.2.16 Ready to Install: Verify the Server 2008 features to be installed. Click INSTALL.



1.2.17 Installation progress will take approximately 10-30 minutes to complete. When finish, SQL Server will list out status of all features.

Installation Progress		
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration	Setup process complete	
Database Engine Configuration	Feature Name	Status
Error and Usage Reporting	Oatabase Engine Services	Success
Installation Rules	Management Tools - Basic	Success
Ready to Install		
Installation Progress		
Complete		
		Next > Cancel Help

1.3 Database Setup

1.3.1 Open SQL TCP/IP \rightarrow Microsoft SQL Server 2008 \rightarrow Configuration Tools->SQL Server Configuration Manager.



1.3.2 SQL Server Network Configuration \rightarrow Protocols for SQLEXPRESS \rightarrow Enable TCP/IP Protocol \rightarrow Close SQL Server SQLEXPRESS.

🚡 Sql Server Configuration Manager			
檔案(F) 執行(A) 檢視(V) 說明(H)			
🗢 🄿 🖄 🗐 🗟 🛛 👔			
🛞 SQL Server Configuration Manager (Local	Protocol Name	Status	
SQL Server Services	🖀 Shared Memory	Enabled	
SQL Server Network Configuration (32)	🍞 Named Pipes	Disabled	
SOL Server Network Configuration	TCP/IP	Enabled	
Protocols for SQLEXPRESS	WIA	Disabled	
SQL Native Client 10.0 Configuration			

1.3.3 Go to Microsoft SQL Server 2008 ->SQL Server Management Studio.



1.3.4 Start Microsoft SQL Server 2008 \rightarrow Server name: .\SQLEXPRESS (in this example) \rightarrow Authentication: SQL server Authentication \rightarrow Login: sa \rightarrow Password \rightarrow Connect.

🛃 Connect to Server	×
SQL S	erver [*] 2008
Server type:	Database Engine 👻
Server name:	.VSQLEXPRESS -
Authentication:	SQL Server Authentication 🔹
Login:	S8. 🗸
Password:	*******
	Remember password
Connect	Cancel Help Options >>

1.3.5 Right click on Databases, and select New Database.

File Edit View	Tools Window Community Help	
일 New Query 📄) 🕞 📂 🖃 🔿 🚟 🖕	
Object Explorer	- ₽ ×	
Connect -	= 🝸 🛃	
□ ISQLEXPRES Databases	S (SQL Server 10.0.1600 - sa)	
🕀 🚞 Security	New Database	
⊕ 🧰 Server Ob ⊕ 🚞 Replicatic ⊕ 🛅 Manager	Attach Restore Database Restore Files and Filegroups Start PowerShell Reports	
	Refresh	

1.3.6 Type in 3GPlatform on Database name.

🗧 New Database					
Selecta page	🔄 Script 👻 🛐	Help			
General 🖉 Options					
Filegroups	Database name:		3GPlatform	1	
	Owner:		<default></default>		
	✓ Use full-text in	dexing			
	Database files:				
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth
	3GPlatform	Rows D	PRIMARY	3	By 1 MB, unrestricted growth
	3GPlatform_l	Log	Not Applicable	1	By 10 percent, unrestricted grow
0					
Connection					
Server: .\SQLEXPRESS					
Connections					
sa.					
View connection properties					
Pro emer					
riogiess					
Ready	•				•
				Add	Remove
					OK Cancel

1.3.7 Create data structure now, Go to File \rightarrow Open \rightarrow File.



1.3.8 Select the file 3GPlatform.sql \rightarrow Open.

Open File						? ×
Look in:	👝 抽取式磁碟	(G:)	• 3	•🗖 🔍 🗙	· 📑 🏢 🔹	Tools 🕶
Desktop My Projects My Computer	名稱 ③ 3GPlatform ■ SQLEXPRW	修改日期 T_x64_ENU	類型	大小		
	File name:				-	Open 🔹
	Files of type:	All Files			•	Cancel

1.3.9 Click on !Execute to proceed \rightarrow Look for Query executed successfully on the bottom of the screen \rightarrow Close SQL Server management Studio.



2. Web Server Installation and Configuration.

2.1. Install Internet Information Services (IIS)

2.1.1. Go to Control Panel \rightarrow Programs \rightarrow Turn Window features on or off



In the Windows Features dialog, expand "Internet Information Services", "World Wide Web Services", "Application Development Features" and then enable the "ASP.NET" checkbox;

Turn Windows features on or off	e
To turn a feature on, select its check box. To turn a feat check box. A filled box means that only part of the feat	ure off, clear its ure is turned on.
Indexing Service	
Internet Information Services	
🕀 🔳 📗 FTP Publishing Service	-
🕀 🔳 🎍 Web Management Tools	-
🖃 🔳 📕 World Wide Web Services	
Application Development Features	
.NET Extensibility	
ASP ASP	
ASP.NET	
CGI	
ISAPI Extensions	
ISAPI Filters	-

- 2.1.2. Then update .NET Framework 4.0 from the link below: <u>http://www.microsoft.com/download/en/details.aspx?id=17718</u> Select languages needed and download.
- 2.1.3. After install .NET Framework 4.0, go to Control Panel -> All Control Panel Items -> double click Internet Information Service (IIS) manager.



2.1.4. In IIS dialog, right click on Default Web Site → Expend the Site, right click on Default Web Site → Manager Web Site → Advanced Settings.

<u>File View H</u> elp										
Connections	EPC-WIN7/S Pools Veh Site Explor Edit P/ edit Bi Edit Bi Edi	e ermissions irtual Directory indings ge Web Site h ve	It We	b Site Hor Connection Story Story Browse	me	Group by: An NET Profile Pages and Controls	ea .NET Roles Providers	• 🗊 • NET Trust Levels Session State		tions Explore Edit Permissions Edit Site Bindings Basic Settings View Applications View Virtual Directories mage Web Site Restart Start Stop Browse Web Site Browse "x80 (http)
∢ Ready	Switch	Authentic	CGI	Advanced Sett	tings Default Document	Directory Browsing	404 Error Pages	Handler Mappings	•	Configure Limits Help Online Help

2.1.5. Change DefaultAppPool to ASP.NET v.4.0 \rightarrow Confirm.

Internet Information Services (IIS) M	Sites Def	Advanced Settings	-	? X		×
File View Help Connections Connection Connec	Contraction of the second seco	 ☐ (General) Application Pool Bindings ID Name Physical Path Physical Path Credentials Physical Path Credentials Logon T Start Automatically Behavior Connection Limits Enabled Protocols Failed Request Tracing 	DefaultApp http:*:80;ne 1 Default Web %SystemDr ClearText True http	Pool ttcp:808:*,net.pipes*,net.ms Site rive%\inetpub\wwwroot Select Application Pool Application pool: DefaultAppPool Classic.NET AppPool ASP.NET v4.0 - Net Framework Version: 2.0 Pipeline mode: Integrated OK	Actions Explore Edit Perm Edit Site Cancel	hissions
	ASP	Application Pool [applicationPool] Configures this ap application pool.	plication to r	un in the specified	Failed Re Limits Online H	equest Tracing
Ready						• •

2.1.6. Unzip wwwroot.zip

2.1.7. Copy and paste all files to C:\inetpub\wwwroot\"

A	Name	Date m	odified Type	Size			
Desktop	App_Code	20	Share with	÷			
🔢 Recent Places	App_GlobalResources	20	加到壓縮檔(A) 加到 "www.root.rar"(T) 原编並發郵件				
Libraries Documents	퉬 css 🌛 DynamicData	20	20 ■ E 編成 "www.root.rar" 並發郵件 20 ● 使用 ESET NOD32 Antivirus 掃描				
J Music	🎍 images 🍺 Scripts	20 20	使用 ESET NOD32 Antivirus 掃描 進階選項	÷			
Videos Videos	adddevice adddevice.aspx	20 20	Send to	•	4 KB 6 KB		
Computer	Default Default.aspx	20	Сору		1 KB 1 KB		
👝 Local Disk (D:) 🚗 ROCK ADATA (E:)	device device.aspx	20 20	Create shortcut Delete		13 KB 3 KB		
Network	driver driver.aspx	20 20	Rename Properties		10 KB 3 KB		
	earthlive earthlive.aspx	2011/4,	/7 下午 02:34 CS File		2 KB 2 KB		

organize 🔻 🛛 🔚 Open	New folder					1 (?
Favorites	Name	Date modified	Туре	Size		
📃 Desktop	\mu App_Code	2011/8/10 上午 11:	File folder			
🚺 Downloads	🎉 App_Data	2011/5/13 下午 02:	File folder			
🔛 Recent Places	App_GlobalResources	2011/8/10 上午 11:	File folder			
	aspnet_client	2011/8/9 下午 06:25	File folder			
Libraries Documents Music Pictures Videos Computer Local Disk (C:)	🕌 Bin	2011/8/10 上午 11:	File folder			
Documents	🔰 css	2011/8/10 上午 11:	File folder			
J Music	🌗 DynamicData	2011/8/10 上午 11:	File folder			
E Pictures	🎉 images	2011/8/10 上午 11:	File folder			
Videos	🎍 Scripts	2011/8/10 上午 11:	File folder			
	addevice	2011/7/6 下午 03:24	Web Form	4 KB		
Computer	addevice.aspx	2011/7/6 下午 03:24	CS File	6 KB		
🚢 Local Disk (C:)	Default	2011/7/6 下午 03:24	Web Form	1 KB		
👝 Local Disk (D:)	Default.aspx	2011/7/6 下午 03:24	CS File	1 KB		
ROCK ADATA (E:)	device	2011/4/29 上午 11:	Web Form	13 KB		
	📋 device.aspx	2011/4/8 下午 01:05	CS File	3 KB		
Network	driver	2011/4/8 上午 11:54	Web Form	10 KB		
	driver.aspx	2011/4/8 上午 11:54	CS File	3 KB		
	arthlive earthlive	2011/4/7 下午 02:34	Web Form	2 KB		
	earthlive.aspx	2011/4/7 下午 02:34	CS File	2 KB		

- 2.1.8. Use Notepad to open C:\inetpub\wwwroot\web.config. There are two things that need to change.
- 2.1.8.1. Search for all "Data Source="related. Replace the words after the equal sign with the server name of SQL Server Management and database. For example, Data Source=.\SQLEXPRESS
- 2.1.8.2. Search for all "Password=", and replace the words and numbers after the equal sign with the set password.

2.1.9. Open the web browser, enter the IP of this PC (Server), it will shows the login page when install succeed. The default login name and password are root / root, you may revise them after login.

3G Man	agement	Platform	
Vehicle	User	Driver	1 APANE
gin Login User Name: [Password: [
	3G Mana Vehicle gin	3G Management Vehicle User gin Login User Name:	3G Management Platform Vehicle User gin T Login User Name: Password:

3. 3G Server Installation Setup

3.1. 3G Server Setup

- 3.1.1. Unzip 3GServer_x.x.x_xxxxxx.zip
- 3.1.2. Open config.ini with Notepad. Search for all "CenterServer_Address=" related. Change all to ip address or domain name.
- 3.1.3. Open 3GCenterServer.exe, shown below.

36 3GCenter Server Dialog									
ac 36Center DataBase Address: Name:	Server Dialog Start .1 3GPlatform	Save As	Clear Log	3GLicense Authorize UserName: DEMO Password: ****	Customize Relay Server	Add			

- 3.1.4. DataBase Address: Enter the server name in 1.3.6 (e.g. 3GPlatform), then enter login account and password, press Start button to run the server.
- 3.1.5. Open 3GTransServer.exe.