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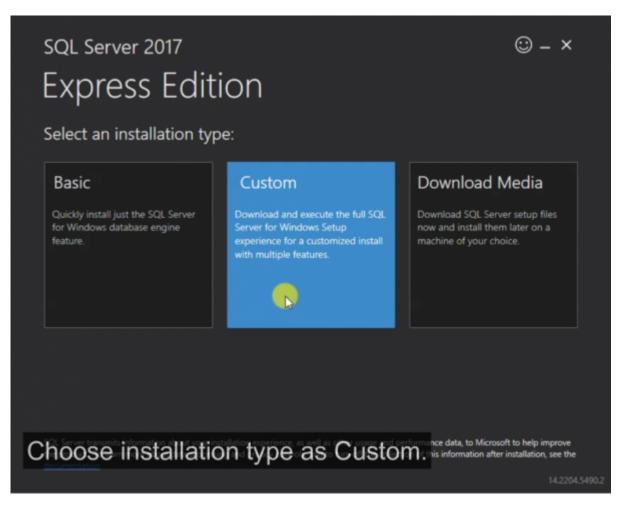
How to Install BioStar 2 with MSSQL

BioStar 2 is a web-based, open, and integrated security platform that provides comprehensive functionality for access control and time & attendance. There are two types of databases to use in BioStar 2 (Maria DB and MSSQL). The databases each have different methods for installing BioStar 2. Here, we will cover how to install BioStar2 with MSSQL step-by-step.

Note: Direct installation of BioStar 2 with the MS-SQL database currently is not supported. Therefore, users who want to use BioStar 2 through the MS-SQL database need to configure the MS-SQL settings to set up the environment for BioStar 2 prior to the BioStar 2 installation process.

MS-SQL Installation

- 1. Download Microsoft SQL Server Express or Install Microsoft SQL Server Standard Edition.
- 2. Right-click the Setup file and run as administrator.
- 3. Choose the installation type as "Custom."



4. Click the first item on the list.

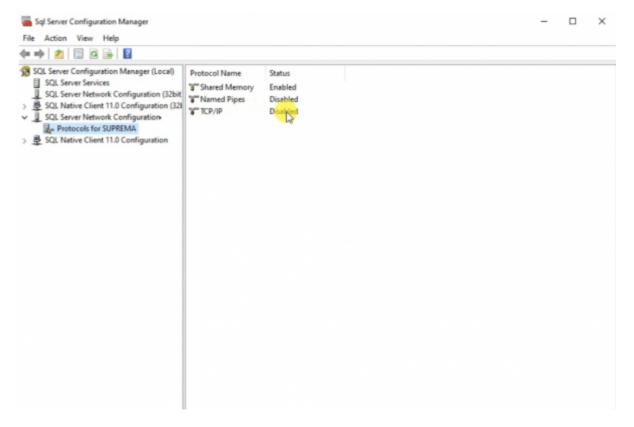
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5. At Feature Selection, you can select the Instance Features on the MS-SQL to your preference.

6. At Instance Configuration, specify the name of ID for the SQL Server. It is highly recommended to name it "SUPREMA."

7. At Database Engine Configuration, select "Mixed Mode," and the set the password for the sa account.

8. After completing the installation, open SQL Server Configuration Manager.



9. Right-click "Protocols for SUPREMA" and click "TCP/IP Properties."

10. Choose "Yes" for Enabled, and set up the TCP Port (ex. Here, it is set to 1433). Press Apply.

11. You must restart the service to apply changes. Go to SQL Server Services, and right-click the second item from the list. Click "Restart."

12. Go back to SQL Server Installation Center. Click the third item on the list. This will redirect you to the link to download the SQL. Server Management Studio.

13. Download the SQL Server Management Studio. Run as administrator. You will need to restart to complete the installation.

14. After restart, open Microsoft SQL Server Management Studio.

15. Create 3 New databases. Right-click Databases and select New Database. Name the Databases "BioStar2_AC," "BioStar2_TA," and "BioStar2_VE."

1	New Database						- 0	×
File Edit View Tools	Selectapage	🗊 Script 👻 😮 I	Help					
0-0 8-1		Database name Owner:		BioStar2				
Object Explorer		Uwner:	ndevina	< default	>			
Connect + ♥ ¥♥ = ▼		Database files:						
DESKTOP-4EDKRR3\S Desktop-4EDKRR3\S		Logical Name BioStar2_VE	File Type ROWS	Filegroup PRIMARY	Initial Size (MB) 8	Autogrowth / M By 64 MB, Ur	-	Path C:₩F
⊞		BioStar2_VE		Not Applicable		By 64 MB, U		
	1							
Security Server Objects								
🕀 💼 Replication								
	Connection Server:							
	Server: DESKTOP-4EDKRR3₩SUPREMA Connection:							
	sa View connection properties							
	Progress							
	Ready	<						>
٢	<u> </u>					Add	Remove	
🗖 Ready						(OK Ca	ncel

16. In the Database Files section, we recommend setting the Initial Size (MB) to 3000 and setting the Autogrowth/Maxsize to (By 10MB, Unlimited).

Database	Properties - BioStar2_AC				-		
File Edit View loois General Image: Connect - Image: Conect - Image: Connect -	Image: Section and Sectio						
	Logical Name BioStar2_AC BioStar2_AC		Filegroup PRIMARY Not Applicable	Size (MB) 3,000 3,000	Autogrowth / Maxsize By 64 MB, Unlimited By 64 MB, Limited to 2,	Path C:\P C:\P C:\P	
E Replication Connection							
XEvent Profiler Connection sa	4EDKRR3WSUPREMA .: onnection properties						
Progress							

	Database Properties - BioStar2_	AC		- 0	×
Microsoft SQL Server M File Edit View Tools O - O 1 3 - C - C View Tools Object Explorer	Select a page General Files Filegroups Options Change Tracking Permissions Extended Properties	☐ Script ▼ ♥ Help Database name: Owner: ♥ Use full-text indexing	BioStar2_AC sa		
Connect • • * • • • • • • • • • • • • • • • •	6 Ouenu Stere	Change Autogrowth for BioStar2_AC C Enable Autogrowth File Growth In Percent In Megabytes		th / Maxsize 1B, Unlimited 1B, Limited to 2	Path C:₩P C:₩P
 n PolyBase n Management n XEvent Profiler 	Connection Server: DESKTOP-4EDKRR3₩SUPREN Connection: sa ₩ View connection propertie Progress	Maximum File Size Limited (MB) Unlimited	OK Cancel		

17. Expand Security and right-click Logins. Select New Login.

18. Choose Login name. It is recommended to choose biostar2. Then select "SQL Server authentication" and set the password.

Login - New			-	o ×	×
File Edit View Tools File Edit View Tools	🖵 Script 👻 😮 Help				Î
C - O B - C - C Server Roles	Login name: O Windows authentication	biostar2		Search	2
Object Explorer	 SQL Server authentication Password: 			1	
Connect -	Confirm password:	•••••			
🖃 🛑 Databases 🗉 💼 System Databa	Specify oid password Old password:			-	
	Enforce password policy				
BioStar2_VE	User must change pass Mapped to certificate		_		
E Connection	O Mapped to asymmetric key		~		
Credentials Server: DESKTOP-4EDKRR3₩SUPREMA	 Map to Credential Mapped Credentials 	Credential Provider	~	Add	
E Server Audit St Connection: Sa					
Management XEvent Profiler Promose				Bemove	

19. At "Server Roles," select "sysadmin" to give privileges to the new user (biostar2). At User Mapping, select the newly created databases to assign to biostar2. Also assign biostar2 as the db_owner for each database. This account will be used to log into the three MS-SQL databases.

	📱 Login - New				-		×
File Edit View Tools	✗ General ✗ Server Roles		t 👻 🕜 Help napped to this login:				Î
Object Explorer Connect - # "# = # DESKTOP-4EDKRR3\S DESKTOP-4EDKRR3\S Databases Databases Database Snaj Database Snaj			Database BioStar2_AC BioStar2_TA BioStar2_VE master model msdb tempdb	User biostar2 biostar2 biostar2	Default Schema		
	Connection Server: DESKTOP-4EDKRR3₩SUPREMA Connection: sa v¥ View connection properties	Databar db_r db_r db_r db_r db_r db_r	at account enabled for: se role membership for accessadmin backupoperator datareader datawriter ddladmin denvdatareader				^
<	Progress Ready	db_0	denydatawriter owner securityadmin		OK	Cance	-

BioStar 2 Installation

Before installing BioStar 2, please refer to the BioStar 2 Installation Guide at BioStar 2 Package to check the system requirements for your computer.

System Requirements

Item		Small	Medium	Enterprise			
Environment	Total Devices	1 to 50	51 to 100	101 to 1,000			
	OS	R2(SP2 or higher), Windows 2016, Windows Server 2019	Windows 7(SP1 or higher), Windows 8, Windows 8.1, Windows 10, Windows Server 2008 R2(SP2 or higher), Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019 • Windows virtual environments on Mac Boot Camp are not supported.				
System requirement (Server)	Database	MariaDB 10.1.10, MS SQL Server 2012, MS SQL Server 2014 SP2, MS SQL Server 2016 SP1, MS SQL Server 2017, MS SQL Server 2019					
	CPU	2 GHz Dual Core	4 GHz Quad Core	4 GHz 16 Core			
	RAM	8 GB	16 GB	32 GB			
	SSD	512 GB	1 TB	1 TB			
System	CPU	1 GHz	1 GHz	1 GHz			
requirement	RAM	4 GB	4 GB	4 GB			
(Client)	Web Browser	Google Chrome 75 or later					

BioStar 2 Video Extension

Item	Medium	Recommended
CPU	4 GHz Quad Core	4 GHz Quad Core
RAM	8 GB	16 GB
HDD	2 TB	4 TB

1. Download the latest BioStar 2 Setup file at BioStar 2 Package. You can choose the (x64) or (x86) setup based on your computer's system requirements.

- 2. After downloading the BioStar 2 setup file, right-click and click "Extract All...".
- 3. Right-click the BioStar 2 Setup and run as administrator.
- 4. Select Setup Language.

5. After carefully reading the license agreement, select "I accept the agreement" and click "Next >" to proceed.

cense Agree					
Please read t	the following imp	ortant information	before continuing.		ų
		ense Agreement. Y with the installation	ou must accept the	terms of th	nis
	Software	e End User Licer	nse Agreement		^
		SUPREMA IN			
	SOFT	WARE LICENSE A	AGREEMENT		
			AND CONDITION WARE OR ANY AC		
I accept t	he agreement				
OI do not a	ccept the agree	ment			

6. The first account that will be used to login to BioStar 2 will be the admin. Customize the admin password based on the password requirements displayed at the Setup. Please note that it is difficult to recover the admin password, so make sure to not forget the admin password once you have set it. Click "Next >" to proceed.

ជ	Setup - BioStar 2(x64)			_		×
	Admin User Enter the password for	r admin user.			Ę	3
	Username :	admin				
	Password :	••				
	Confirm password :					
	1. It must contain betw	veen 8 and 16 chara	acters.			
	 It can contain only E and certain special of 					
	3. It must contain at le	ast one alphabet d	naracter and at least o	ne number.		
	Warning -Admin user password	must be managed o	arefully not to be forg	jotten.		
			< Back	Next >	Can	cel

7. Choose "Custom installation" as the Database installation type.

Database installation type	$-\pi$
Select a database type for BioStar 2. You can either install a new connect the existing database.	v database or
O Express installation	
Use this option for quick installation with the built-in MariaDB The installer will automatically install the MariaDB database se and create the database.	
Custom installation	
Use this option to create database schema on an existing dat on a database server (MariaDB / MSSQL) on the local or remo Make sure that the database and user account are created a before starting the installation.	te server.

How to Install BioStar 2 with MSSQL

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8. Choose DB Type as MS-SQL. Input the Server IP (you can see the Server IP by typing "ipconfig" on the Command Prompt). Input the Server port (Here, it is 1433 configured previously at MS-SQL).

9. Input the DB name based on the database created at the Server Management Studio.

Setup - BioStar 2(x			-		×
If you choose da information.	tabase type, you must e	nter the Root privileg	e account	l	Ś
DB Type :	MS-SQL V	mssql windows	auth.		
Server IP :	192.168.116.45	VE DB name :	BioStar2_VE		
Server port :	1433	VE Username :	biostar2		
AC DB name :	BioStar2_AC	VE Password :	•••••		
AC Username :	biostar2				
AC Password :	•••••				
TA DB name :	BioStar2_TA				
TA Username :	biostar2				
TA Password :	•••••	Generate the d	latabase tables		
		< Back	Ne	Car	ncel

10. Select destination location for the installation.

11. Select the folder for the Encrypt Key Storage Directory. The encrypt key is critical for operating BioStar 2, and please do not alter the location of the file or the file once you have set the location. Click "Next >" to proceed.

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😭 Setup - BioStar 2(x64)	_		×
Encrypt Key Storage Directory Select the location to store the encrpyt key		Ę	
'Select a folder to store the encrypt key and click 'Next' To continue, click Next. If you would like to select a different fold	der, click Bro	owse.	
C:₩Program Files₩BioStar 2(x64)₩util		owse	
Warning Select the path where the encrypt key file will be stored. Please do not alter the file once the location is set.			
< Back	Next	Can	cel

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12. Read the Responsibility for protecting personal information.

Setup - BioStar 2(x64)	-		×
Responsibility for protecting personal information		Ę	
Please be aware the system administrator has the responsibility with the applicable laws of each country when using personal in biometric data or any other stored material. To protect the data it is recommended to use the Encrypt Personal Data on Databas	formation, stored in the	e databas	e
< Back	Next	Can	cel

13. Here, you can customize the port setting. Change the default port setting if that port is being used.

Setup - BioStar 2(x64)	_		×
Port Setting Port Setting Enter a valid port number.		Ę	
HTTPS Port for Web Server Enter the desired port number between 10 and 65534. The default port number is 443. 443 Availability: OK			
Device Port for Communication Enter the desired port number between 10 and 65534. The default port number is 51212. 51212 Availability: OK			
< Back	Next	Cano	el

14. Select the components to be installed at BioStar 2. Choose the USB Device Agent if the installation of the USB Fingerprint Reader (BioMini Plus 2) or the USB Card Reader (DE620) is required. If you install the USB Device Agent, you will need to restart your computer to complete the installation process.

elect Components Which components should be installed?	Į.
Select the components you want to install; install. Click Next when you are ready to co	
Full installation	~
BioStar 2	3,650.7 MB
	3,650.7 MB
Current selection requires at least 3,736.0	MB of disk space.
current selection requires at least 5,750.01	Ho of disk space.

15. After the installation process has been completed, open BioStar 2 Settings to confirm the system status. Check the Service Status and the HTTPS Port.

 \times

E The	Core Web Server service has been started.		Running	Stop
The	BioStar 2 service has been started.		Running	Stop
ı —	T&A Web Server service has been started. Video License is not activated.		Running	Stop
			Stopped	Start
нт	TPS Port 443			
ase Server (Configuration	Windows Au		_
se Server (DB Type	Configuration		thentication 433	
se Server (DB Type	Configuration			word
ase Server (Configuration MSSQL 192.168.116.45	Port 1	433	vord
ase Server (DB Type Host	Configuration MSSQL 192.168.116.45 Database Name	Port 1 Database User	433 Database Passv	vord
DB Type Host	Configuration MSSQL 192.168.116.45 Database Name BioStar2_AC	Port 1 Database User biostar2	433 Database Passv	vord
se Server (DB Type Host AC TA	Configuration MSSQL 192.168.116.45 Database Name BioStar2_AC BioStar2_TA	Port 1 Database User biostar2 biostar2 biostar2	433 Database Passu	word

How to Install Certificate for BioStar 2

If you try to open BioStar 2 right after installation, you will get the following privacy error message. Currently, there is no certificate installed at BioStar 2. So, the web protocol is displaying "Not secure." Please refer to How to configure HTTP or HTTPS protocol for steps to install the certificate for BioStar 2. Then, it will be displayed as "Connection is secure."

BioStar 2	× +	
$\ \ \leftarrow \ \ \rightarrow \ \ G$	A Not secure https://	92.1

BioStar Setting



Note: For the best experience at BioStar 2, use Google Chrome as the browser to access BioStar 2.

how_to_install_biostar_2_with_mssql.mp4

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