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Installing BioStar on Windows 10

Does BioStar work on Windows 10?

Yes, BioStar works on Windows 10.

However, Microsoft SQL Server 2005 Express included in the BioStar installation package is not compatible with Windows 10, so you need to manually install Microsoft SQL Server 2012.

In the case that you connect to Microsoft SQL Server 2012 using Windows authentication instead of SQL authentication, a separate user account for running the SQL instance service should be created to connect to the SQL Server.

This document demonstrates how to install BioStar on Windows 10 when you connect to the SQL Server using Windows authentication.

Running the BioStar installation package to install BioStar on your PC

- 1. Insert a BioStar CD into your PC and run the installation file in the Install folder.
- You can also download the installation package from Customer Download Center at the Suprema website (https://www.supremainc.com/en/support/biostar-1-pakage.asp).

2. When the dialog for installing Microsoft SQL Server 2005 shows up, click NO. This dialog only shows up when you have chosen BioStar Express or BioStar Server for the installation type.

3. When you have clicked YES on the dialog, you will see a message box indicating that MS SQL Server 2005 is not compatible with Windows 8, as shown in figures below:

Program Compatibility Assistant	×
This program has compatibility issues	
Microsoft SQL Server 2005 Microsoft	
You can get help online and see more information about this program's compatibility issues.	
→ Get help online	
 Run the program without getting help 	
Don't show this message again Close	

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Microsoft SQL Server 2005 Setup	x
An installation package for the product Microsoft SQL Server Native Client cannot be found. Try the installation again using a valid copy of the installation package 'sqlncli_x64.msi'.	
ОК	

Installing MS SQL Server 2012 Express

1. Go to Microsoft's Download Center at the following URL: http://www.microsoft.com/en-us/download/details.aspx?id=29062

2. Download the installation package for your operating system. In this document, we will install MS SQL 2012 Database Engine and SQL 2012 Server Management Studio Express.

- For 32-bit Windows 8, download ENU\x86\SQLEXPRWT_x86_ENU.exe
- For 64-bit Windows 8, download ENU\x64\SQLEXPRWT_x64_ENU.exe

3. After completing the download, run the installation package as an administrator privilege and complete the installation.

4. If you encounter any errors during the installation, you can visit Microsoft's support page to solve the issue:

http://support.microsoft.com/?ln=en-us

Running SQL 2012 Express Studio

- 1. Run SQL 2012 Management Studio.
- 2. Right-click Databases in Object Explorer. Then, select New Database...



3. Enter **BioStar** for the **Database name** field. Click **OK**.

New Database					1	
Select a page	🛒 Script 👻 🚺	Help				
Options Filegroups	Database <u>n</u> am	e:	E	BioStar		
	Owner:			(default>		
	<u>v</u> mar.					
	✓ Use full-text	t indexing				
	Database files:					
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth	Path
	BioStar	Rows	PRIMARY	3	By 1 MB, unrestricted growth	C:\P
	BioStar_log	Log	Not Applica	ible 1	By 10 percent, unrestricted growth	C:\P
Connection						
MHKIM2-PC#SQLEXPRESS						
Connection: SUPREMAWmhkim2						
Wew connection properties						
Progress						
O Ready	•	m			<u>A</u> dd Bern	* 0V8
					ОК	Cancel

4. Expand **Security** and then **Logins** in Object Explorer. Right-click **NT AUTHORITY****SYSTEM** and choose **Properties**, as shown in Figure 3. This brings up the **Login Properties** dialog. Note that BioStar 1.x Server connects to MS SQL Database Server using the **NT AUTHORITY****SYSTEM** account.



Microsoft SQL Server Management Studi	io	
File Edit View Debug Tools Wir	ndow Community He	elp
🗄 🔔 New Query 📑 📑 📑 🗐	<u> </u>	
Object Explorer	→ ‡ ×	
Connect 🕶 📑 📑 🛒 🔳 🍸 🛃 📓		
 MHKIM2-PC\SQLEXPRESS (SQL Service) Databases Security Logins ##MS_PolicyEventProcess ##MS_PolicyTsqlExecution bsadmin BUILTIN\Users NT AUTHORITY\NETWOR 	er 10.50.1600 - SUP singLogin## nLogin## RK SERVICE	
 NT SERVICE\MSSQL\$SQL sa SUPREMA\mhkim2 test Server Roles Credentials Server Objects Backup Devices Linked Servers Triggers Replication 	New Login Script Login as Policies Facets Start PowerShell Reports Rename Delete	•
Management	Refresh	
Ready	Properties	
incady		11.

5. Select **Server Roles** in the **Select a page** pane. Check the **sysadmin** checkbox.

Login Properties - NT AUTHORITY\SYSTEM							
	B	Login	Proper	ties - N	IT AUTH	ORITY	SYSTEM

Login Properties - NT AUTHORITY\SYS	STEM	- • ×
Select a page	🛒 Script 👻 🌇 Help	
I General Server Roles I User Mapping I Securables I Status	Server role is used to grant server-wide security privileges to a user. Server roles: bulkadmin dbcreator diskadmin processadmin public securityadmin setupadmin setupadmin sysadmin	
Connection		
Server: MHKIM2-PC#SQLEXPRESS Connection: SUPREMA#mhkim2		
Progress		
O Ready		
	ОК	Cancel

6. Select **User Mapping** in the **Select a page** pane.

- 7. Check the checkbox in the **Map** column and type "dbo" in the **Default Schema** field.
- 8. Check the **db_owner** checkbox in the bottom pane.

- 0 X

Select a page	Script - 🖪 Help	
Parenal Server Roles User Mapping Securables Status	3	
	Users mappe <u>d</u> to this login:	
	Map Database	
	BioStar	
	master	

General	Script	👻 🚯 Help				
Poleneral Server Roles	Users mapped to this login:					
Securables	Мар	Database	User	Default Schema		
Status		BioStar	NT AUTHORITY#SYSTEM	dbo		
		master				
		model				
		msdb				
		ReportServer\$SQLEXPRESS				
		ReportServer\$SQLEXPRESS,				
		tempdb				
Connection	Databas	it account enabled for: BioStar e role membership for: BioStar				
Server:	⊟ db_a ⊡ db_b	ccessadmin ackupoperator				
MINUME-PCW3GLEAPHE33	db_d	atareader				
Connection: SUBBEMAWmbkim2	db_d	dladmin				
SOFTEMANTINATE	⊟ db_d	enydatareader				
Mew connection properties	db_d	enydatawriter wner				
	db_s	ecurityadmin				
Progress	🔽 publi	с				
C) Ready						
				OK Cancel		

Running DBSetup.exe

1. We've completed the prerequisite configuration to connect to the database server using Windows authentication.

2. Run DBSetup.exe located in the C:\Program Files\BioStar\server folder.

3. Enter the server name in the Database Server field copied from the Server name field of the **Connect to Server** dialog in SQL Server Management Studio, as shown in figure 6.

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. ⁰	Connect t	o Server	×	
SQI	Server 2012			
Server type: Server name:	Database Er	ngine	~	
Authentication	b	Create databa	ase [BioStar]	×
Password:	Select DB Server You can also spec SQL Login ID and	and authentication method. cify the way to authenticate y Password.	our login using your cu	urrent credentials or a
	Database Database Type	MS SQL Server	*	
	Database Name	BioStar	Set	Name
	Authentication			
	O Server Authenti	cation	 Windows Auth 	nentication
	Database Server	.VDN-2\SQLEXPRESS	Port	1433
	ID	sa	Password	
	Progress			
				Finish

Starting BioStar Server and Client



1. Run BioStar Server Config (Config) as an administrator privilege.

2. Make sure that you've chosen **Windows Authentication** for the login method and correctly entered the server address in the **Database Server** field.

3. Click **Start** to start the server.

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BioStar S	erver Config			×
Status			Stopped	Start
Connecti	on			
10	TCP Port	1480	Thread Count 200	Client List
Databas	e			
	Database Type	SQL Server	•	
SQL	Database Name	BioStar		Set Name
	C Server Authentica	tion	Windows Authentication	n
	Database Server	localhost\SQLEXPRE	Port 1433	
	ID		Password	
	Max Connection	1		
SSL				
	OpenSSL Path	C:\OpenSSL\bin\openss	il.exe	Browse
	Pass Phrase	****		Change
		Refresh A	pply OK	Cancel

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BioStar Sector	erver Config		×			
Status	BioStar Server V1.62 (192.168.1.90) Running Stop					
Connecti	on					
	TCP Port	1480 Thread Count 200	Client List			
Databas	e					
	Database Type	SQL Server				
SQL	Database Name	BioStar	Set Name			
	C Server Authentica	ation 🕼 Windows Authentication	n			
	Database Server	Iocalhost\SQLEXPRE Port 1433				
	ID	Password				
	Max Connection	1				
SSL						
1	OpenSSL Path	C:\OpenSSL\bin\openssl.exe	Browse			
	Pass Phrase	*****	Change			
		Refresh Apply OK	Cancel			

- 4. Run BioStar Client.
- 5. If you run BioStar Client for the first time, you need to configure the settings of BioStar Server.
- 6. Click **Server Setting** to configure the settings. This brings up the **Connect Server** dialog.

BioStar V1.6	2	x	
User ID			
Password		-1	
	annot connect to server		
Server Setting	Login Cancel		

7. Enter the server IP address specified in **BioStar Server Config**. Note that you can click **Test** to see if the server IP address is correct.

- https://kb.supremainc.com/knowledge/



8. Click **Save** to save the current settings.

Connect Ser	Connect Server					×
Server IP	192	. 168		1		90
Server Port		1	1480			
Connected to server						
Test Save Cancel						

9. Set the ID and password for a new administrator.

	Add New Administrator	×
	Admin ID	1
1	Password	
	Confirm	
1	Admin Level	Administrator 👻
		OK Cancel

10. Enter the ID and password you've set in the above step.

BioStar V1.62				
User ID	admin			
Password	•••••			
Connected to server				
Server Setting	Login Cancel			

When you connect the devices to BioStar Server via the Server mode, you should open a port in Windows Firewall.

On the later Windows versions (Windows 7, Windows Server 2012 and Windows 8) than Windows XP, you should add BioStar Client and Server to the list of allowed programs in your Windows firewall.

If you use anti-virus software on your PC, add BioStar Client and Server to the list of allowed programs as well.

- Allowed programs
 - BioStar Client (C:\Program Files\BioStar\Console\BioStar.exe)
 - BioStar Server (C:\Program Files\BioStar\server\bsserver.exe)
- Port: Add port 1480 to Inbound Rules and Outbound Rules in your Windows firewall.

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Last update: 2019/12/26 17:48