IBMP Installation manual دليل التثبيت لمنظومة بنوك الأسئلة

IBNP Item Bank Management Platform

Enterprise Edition

IBMP Installation Manual

Enterprise Edition

Brought to you by AGI

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Advanced Group for Information Technology (AGI)



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Introduction

This manual is designed by the Advanced Group for Information Technology (AGI) for the admins of the Item Banking Management Platform (IBMP) ©. The manual contains all information for users required to install the IBMP. However, AGI offers a free of charge installation-and-usage training after purchasing any Professional or Enterprise Edition.

We tried to design this manual to be easily used by users. For ease of use, the chapters of these manual is aligned with the steps of standard workflow in item banking.

To know more about AGI and IBMP ©, please continue reading the following sections in the introduction, otherwise, you can go start with installation guide.

For more information, please email: contact@agiteq.com.

1.1 About AGI

Advanced Group of Information Technology (AGI) is a global information technology & educational services company. AGI delivers powerful techniques and advanced technologies in IT services in many fields and areas. In the field of educational assessment, AGI has many contributions such as <u>Item-Banking Online Platform</u>, <u>Online Testing Gate</u>, <u>STATEQ</u>, <u>IAMP</u>, etc. One of the major advantages of AGI systems are that they are built based on add-ons modules integrate in a sense to form one huge electronic platform for educational assessments. AGI also supports <u>building capacity</u> as one of the most effective strategies to maximize productivity, manage change and build self-confidence towards organizations' success. AGI offers extensive training services for organizations and institutes. Moreover, AGI offers <u>consultation</u> that demands skilled resources and a proven best-practice methodology to optimize costs, reduce risks, and achieve a faster return on investment. AGI offers the outsourcing service for companies to ensure that their internal resources are freed up for more mission-critical activities and AGI experience is translated into greater operational efficiencies within companies' processes and products.

1.2 About IBMP

IBMP is a comprehensive easy-to-use item banking software that supports item banking, item authoring, reviewing and test assembly via collaborative client/server application. It should be designed to be used by test developers on either organizational or national setting to facilitate item banking main processes. However, it designed with a package of features created specifically to make item development and test development easier, faster and more



cost effective.

The platform is flexible, efficient and reliable that enables management of the following processes: assessment framework creation, test blueprint design, item storage, item creation, editing, change tracking, smart item search and remote item writing as well. It also provides automation of test forms assembly in terms of the stored test blueprint or specified criteria.

The platform uses recent software development technologies and it supports the most recent measurement theories, such as Item Response Theory (IRT), that enriches the processes of item selection and test assembly with the highest validity, precision, and reliability.

The platform is a module-based platform that is fully integrated and supports single login authentication for all modules. It also supports online testing delivery (e-testing management).



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IBMP Installation

2.1 Application Installation

- 1. Go to E:\, create a folder named IIB.
- 2. Copy entire CD into the created folder.
- 3. Install Internet Information Services

Go to Start \rightarrow Control Panel \rightarrow Programs and Features \rightarrow Turn windows feature on or off \rightarrow Roles \rightarrow Add Role.

Select **Web Server (IIS)** then press **Next** button and install with default configuration.





4. Go to Start → Control Panel → Administrative Tools → Internet Information Services (IIS) Manager.

Expand to **Default Web Site**.

In the right menu choose **Basic Settings**.



5. Press the browse button (...).

Edit Site		? ×
<u>S</u> ite name: Default Web Site	Application pool: DefaultAppPool	S <u>e</u> lect
<u>P</u> hysical path: %SystemDrive%\inetpub\wwwroot Pass-through authentication		
<u>C</u> onnect as Test Settings	. ОК	Cancel



6. Browse for the application folder **E:\IIB\Application** then press **OK** button.

Browse For Folder	×
Select a directory for the application.	
🛛 🖟 guc	^
4 🖳 Computer	
🛛 🏭 System (C:)	
🖻 🧰 Data (D:)	
a 🧰 New Volume (E:)	
⊿ 퉬 IB	
Application	E
DVD RW Drive (F:)	
🛛 🗣 Network	
Description Panel	
Recycle Bin	
	· ·
Make New Folder OK C	ancel

7. Press **OK** button.

Edit Site		? ×
<u>S</u> ite name:	App <u>l</u> ication pool:	
Default Web Site	DefaultAppPool	S <u>e</u> lect
Physical path: E:\IIB\Application		
Pass-through authentication Connect as Test Settings.	•	
	OK	Cancel



2.2 SQL Server Installation

1. Run SQL Server setup, form the following screen choose Installation





2. From the following screen, choose New SQL Server stand-alone installation or add features to an existing installation.





3. Check that testing passed then press **Ok** button.

😭 SQL Server 2012 Setup						
Setup Support Rules						
Setup Support Rules identify pro corrected before Setup can cont	Setup Support Rules identify problems that might occur when you install SQL Server Setup support files. Failures must be corrected before Setup can continue.					
Setup Support Rules	Operation completed. Passed: 8. Failed 0. Warning 0. Skipped 0.					
	_					
	Viev	de details <<		<u>R</u> e-run		
		Rule	Status			
		Setup administrator	Passed			
		Setup account privileges	Passed			
		Restart computer	Passed			
		Windows Management Instrumentation (WMI) service	Passed			
		Consistency validation for SQL Server registry keys	Passed			
		Long path names to files on SQL Server installation media	Passed			
		SQL Server Setup Product Incompatibility	Passed			
		.NET 2.0 and .NET 3.5 Service Pack 1 update for Windows 2008	<u>Passed</u>			
	_					
			ОК	Cancel		



4.	Enter the key	y of the SQL	server then	press	Next button.
----	---------------	--------------	-------------	-------	--------------

🏗 SQL Server 2012 Setup		x
SQL Server 2012 Setup	er 2012 to install. 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:	
	< <u>B</u> ack Cancel Help	



License Terms To install SQL Server 2012, you m Setup Support Rules	ust accept the Microsoft Software License Terms.
Setup Support Rules	MICROSOFT EVALUATION SOFTWARE LICENSE TERMS
Product Key License Terms Setup Role Feature Selection Installation Rules Disk Space Requirements Error Reporting Installation Configuration Rules Ready to Install	MICROSOFT SQL SERVER 2012 EVALUATION 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 evaluation software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft updates, updates, Internet-based services and
Installation Progress Complete	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. Capcel Help

5. Accept the license terms then press **Next** button.



6. Select Setup Role then press Next button.



7. Select features to be installed then press **Next** button. Make sure that **Database Engine Services** selected.



🃸 SQL Server 2012 Setup		
Feature Selection Select the Evaluation features to	o install.	
Setup Support Rules Installation Type Product Key License Terms 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	Features: Instance Features SQL Server Replication Full-Text and Semantic Extractions for Searc Data Quality Services Analysis Services Reporting Services - Native Shared Features Reporting Services - SharePoint Reporting Services - SharePoint Reporting Services - SharePoint SQL Server Data Tools Client Tools Connectivity Integration Services Client Tools Backwards Compatibility	Feature description: Includes the Database Engine, the core service for storing, processing and securing data. The Database Engine provides controlled access and rapid transaction processing and also provides rich support for sustaining high availability. The Database Engine also provides support for the utility control point in the SQL Server Utility. Only Prerequisites for selected features: Already installed: Microsoft .NET Framework 4.0 Windows PowerShell 2.0 Microsoft Visual Studio 2010 Shell Present Sol Server)
	Shared feature directory: $C:\Program Files (x86)\N$	ficrosoft SQL Server\
	< <u>B</u> ack	Next > Cancel Help

8. Check that installation rules passed and then press **Next** button.



1 SQL Server 2012 Setup	
Installation Rules Setup is running rules to deter	mine if the installation process will be blocked. For more information, click Help.
Setup Support Rules Installation Type Product Key License Terms Setup Role Easture Selection	Operation completed. Passed: 1. Failed 0. Warning 0. Skipped 0. Hide details << Re-run View detailed report Re-run
Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Rule Status Image: Status Microsoft .NET Framework 3.5 Service Pack 1 is required
	< <u>B</u> ack <u>N</u> ext > Cancel Help

9. Choose **Default instance** then press **Next** button. You may change the installation path.

📸 SQL Server 2012 Setup				1	
Instance Configuration					
Specify the name and instance	ID for the instance of SQL	Server. Instance	ID becomes part of th	ne installation path.	
Setup Support Rules	Default instance				
Installation Type Product Key	Named instance:	MSSQLSERVER			
License Terms					
Setup Role	Instance <u>I</u> D:	MSSQLSERVER			
Feature Selection	Instance <u>r</u> oot directory:	C:\Program File	s\Microsoft SQL Serv	er\	
Instance Configuration					
Disk Space Requirements	SQL Server directory:	C:\Program File	s\Microsoft SQL Serve	er\MSSQL11.MSSQLSE	ERVER
Server Configuration Database Engine Configuration Installed instances:					
Error Reporting	Instance Name	Instance ID	Features	Edition	Version
Installation Configuration Rules					
Installation Progress					
Complete					
		l	< <u>B</u> ack	Next > Can	cel Help



10. Confirm required disk space then press Next.

🐒 SQL Server 2012 Setup				
Disk Space Requirements Review the disk space summary for the SQL Server features you selected.				
Setup Support Rules Installation Type Product Key License Terms 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	Disk Usage Summary: • Orive C: 1031 MB required, 2166 MB available • System Drive (C:\): 167 MB required • Shared Install Directory (C:\Program Files\Microsoft SQL Server\): 0 MB required • Instance Directory (C:\Program Files\Microsoft SQL Server\): 864 MB required			
	< <u>B</u> ack <u>N</u> ext > Cancel Help			



- 11. Choose **Mixed Mode (SQL Server authentication and Windows authentication** and type in the password and password confirmation.
- 12. Choose **Windows authentication mode** and provide password and confirmation. Press **Add Current User** button then press **Next**.

😭 SQL Server 2012 Setup	H. N. A.H. John These Tests	
Database Engine Confi Specify Database Engine auther	guration tication security mode, administrators and data directories.	
Installation Type Product Key License Terms 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	Specify the authentication mode and administrators for the Database Engine. Authentication Mode • Windows authentication mode • Mixed Mode (SQL Server authentication and Windows authentication) Specify the password for the SQL Server system administrator (sa) account. Enter password: • Confirm password: • Specify SQL Server administrators Source administrators SakrLab\Sakr (Sakr) Add Current Licer	administrators ricted access aase Engine.
	< <u>B</u> ack <u>N</u> ext > Cancel	Help

13. Confirm Installation Configuration Rules passed and then press Next.



📸 SQL Server 2012 Setup				
Installation Configuration Rules				
Setup is running rules to deter	nine if the installation process will be blocked. For more information, c	click Help.		
Setup Support Rules Installation Type Product Key License Terms Setup Role Feature Selection	Operation completed. Passed: 4. Failed 0. Warning 0. Skipped 0. Hide details << <u>View detailed report</u>	<u>R</u> e-run		
Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Rule Image: FAT32 File System Existing clustered or cluster-prepared instance Image: Cross language installation Image: Same architecture installation	Status Passed Passed Passed Passed		
	< <u>B</u> ack <u>N</u> ext	> Cancel Help		

14. Review Summary and then press Install.





15. If you encountered the following message, then you should restart the computer after installation completion.





2.3 Database Installation

1. Open Start → Programs → SQL Server Management Studio → Microsoft SQL Server 2008 as administrator. Press Connect button.

Connect to Server	
SQL Serv	' er "2012
Server type:	Database Engine 🔹
Server name:	IIBServer 👻
Authentication:	Windows Authentication
User name:	SakrLab\Sakr 👻
Password:	
	Remember password
Connect	Cancel Help Options >>

2. Expand the **Server** node, right click the **Databases** folder then choose **Attach**.

🍢 Microsoft SQL Server Management Studio
File Edit View Tools Window Community Help
📜 New Query 🛅 📸 🌇 🕞 🕞 😂 🖳 🗁 🖾 🖕
New Query Object Explorer IBSERVER (SQL Server 10.0.1600 - IIBSERVER)A IBSERVER (SQL Server 10.0.1600 - IIBSERVER)A



3. Press Add button.

🥫 Attach Databases	
Select a page	🛒 Script 🝷 📑 Help
😭 General	
	Databases to attach:
	MDF File Location Database Attach As Owner Status Message
	ndd Bemove
	Associated Files:
Connection	
Server:	
IIBSERVER	
Connection: IIBSERVER\Administrator	
View connection properties	
Progress	Add <u>⊆</u> atalog Re <u>m</u> ove
Ready	
A84	
	OK Cancel



4. Browse for the database file then press **Ok** button.





5. Confirm the information then press **OK** button.

🧃 Attach Databases							
Select a page	🛒 Script 🔹 📑 Help						
🚰 General							
	Databases to attach:						
	MDF File Location		Database	Attach As	Owner	Status	Message
	E:\IIB\Database\I		ItemBanks	ItemBanks	IIBSER		
				A			emove
	"ItemBanks" database d	e <u>t</u> ails:					
	Original File Name	File Type	Current F	ile Path	M	essage	
Connection	ItemBanks.mdf	Data	E:\IIB\Da	atabase\ItemB	a		
Server: TIBSERVER	ItemBanks_log.ldf	Log	E:\IIB\Da	atabase\ItemBi	a		
Connection: IIBSERVER\Administrator							
Progress				Add o	atalon	R	emove
Ready				Mudg	2010109111		
					0	K C	Cancel



6. In the same way add the second database as in the following fig.





2.4 Application Installation on Client Machines

1. Using Internet Explorer, navigate to <u>http://iibserver/</u>.

🖉 Intelligent Item Bank (IIB) - Windows Internet Explorer			- • 🛛
G + lttp://localhost/		🖌 🛃 🗙 Google	P •
Ele Edit View Favorites Tools Help			
😭 🏟 🌈 Inteligent Item Bank (IIB)		🏠 • 🔝 - 🖶 • 📴 Page • 🎯 Tgols • 🔞 • 🔯 🔊	N 8 4
Arab Group for Assessment Intelligent Item Bank (IIB)			
Name: Intelligent Item Bank (IIB)			
Version: 2.1.0.101			
Publisher: Arab Group for Assessment			
The following prerequisites are required:			
HaspHL Driver			
Item Viewer			
.NET Framework 2.0			
Windows Installer 3.1			
 Microsoft Visual Basic PowerPacks 10.0 			
 Microsoft .NET Framework 4 (x86 and x64) 			
 Elegant Ribbon 3.6 			
 Microsoft Office 2010 Primary Interop Assemblies 			
If these components are already installed, you can <u>bunch</u> the application now. Otherwise, click the button below to install the prerequisites and run the application.			
Instal			
	ClickOnce and .NET Framework Resources		
			~
		Scotal intranet 🔍	100% •

- 2. Press Install button then follow installation process.
- After the installation the login screen will be shown, type user name admin and password admin, select to login as System Administer, then press OK button. See <u>Error! Reference source not found.</u> for details.



4. As the database is not configured, the following dialog will appear, press **Yes** button.

Item Banks	×
Failed to connect to Item Banks database, the server error configuring database connection. Would you like to reconfigure the connection?	er may be down or there was an
	Yes <u>N</u> o

5. Specify the database configuration then press **Test Connection** to check the connection, if succeeded press **Save & Close** to save configuration and return to login screen.

Connection Setti	ings
Connection Se Please provide t	ettings ne connection settings and press ok.
Server:	IIBServer
Password:	•••••
Database:	СПВ
Check Connec	ction
	OK Caricer



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