

Upgrade Guide

About This Document

This document guides you through updating from QAComplete Release 11.0 or 11.1 to Release 11.2.

Instructions are based on a standard installation, using all default settings.

Please review all instructions carefully before proceeding. If you have any questions, contact our support team PRIOR to proceeding with the upgrade.

NOTE: All references to "SoftwarePlanner" refer to engine and database that support QAComplete.

Please review and follow all instructions carefully.

Contacting Support

To contact the QAComplete Customer Care team, please submit your request on the Contact Customer Care form on our web site (http://smartbear.com/support/product-list/choice?prod=ALMComplete).

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Prerequisites

Please ensure the following prerequisites are met prior to performing the upgrade.

Schedule the Upgrade During a Quiet Time

Make sure all users are logged off, because critical services will be stopped and restarted during the upgrade process.

Perform All Tasks as an Administrator

Perform the upgrade on the application server as a member of the local Administrators group. This will ensure that services can be created, file system permissions can be set and properties for various objects can be configured as needed when the upgrade is applied. The account should also be able to connect to the SQL Server instance where SoftwarePlanner databases are hosted with full sys admin rights to ensure database updates are applied successfully

Confirm 2008/2012 Windows Server Operating System and SQL Server

Release 11.2 is supported on Windows Server operating system and SQL Server versions 2008, 2012, or 2014. If the server hosting the application is running an earlier OS or SQL Server, **STOP** and contact Customer Care immediately. You must migrate the system to a server running Windows Server 2008 or 2012 before you upgrade.

Open Port 3831

The product includes the **qacNotification** component that the product's Test Runner uses for communication. The component uses port **3831**. Make sure that your Firewall allows traffic through that port.

Take a Complete Database & System Backup

Be sure to back up your web server and SoftwarePlanner database. Information about backing up a database can be found here:

http://msdn.microsoft.com/en-us/library/ms187510(v=sql.105).aspx

The update instructions include a step for backing up the application file system, but to be absolutely safe, perform your routine full system backup before applying the upgrade.

Verify Current Version

Go to the Setup tab and verify your version is listed in the table below:

Release	11.0	11.1	11.2
Version	11.0	11.1	11.2
Build	11.0.101 or 11.0.102	11.1.244 or 11.1.269	11.2.348
AppCode	agSPEnt	agSPEnt	agSPEnt

If you do not see exactly these values, **STOP**. This release can only be applied to the builds above.

Upgrade Procedure

Preparing Application Server

Release 11.2 includes only an installation executable. Follow the link below to download this file to your application server.

11.2 Installation Utility

Before starting the upgrade, ensure all users are logged off before applying the upgrade. Then, open a command prompt and issue an isreset command on the application server to terminate any open connection to the server.

Back Up Your Data

To avoid possible issues, please create a full backup of your data:

- The SoftwarePlanner database,
- The HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Pragmatic Software registry key,
- The FileExchange IIS application (located in the C:\inetpub\wwwroot\FileExchange directory by default).

Note: If you installed FileExchange to a non-default location, please manually specify the actual FileExchange installation path in these values in the Windows registry after the upgrade:

- HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Pragmatic Software\agSPEnt\FDir,
- KEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Pragmatic Software\Server Information\FDir.
- Note: If you use custom Crystal Reports, make sure to also create the backup of the C:\inetpub\wwwroot\Common\Reports\agSPEnt\CrystalReports directory.

<u>ATTENTION</u>: In order to improve the process of updating your QAComplete instance in the future, we have changed the procedure for this release. We realize that these one-time additional steps in the process will make this update take a little longer than normal, but this investment will allow future updates to be quicker and easier to manage for you. Thank you for your patience, and as always please reach out to us with any questions.

Automatic Upgrade

The automatic upgrade is available **only** if you have **QAComplete 11.0 installed from scratch**, or **one of the builds of the 11.1** version.

If you have QAC omplete upgraded to version 11.0 from an earlier version, you will have to upgrade it **manually**. See the *Manual Upgrade* section below.

On your application server, open Windows Explorer and navigate to the directory to which you have downloaded the installation executable. Double-click it and follow the wizard instructions.

Note: During the installation, all components of your previous QAC omplete installation will be removed automatically. Your database and user data will be preserved.

Manual Upgrade

If you have QAComplete 11.0 upgraded from an earlier version, upgrade your QAComplete version manually.

Removing Previous Installation

Before upgrading to QAC omplete 11.2, remove components and files from the previous installation mentioned below.

Note: Some of the entities mentioned below may not appear on your application server since they are the <u>legacy components</u> of previous QAComplete versions.

- 1. On your application server, open the Windows Explorer and go to <QAComplete Installation Directory>/swpRegistryConfigurationTool. Run the swpRegistryConfigurationTool application.
- 2. Here, copy your SQL passwords stored in the **psUser**, **psDataWriter**, **psSysReader** fields and save a copy of them somewhere else.

SoftwarePlanne	r registry configuration to	ol		? ×
AppCode agSF	Ent]		
Database SMTP	Batch Jobs Load Balancing	Path Crystal Reports	Other	
SQL Server\Instanc	e: 127.0.0.1			
SQL Passwords		Database Names		
psUser	Qq123456	SoftwarePlanner DB:	SoftwarePlanner	
psD ataWriter	Qq123456	Session DB:	SoftwarePlannerSession	_
psSysReader	Qq123456	Session DB Timeout:	10 🛨	
Common Connectio	n String:			
provider=SQLOLEI catalog=SoftwareF	08.1;network address=127.0.0. 'lanner;connect timeout=30	1;userid=psUser;pwd=Qq	123456;initial	4
Data Writer Connec	stion String:			
provider=SQLOLEI catalog=SoftwareF	0B.1;network.address=127.0.0. flanner;connect.timeout=30	1;user id=psDataWriter;pv	vd=Qq123456;initial	*
Sys Reader Connec	stion String:			
provider=SQLOLEI catalog=SoftwareF	08.1;network address=127.0.0. fanner;connect timeout=30	1;userid=psSysReader;pv	vd=Qq123456;initial	4
Taul DD Causard		0. 1 4		1
Test DB Connect	JUNS	UK A	July Lancel	neip

3. If you use a Master Password, make a copy of it. You can retrieve it from the registry if you have forgotten it. If the password is missing from the registry, you can change it.

Note: If you are not sure whether you use the Master Password or not, you may use the Password Encryptor to find it out.

- Go to the swpPasswordEncryptor directory of your QAComplete
 installation.
- Run the EncryptPersonsInfo application as an administrator.
- Type in your server name and database name (*SoftwarePlanner* for the latter). If you do not use Windows Authentication, also type your login and password.
- Check the **Old Password** field. If there is a value available, then the Master Password was set before.

You can also try to connect with the existing Master password. Click **Test** to do this.

 If the password you get in the **Password** field is plain text, then the specified Master Password is correct.

-	Encrypt F	Persons Info				
Connection Info						
Sever Name	Sever Name ((ocal)					
Use Windows A	uthentication?					
Login Password	The stored Master Password]				
Old Password	•••••	Click to see if New Master Password is correct				
User Id 24661		Test				
Userld	Password	Email				
► 24661	123	Admin@e-mail.com				
The	password is not end	crypted				
Encrypt Passwords						
	Start					
Encrypt LDAP Pass	Encrypt LDAP Passwords					
	Start					

- If that password is encrypted, you need to set up another Master Password.
- To retrieve the password: Open the Windows registry, then find your Master Password value under the HKEY_LOCAL_ MACHINE/SOFTWARE/Wow6432Node/Pragmatic Software/Server Information/Master Password key.
- To change the password:
 - 1. Run the EncryptPersonsInfo application and set it up as described above.
 - 2. Type the new password in the New Password field.
 - 3. Click **Start** under the **Encrypt Passwords** progress bar.

📰 Encrypt Persons Info
Connection Info
Sever Name (local)
Database Name SoftwarePlanner
☑ Use Windows Authentication?
Login Type your new password
Password Password
Old Password
UserId 24661 Test
UserId Password Email Click to test the connection
Encrypt Passwords Click to encrypt the new password
Start
Encrypt LDAP Passwords
Start

If the password has been changed successfully, you will see a notification dialog.

🖶 Encrypt Persons	Info 📃 🗆 🗙
Connection Info	
Sever Name	(local)
Database Name	SoftwarePlanner
🔽 Use Windows	Authentication?
Login	
Password	
Uld Password Test User Id 24661	New Password
Encrypt Password	Password OK X 123 Passwords Encryption - OK Is (21 of 21)
Encrypt LDAP Pa	
	Start

- 4. If you use LDAP passwords, also click **Start** under the **Encrypt LDAP Passwords** progress bar.
- 5. Restart your IIS application to apply changes.
- 6. Save a copy of your Master Password somewhere else.
- 4. Open the **Services** console and stop *AQAServiceManager* and *Escalation Rule Executer* services. Then, open the Task Manager and stop all *psBatchJobs.exe* *32 processes under the Processes tab.
- 5. Go to <QAComplete Installation Directory>/Bin and run the unreg_ps_DLLs.bat batch file as an

administrator.

Note: If you cannot find the batch file in the installation directory, go to C:\Windows\SysWOW64___ Pragmatic and run unreg_ps_DLLs.bat from here.

- 6. Go to **Control Panel | Programs and Features** and uninstall all QAC omplete components manually. Please check the application list below to be sure you did not miss anything:
 - ActiveDirectoryAuthenticationLib,
 - Escalation Rule Executer Service,
 - FileExchange,
 - qacReportEngine,
 - ServiceManager,
 - SmartBear QAComplete,
 - SoftwarePlanner,
 - SoftwarePlanner Common Library,
 - SoftwarePlanner Database setup,
 - SoftwarePlanner Update Utility,
 - SoftwarePlanner Web Service,
 - swpCRWrapper,
 - swpCrystalReports,
 - swpPasswordEncryptor,
 - swpRestAPI.
- 7. Delete all remaining QAComplete files in these directories (you may need to enable the "Show Hidden
- Files" option):
 - C:\Program Files (x86)\SmartBear (the default QAComplete installation location)
 - C:\Windows\SysWow64__New
 - C:\Windows\SysWow64__Pragmatic
 - C:\inetpub\wwwroot (the default website files location): *Common, psWS, swpCrystalReports, rest-api* folders, all ASP, TXT, and CONFIG files. Check the following screenshot to be sure you have not missed anything:

🕌 wwwroot					
GOV 🖟 • Compute	r 🔹 Local Disk (C:) 🔹 inetpub 👻 www.root 👻	👻 🛃 Se	arch wwwroot		P
Organize 🔻 Include in libr	rary 🔻 Share with 👻 New folder			= -	
★ Favorites	Name *	Date modified	Туре	Size	
🧮 Desktop	aspnet_client	6/17/2014 5:57 AM	File folder		
Downloads		6/18/2014 1:32 AM	File folder		
🕍 Recent Places	🥏 iisstart	6/18/2014 3:48 AM	HTML Document	:	2 KB
↓ Libraries ↓ Documents ↓ Music ➡ Pictures ➡ Subversion ➡ Videos ↓ Computer ▲ Local Disk (C:)	Nelcome	6/17/2014 5:55 AM	PNG image	18	1 KB
4 items	-				

8. Remove the following QAComplete applications from the IIS Console DefaultWebSite directory:

- swpCrystalReports,
- qacReportEngine,
- psWS,
- rest-api,
- FileExchange,
- Common.

Your IIS screen should look like this:



9. Delete the HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Pragmatic Software and the HKEY_LOCAL_MACHINE\SOFTWARE\Pragmatic Software registry keys.

Installing the Application

- 1. Go to the directory containing the QAC omplete installation executable, and run this executable.
- 2. Install Microsoft .NET Framework 4.5.2, if needed. Download and installation routines will be performed automatically. Your server will be restarted after the framework installation.
- 3. Read the terms of the End User License Agreement. If you agree with them, select I accept the terms of the license agreement and click Next.

martBear QAComplete - InstallShield Wizard	
License Agreement Please read the following license agreement carefully.	
SmartBear End User License Agreement	•
This End User License Agreement (" <u>EULA</u> ") is a legal agreement between you and SmartBear Software Inc., a Delaware corporati with its principal place of business at 450 Artisan Way, Somervil MA 02145 (together with its Affiliates and their licenso " <u>SmartBear</u> "), that governs your acquisition and use of or proprietary Software directly from SmartBear or indirectly throug SmartBear authorized reseller or distributor (a " <u>Reseller</u> "). Plea	ent on Ie, irs, our h a ase y
I accept the terms of the license agreement Pri I do not accept the terms of the license agreement	nt
C I do not accept the terms of the license agreement stallShield < <u>Back</u> < <u>N</u> ext > C	ancel

4. Select Connect to an existing database.

SmartBear QAComplete - InstallShield Wiza	ard 🛛 🔀
Set Up QAComplete Database	
QAComplete stores data in a SQL Server data Select what database you will use with your O	abase.)AComplete instance:
C Create a new database	
 Connect to an existing database 	
T - I - Ref I I	
Instanomeru -	
	< <u>B</u> ack <u>N</u> ext > Cancel

5. Type in your database server address. You can also click **Browse** to select a server from your local area network.

SmartBear QAComplete - InstallShield Wi	zard		×
Connect to an Existing Database		1	
Specify the server, where your QAComplete	e database is local	ted:	
Database server:			
(local)			•
			Browse
InstallShield			
	< <u>B</u> ack	Next >	Cancel

6. Type in the **psUser**, **psDataWriter**, and **psSysReader** passwords you have saved before. You will be notified if any of them is incorrect.

Specify Database Account Passwords	
•	
QAComplete uses several SQL Server accou	unts to work with the database. Enter their
passwords below. If you do not remember these passwords, you	u can find them with the Configuration tool.
· · · · · · · · · · · · · · · · · · ·	
Read-only requests account (pol loar):	
Tread only requests account (pso ser).	,
Read/write requests account (psDataWriter)	⊨ •••••• •
System read/write requests account (psSysF	Reader):
	Help

7. If you use the Master Password, select **QAComplete used the following encryption key** and type it in the field.

martBear QAComplete - InstallShield Wiza	rd		
Specify the Encryption Key for Sensitive I)ata	/	
		-	
Enter the key that your QAComplete instance passwords and emails.	used for encrypti	ng personal da	ta like
C No encryption was used			
QAComplete used the following encryption	123 key:		
If you do not remember the key, find it wi	th the Password E	ncryptor.	Help
stalbheid			
	< <u>B</u> ack	<u>N</u> ext >	Cancel

- 8. Specify your default From address.
- 9. Specify an installation directory.

Note: We highly recommend using a default installation directory.

The remaining steps of the installation process will be performed automatically. QAComplete will be installed to the default location of the default website.

Please restart the application server after the installation to avoid any possible issues.

Do not forget to check if the upgrade was successful. To learn how to do this, see Upgrade Validation.

Upgrade Procedure for Legacy Versions

If you use a **legacy** version of QAC omplete (a version **prior to 10.2**), you have to upgrade your version to 11.0 before you can upgrade it to version 11.2.

We recommend that you contact our Support Team for assistance:

https://support.smartbear.com/message/?prod=ALMComplete

After you upgrade your QAC omplete version to version 11.0, follow the Manual Upgrade instruction to upgrade it to version 11.2.

Upgrade Validation

You can do a few simple things to validate the upgrade.

Check the Version and Build: Log in to the application and select the Setup (gear) icon. You should see Version 11.2 and Build 11.2.370.

Setup and Administrat	lion
Welcome to the setup and admin access the area you wish to adm	istration area. From here, you can set system options and preferences for the software. Use the table of contents to inister.
Version:	11.2
Build:	11.2.370
AppCode:	agSPEnt
Edition:	QAComplete
Current Projects:	40
Maximum Projects:	Unlimited
Current Users:	85
Maximum Users:	Unlimited
Number of Licenses:	99 concurrent

 Verify Permissions for Security Administrators: While logged in to the application, select the Setup icon (gear) and go to Security > Security Groups in the left side navigation panel. Click on the Manage Security Rights icon for your Security Administrator's group. Ensure that Full Access is checked, so that your Security Administrators have permission to all features.

IMPORTANT: Always have at least one user in a Security Administrator group will full permissions to all features.

- 3. Check Email Delivery: Navigate to any module (Defects, Requirements, etc.), select the Show option. Click the email icon (yellow envelope) next to a record and send yourself an email. Verify the email arrives in your inbox.
- 4. Check Email Alerts: Update a record that will trigger an email alert for you. Verify the email arrives in your inbox (this may take up to 10 minutes for the alert to be sent).
- 5. Check the Web Service: Log in to your application server and go to the Web Service page:

http://localhost/psWS/psWS.asmx

Service					
The following operations are supported. For a formal definition, please review the Service Description.					
<u>Attachments Add</u>					
<u>Attachments Delete</u>					
<u>Attachments GetAttachment</u>					
<u>Attachments GetAttachmentsList</u>					
• <u>Audits Add</u>					
Audits LoadElevated					
AutomationHosts_Add					
AutomationHosts_Delete					
AutomationHosts Load					
AutomationHosts LoadByCriteria					
AutomationHosts Update					
<u>AutomationRuns_Add</u>					
<u>AutomationRuns_Delete</u>					
<u>AutomationRuns_Load</u>					
AutomationRuns LoadByCriteria					
AutomationRuns Update					
AutomationSchedules Add					
<u>AutomationSchedules Delete</u>					
<u>AutomationSchedules IsTestsByTimeSpanExist</u>					
<u>AutomationSchedules Load</u>					
AutomationSchedules LoadByCriteria					
<u>AutomationSchedules_LoadTestsByTimeSpan</u>					
<u>AutomationSchedules_Update</u>					
AutomationTestItems_Add					
Scroll down and click the GetLoginInfo method.					

🗧 Service Web Service - Windows Internet Explorer						
€ € €	http://localhost:8080/psws/psws.asmx?op=GetLoginInfo 🔎 🔄 🔄 🎸 🔀 🎯 Service Web Service 🗙					
Service						
Click <u>here</u> for	a complete list of operations.					
GetLoginInfo						
Test						
To test the	operation using the HTTP POST protocol, click the 'Invoke' button.					
Parameter	Value					
AppCode:						
Email:						
Password:						
	Invoke					
SOAP 1.1						
The followin	g is a sample SOAP 1.1 request and response. The placeholders shown need to be replaced with actual values.					
POST /ps	sws/psws.asmx HTTP/1.1					
Content- Content-	-Type: text/xml; charset=utf-8 -Length: length					

Enter the AppCode agSPEnt, and the email and password you use to log in to the application. Click Invoke.

The Web Service will return an XML document with your ${\bf Userld}, {\bf AppCode}, {\bf Projld}$ and ${\bf Deptld}:$

xml version="1.0" encoding="UTF-8"? - <logininfo <br="" xmlns="http://www.pragmaticsw.com/" xmlns:xsd="http://www.w3.org/2001/XMLSchema">ymlns:ysi="http://www.w3.org/2001/XMLSchema-instance"></logininfo>
<pre>serid \$24661 </pre>
<appcode>adspent</appcode>
<projid>11873</projid>
<deptid>8162</deptid>
- <projects></projects>
- <project></project>
<deptid>8162</deptid>
<deptname>NotProvided</deptname>
<projid>11873</projid>
<projname>Sample Project</projname>

6. Check the Rest-SPI Service: Open a browser on your application server and enter the following URL: http://localhost/rest-api/service

StarterTemplate ASP.NET Host										
The following operations are supported. For a formal definition, please review the Service XSD.										
Operations:										
RequestDeptsAll XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestHostById XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestHostByName XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestHostPatch XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestHostPost XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestHostPut XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunItemLogBin XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunItemLogBinV2 XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunItemLogHtml XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunItemPatch XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunItemPatchV2 XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunItemPut XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunItemScript XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunPatch XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunPut XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunsAll XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
RequestRunsAllV2 XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
ResourceRequest XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
Resources XM	JSON	JSV	CSV	SOAP 1.1	SOAP 1.2					
Clients Overview -										

QAComplete - JIRA Connector

If you are interested in using the new QAComplete - JIRA Connector to synchronize QAComplete items with JIRA issues, please see Integration with JIRA for installation and configuration instructions.

Install Updated Test Agent

If you use the Test Agent for Test Management or other automated tool integration, please install the updated version: About Automated Tests.

Technical Support and Resources

If you have questions, problems, or need assistance with QAC omplete, you can either contact our **Customer Care Team**, or try to search for the needed information using the help resources on our web site.

Contacting the Customer Care Team

Please submit your request on the <u>Contact Customer Care</u> form on our web site (https://support.smartbear.com/message/?prod=ALMComplete).

More Resources

QAComplete Documentation http://support.smartbear.com/qacomplete/docs/default.htm Video Tours & Demos https://support.smartbear.com/screencasts/gacomplete/ SmartBear Community Forums http://community.smartbear.com/ **Technical Articles** http://support.smartbear.com/articles/almcomplete/ What's New This Release http://support.smartbear.com/qacomplete/docs/default.htm#WhatsNew/WhatsNewforUserGuide.htm **QAComplete Web Service API** http://support.smartbear.com/viewarticle/66788/ **QAComplete Data Dictionary** http://support.smartbear.com/viewarticle/66042/ **Test Automation** http://support.smartbear.com/qacomplete/docs/default.htm#UsersGuide_SP/About Automated Tests.htm

JIRA Connector (integration with JIRA)

http://support.smartbear.com/qacomplete/docs/default.htm#UsersGuide_SP/JIRA Integration/Integration With JIRA.htm

Maintenance Recommendations

Several factors will impact and determine how best to install and maintain the SQL Server instance hosting the QAC omplete databases (named SoftwarePlanner). Here are just a few of them:

- The number of users who will be working in QAComplete on a given day.
- The presence of other databases on the servers.
- Your company's network policy.
- The physical resources upon which the SQL Server instance will reside.

The databases themselves can be maintained differently due to the data they store:

- The SoftwarePlanner database is the primary database of the application. This database includes all QAComplete data, traceability, security permissions, and other settings.
 You should implement a backup strategy that best meets your organizations expectations regarding data loss for this critical database.
- The **SoftwarePlannerWS** database stores Performance Logs and Database Logs each time the psWS web service is invoked. A nightly differential backup for this database may be sufficient, but this should be determined by your internal organization. Since this data is historical, quotas and a job could be used to "flush" the data when the database reaches a certain size.
- The SoftwarePlannerSession database primarily stores end user session specific information that is temporal in nature. It also includes a VersionLogs table and BaseCodes table which rarely change but could be updated in an upgrade.

Since a majority of the data in this database is temporal, the size of this database remains fairly consistent. Typically, you would backup this database each time the main SoftwarePlanner backup is performed, so that in the event of a failure of the system, you have a common restore point for both.

What Backup Approach to Use

Every client, every environment has unique characteristics which can impact what kind of backup strategy you implement. It is difficult to provide a specific detailed set of recommendations that would work in large and small companies throughout the world. Instead, we can point you to the resources which we believe can help you develop best practices for your organization:

Microsoft SQL Server 2008 R2 Best Practices Analyzer:

https://www.microsoft.com/en-us/download/details.aspx?id=15289

This is a tool that your SQL Server administrator can download and run on the server to analyze how the software is installed and configured, identify differences in the configuration from Microsoft recommendations, and provide options for resolving those differences.

Monitoring and Tuning for Performance:

https://technet.microsoft.com/en-us/library/ms189081(v=sql.100).aspx

This Technet article provides guidance for tuning an SQL Server performance.

DBCC Commands:

https://technet.microsoft.com/en-us/library/aa258281(v=sql.80).aspx

This is a list of commands that can be run to check the integrity of various database objects. These can be scheduled by your SQL Server administrator to be executed on a routine basis to ensure the health of your databases.

Backing Up and Restoring Databases in SQL Server:

https://technet.microsoft.com/en-us/library/ms187048(v=sql.100).aspx

This provides an overview of the different strategies you can implement to ensure your data is protected.

Also, we recommend checking out our **Community page**, where you may be able to get an idea how other clients have implemented a backup strategy.

If, after reviewing the information above, you feel you need additional help, professional guidance and services are available via a third-party consulting group. Please contact our Customer Care Team, if you are interested.