

Connecting to a Microsoft SQL Server Database

Use Server Setup to connect to an existing MS SQL Server database.

<https://localhost:7767>

Important: Prior to attempting connect to the database, it must current exist and the required SQL Server user login and database permissions applied. See below:

Configure Database

Configure Database Edit Configuration Services TL

The application server is currently configured to connect to tl

JDBC Driver JDBC:Microsoft SQL Server ▼

Microsoft

Server localhost

Database Name goprint

Schema Name

User ID goprint

Password

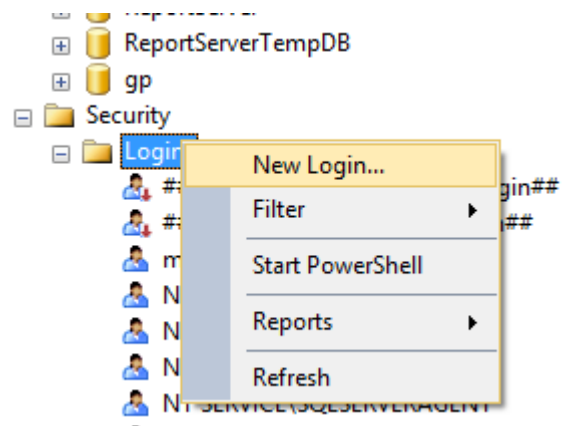
Password is set. Enter a password to reset it.
Enter a space to reset to a blank password.

Apply Create Database Test Connection

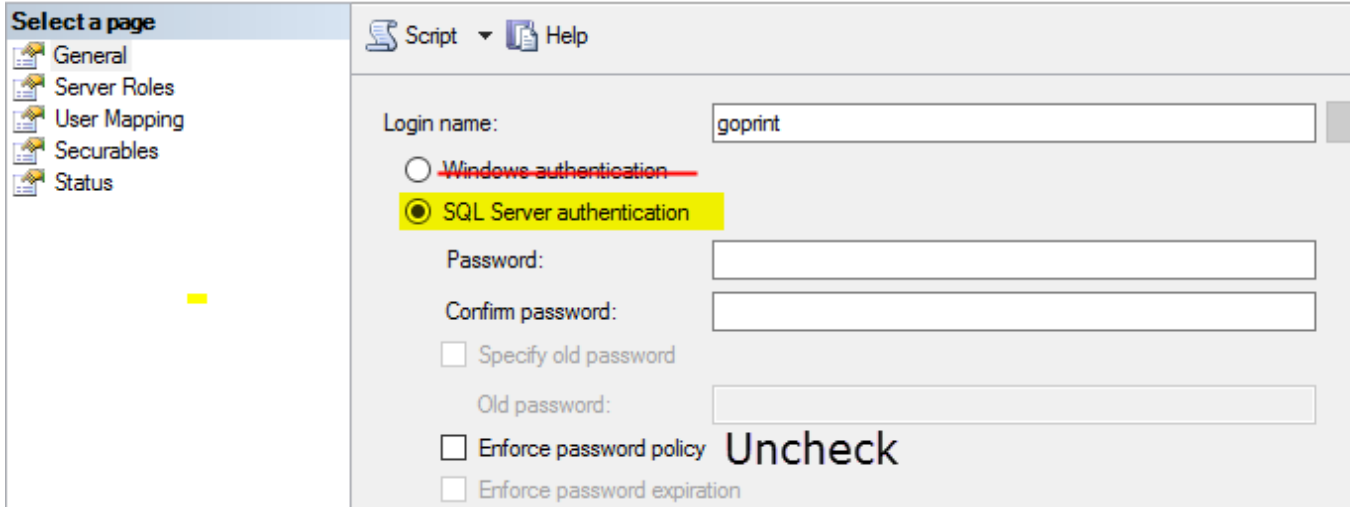
Step 1 – Create the GoPrint database

Step 2 – Create the SQL Server Login

1. Open Microsoft SQL Server Management Studio
2. Scroll down to Security – Login
3. Right-click and select New Login

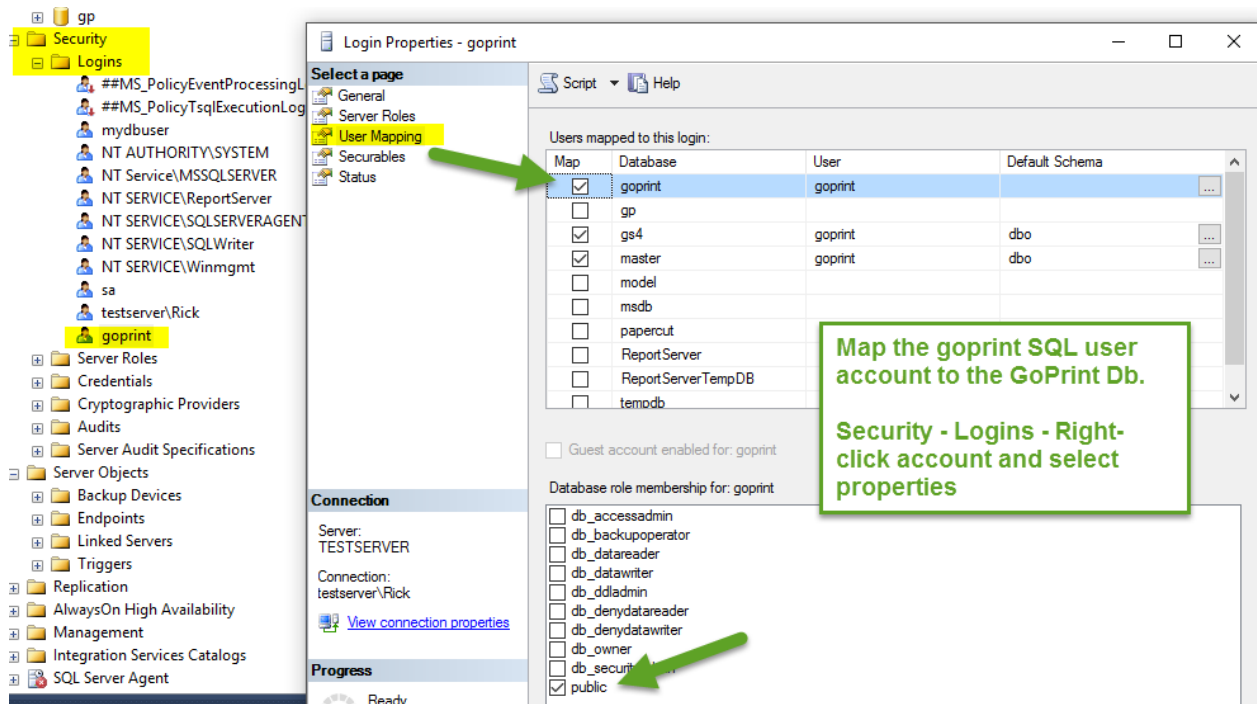


4. Enter a Login name:
5. Select SQL Server Authentication



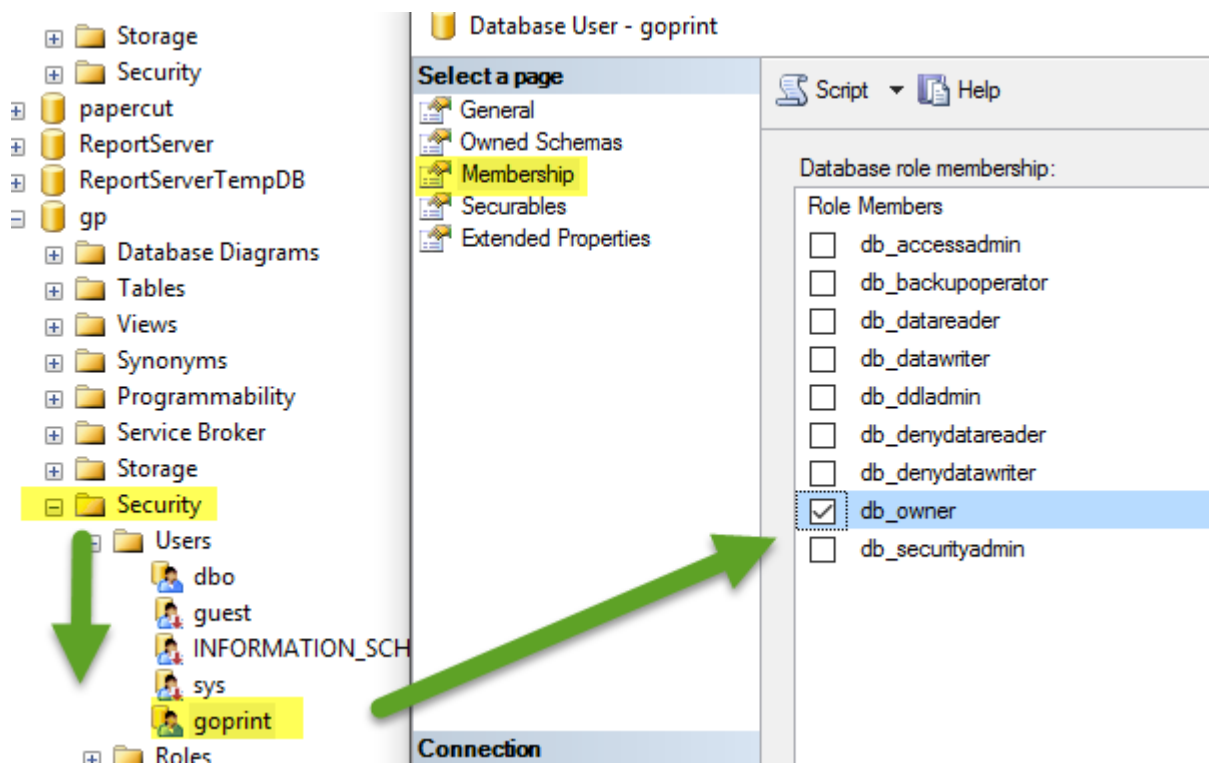
Step 3 - Map the SQL user to the database

1. Right-click user – Properties
2. User Mapping – Check the GoPrint database



Step 4 – Grant DBO Permissions to the database

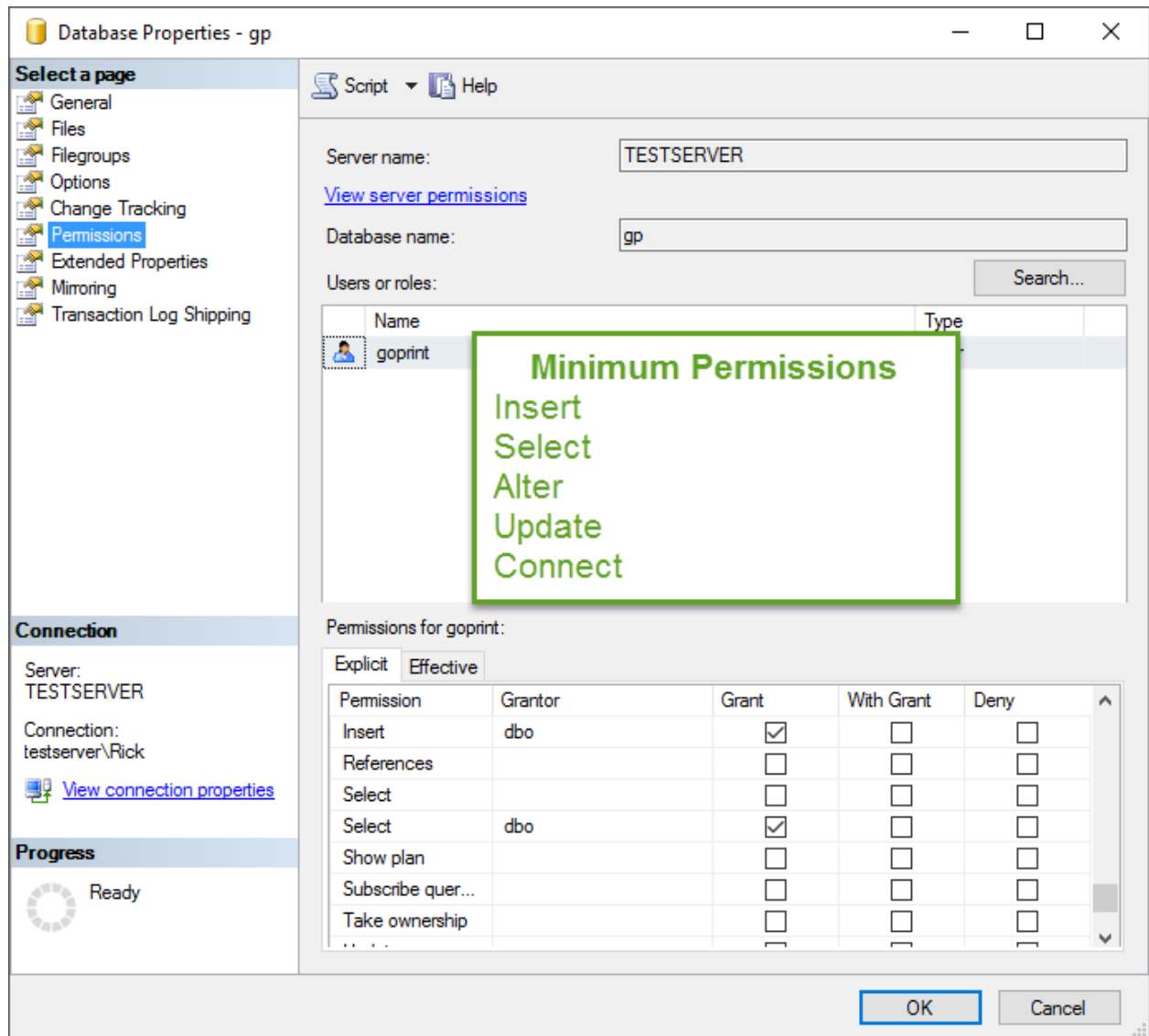
1. Select and expand the GoPrint database
2. Scroll down to Security and select the SQL user account
3. Select Membership and check db_owner



Optional Permissions

When not possible to grant db_owner membership you can optionally apply the minimum required permissions.

1. Right-click the GoPrint database and select Properties
2. Select Permissions
3. Check: Insert, Select, Alter, Update, and Connect



TIP: New Server-Level Permissions

SQL Server 2014 also has 3 new server-level permissions.

CONNECT ANY DATABASE Permission

Grant CONNECT ANY DATABASE to a login that must connect to all databases that currently exist and to any new databases that might be created in future. This permission does not grant any permission in any database beyond connect. You may combine CONNECT ANY DATABASE permission with SELECT ALL USER SECURABLES or VIEW SERVER STATE to allow an auditing process to view all data or all database states on the instance of SQL Server.

Step 5 – Connect to the Database

Open Server Setup: <https://localhost:7767>

1. Select the JDBC:Microsoft SQL Server JDBC Driver
2. Enter the MS SQL Server servername
3. Enter the database name
4. Enter the SQL Server User ID
5. Password
6. Press Test Connection

Configure Database	Edit Configuration	Services	TLS Certificate
The application server is currently configured to connect to the database s			
JDBC Driver	JDBC:Microsoft SQL Server ▾	1.	
	Microsoft		
Server	MS SQL Servername	2.	
Database Name		3.	
Schema Name			
User ID		4.	
Password		5.	
	Password is set. Enter a password to reset it. Enter a space to reset to a blank password.		
<input type="button" value="Apply"/>	<input type="button" value="Create Database"/>	<input type="button" value="Test Connection"/>	6.

If successful, a **Connection successfully made!** message appears

Enter a space to reset to a blank password.

JDBC Driver class com.microsoft.sqlserver.jdbc.SQLServerDriver was located.
Database configuration has been saved.

Connection successfully made!

Step 6 – Start the GTX Service

1. Select Services tab
2. Click to Start GTX

Wait 30 seconds for the page to refresh

The screenshot shows a web interface for service management. At the top, there are three tabs: "Configure Database", "Edit Configuration", and "Services". The "Services" tab is selected. Below the tabs, the page title is "Services on testserver @ 192.168.233.1". There are two sections: "Online Services" and "Offline Services". In the "Online Services" section, there is a row for "Agent" with a "Stop" button. In the "Offline Services" section, there is a row for "GTX" with a "Start" button. A large green arrow points to the "Start" button for the GTX service.

Services on testserver @ 192.168.233.1	
Online Services	
Agent	<input type="button" value="Stop"/>
Offline Services	
GTX	<input type="button" value="Start"/>

Step 7 – Click GoPrint Control Center to enter system administration


Service Control

Configure Database Edit Configuration **Services** TLS Certificate Security Updat

Services on testserver @ 192.168.233.1

Online Services

Agent	Stop	
GTX	Stop	GoPrint Web Client TLS GoPrint Control Center GoPrint Control Center TLS

Enter Control Center 

INSTANCE EXAMPLES

When default MS SQL port (1433) and instance is not used it must be specified in a instance string and entered in the Server field.

Configure Database Edit Configuration **Services** SSL C

The application server is currently configured to connect to t

JDBC Driver

Server **Villanova**

Database Name

Schema Name


User ID

Password

mssqlstage1:60281;instancename=DEV

Apply Create Database Test Connection

ERROR Generated when the instance isn't provided

JDBC Driver: 

Server:

Database Name:

Schema Name:

User ID:

Password:

Apply | Create Database | Test Connection

JDBC Driver class com.microsoft.sqlserver.jdbc.SQLServerDriver was located.
Database configuration has been saved.

Database server is not accessible. Failed to connect to default database at: jdbc:sqlserver://nyccss;databaseName=master
Check the Server, User ID, and Password settings.
Make sure the database server is online and accessible from this node.
Error: com.goprint.exception.DataAccessException: Failed to connect to data source at jdbc:sqlserver://nyccss;databaseName=master


Error is generated when the Db instance isn't provided

example in the Server field:
pulsentdev;databaseName=goprintdb;instanceName=gpinstance

Common Connection Errors

Login Failed

The SQL server user account needs to be mapped to the database

JDBC Driver: 

Server:

Database Name:

Schema Name:

User ID:

Password:

Apply | Create Database | Test Connection

JDBC Driver class com.microsoft.sqlserver.jdbc.SQLServerDriver was located.
Database configuration has been saved.

Login Properties - goprint

Select a page: General, Server Roles, **User Mapping**, Securables, Status

Users mapped to this login:

Map	Database	Database	Database
<input checked="" type="checkbox"/>	goprint	goprint	
<input type="checkbox"/>	gp		
<input checked="" type="checkbox"/>	gs4	goprint	dbo
<input checked="" type="checkbox"/>	master	goprint	dbo

Select SQL user account properties - User Mapping and check GoPrint Database

SQL user hasn't been granted login Rights to the GoPrint database

Server connect succeeded, but failed to connect to database gp at: jdbc:sqlserver://localhost;databaseName=gp
Does the database need to be created?
Error: com.goprint.exception.DataAccessException: Failed to connect to data source at jdbc:sqlserver://localhost;databaseName=gp: Cannot open database "gp" requested by the login. The login failed.
ClientConnectionId:5b56d8f2-840f-4a65-b5a8-9027e32dd327

SELECT permission

SQL user needs Select Permission

Service GTX failed to start: SQL error retrieving a record: **The SELECT permission was denied** on the object 'SystemPolicy', database 'gp', schema 'dbo'.

INSERT and UPDATE permission

SQL user requires INSERT and UPDATE permissions

The screenshot shows the GoPrint login interface. At the top is the GoPrint logo and version 4.2.1 (6841). Below is the text "Login to the GoPrint GS-4 Control Center". There are input fields for "Username" (containing "admin") and "Password" (containing "*****"). A "Log In" button is present. Below the login fields, a message states "You are not using the Secure Log In page." A scrollable error box at the bottom contains the following text: "The system license key expires tonight at midnight! Enter a new one today to keep things running smooth. * ALERT * Login failed for user admin: SQL error persisting com.goprint.value.LoginHistory record: **The INSERT permission was denied** on the object 'LoginHistory', database 'gp', schema 'dbo'. Error: SQL error persisting".

The screenshot shows the GoPrint login interface, similar to the previous one. It includes the GoPrint logo, version 4.2.1 (6841), and the text "Login to the GoPrint GS-4 Control Center". The "Username" field contains "admin" and the "Password" field contains "*****". A "Log In" button is visible. Below the login fields, a message states "You are not using the Secure Log In page." A scrollable error box at the bottom contains the following text: "schema 'dbo'. Error: Unknown error persisting com.goprint.value.LoginHistory record: Access error getting next key: An error occurred for transaction: Update KeyCounter: **The UPDATE permission was denied** on the object 'KeyCounter', database 'gp', schema 'dbo'..".

Service GTX failed to start: null

This happens when the database connection previously existed and a change was made. To resolve, restart the GS4 Services from MS Services

Offline Services

GTX	Start	Service GTX failed to start: null
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