

Installation Manual

RG-SAM+ENTERPRISE_4.00_Build20150829

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Preface

Thank you for using our products. This manual matches RG-SAM+ ENTERPRISE_4.00_Build20150829.

Audience

This manual is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Obtaining Technical Assistance

- Ruijie Networks website: <u>http://www.ruijienetworks.com/</u>
- Ruijie service portal: <u>http://case.ruijienetworks.com</u>

Preface

Thank you for choosing the **RG-SAM+ Security Accounting Management System**. It is a great honor to provide you with Ruijie Networks products. We have sufficient user manuals that familiarize you with operations quickly. We also attach the e-document to the installation CD.

We have made great efforts to include comprehensive content in the manual and make it simple and easy to understand, helping you obtain all aspects including installation environment, basic operation, software usage and precautions. To help you use the RG-SAM+ system properly, please read carefully all the materials in the CD before you start to install and use it.

Ruijie Networks will update the RG-SAM+ software to improve performance and availability at any time. For this circumstance, Ruijie Networks will update related materials such as manuals and CDs in the first time. However, inconsistency in some details may still exist. We hope you to understand.

Ruijie Networks has made reasonable efforts to ensure that the instructions contained in the document are adequate and free of material errors and omissions. If necessary, Ruijie Networks will explain issues not covered by the document, and correct errors as soon as possible. The customer assumes full responsibility when misunderstanding it. Ruijie Networks welcomes customer comments and questions by dialing the hotline 4008111000. In no event will Ruijie Networks be liable to any damage caused by improper operation or for any performance problem caused by substandard hardware.

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Overview

The RG-SAM+ system developed by Ruijie Networks adopts the standard RADIUS protocol to cooperate well with Ruijie equipment and manage online users systematically.

This manual is applicable to the RG-SAM+ (Enterprise Edition) system. Users of this version will enjoy unique operations different from other versions. For example, the enterprise edition has a different way of disabling RG-SAM+ services. Please refer to the "RG-SAM+ Service Manager" section of the *Operation Manual of RG-SAM+ Security Accounting Management System*. In this manual, the figures of installation and operations in Windows are for the enterprise edition. Unless specially indicated, they do not vary with versions except slight difference in figure display which will not be explained respectively.

System components: To run the RG-SAM+ system properly, you should install the following programs.

RG-SAM+ Security Accounting Management System

MS SQL Server 2008 database, MS SQL SERVER2012 database, and initialization of them

This manual introduces the software and hardware configuration, detailed installation steps, and precautions for installing the RG-SAM+ system.

Installation Preparations



on Relevant patches must be installed in the operating system of the SAM+ server, and otherwise unexpected exits of SAM+ may occur. See the **Software Configuration** table.



During the SAM+ installation, close security software such as the 360 Anti-Virus, 360 Safe Guard and QQ housekeeper, or unpredictable problems may occur.

Requirements for Hardware and Operating System

The following tables describe the requirements for the hardware and operating system of the RG-SAM+ system.

1) Hardware Configuration:

Minimum Configuration:
Dell PowerEdge R710
CPU: 4-core Intel Xeon E5606 2.13GHz * 2
Memory: 8G
Drive: 130MB throughput, at least 100G capacity
Network: 1000 Mbps full duplex NIC * 3
Recommended Configuration:
Recommended Configuration: Dell PowerEdge R710
Recommended Configuration: Dell PowerEdge R710 CPU: 4-core Intel Xeon E5606 2.53GHz * 4
Recommended Configuration: Dell PowerEdge R710 CPU: 4-core Intel Xeon E5606 2.53GHz * 4 Memory: 16G
Recommended Configuration: Dell PowerEdge R710 CPU: 4-core Intel Xeon E5606 2.53GHz * 4 Memory: 16G Drive: 266MB throughput, at least 200G capacity

2) Software Configuration:

	Windows Server 2008 Enterprise Edition SP1 X64 + Windows Server 2008 R2
Operating	Enterprise Edition SP1 X64 patched with KB975808 (including patches KB976932 and
system	KB976902)
	Windows Server 2012 R2 Standard Edition
Datahasa	SQL Server 2008 Enterprise Edition SP1 X6
Database	SQL Server 2008 R2 Enterprise Edition SP1 X64

SQL Server 2012 Enterprise Edition SP1

3) Turn off the firewall:

艨 Customize Settings	
GO⊽ 💣 • System	and Security • Windows Firewall • Customize Settings 🔹 🔹 🚱 Search Control Panel
Custom You can What are	ize settings for each type of network modify the firewall settings for each type of network location that you use. e network locations?
Home or	work (private) network location settings O Turn on Windows Firewall Block all incoming connections, including those in the list of allowed programs
8	Notify me when Windows Firewall blocks a new program Turn off Windows Firewall (not recommended)
Public ne	twork location settings
Ø	Turn on Windows Firewall Block all incoming connections, including those in the list of allowed programs Notify me when Windows Firewall blocks a new program
8	Turn off Windows Firewall (not recommended)
	OK Cancel

Caution

N You should reserve about 200GB on the hard drive to store the SAM+ program, and reserve at least 20GB on the C drive.(WINDOWS)



The database files must be stored on the NTFS partition of a non-system drive with a minimum space of 200GB.



If any version of SAM+ is already installed in the server, please uninstall it, restart the server, and then install a new version. To install the new version in the path of previously installed version, you should delete the SAM+ directory manually.



Install the database before installing the RG-SAM+ software. For details, see **Section 1.1** of **Chapter 1**.



Before installation, please confirm that the server time is correct. Do not modify the server time during operation later.



Installation Steps

Step 1: Install the SQL Server Enterprise Edition. See Chapter 1.

Step 2: Install the RG-SAM. See Chapter 2.

Step 3: Establish and initialize the SQL database. See Chapter 3.

Required Files

Installation program: **RG-SAM+ ENTERPRISE_4.00_Build20150829.exe**. The exact file name is subject to the release number.

Chapter 1 Installing & Upgrading RG-SAM+

Installing the SQL Server

The RG-SAM+ supports the **Microsoft SQL Server 2005** or **SQL Server 2008** as well as the **SQL Server 2012** as the background database. The installation steps for the latter two are described as below.

Installing SQL Server 2008 Enterprise Edition

The operation of the RG-SAM+ system requires a background database. If you use the **Microsoft SQL Server 2008**, you must install the **Microsoft SQL Server 2008 Enterprise Edition**.

The **SQL Server 2008** is a large database server of Microsoft. This section describes the software and hardware configuration requirements for installing the **SQL Server 2008 Enterprise Edition**, detailed installation steps and notes.

1) Insert the CD of **SQL Server 2008 Enterprise Edition**, click **setup.exe**, and a message will be prompted asking whether to install the **NET framework**. Click **OK**.



2) After automatic installation, the following interface is prompted.



3) Click Installation >New Installation or add features to an existing installation.

lanning	New installation or add features to an existing installation.
nstallation	Launch a wizard to install SQL Server 2008 R2 in a non-clustered environment or to add features to an existing SQL Server 2008 R2 instance.
laintenance	
ools	New SQL Server failover cluster installation
esources	Launch a wizard to install a single-hode SQL Server 2008 R2 fallover cluster.
	Add node to a SQL Server failover cluster
avanced	👔 🚺 🛛 Launch a wizard to add a node to an existing SQL Server 2008 R2 failover cluster.
ptions	
	Upgrade from SQL Server 2000, SQL Server 2005 or SQL Server 2008
	Launch a wizard to upgrade SQL Server 2000, SQL Server 2005 or SQL Server 2008 to SQL Server 2008 R2.
	Search for product updates
	Search Microsoft Update for SOL Server 2008 R2 product updates.
Microsoft*	
SOL Server 2008 R2	

4) Click OK.



SQL Server 2008 R2 Setup		
Setup Support Rules		
Setup Support Rules identify p before Setup can continue.	oblems that might occur when you install SQL Server Setup support files. F	ailures must be corrected
Setup Support Rules	Operation completed. Passed: 7. Failed 0. Warning 0. Skipped 0	D.
	Show details >>	Re-run
	View detailed report	
		OK Cancel

🚼 SQL Server 2008 R2 Setup	
Product Key	
Specify the edition of SQL S	erver 2008 R2 to install.
Product Key License Terms Setup Support Files	Validate this instance of SQL Server 2008 R2 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, such as Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard.
	< Back Next > Cancel

6) Tick I accept the license terms, and click Next.

To install SQL Server 2008	R2, you must accept the Microsoft Software License Terms.
Product Key License Terms Setup Support Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2008 R2 ENTERPRISE 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, supplements, Internet-based services, and support services
	for this software, unless other terms accompany those items. If so, those terms apply.

7) Click Install.



SQL Server 2008 R2 Setup			- 🗆 ×
Setup Support Files			
Click Install to install Setup Sup	port files. To install or update SQL Serve	r 2008 R2, these files are required.	
Product Key	The following components are r	equired for SQL Server Setup:	
License Terms	Feature Name	Status	
Setup Support Files	Setup Support Files		
	1		

髉 SQL Server 2008 R2 Setup							_ 🗆 🗙
Setup Support Rules							
Setup Support Rules identify proble before Setup can continue.	ms that might occur whe	en you install SQL S	erver Setup su	pport files. Fa	ilures must be c	orrected	
Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Operation complete Show details >> View detailed report	d. Passed: 11. Fail	ed 0. Warning) (). Skipped ().		Re-run
			[< Back	Next >	Cancel	Help

Click the SQL Server Feature Ins install a specific configuration.	Illation option to individually select which feature components to install, or click a feature role to
Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements	 SQL Server Feature Installation Install SQL Server Database Engine Services, Analysis Services, Reporting Services, Integration Services, and other features. SQL Server PowerPivot for SharePoint Install PowerPivot for SharePoint on new or existing SharePoint 2010 server to support PowerPivot data access in the form. To use the New Server price SharePoint be installed but get configured.
installation Configuration Rules (installation Progress Complete	Add PowerPivot for SharePoint to: New Server

10) Tick the components you need as shown in the following figure, and then click **Next**.

Setup Support Rules	Features:	Description:	
Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Instance Features ✓ Database Engine Services ✓ SQL Server Replication ✓ Full-Text Search Analysis Services Reporting Services Shared Features ✓ Business Intelligence Development Studio ✓ Client Tools Connectivity ✓ Integration Services ✓ Client Tools Backwards Compatibility ✓ Client Tools SDK ✓ SQL Server Books Online ✓ Management Tools - Complete ✓ SQL Client Connectivity SDK ✓ Microsoft Sync Framework Redistributable Features	Description: Server features are instance- aware and have their own registry hives. They support multiple instances on a computer.	
	Shared feature directory: C:\Program Files\Microsoft SQL Server\ Shared feature directory (x86); C:\Program Files (X86)\Microsoft SQL Server\))	

🎇 SQL Server 2008 R2 Setup					_ 🗆 🗙
Installation Rules					68888
Setup is running rules to determi	ne if the installation process will be	blocked. For more info	rmation, click Help.		
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Operation completed. Passed Show details >> View detailed report	d: 5. Failed 0. Warnir	ng O. Skipped 19.		Re-run
			< Back Ne>	kt > Cance	I Help

12) Choose **Default instance**, and then click **Next**.

SQL Server 2008 R2 Setup	า		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		
Specify the name and instance ID	for the instance of SQL Serve	r. Instance ID bec	omes part of the install	ation path.	
Setup Support Rules Setup Role Feature Selection Techallation Rules	Default instance Named instance:	MSSQLSERVER			
Instance Configuration Disk Space Requirements Server Configuration	Instance ID: Instance root directory:	MSSQLSERVER	Microsoft SQL Server\		
Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install	SQL Server directory: Installed instances:	C:\Program Files	Microsoft SQL Server\	MSSQL10_50.MSSQLS	ERVER
installation Progress Complete	Instance Name	Instance ID	Features	Edition	Version
			< Back	Next >	Cancel Help



Review the disk space summary h	r the SQL Server features you selected.
ietup Support Rules ietup Role 'eature Selection nstallation Rules instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting installation Configuration Rules Ready to Install installation Progress Complete	Disk Usage Summary:

14) Choose NT AUTHORITY/SYSTEM from the Account Name drop-down list.

ietup Support Rules ietup Role ieature Selection	Service Accounts Collation	eparate account for each SQL	Server service.		
nstallation Rules	Service	Account Name	Password	Startup Type	
nstance Configuration	SQL Server Agent	NT AUTHORITY\SYSTEM		Manual	-
visk Space Requirements	SQL Server Database Engine	NT AUTHORITY NETWORK SE		Automatic	-
ierver Configuration	SQL Server Integration Services 10.0	< <browse>></browse>		Automatic	•
atabase Engine Configuration	SQL Full-text Filter Daemon Launcher	NT AUTHORITY\LOCAL S)	Manual	
rror Reporting	SQL Server Browser	NT AUTHORITY\LOCAL S		Disabled	-
Complete					

15) Choose **NT AUTHORITY/SYSTEM** for the three services as shown in the figure below.

ietup Support Rules ietup Role ieature Selection	Service Accounts Collation	eparate account for each SQ	. Server service.		
nstallation Rules	Service	Account Name	Password	Startup Type	,
nstance Configuration	SQL Server Agent	NT AUTHORITY\SYSTEM		Manual	-
Disk Space Requirements	SQL Server Database Engine	NT AUTHORITY\SYSTEM		Automatic	-
erver Configuration	SQL Server Integration Services 10.0	NT AUTHORITY\SYSTEM		Automatic	-
Patabase Engine Configuration	SQL Full-text Filter Daemon Launcher	NT AUTHORITY\LOCAL S		Manual	
rror Reporting	SQL Server Browser	NT AUTHORITY\LOCAL S		Disabled	-
nstallation Progress Complete		Use the s	ame account for	all SQL Server serv	rices

16) Choose the **Collation** tab.

\$50L Server 2008 R2 Setup Server Configuration	
Specify the service accounts and c	collation configuration.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Service Accounds Collation Database Engine:
	<pre></pre>



17) Configure collation. Make sure that the configuration is done exactly as shown in the following figure, or otherwise the SAM+ cannot run properly.

	Customize the SQL Serve	r 2008 R2 Database Ei	ngine Collation				
🚼 SQL Serve	Select the collation you wo	uld like to use: S	tep 2				_ 🗆 ×
Server Specify	Windows collation design Collation designator: Binary	nator and sort order .atin1_General Binary-code point	-		•		
Setup Suppo Setup Role Feature Sele Installation R Instance Cor Disk Space R	Case-sensitive Cacent-sensitive CSQL collation, used for SQL_AltDiction_CP850_CI SQL_AltDiction_CP850_CI SQL_AltDiction_CP850_CI SQL_AltDiction_CP850_CI	Kana-sensitive Width-sensitive backwards compatibility AS AS AS AS AS AS AS AS	Step 3			, width-insensitive n-Unicode Data	Step 1
Server Con Database En Error Report Installation C Ready to Ins Installation F Complete	Collation description:	Isitive, accent-sensitive, J Sort Order 49 on Code P	canatype-insensitive, age 850 for non-Unico	width-insensitiv de Data	e for Cancel		
				<	Back N	ext > Cance	el Help

Server Configuration	
Specify the service accounts and co	ollation configuration.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Service Accounts Collation Database Engine:

19) Configure a user account and a password.



Specify Database Engine authentica	tion security mode, administrators and data directories.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress	Account Provisioning Data Directories FILESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode
Complete Step 2	WIN-4GI/NH58I/LIKK/rulijie (rulijie) SQL Server administrators have unrestricted access to the Database Engine. Add Current User Add

20) In the **Data Directories** tab, you can use the default configuration. If the default drive space is insufficient, choose another drive.

Setup Support Rules	Account Provisioning Data Dire	actories. FILESTREAM	
Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install	Data root directory; System database directory: User database directory: User database log directory: Temp DB directory: Temp DB log directory:	C:\Program Files\Microsoft SQL Server\ C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\Data C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSS C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSS	••••
nstallation Progress Complete	Backup directory:	C:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSS	***

21) In the **FILESTREAM** tab, configure as shown in the following figure. Click **Next**.

🏶 SQL Server 2008 R2 Setup		_ 🗆 🗙
Database Engine Config Specify Database Engine authentica	juration	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Account Provisioning Data Directories FILESTREAM Finable FILESTREAM for Transact-SQL access Finable FILESTREAM for file I/O streaming access Windows share name: MSSQLSERVER Allow remote clients to have streaming access to FILESTREAM data	
	< Back Next > Cancel He	elp

22) Click Next.

ŞQL Server 2008 R2 Setup	
Help Microsoft improve SQL Serve	er features and services.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	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. See the Microsoft SQL Server 2008 R2 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Image: 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.
	<pre> < Back Next > Cancel Help</pre>

Installation Configuration Setup is running rules to determine if th Setup Support Rules Setup Role Feature Selection Installation Rules Installation Rules Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress	Pules he installation process w Operation completed. P. Show details >> View detailed report	vill be blocked. For n assed: 4. Failed 0.	oore information, cli Warning 0. Skipp	ck Help. red 4.		
Setup is running rules to determine if the Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress	he installation process w Operation completed. Po Show details >> <u>View detailed report</u>	vill be blocked, For n assed: 4. Failed 0.	nore information, cli Warning 0. Skipp	ck Help. ed 4.		
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress	Operation completed. P. Show details >> <u>View detailed report</u>	assed: 4. Failed 0.	Warning 0. Skipp	ed 4.		
Complete						Re-run
			< Back	Next >	Cancel	Help

24) Click Next.



25) Click Next.

Setup Support Rules	Installation Progress		
	Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Setting feature scenario.	

26) The installation is complete. Click $\ensuremath{\textbf{Close}}.$

Complete	
Your SQL Server 2008 R2 installa	ition completed successfully.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress	Summary log file has been saved to the following location: C:\Program_Files\Microsoft_SOL_Server\100\Setup_Bootstrap\Log\20150804_202313\Summary_WIN-4GINHS81UKK_20150804_202313.txt Information about the Setup operation or possible next steps: Image: Your SQL Server 2008 R2 installation completed successfully.
Complete	Supplemental Information: The following notes apply to this release of SQL Server only. Microsoft Update For information about how to use Microsoft Update to identify updates for SQL Server 2008 R2, see the Microsoft—Update Web site at http://go.microsoft.com/fwlink/?Linkid=108409 . Samples By default, sample databases and sample code are not installed as part of SQL Server Setup. To install sample databases and sample code for non-Express editions of SQL Server 2008 R2, see the CodePlex Web site at http://go.microsoft.com/fwlink/?Linkid=108409 .

27) Double click the SP1 patch, and click **Next**.

SQL Server 2008 R2 upd	ate	
Welcome to the SQL Server 2008 R2	update. This installation provides updates for SQL Server 2008 R2.	
SQL Server 2008 R2 update License Terms	Operation completed. Passed: 7. Failed 0. Warning 0. Skipped 1.	
Select Features Check Files In Use	Show details >>	Re-run
Ready to update	View detailed report	
Update Progress Complete		
	For more information on this undate, see the following Microsoft knowledge based article:	
	http://support.microsoft.com/?kbid=2528583	
	<back next=""> Cancel</back>	Help

28) Tick I accept the license terms, and click Next.

License Terms	
To install Service Pack 1, you n	nust accept the Microsoft Software License Terms.
SQL Server 2008 R2 update License Terms Select Features Check Files In Use Ready to update Jpdate Progress Complete	MICROSOFT SQL SERVER 2008 R2 SERVICE PACK 1 (SP1) FOR MICROSOFT SQL SERVER 2008 R2 PLEASE NOTE: Refer to your license terms for Microsoft SQL Server 2008 R2 software (the "software") to identify the entity licensing this supplement to you and for support information. You may use a copy of this supplement with each validly licensed copy of the software. You may not use the supplement if you do not have a license for the software. The license terms for the software apply to your use of this supplement.
	ja e

Specify the features to update.		
5QL Server 2008 R2 update License Terms Select Features Check Files In Use Ready to update Jpdate Progress Complete	Instances: MSSQLSERVER Database Engine Services SQL Server Replication Full-Text Search Usiness Intelligence Development Studio Client Tools Connectivity Integration Services Client Tools Backwards Compatibility Client Tools SDK SQL Server Books Online Management Tools - Basic Management Tools - Basic Microsoft Sync Framework	Description: Language: Edition: Patch Level: Architecture: Service Pack: Upgrade Status:



🍯 Microsoft SQL Server 2008 R2 :	Service Pack 1			
Check Files In Use				
The following services and appl the applications and services.	ications are using files that Setup needs to comp	olete the installation. To avoid a c	omputer restart, stop	
SQL Server 2008 R2 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Files in use check completed.		Stop check	Refresh check
		< Back	lext > Cancel	Help

31) Click Update.

Verify the list of features to be	ipdated.	
SQL Server 2008 R2 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Ready to update: Summary Action: Patch General Configuration MSSQLSERVER Patabase Engine Services SQL Server Replication - Database Engine Services SQL Server Replication - Full-Text Search Attributes - Edition: Enterprise - Patch Level: 10.50.1600.1 - Processor Type: x64 - Service Pack: - Upgrade Status: Not installed. - Features - Business Intelligence Development Studio - Client Tools Connectivity - Integration Services - Client Tools SDK - SQL Server Books Online	



Microsoft SQL Server 2008 R2 Update Progress	Service Pack 1
Update Progress	Instance MSSQLSERVER: Updating 'MSSQLSERVER': Adding package installer engines.
	Next > Cancel Help

33) The installation is complete. Click **Close**.



Supplete	Service Pack 1
Your SQL Server 2008 R2 upda	te operation is complete.
SQL Server 2008 R2 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Summary log file has been saved to the following location: Information about the Setup operation or possible next steps: Vour SQL Server 2008 R2 update operation is complete.
	Close Help

Installing SQL Server2012 Enterprise Edition

1) Double-click the **setup.exe** file, and the following interface is prompted.
| 3 | SQL Server Installation Center |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Planning | Hardware and Software Requirements |
| Installation | View the hardware and software requirements. |
| Maintenance | Security Documentation |
| Tools | View the security documentation. |
| Resources | Online Release Notes |
| Advanced | View the latest information about the release. |
| Options | How to Get SQL Server Data Tools |
| | SQL Server Data Tools provides an integrated
environment for database developers to carry out all
their database design work for any SQL Server platform. |
| | System Configuration Checker |
| | Launch a tool to check for conditions that prevent a
successful SQL Server installation. |
| | Install Upgrade Advisor |
| | Upgrade Advisor analyzes any SQL Server 2008 R2, SQL
Server 2008 or SQL Server 2005 components that are
installed and identifies issues to fix either before or after
you upgrade to SQL Server 2012. |
| | Online Installation Help |
| | Launch the online installation documentation. |
| | How to Get Started with SQL Server 2012 Failover
Clustering |
| SQL Server 2012 | Read instructions on how to get started with SQL Server 2012 failover clustering. |

2) Click Installation >New SQL Server stand-alone installation or add features to an existing installation.

1	SQL Server Installation Center
Planning Installation Maintenance Tools Resources Advanced Options	New SQL Server stand-alone installation or add features to an existing installation Launch a wizard to install SQL Server 2012 in a non-clustered environment or to add features to an existing SQL Server 2012 instance. Image: SQL Server 2013 instance.
Microsoft SQL Server:2012	Final Hole to a sign server function Launch a wizard to add a node to an existing SQL Server 2012 failover cluster. Image: Server 2008 R2 Launch a wizard to upgrade SQL Server 2005, SQL Server 2008 R2 Launch a wizard to upgrade SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 to SQL Server 2012.

3) Click **OK**.



1	SQL Server 2012 Setup	- • ×
Setup Support Rules		
Setup Support Rules identify p corrected before Setup can cor	roblems that might occur when you install SQL Server Setup support files. Failures must be tinue.	
Setup Support Rules	Operation completed. Passed: 8. Failed 0. Warning 0. Skipped 0.	
	Show details >>	Re-run
	View detailed report	
	ОК	Cancel



1	SQL Server 2012 Setup
Product Key Specify the edition of SQ	IL Server 2012 to install.
Product Key License Terms Product Updates Install Setup Files	Validate this instance of SQL Server 2012 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, such as Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard. Specify a free edition: Evaluation © Enter the product key: Server Books Online, and Server
	< Back Next > Cancel

5) Tick I accept the license terms, and click Next.



1	SQL Server 2012 Setup
License Terms To install SQL Server 2012	, you must accept the Microsoft Software License Terms.
Product Key License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2012 ENTERPRISE SERVER/CAL 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, • supplements, • Internet-based services, and • sunnert services Image: Copy Image: Print
	Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components. See the Microsoft SQL Server 2012 Privacy Statement for more information. < Back

6) Keep the default setting, and click **Next**.



1	SQL Server	2012 Setup			_ D X
Product Updates Always install the latest upda	ates to enhance your SQL Server security	and performance.			
Product Key Licence Terms	✓ Include SQL Server product upda	ates			
Product Lindstor	Name	Size (MB)	M	lore Information	
	SQL Server 2012 SP1 GDR Setup	26	KE	3 2793634	
	Read our privacy statement online Learn more about SQL Server produ	<u>uct updates</u>			
			< Back	Next >	Cancel



1	SQL Server 2012 Setup	_		×	5
Setup Support Rules Setup Support Rules identify p corrected before Setup can con Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress	SQL Server 2012 Setup roblems that might occur when you install SQL Server Setup support files. Failures must be ntinue. Operation completed. Passed: 7. Failed 0. Warning 0. Skipped 0. Show details >> View detailed report		Re-ru	IN	
Complete	< Back Next > Cancel		Help		



1	SQL Server 2012 Setup
Setup Role Click the SQL Server Feature In feature role to install a specific Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	SQL Server 2012 Setup Installation option to individually select which feature components to install, or click a configuration. SQL Server Feature Installation Install SQL Server Database Engine Services, Analysis Services, Reporting Services, Integration Services, and other features. SQL Server PowerPivot for SharePoint Install PowerPivot for SharePoint on a new or existing SharePoint server to support PowerPivot data access in the farm. Optionally, add the SQL Server relational database engine to use as the new farm's database server. Add SQL Server Database Relational Engine Services to this installation. All Features With Defaults Install all features using default values for the service accounts.
	< Back Next > Cancel Help

9) Tick the components you need as shown in the following figure, and then click **Next**.



1	SQL Server 2012 Setup	_ _ X
Feature Selection		
Select the Enterprise features to	install.	
Setup Support Rules	Features:	Feature description:
Setup Role Feature Selection Installation Rules Instance Configuration Step 2 Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete Step 1	Instance Features Image: Second S	The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by- side on the same computer. Prerequisites for selected features: Already installed:
	< Back	Next > Cancel Help



1	SQL Server 2012 Setup	_ _ X
Installation Rules Setup is running rules to deter	nine if the installation process will be blocked. For more information, click Help.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Operation completed. Passed: 2. Failed 0. Warning 0. Skipped 0. Show details >> View detailed report	Re-run
	< Back Next > Cance	I Help

11) Choose Default instance, and then click Next.



1	SC	L Server 2012	Setup		_ X
Instance Configuration					4588
Specify the name and instance	lD for the instance of SQL	Server. Instance II) becomes part of t	he installation path.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	 Default instance Named instance: Instance ID: 	MSSQLSERVER MSSQLSERVER			
	Instance root directory: SQL Server directory: Installed instances:	C:\Program File:	\Microsoft SQL Sen	ver\MSSQL11.MSSQLSERV	[]
	Instance Name I	nstance ID	Features	Edition	Version
			< Back	Next > Cancel	Help



1	SQL Server 2012 Setup
Disk Space Requireme	nts
Review the disk space summar	y for the SQL Server features you selected.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Disk Usage Summary:
	< Back Next > Cancel Help

13) Choose Browse from the Account Name dropdown list.



1	SQL Server 201	2 Setup		_ _ X
Server Configuration				
Specify the service accounts and	d collation configuration.			
Setup Support Rules Setup Role Feature Selection	Service Accounts Collation Microsoft recommends that you use	a separate account for each	SQL Server service.	
Installation Rules Instance Configuration	SQL Server Agent	Account Name	Password S	tartup Type 1anual 🗸 🗸
Disk Space Requirements	SQL Server Database Engine	NT Service\SQLSERVERAGE < <browse>></browse>	A	utomatic 🗸
Server Configuration Database Engine Configuration	SQL Server Distributed Replay Client	NT Service\SQL Server D	N N	1anual V
Reporting Services Configuration Distributed Replay Controller	SQL Full-text Filter Daemon Launc	NT Service\MSSQLFDLa	N	1anual
Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	SQL Server Browser	NT AUTHORITYLLOCAL		isabled ¥
		< Back Next :	> Cancel	Help

14) Click Advanced.

	1	SQL	Server 2012	2 Setu	ıp		_ [x נ
F	Select U	ser or Group		x			14XX	
<u>ج</u>	Select this object type: User, Group, or Built-in security principal		Object Type	s				
	WIN-U5BB1FT2R6M		Locations.					
	Enter the object name to select (<u>examples</u>):				te account for each	SQL Server servic	e.	
			Check Nam	es	nt Name	Password	Startup Type	<u>.</u>
0					vse>> 🗸 🗸		Manual	~
					vice\MSSQLSE 👻		Automatic	~
1	Advanced	OK	Cance		vice\MsDtsServer		Automatic	v
	Database Engine Configuration	oge ocher biscibacca	nepity onene	.:: ••• •••	vice\SQL Server D		Manual	V
	Reporting Services Configuration	SQL Server Distributed	Replay Con	NT Se	rvice\SQL Server D		Manual	v
	Distributed Replay Controller	SQL Full-text Filter Dae	mon Launc	NT Se	rvice\MSSQLFDLa		Manual	
	Distributed Replay Client	SQL Server Browser		NT AL	JTHORITY\LOCAL		Disabled	~
	Error Reporting							
	Installation Configuration Rules							
	Ready to Install							
	Installation Progress							

15) Click Find Now, and then choose the Administrator user.

	Selec	ct User or Group		X
Select this object type:				
User, Group, or Built-in	security principal		ОЬ	ject Types
From this location:				
WIN-U5BB1FT2R6M			L	ocations
Common Queries				Step 1
Name: Start	s with 🗸			Columns
Description: Start	s with \vee			Find Now
Disabled accour	nts			Stop
Non expiring pas	sword			
Days since last logo	n: 🗸 🗸			,
Search results:			OK	Cancel
Name	In Folder			^
Access Control A	WIN-U5BB1FT2			=
Administrator	WIN-U5BB1FT2	Step 2		
Administrators ALL APPLICATIO ANONYMOUS L Authenticated Us	WIN-05881F12			
🕮 Backup Operators 🍇 BATCH	WIN-U5BB1FT2			
Certificate Servic CONSOLE LOGON	WIN-U5BB1FT2			~

16) Click OK.

Select User or Group	X
Select this object type:	
User, Group, or Built-in security principal	Object Types
From this location:	
WIN-U5BB1FT2R6M	Locations
Enter the object name to select (<u>examples</u>):	
WIN-U5BB1FT2R6M\Administrator	Check Names
Advanced OK	Cancel

17) As shown in the following figure, choose **Administrator** for the five services, and input the system login password as the password.

1	SQL Server 2012	2 Setup		_ □	x
Server Configuration Specify the service accounts and	collation configuration.				
Setup Support Rules Setup Role Feature Selection	Service Accounts Collation Microsoft recommends that you use	a separate account for each	SQL Server service		
Installation Rules	Service	Account Name	Password	Startup Type	
Instance Configuration	SQL Server Agent	Administrator	•••••	Manual	~
Disk Space Requirements	SQL Server Database Engine	Administrator	•••••	Automatic	✓
Server Configuration	SQL Server Integration Services 11.0	Administrator	•••••	Automatic	✓
Database Engine Configuration	SQL Server Distributed Replay Client	Administrator	•••••	Manual	✓
Reporting Services Configuration	SQL Server Distributed Replay Con	Administrator	•••••	Manual	¥
Distributed Replay Controller	SQL Full-text Filter Daemon Launc	NT Service\MSSQLFDLa		Manual	
Distributed Replay Client	SQL Server Browser	NT AUTHORITY\LOCAL		Disabled	▼
Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete					
		< Back Next	> Cancel	Hel	pai

Innovation Beyond Networks

18) Choose the **Collation** tab.

8	SQL Server 2012 Setup	_ _ X
Server Configuration Specify the service accounts and Setup Support Rules Setup Role	d collation configuration. Service Accounts Collation	
Setup Kole Feature Selection Installation Rules	Database Engine: Latin1_General_CL_AI	Customize
Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width- insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non- Unicode Data	
	< Back Next > Cancel	Help

19) Configure collation. Make sure that the configuration is done exactly as shown in the following figure, or otherwise the SAM+ cannot run properly.

	SQL Server 2012 Setup	_ 🗆 X
Server Conf	iguration	
Custo	mize the SQL Server 2012 Database Engine Collation	
Select the collation you would like Windows collation designator a Collation designator: Binary Case-sensitive Accent-sensitive	to use: Step 2 ind sort order Latin1_General v Binary-code point Kana-sensitive Width-sensitive	Step 1 Customize h- ior non-
Supplementary characters SQL collation, used for backwa SQL_AttDiction_CP850_CLAS SQL_AttDiction_CP850_CLAS SQL_AttDiction_CP850_CS_AS SQL_AttDiction_Pref_CP850_CLAS SQL_AttDiction_Pref_CP850_CLAS	rds compatibility	
Collation description: Latin1-General, case-insensitive, a Order 49 on Code Page 850 for no	accent-sensitive, kanatype-insensitive, width-insensitive for Unicode Data, SQL Server Sort on-Unicode Data OK Cancel	
12	< Back Next >	Cancel Help



1	SQL Server 2012 Setup	_ _ X
Server Configuration Specify the service accounts and	l collation configuration.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration	Service Accounts Collation Database Engine:	Customize
Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	insensitive	
	< Back Next > Cancel	Help

21) Configure a user account and a password.



1	SQL Server 2012 Setup	_ _ X
Database Engine Config Specify Database Engine authen	uration ication security mode, administrators and data directories.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting	Server Configuration Data Directories FILESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode Windows authentication mode Step 1 Mixed Mode (SQL Server authentication and Windows authentication) Specify the password for the SQL Server system administrator (sa) account. Enter password: Confirm password: Step 3 Specify SQL Server administrators	
Installation Configuration Rules Ready to Install Installation Progress Complete	WIN-U5BB1FT2R6M\Administrator (Administrator) SQL Server have unrest to the Data Add Current User Add Remove Step 2 < Back	administrators tricted access ibase Engine. Help

22) In the **Data Directories** tab, you may use the default configuration. If default drive space is insufficient, you may choose another drive.



1	SQL Serv	er 2012 Setup
Database Engine Confi Specify Database Engine auther	guration	ators and data directories.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Server Configuration Data Dir Data root directory: System database directory: User database directory: User database log directory: Temp DB directory: Temp DB log directory: Backup directory:	ectories FILESTREAM C:\Program Files\Microsoft SQL Server\ C:\Program Files\Microsoft SQL Server\MSSQL11.MSSQLSERVER' C:\Program Files\Microsoft SQL Server\MSSQL11.MSSQLSERVER'
		< Back Next > Cancel Help

23) In the **FILESTREAM** tab, configure as shown in the following figure. Click **Next**.



1	SQL Server	2012 Setup				×
Database Engine Confi Specify Database Engine auther	guration ntication security mode, administrato	ors and data directories				
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Server Configuration Data Direc Enable FILESTREAM for Tran Enable FILESTREAM for fil Windows share name: Allow remote clier	tories FILESTREAM	M data			
		< Back	Next >	Cancel	Help	



Reporting Services Co	nfiguration
Specify the Reporting Services	configuration mode.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Reporting Services Configura Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	 Reporting Services Native Mode Install and configure. Installs and configures the report server in native mode. The report server is operational after setup completes. Install only. Installs the report server files. After installation, use Reporting Services Configuration Manager to configure the report server for native mode. Reporting Services SharePoint Integrated Mode Installs the report server files. After installation use SharePoint Central Administration to complete the configuration. Verify the SQL Server Reporting Services service is started and create at least one SQL Server Reporting Services service is formation, click Help.



8	SQL Server 2012 Setup
Distributed Replay Co	ntroller
Specify Distributed Replay Con	troller service access permissions.
Setup Support Rules	Specify which users have permissions for the Distributed Replay Controller service.
Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Database Engine Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Users that have been granted permission will have unlimited access to the Distributed Replay Controller service.
	Add Current User Add Remove
	< Back Next > Cancel Help



1		SQL Server 2012 Setup	
Distributed Replay Clie	ent		
Specify the corresponding con	troller and data directori	ries for the Distributed Replay Client.	
Setup Support Rules Setup Role Feature Selection	Specify controller m Controller Name:	nachine name and directory locations.	
Installation Rules	Working Directory:	C:\Program Files (x86)\Microsoft SQL Server\DReplayClient\WorkingDir\	
Instance Configuration Disk Space Requirements	Result Directory:	C:\Program Files (x86)\Microsoft SQL Server\DReplayClient\ResultDir\	
Server Configuration			
Database Engine Configuration			
Reporting Services Configuration			
Distributed Replay Controller			
Distributed Replay Client			
Error Reporting			
Installation Configuration Rules			
Ready to Install			
Installation Progress			
Complete			
		< Back Next > Cancel	Help



18	SQL Server 2012 Setup
Error Reporting Help Microsoft improve SQL Se	erver features and services.
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	 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. See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. 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.
	< Back Next > Cancel Help



1	SQL Server 2012 Setup	_ X
Installation Configurat	ion Rules	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Database Engine Configuration Database Engine Configuration Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Operation completed. Passed: 4. Failed O. Warning O. Skipped O. Show details >> View detailed report	Re-run
	< Back Next > Cance	el Help

29) Click Install.



Ready to Install Verify the SQL Server 2012 features to be installed. Setup Support Rules Setup Role Feature Selection Installation Rules Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Distributed Replay Controller Distributed Replay Controller Distributed Replay Client Error Reporting Installation Configuration Rules Microsoft .NET Framework 3.5 General Configuration Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install	
Setup Support Rules Ready to install SQL Server 2012: Setup Role	
Installation Progress Complete Complete Configuration file path: C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20150901_104311\Config	gurationFile.ini

30) The installation is complete. Click **Close**.



Your SQL Server 2012 instal	lation completed successfully with product updates.	
Setup Support Rules	Information about the Setup operation or possi	ble next steps:
	Feature	Status
Feature Selection	🥝 Management Tools - Complete	Succeeded
Installation Rules	Client Tools Connectivity	Succeeded
Instance Configuration	🖉 Client Tools SDK	Succeeded
Disk Space Requirements	🖉 Client Tools Backwards Compatibility	Succeeded
Server Configuration	🥝 Management Tools - Basic	Succeeded
Database Engine Configuration	SOL Server Data Tools	Succeeded
Reporting Services Configuration Distributed Replay Controller	n Details:	
Distributed Replay Client Error Reporting Installation Configuration Rules Ready to Install Installation Progress C omplete	Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installing SQL Server, you can use the Help Library Manager component to download documentation to your local computer. For more information, see Use Microsoft Books Online for SQL Server. <http: ?linkid="224683" fwlink="" go.microsoft.com="">. Summary log file has been saved to the following location: C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\Log\20150901 104311\Summary WIN-USBB1FT2R6M 20150901 104311.txt</http:>	

31) Double click the SP1 patch, and click **Next**.



5	SQL Server 2012 Service Pack 1		×
SQL Server 2012 up Welcome to the SQL Serve	date r 2012 update. This installation provides updates for SQL Server 2012.		
SQL Server 2012 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Operation completed. Passed: 6. Failed 0. Warning 0. Skipped 0. Show details >> Yiew detailed report For more information on this update, see the following Microsoft knowledge based article: http://support.microsoft.com/?kbid=2674319	Re-r	un
	< Back Next > Cancel	Help	

32) Tick I accept the license terms, and click Next.



5	SQL Server 2012 Service Pack 1
License Terms To install Service Pack 1, y	rou must accept the Microsoft Software License Terms.
SQL Server 2012 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	MICROSOFT SQL SERVER 2012 SERVICE PACK 1 (SP1) FOR MICROSOFT SQL SERVER 2012 PLEASE NOTE: Refer to your license terms for Microsoft SQL Server 2012 software (the "software") to identify the entity licensing this supplement to you and for support information. You may use a copy of this supplement with each validly licensed copy of the software. You may not use the supplement if you do not have a license for the software. The license terms for the software apply to your use of this supplement. New Features/Functions in Microsoft SQL Server 2012 Service Pack 1 (SP1) Microsoft Bing Maps
	Copy Print I accept the license terms. Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components. See the Microsoft SQL Server 2012 Privacy Statement for more information.
	< Back Next > Cancel Help



U	SQL Server 2012 Service Pack 1	
Select Features Specify the features to upo	late.	
SQL Server 2012 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Instances: MSSQLSERVER Database Engine Services SQL Server Replication Full-Text and Semantic Extractions for Search Data Quality Services Shared Features Reporting Services - SharePoint Data Quality Client SQL Server Data Tools Client Tools Connectivity Integration Services Client Tools Backwards Compatibility Client Tools SDK Documentation Components Management Tools - Basic Management Tools - Complete. Distributed Replay Controller Distributed Replay Client Select All Unselect All	Description:



5	SQL Server 2012 Service Pack	1	_ _ X
Check Files In Use The following services and restart, stop the application	applications are using files that Setup needs to complete th s and services.	ne installation. To avoid a computer	
SQL Server 2012 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Files in use check completed.	Stop check	Refresh check
	< Back	Next > Cancel	Help

35) Click Update.



2	SQL Server 2012 Service Pack 1
Ready to update Verify the list of features to	o be updated.
Soli Server 2012 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Summary Action: Patch General Configuration Action: Patch General Configuration Action: Patch Database Engine Services SQL Server Replication Full-Text and Semantic Extractions for Search Data Quality Services Attributes Language: English - United States Edition: Enterprise Patch Level: 11.0.2100.60 Processor Type: x64 Service Pack: Upgrade Status: Not installed. Features Patch Level: Shared Features Patch Level: Shared Features Pactor Densitien Service Schere Densit Configuration file path:
	< Back Update Cancel Help



•	SQL Server 2012 Service Pack 1	-		x
Update Progress				
SQL Server 2012 update License Terms Select Features Check Files In Use Ready to update Update Progress Complete	Instance MSSQLSERVER: Updating 'MSSQLSERVER': MsiTimingAction Install_sql_dq_common_Cpu64_Action : InstallFinalize.			
	Next > Cancel		Help	

37) The installation is complete. Click **Close**.



2	SQL Server 2012 Service Pack	1		_ 🗆 🗙
Complete Your SQL Server 2012 upd	ate operation is complete.			
SQL Server 2012 update	Information about the Setup operation or possible ne	xt steps:		
Select Features Check Files In Use Ready to update Update Progress Complete	Feature Management Tools - Complete (MSSQLSERVER) Client Tools Connectivity (MSSQLSERVER) Client Tools SDK (MSSQLSERVER) Client Tools Backwards Compatibility (MSSQLSE Management Tools - Basic (MSSQLSERVER) SQL Server Data Tools (MSSQLSERVER) Database Engine Services (MSSQLSERVER) Database Engine Services (MSSQLSERVER)	Status Succeeded Succeeded Succeeded Succeeded Succeeded Succeeded		
			Close	Help

Installing RG-SAM+

1) Run the **setup.exe** file under the installation program directory to start the program. The installation interface as shown in the **Figure 1.2.1** is displayed.
Figure 1.2.1



2) Click Next, and the License Agreement interface as shown in the Figure 1.2.2 is displayed.

🐵 RG-SAM + Security Accounting Management Platform 📖 💻 😐 💌
License Agreement Please review the license terms before installing RG-SAM+ Security Accounting Management Platform .
Press Page Down to see the rest of the agreement.
 End User License Agreement for RG-SAM+ Portal Component Software License: Ruijie Networks authorizes you to use the software program. However, you must guarantee to the Company that you will not use, copy, modify, lease or transfer the system or any part of the system beyond terms of this agreement. You shall guarantee to: Only install the system on one computer or install different components of the system or part of the
If you accept the terms of the agreement, select the first option below. You must accept the agreement to install RG-SAM+ Security Accounting Management Platform . Click Next to continue.
 I accept the terms of the License Agreement I do not accept the terms of the License Agreement
RG-SAM
< Back Next > Cancel

 Read the agreement. If you accept the agreement, click Next to continue, or otherwise click Cancel to quit. After Next is chosen, the interface as shown in the Figure 1.2.3 is displayed.

🎯 RG-SAM + Security Accounting Management Platform 📖 💻 🗖 🗙
License Agreement Please review the license terms before installing RG-SAM+ Security Accounting Management Platform .
Press Page Down to see the rest of the agreement.
 And User License Agreement for RG-SAM+ Portal Component Software License: Ruijie Networks authorizes you to use the software program. However, you must guarantee to the Company that you will not use, copy, modify, lease or transfer the system or any part of the system beyond terms of this agreement. You shall guarantee to: Only install the system on one computer or install different components of the system or part of the
If you accept the terms of the agreement, select the first option below. You must accept the agreement to install RG-SAM+ Security Accounting Management Platform . Click Next to continue. I accept the terms of the License Agreement I do not accept the terms of the License Agreement
RG-SAM

4) In the Installation Type interface as shown in the Figure 1.2.4, choose Standard, and click Next. The interface as shown in the Figure 1.2.5 is displayed.(If you want to install only the RG-SAM+ Security Accounting Management System or the RG-SAM+ User Self-Service System, you may choose User-defined and then enter the Component Selection interface as shown in the Figure 1.2.4.)

RG-SAM + Security Accounting M	lanagement Platform 📖 💻 🗖 🗙
Installation Mode Please select the installation mode!	SAM
Click to select the installation mode. Standard Custom	 Description Standard Mode installs all the components. Custom Mode installs selected components.
RG-SAM	< Back Next > Cancel

5) After Standard in the Installation Type interface (shown in the Figure 1.2.4) or components to install in the Component Selection interface (shown in the Figure 1.2.4) are chosen, click Next to enter the Installation Location Selection interface as shown in the Figure 1.2.5.

🎯 RG-SAM + Security Accounting Management Platform 📖 💻 😐 🗙
Choose Install Location Choose the folder in which to install RG-SAM+ Security Accounting Management Platform .
Click [Next] to install to this path, or click [Browse] to install to another path.
to system drive
Installation path
C:\RG-SAM Browse
Space required: 1021.0MB Space available: 67.2GB
RG-SAM
< Back Next > Cancel

In the Figure 1.2.5, you may define an installation directory.



n Under the RGAC environment, install the SAM+ under the directory of a drive with large idle space.



Caution

Make sure there is no blank or Chinese character in self-defined path, and otherwise the program will not run normally. It is recommended to install it in a non-system disk, for example, D:\RG-SAM.



If the chosen installation directory already exists and is not empty, a prompt box for overwriting installation will be displayed. Click **Yes**, and program will delete the existing files under the directory and continue installation. If files are critical, please click **No** and change the directory before going to the next step.

6) After an installation directory is defined, click **Next**. The interface as shown in the **Figure 1.2.6** is displayed.

Figure 1.2.6

🇐 RG-SAM + Se	curity Accounting M	anagement	t Platform 📖 💻 🗖 🗙
Database Config Please configure t	uration he database!		SAM
Please enter datal	base parameters and user in	formation for v	verification.
Database IP:	127.0.0.1	Port:	1433
Database Name:	SAMDB02	Username:	sa
Password:	•••••]	
Please enter the delivering servic enter the IP of I Bind IP:	e IP address to bind. In star tes. In cluster mode, enter t the self-service server. 192.168.54.71	idalone mode, ihe IP of the clu	enter the IP of the server uster. In self-service mode,
RG-5AM		< Back	Next > Cancel

In the interface, input parameter values. The parameters are described as below.

Database IP: The IP address of the MS SQL Server database.

Port: The port number of the MS SQL Server database.

Database Name: The name of your database, which is the same as the database name you use.

Username: The login name of the MS SQL Server database.

Password: The password corresponding to the database login name.

Bind IP: Please fill in the IP address bound for the SAM+ service. When the SAM+ is deployed standalone, fill in the actual IP address of the server providing service; when it is deployed in cluster, fill in cluster IPs; when it is deployed as a standalone self-service server, fill in the actual IP address of the server.



All the above parameters must be set, and the database name, username and password should not contain such characters as "<", "&", ".", "_", "-", "、 ", """ and ">". Please use English letters or numbers as much as possible, and make sure these parameters are correct.



If the specified database already exists, then the prompt as shown in the following figure will be displayed. Click Yes to delete the database and initialize it using the initidb.sql (The initialized database will be created



under the default drive directory of the SQL Server. Please ensure sufficient space for the directory.), or click No not to delete and initialize the designated database.

7) In the previous step, fill in correct configuration of the database server, and then click **Next**. The interface as shown in the **Figure 1.2.7** will be displayed.

Figure	1	27
Iguie		.∠.1

🚳 RG-SAM + Security Ad	ccounting Management Platform 📖 💻 🗖 🗾 🗙
Edit URL Suffix Enter URL Suffix!	SAM
Please set different URL suffi Note: Only English suffixes a	ixes for the Management and Self-Service Platforms. re allowed.
Management URL Suffix	sam
Self-Service URL Suffix	selfservice
RG-SAM ————	< Back Next > Cancel

8) In the Figure 1.2.7, set the link names for the management and the self-service platforms. Usually you may use the default configuration. Click Next. The interface as shown in the Figure 1.2.8 is displayed. Confirm the information, and click Next.

Figure 1.2.8

RG-SAM + Security Accounting Management Platform	<mark>-</mark> 🗆 🗙
System URL The system URL is as follow. Please save a copy.	SAM
bystem URLs as follow: RG-SAM+ Management Platformhttp://127.0.0.1:8080/sam RG-SAM+ Self Service Portalhttp://127.0.0.1:8080/selfservice	
RG-SAM	Cancel

9) The interface as shown in the **Figure 1.2.9** is displayed.

🎯 RG-SAM + Security Accounting Management Platform 📖 💻 🗖 🗙	
Password Security Select password security level	
Plain text will enable the administrator to retrieve back user password through database query. Whereas administrator will not be able to know the original password of the encrypted password.	
O Plain Text Password	
 Encrypted Password (Recommended) 	
The Management and Self-Service Platforms must use the same password security	
RG-5AM	
< Back Next > Cancel	

You should choose an encryption way for the SAM+ to save user passwords on demand. If you choose **Encrypted Password(Recommended)**, passwords queried in the database are saved as encrypted texts, and if you choose **Plain Text Password**, passwords can be obtained by enquiring the database directly.



The settings cannot be changed once set. It is recommended to choose **Encrypted Password(Recommended)**. Click **Next**.

10) Choose whether to enable system maintenance. If you enable system maintenance, the SAM+ will perform it automatically. Otherwise, system maintenance will not be performed. It is recommended strongly to enable system maintenance! See the interface as shown in the Figure 1.2.10.

🎯 RG-SAM + Security Accounting Management Platform 📖 💻 😐 🗙
Database Backup It is strongly recommended to enable database backup. If it is not enabled, RG-SAM+ IN WILL not maintain the database automatically.
System maintenance includes Database Backup, Database Log Backup, Database Integrity Checking, Database Parameters Checking and Recovery, Database Document Compression, and Database Index Fragment Management.
Please decide whether to enable database backup.
Enable (Strongly Recommended)
○ Disable
If you decided to change this setting after the installation, please go to Operation > System Maintenance at the Management Platform
RG-SAM
< Back Next > Cancel

11) When system maintenance is enabled, you need to choose a drive for database backup. By default, the system takes the drive with the largest idle space, whose space must be larger than 20G. The system automatically creates the SAMDBBAK directory under the drive you choose to be the backup folder. See the interface as shown in the Figure 1.2.11.

Figure 1.2.11

🎯 RG-SAM + Security Accounting Management Platform 📖 💻 🖻	x I
Database Backup Location Select a hard disk drive for database backup.	SAM
Only hard disk drive with free space larger than 20G will be shown. System will automatically create a folder SAMDBBAK under the selected hard disk drive. Please select the hard disk drive for database backup:	
C:\ Free Space:67G V]
RG-SAM — Ca	ancel



When the remaining space of the drive for database backup is smaller than 3 times of the database size, the system prompts an "Insufficient drive space" alarm. Please set a proper drive space based on the database size.

¹²⁾ The interface as shown in the Figure 1.2.12 is displayed.

Figure 1.2.12

🎯 RG-SAM + Security Accounting Management Platform 📖 💻 😐 💌
Ready to Install RG-SAM+ Security Accounting Management Platform
Please verify the installation details below. Installation of RG-SAM+ will begin after this. Current Settings
Contract of the second seco
Database:
RG-SAM

Confirm all the configuration information of this installation, and click Install.

13) The interface of installation process is as shown in the Figure **1.2.13**.

🎯 RG-SAM + Security Accounting Management Platform 📖 💻 😐 🗴
Installing Please wait while RG-SAM+ Security Accounting Management Platform is being installed.
Extract: KB950224-v3.exe
Extract: DongleUtil.dll 100% Extract: dog_info.bat 100% Extract: ruijie-license-file.dll 100% Output folder: C:\RG-SAM\license\key Extract: RG-SAM.cer 100% Extract: publicKey.dat Output folder: C:\RG-SAM\license Output folder: C:\RG-SAM\license Output folder: C:\RG-SAM\kB Output folder: C:\RG-SAM\kB
RG-SAM

1. If a message to install software during the installation is prompted, always click Continue.

For example, an RGAC-related program **RGAC Miniport** is integrated in the SAM+ installation process, and a warning message will be prompted if it is not signed. If you see the warning message, please click **Continue**. If you click **Stop Installation**, the program will not be installed. You may install it manually in future.

To manually install the RGAC drive, open the DOS window, enter the **rgac** subdirectory under the SAM+ installation directory (for example, SAM+ is installed under the C drive). For a Windows 2008 X64 operating system, execute the **drvcnsl64 /install C:\RG-SAM\rgac\driver\AMD64\win2008**.

2. If a failure of NTP service installation is prompted during the installation, you need to execute the **NTP_Client.bat** and the **NTP_SERVER.bat** in the NTP subdirectory under the installation directory after the installation is completed.

3. If you have selected to initialize the database, there might be a prompt of initialization failure during the installation. Please click **OK** and manually initialize the database after the installation is complete.

14) The interface after the installation is complete shown in the Figure 1.2.14.



Click **Finish** to finish the SAM+ installation.

After installation, run the RG-SAM. Please refer to the "Starting RG-SAM" section of the Operation Manual of RG-SAM+ Security Accounting Management System.

Upgrading RG-SAM+

You may upgrade previous RG-SAM+ systems to this SAM+ version. See the corresponding release package for details.

Chapter 2 Installing & Uninstalling the RG-SAM+ Service

Click Start>Program>Ruijie Networks>RG-SAM+ Security Accounting Management System (SAM+ Enterprise Edition) to start the RG-SAM+ Service Manager, and the interface of which is shown in the following figure. The program name is shown in the title, below the title are operation menus, and below the menus is the output interface of the program. The administrator is able to check the system condition through the output information. The Service Manager icon is on the right side of the taskbar.





If a software dog is inserted, the RG-SAM+ prompts "Encryption dog or authorization file does not exist, the system automatically quit!" after startup. See the following figure.



Service Manager Service Settings DataBase Settings Maintain Option Type: TDS SQL Server Name: SAMDB0727 Data Connection Pool Address: 127.0.0.1 UserName: sa Max(Set): 120 DataBase Settings Connection Pool Settings Max(Set): 120 DataBase Settings Connection Pool Settings Max(Set): 120 DataBase Settings Connection Pool Settings Max(Set): 120 Doto: Summet: Oppogram.name=run.bat -Xrs -Djava.rmi.server.hostname=192.168.54.188 -Dsam.jms.address=192.168.54.188 - Dcom. sun.net. ssl.enableECC=false -Dprogram.name=run.bat -Duser.timezone=Asia/Shanghai -Xms102/um -Xmx3072m -XX:PermSize=128M -XX:MaxPermSize= 256m -Dsun.rmi.dgc.client.gclnterwal=36000000 -Dsun.rmi.dgc.server.gclnterwal=36000000 -Nuoggc;gc.log -XX: +UseGCLogFileStation -XX: MaxPermSize= 256m -Dsun.rmi.dgc.strint.gdc.server.gclnterwal=3600000 -Susperserver.etestamps -XX:+PrintGCDateStamps -XX:+PrintGCD		🔊 🕨 🖩 🐩 🖢 🛱 🔻 RG-SAM _ = 🗆 🗙							
Type: TDS SQL Serve * Name: SAMDB0727 Address: 127.0.0.1 UserName: sa Initial(Set): 40 ******* Port: 1433 Password ******* Max(Set): 120 DataBase Settings Connection Pool Settings Connection Pool Settings ******* 17:50:51,680 INFO [ServerInfo] OS-System: Windows Server 2008 R2 6.1,amd64 ******* Connection Pool Settings 17:50:51,680 INFO [ServerInfo] VM arguments: -Dprogram.name=run.bat -Xrs -Djava.rmi server.hostname=192.168.54.188 -Dsam.jms.address=192.168.54.188 - * Dcom.sun.net.ssl.enableECC=false -Dprogram.name=run.bat -Duser.timezone=Asia/Shanghai -Xms1024m -Xmx3072m -XX:PermSize=128M -XX:MaxPermSize= 266m -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.server.gcInterval=3600000 -Xloggc:gc.log -XX:+UseGCLogFileRotation -XX:MaxPermSize= 266m -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.ser		Service Manager	iger Service	e Settings	DataBase Setti	ngs	Maintai	n Option	0
Address: 127.0.0.1 UserName: sa Initial(Set): 40 ******* Max(Set): 120 Port: 1433 Password ******* Max(Set): 120 DataBase Settings Connection Pool Settings Connection Pool Settings 17:50:51,680 INFO [Serverinfo] OS-System: Windows Server 2008 R2 6.1,amd64 ****** ****** 17:50:51,680 INFO [Serverinfo] VM arguments: -Dprogram.name=run.bat -Xrs -Djava.rmi.server.hostname=192.168.54.188 -Dsam.jms.address=192.168.54.188 - ****** Dcom.sun.net.ssl.enableECC=false -Dprogram.name=run.bat -Duser.timezone=Asia/Shanghai -Xms1024m -Xmx3072m -XX:PermSize=128M -XX:MaxPermSize= 256m -Dsun.rmi.dgc.client.gcInterval=3600000 -Sungreg.log -XX: +UseGCLogFileRotation -XX:MumberOfGCLogFiles=50 - XX:GCLogFileSize=100k -XX: +PrintGCDataisa -XX: +PrintGCDateStamps -XX:+PrintGCTimeStamps -XX:-PrintTenuringDistribution -XX: ************************************	Type:	JTDS SQL Serve 🔻	Name:	SAMDB0727	Data Conne	ction Pool	ol		
Port: 1433 Password: Max(Set): 120 DataBase Settings Connection Pool Settings 17:50:51,680 INFO [Serverinfo] OS-System: Windows Server 2008 R2 6.1,amd64 ************************************	Addre	ess: 127.0.0.1	UserName:	sa	Initial(Set):	40 🛟			
DataBase Settings Connection Pool Settings 17:50:51,680 INFO [Serverinfo] OS-System: Windows Server 2008 R2 6.1,amd64 17:50:51,680 INFO [Serverinfo] VM arguments: -Dprogram.name=run.bat -Xrs -Djava.rmi.server.hostname=192.168.54.188 -Dsam.jms.address=192.168.54.188 - Dcom.sun.net.ssl.enableECC=false -Dprogram.name=run.bat -Duser.timezone=Asia/Shanghai -Xms1024m -Xmx3072m -XX:PermSize=128M -XX:MaxPermSize= 256m -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.server.gcInterval=3600000 -Noggc:gc.log -XX:+UseGCLogFileRotation -XX:NumberOfGCLogFiles=50 - XX:GCLogFileSize=100k -XX:+PrintGCDetails -XX:+PrintGCDateStamps -XX:+PrintGCTimeStamps -XX:-PrintTenuringDistribution -XX: +HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=heap_dump.bin -Dcom.sun.net.ssl.enableECC=false -Djava.endorsed.dirs=\.NibVendorsed - Djboss.vfs.forceNoCopy=true -Djboss.vfs.forceCopy=false 17:50:51,150 INFO [ProfileServiceBootstrap] Loading profile: ProfileKey@7cf20761[domain=default, server=default, name=default] 2015-08-31 17:51:14.737 2015-08-31 17:51:14.737 SAM service binding IP: 192.168.54.188	Port:	1433	Password:	****	Max(Set):	120			
17:50:51,680 INFO [ServerInfo] OS-System: Windows Server 2008 R2 6.1,amd64 17:50:51,680 INFO [ServerInfo] VM arguments: -Dprogram.name=run.bat -Xrs -Djava.rmi.server.hostname=192.168.54.188 -Dsam.jms.address=192.168.54.188 - Dcom.sun.net.ssl.enableECC=false -Dprogram.name=run.bat -Duser.timezone=Asia/Shanghai -Xms1024m -Xmx3072m -XX:PermSize=128M -XX:MaxPermSize= 256m -Dsun.rmi.dgc.client.gcInterval=3600000 -Dsun.rmi.dgc.server.gcInterval=3600000 -Xloggc:gc.log -XX:+UseGCLogFileRotation -XX:MumberOfGCLogFiles=50 - XX:GCLogFileSize=100k -XX:+PrintGCDetails -XX:+PrintGCDateStamps -XX:+PrintGCTimeStamps -XX:-PrintTenuringDistribution -XX: +HeapDumpOnOutOfMemoryError -XX:HeapDumpPath=heap_dump.bin -Dcom.sun.net.ssl.enableECC=false -Djava.endorsed.dirs=\.\lib\endorsed - Djboss.vfs.forceNoCopy=true -Djboss.vfs.forceCopy=false 17:50:51,159 INFO [IMXKernel] Legacy JMX core initialized 17:50:53,115 INFO [ProfileServiceBootstrap] Loading profile: ProfileKey@7cf20761[domain=default, server=default, name=default] 2015-08-31 17:51:14.737 SAM service binding IP: 192.168.54.188	DataBase Settings			Connection P	ool Settin	ngs			
2015-08-31 17:51:29.907 Self-service System [/selfservice] Startup Succeeded! 2015-08-31 17:51:31:313 Successfully started the authentication server! 2015-08-31 17:51:32 370 Successfully enabled the LDAP regular detection! 2015-08-31 17:51:32 472 Activating SAM compatible component 2015-08-31 17:51:32 478 SAM compatible component has been activated successfully! 2015-08-31 17:51:32.925 The accounting server is initiating 2015-08-31 17:51:32.937 The accounting server is started successfully! 2015-08-31 17:51:35.672 Successfully started the gateway traffic server! 2015-08-31 17:51:35.609 Successfully enabled the daily billing processing! 2015-08-31 17:51:36.677 Successfully enabled the daily billing feature! 8 users are handled in 70 secs. 2015-08-31 17:51:36.73 Encryption dog or authorization file does not exist, the system automatically quit! Shutdown RG-SAM service [2015-08-31 17:51:46]	DataBase Settings Connection Pool Settings 17:50:51.680 INFO [ServerInfo] VM arguments: -Dprogram.name=run.bat -Xrs -Djava.rmi.server.hostname=192.168.54.188 -Dsam.jms.address=192.168.54.188 -Dcam.sun.at.ssl.enableECC=false -Dprogram.name=run.bat -Duser.time.zone=Asia/Shanghai -Xms1024m -Xmx3072m -XX PermSize=128M -XX:MaxPermSize= 256m -Dsau.rmi.dgc.client.gchterwal=3600000 -Dsun.mi.dgc.server.gchterwal=3600000 -XX:HuseGCLogFileRstation -XX:MumberOfGCLogFiles=50 - XX:GCLogFileSize=100k -XX: +PrintGCDatals -XX:+PrintGCDateStamps -XX:+PrintGCTimeStamps -XX:+PrintTenuringDistribution -XX: +HeapDumpOnUt0MemoryError -XX:HeapDumpPath=heap_dump.bin -Dcom.sun.net.ssl.enableECC=false -Djava.endorsed.dtrs=\Vib\vendorsed - Djobss.vk forceNoCopy=false 17:50:51,696 INFO [JMXKemel] Legacy JMX core initialized 17:50:51,696 INFO 17:50:51,696 INFO [JMXKemel] Legacy JMX core initialized 17:50:51,696 INFO [JMXKemel] Legacy JMX core initialized 17:50:51,696 INFO 2015:08-31 17:51:29 a07 Self-service System [/selfservice] Startup Succeeded! 2015:08-31 17:51:29 a07 Self-service [Startup Succeeded! 2015:08-31 17:51:32 370 2015:08-31 17:51:32 370 Successfully enabled the LDAP regular detection! 2015:08-31 17:51:32 478 Activating Server is started successfully! 2015:08-31 17:51:32 925 2015:08-31 17:51:32 925 The accounting server is started successfully! 2015:08-31 17:51:32 651 Manage System (fase) serverl 2015:08-31 17:51:35 651 2015:08-31 17:51:35 809 Successfully enabled the daily billing processing! 2015:08-31 17:51:36 Successfully enabled the daily billing processing! 2015:08-31 17:51:36								



on Please replug the software dog. Under the driver directory under the SAM+ installation root directory, for example, C:\RG-SAM\driver,click the MicroDogInstdrv.exe file.



The following interface is displayed.

🕌 MicroDog and NetDog Windo	ows Driver		
	Current Operating System		
	System Platform:	Windo	ws Vista x64
	System Path:	C:\Win	ndows\system32
	Driver Status		
	The drivers with same v	ersion ha	ve already been installed!
	Driver Installation		Driver Uninstallation
CO//	🔽 USB Dog Driver		🔽 USB Dog Driver
	Parallel Dog Driver		Parallel Dog Driver
Dog Driver	Date of drivers' package:		2009.5.19
📀 Install Driver 🛛 🔶	Uninstall Driver) Chec	k Driver 🔀 Exit

Click Install Driver, and successful driver installation is prompted.

📓 MicroDog and NetDog Windows Driver 📃 🗔 🗙					
	Current Operating System				
	System Platform:	indows Vista x64			
E //	System Path:	\Windows\system32			
	Driver Status				
	The driver has been installed	successfully!			
	Driver Installation	Driver Uninstallation			
CON	USB Dog Driver	USB Dog Driver			
, Ç	Parallel Dog Driver	Parallel Dog Driver			
Dog Driver	Date of drivers' package:	2009.5.19			
🧼 Install Driver 🔶	Uninstall Driver	Check Driver 💢 Exit			

Service Installation

You can install and uninstall services through the **Install Service** menu. The confirmation window for service installation is shown in the following figure. Click **Yes** to finish installation, or otherwise it is cancelled.

Service Manager	×
Are you sure to install th	ne service?
Yes	No

Confirmation box of service installation

After RG-SAM+ services are installed, the **Start Service** and **Uninstall Service** in the operation menus become selectable. Now the administrator can perform further operation (start or uninstall services).



Service installation is the precondition of starting and uninstalling services. If no service is installed on the system (By default, services are installed automatically after the RG-SAM+ system is installed, and the administrator does not need to install manually.), **Start Service** and **Uninstall Service** are disabled. After services are installed successfully, the message as shown in the following figure is prompted.



Confirmation box of successful service installation

You may uninstall services through the **Install Service** menu. The confirmation window for service uninstallation is shown in the following figure. Click **Yes** to finish uninstallation, or otherwise it is cancelled.

Service Manager	×
Are you sure to uninstall th	e service?
Yes	No

Confirmation box of service uninstallation



After services are uninstalled successfully, the message as shown in the following figure is prompted. After uninstallation, the **Start Service** and **Uninstall Service** become unselectable.

RG-SAM Service is not installed,	install it.
	сн 🗴 😈

Confirmation box of successful service uninstallation

Chapter 3 Other Precautions

Solution to Rejection by Digital Signature Scheme During Installation

During the SAM+ system installation, sometimes such error as **File C:\WINDOWS\Installer\filename.msi is rejected by the digital signature scheme** occurs. There are usually two solutions for this.

Running regedit to Modify Registry

Modify the PolicyScope value under the registry entry

HKEY_LOCALMACHINE\Software\Policies\Microsoft\Windows\Safer\CodeIdentifiers from 0 to 1. If there is no such key, you may create one of the DWORD type. Then run net stop msiserver under the cmd. For security, you need to change the key value back after installation.

For convenient use in future, you may create two registry entry files **SetPolicyScope.reg** and **ResetPolicyScope.reg**, open and edit them in Notepad. The content is shown respectively as below (above the dotted lines).

Execute the following registry files before installation:

SetPolicyScope.reg

Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\windows\safer\codeidentifiers]

"PolicyScope"=dword:0000001

Execute the following registry files after installation:

ResetPolicyScope.reg

Windows Registry Editor Version 5.00

[HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\windows\safer\codeidentifiers]

"PolicyScope"=dword:0000000

Modifying Local Security Policy

Enter Control Panel>Administrative Tools.

📴 All Control Par	el Items					
() - 	 Control Panel - All Control Panel Items 	-		▼ 40	Search Control Panel	2
Adjust your co	mputer's settings				View by: Large icons	-
Action	Center	Administrative Tools		AutoPlay		<u> </u>
🛐 Color M	lanagement 🧕	Credential Manager	ť	Date and Time		
Default	Programs	Device Manager	-	Devices and Pri	nters	
Display		Ease of Access Center		Folder Options		
Fonts	- Contraction (Contraction)	Internet Options	e	iSCSI Initiator		
🧼 Keyboa	rd 🧷	Mouse	10 A	Network and Sh	aaring Center	
Notifica	ation Area Icons	Phone and Modem	۱	Power Options		
Frogra	ms and Features	Region and Language	F N	RemoteApp and	d Desktop	

Choose Local Security Policy.

🗟 Administrative Tools						
🕞 🕞 🔹 Control Panel 🔹 All Control Panel Items 🔹 Administrative Tools 🔹 🔹 🖬 Search Administrative Tools						
Organize 🔻 💽 Open						
Favorites	Name *	Date modified	Туре	Size		
🧮 Desktop	鷆 Remote Desktop Services	7/14/2009 12:58 PM	File folder			
Downloads	🔊 Component Services	7/14/2009 12:58 PM	Shortcut	2 KB		
🔤 Recent Places	🛃 Computer Management	7/14/2009 12:57 PM	Shortcut	2 KB		
📇 Libraries	🏹 Data Sources (ODBC)	7/14/2009 12:57 PM	Shortcut	2 KB		
Documents	💦 Event Viewer	7/14/2009 12:58 PM	Shortcut	2 KB		
J Music	房 iSCSI Initiator	7/14/2009 12:57 PM	Shortcut	2 KB		
Sectores	👼 Local Security Policy	7/14/2009 12:58 PM	Shortcut	2 KB		
Videos	Performance Monitor	7/14/2009 12:57 PM	Shortcut	2 KB		
	👼 Security Configuration Wizard	7/14/2009 12:58 PM	Shortcut	2 KB		
New York (Col)	🛃 Server Manager	7/14/2009 12:58 PM	Shortcut	2 KB		
Local Disk (D;)	😹 Services	7/14/2009 12:57 PM	Shortcut	2 KB		
indows server 20	📷 Share and Storage Management	7/14/2009 12:58 PM	Shortcut	2 KB		
新加卷 (F:)	P Storage Explorer	7/14/2009 12:58 PM	Shortcut	2 KB		
🖵 C on R02552	🛃 System Configuration	7/14/2009 12:57 PM	Shortcut	2 KB		
P 0 on R02552	😰 Task Scheduler	7/14/2009 12:58 PM	Shortcut	2 KB		
E on R02552	🔝 Windows Firewall with Advanced Security	7/14/2009 12:57 PM	Shortcut	2 KB		

Click Software Registration Policies> New Software Restriction Policies.

💺 Local Security Policy		_ 🗆 ×
File Action View Help		
🗇 🄿 🙍 📊 👔 🖬		
Security Settings Account Policies Windows Firewall with Advanced Security Network List Manager Policies Public Key Policies Software Restriction Policies Application Contr Application Contr New Software Restriction Policies Application Contr Advanced Audit Help	No Software Restriction Policies Defined Software restriction policies are not defined in this Group Policy object. If you define software restriction policies in this Group Policy object, they will override inherited policy settings from other Group Policy objects. tware restriction policies, in the Action menu, click New Software Restriction Policies. titially creating software restriction policies, a reboot is required before they will be	

Double click Enforcement.



The following window is prompted.



Click OK.

After modification, run cmd and execute the net stop msiserver command before installation.

Chapter 4 Establishing and Initializing SQL Database

Here we take the **SQL Server 2008** for an example. The initialization of the **SQL Server 2012** is the same as that of the **SQL Server 2008**.

Take the following steps to initialize the database.

1) Click Start>All Programs>Microsoft SQL Server 2008>SQL Server Management Studio, and a dialog box is shown in the following figure.

🛃 Connect to Server	×			
SQL Server 2008 R2				
Server type:	Database Engine			
Server name:	WIN-HOURJMN07GH			
Authentication:	SQL Server Authentication			
Login:	sa			
Password:	*****			
	Remember password			
Connect	Cancel Help Options >>			

2) Log in with the username **sa** and create a database in the local database server, for example, SAMDB (recommended).



A database name must contain English letters and Arabic numerals, and symbols like ".", "_" and "-" are not allowed. The database files must be stored on the NTFS partition of a non-system drive with at least 200G space.

K Microsoft SQ	DL Server Management Studio
File Edit Vie	iew Query Project Debug Tools Window Community Help
🔛 New Query	🗅 🔁 🔁 🕒 🐸 🖃 🕘 🚳 🖕
i 💷 🙀 mast	:er 🔹 🚽 🕴 Execute 🕨 🔲 🗸 👯 🗐 🔚 📰 🦉 🏹 🏹 🏣 😫 🛊
Object Explorer Connect • WIN-HOL • • • • • • • • • •	SQLQuery2.sqlaster (sa (58)) SQLQuery1.sqlaster (sa (55)) New Database Attach Restore Database Attach Restore Files and Filegroups Start PowerShell Reports Refresh



Select a page General Options Filegroups Connection Server: WINTUR IMMOZCU	ript - The Help abase name: her: Use full-text indexing abase files: gical Name File Type MDB Rows MDB Log Log	SAMDB (default)		
General Poptions Filegroups Data Owr ✓ Connection Server: VALUER IMMOZCU	abase name: ner: Use full-text indexing abase files: gical Name File Typ MDB Rows MDB Rows	SAMDB <default></default>		
Connection Server:	gical Name File Typ MDB Rows MDB_log Log	e Filegroup	Luxiel Circ (MD)	
Connection Server:	MDB Rows MDB_log Log	e niegroup		Autograwth
Connection Server:	MDB_log Log	PRIMARY	3	By 1 MB, uprestricted growth
Connection Server:		Not Applicable	1	By 10 percent, unrestricted growth
Connection: sa View connection properties Progress Ready				Add Remove

3) After establishing the database, create a query. Click File >Open, choose SQL initialization script, which is initdb.sql (in the initdb folder under the RG-SAM+ installation directory) in this example. The actual script name is the file name under the directory.

🕌 initdb						
	(initdb		💌 🚱 Sea	arch initdb		2
Organize 🔻 Include in libr	ary 🔻 Share with 👻 New folder				 -	•
🔒 classes 🔺	Name *	Date modified	Туре	Size		
config Crack dat DetectionResults ebcdic ejbcomponent help include .	µµ È µ} samupv1.0 ⊫} initdb	7/31/2015 6:34 PM 7/31/2015 6:34 PM 7/31/2015 6:35 PM	File folder File folder Microsoft SQL Serv	1,426 KB		

4) After opening the script (as shown in the following figure), select **Query** >**Execute** to finish initialization.



Precautions

The initialization script automatically limits memory for the database according to the following rules.

- For the recommended configuration (of more than 8G physical memory), enable Use AWE to allocate memory, set the Minimum Server Memory to 3GB and the Maximum Server Memory to -3GB (the maximum memory).
- For the recommended configuration (of 8G physical memory), enable UseAWE to allocate memory, set the Minimum Server Memory to 3GB and the Maximum Server Memory to 5GB.
- For the lowest configuration (of 4G physical memory), enable UseAWE to allocate memory, set the Minimum Server Memory to 1GB and the Maximum Server Memory to 2GB.



After executing the initialization script, make sure to restart the database so that the memory limitation will take effect.



If Use AWE to allocate memory does not take effect after restarting the database, please enter the Properties of the SQL Server as shown in the following figure.

Nicrosoft SQL S	erver Management Studio	
File Edit View	Query Project Debug Tools V	Winc
🗄 🔔 New Query 📗) 🔁 🔁 🧏 🖓 🔁 🛃	
SAMDB	👻 🣍 Execute 🔰	
Object Explorer	- ∓ X ∕in	itdt
Connect 🕶 📑 📑	- Y S	de
🖃 🐻 WIN-HOU <u>r jn</u>	4NO7GH (SOL Server 10.50.2500	IF
🖃 🚞 Datat	Connect	BE
	Disconnect	F
	Register	
± 1	New Overv	-
E 📮	New Query	_
± _	Activity Monitor	
± _	Start	
± 📮	Stop	
	Pause	IN
🕀 🥫 🗖	Resume	EN
🕀 📃 S.	Restart	Be
		-
± 5.	Deploy Data-tier Application	ве
🕀 🚞 Secur	Policies +	Be
⊕ Serve	Facets	Be
🛨 🛄 Repliq	Start DowerShell	Be
E B SQL S	Start PowerShell	ве
	Reports >	
	Refresh	DE
	Properties	DE

Set the database memory limit and restart the database.

🚪 Server Properties - WIN-HO	URJMN07GH
Select a page	🖳 Script 👻 📑 Help
General Memory Processors Connections Database Settings Advanced Permissions	Server memory options Use AWE to allocate memory Minimum server memory (in MB): 0 * Maximum server memory (in MB): 512 *
Connection Server: WIN-HOURJMN07GH Connection: WIN-HOURJMN07GH\Administra IView connection properties Progress Ready	Other memory options Index creation memory (in KB, 0 = dynamic memory): Image:
	OK Cancel