TimePunch

TimePunch SQL Server Database Guide

User Manual

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Introduction

This document explains the setup of the SQL Server Database in order to store the time entries of TimePunch.

Prerequisites

The prerequisite to create a new TimePunch database is the installation of the Microsoft SQL Server starting from version 2005. TimePunch supports the use of the SQL Server Express version. This is a cost free version of the Microsoft SQL Server.

Download Site of the Microsoft SQL Server Express:
https://www.microsoft.com/de-ch/download/details.aspx?id=55994

Download Site of the SQL Server Management Studios:
https://docs.microsoft.com/de-de/sql/ssms/download-sql-server-management-studio-ssms

Please be aware:

If the enterprise owns a full version of the Microsoft SQL Server, this is always preferable to the express version of the Microsoft SQL Server.

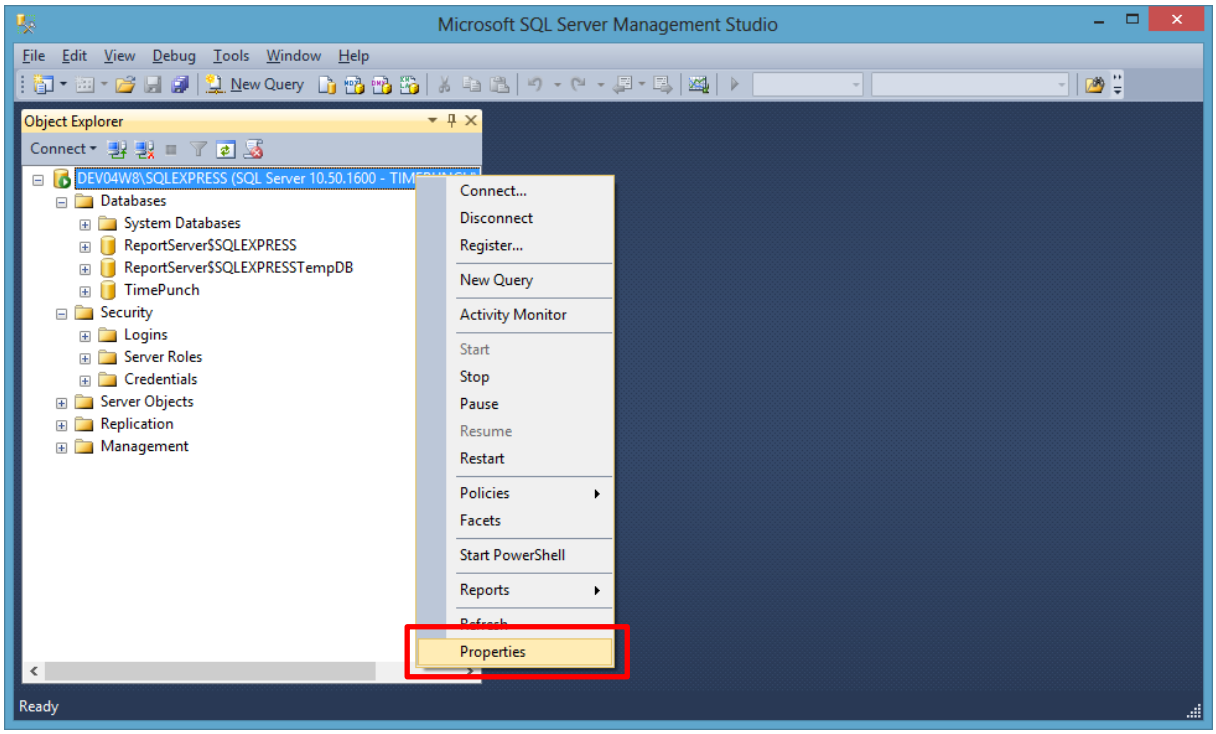
Preparing the Microsoft SQL Server

In order to establish a connection from TimePunch to the Microsoft SQL Server, a few preparations have to be done.

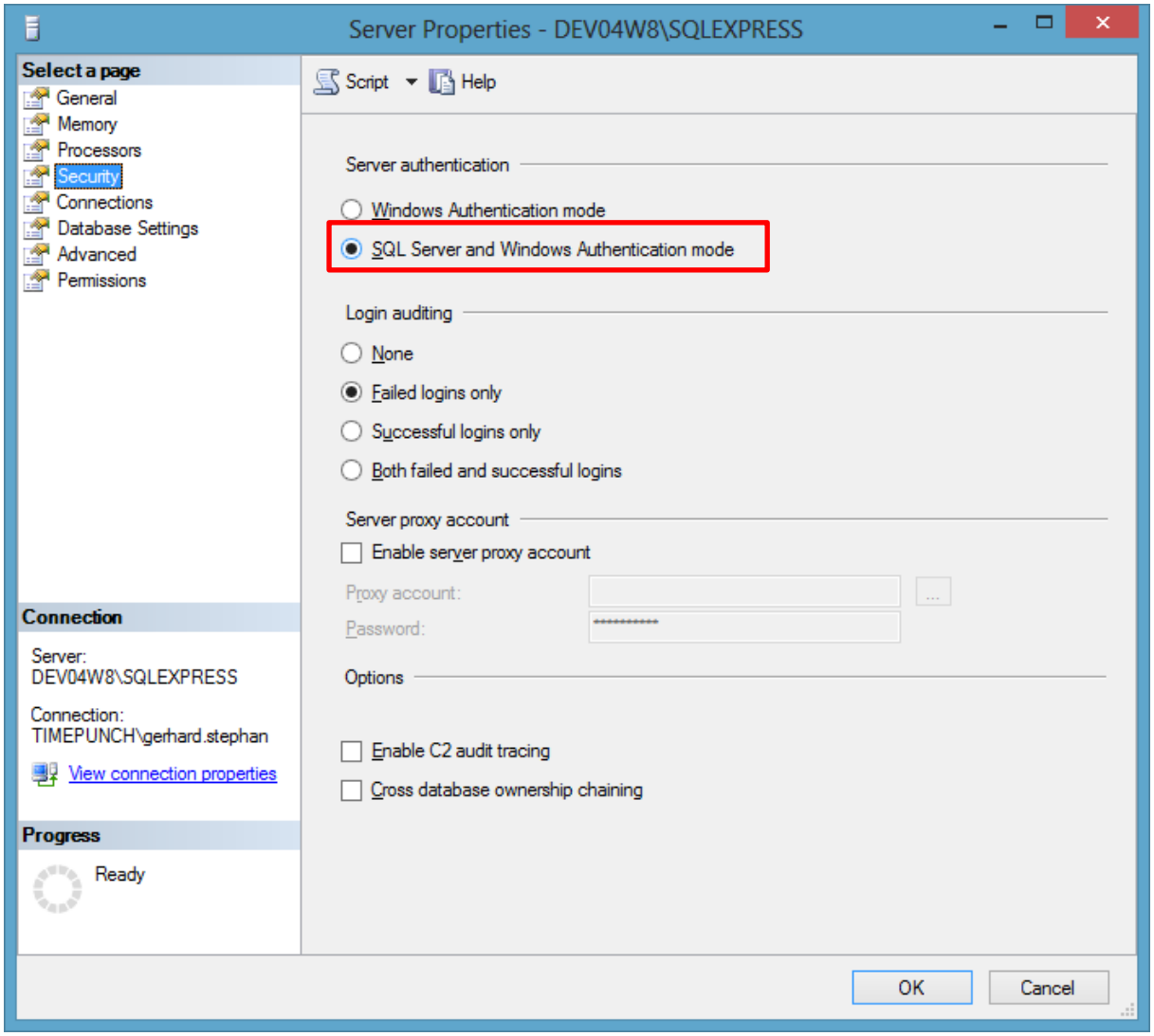
Enabling the SQL Server Authentication

In order to enable the authentication of TimePunch it's necessary to allow the SQL Server Authentication. The following steps are necessary:

1. Starting the SQL Server Management Studio.
2. Select the menu entry "properties" in the context menu of the server.



3. Enable the “SQL Server and Windows Authentication mode”



4. Confirm the settings with „OK“

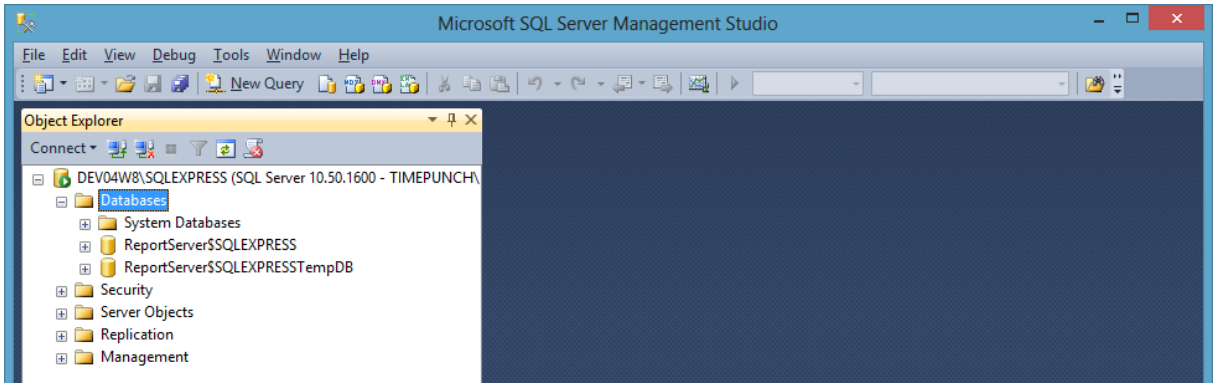
Setting up a new TimePunch database

The following pages describe how to set up a new Database and connect it with TimePunch.

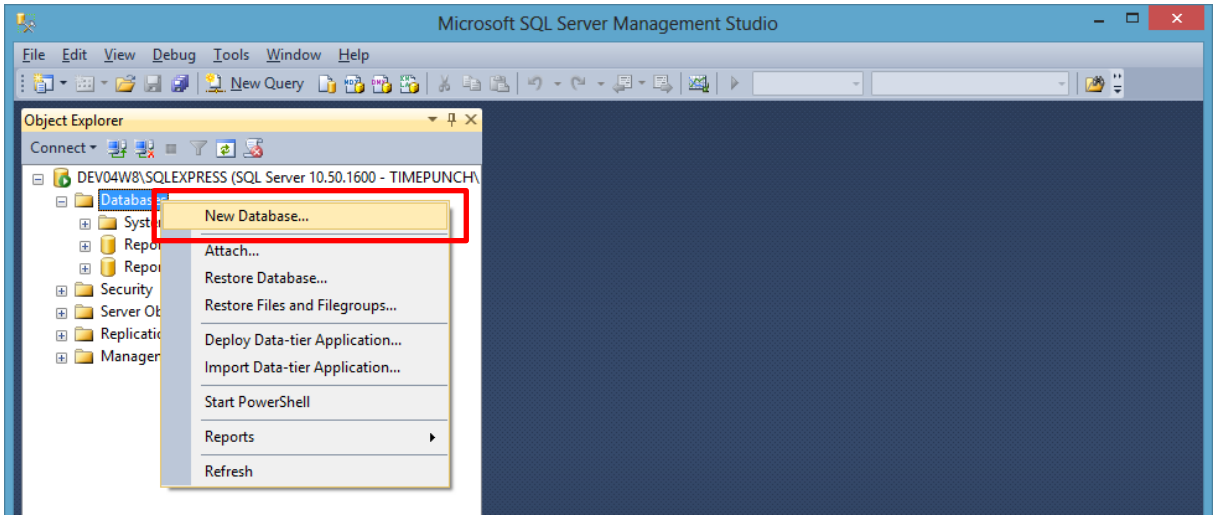
Creating a new TimePunch database

In order to create the TimePunch database for the first time, the following steps are necessary.

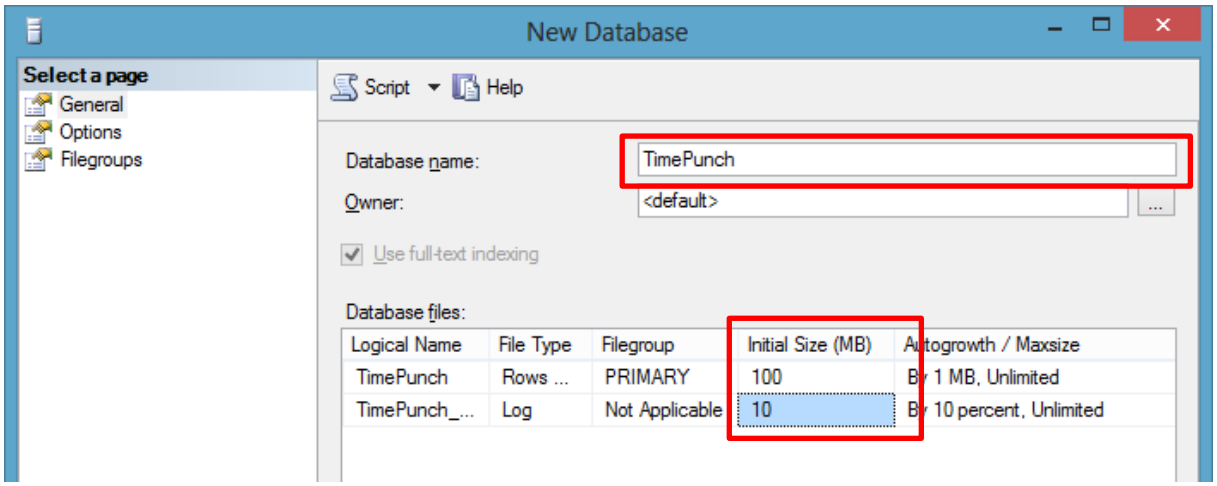
1. Start the “Microsoft SQL Server Management Studio”



2. Open the context menu of the databases and choose “New Database”



3. Select a user defined name for the database to create and define the initial size of the database.

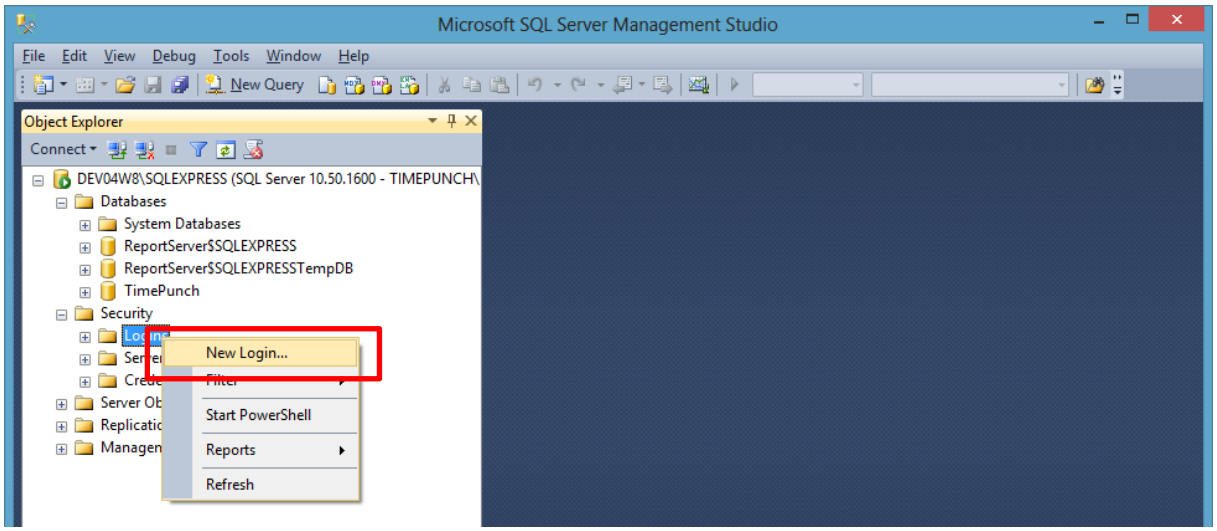


4. Create the database with “ok”

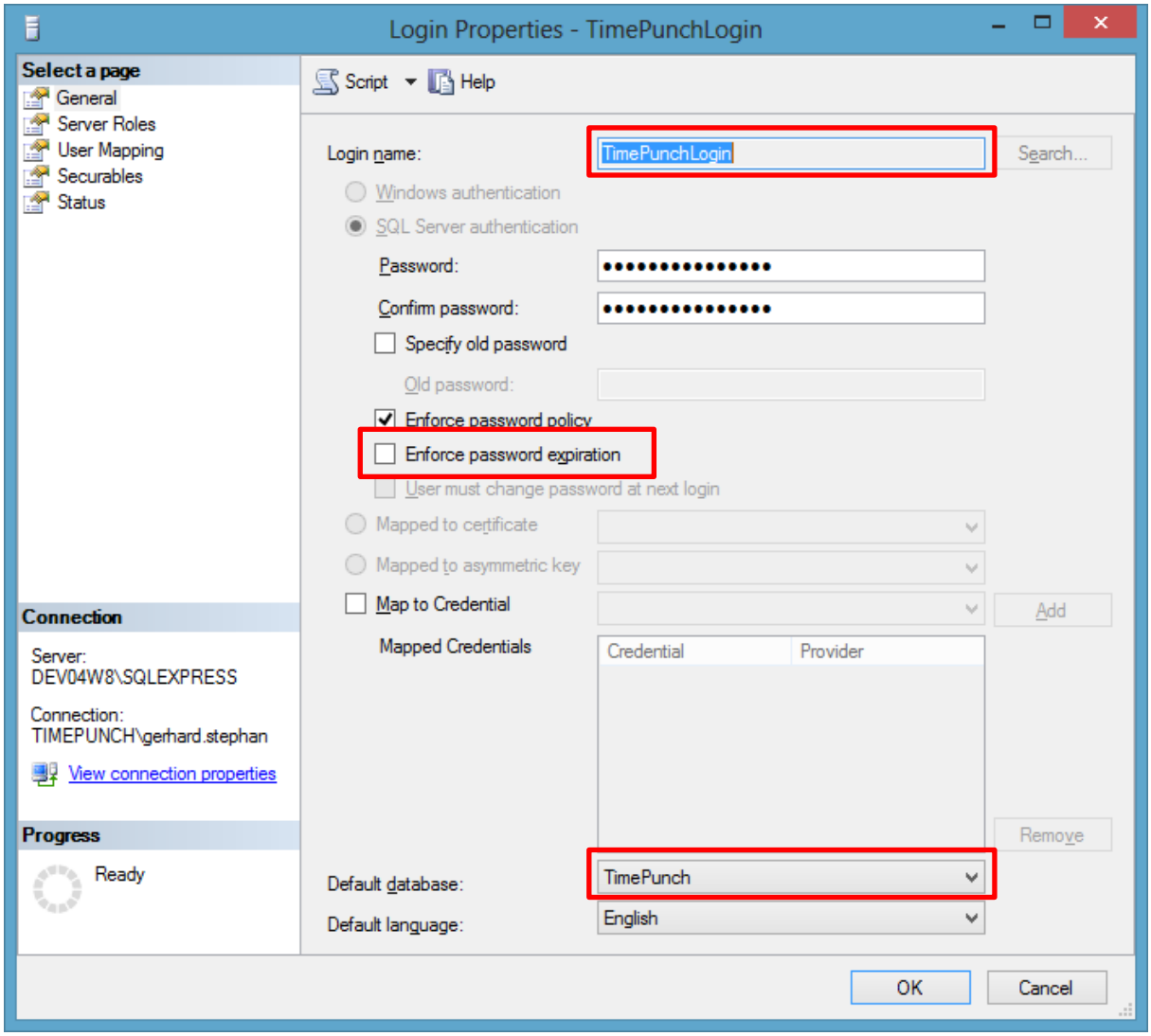
Creating a new database login

In order to access the database a new login for TimePunch is needed. The login can be created as following:

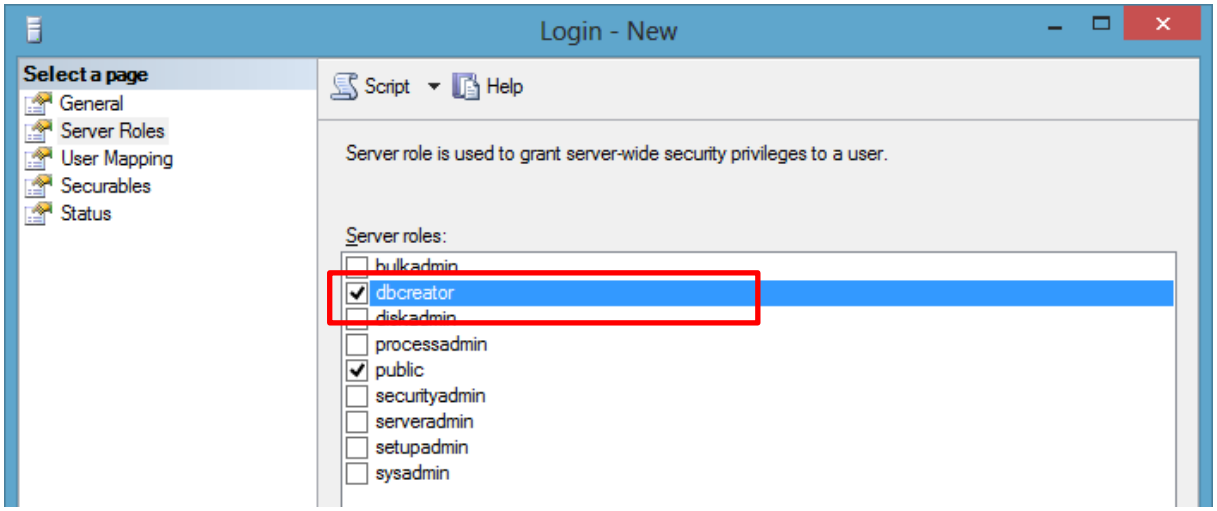
1. Open the context menu of “Logins” and select “New Login”.



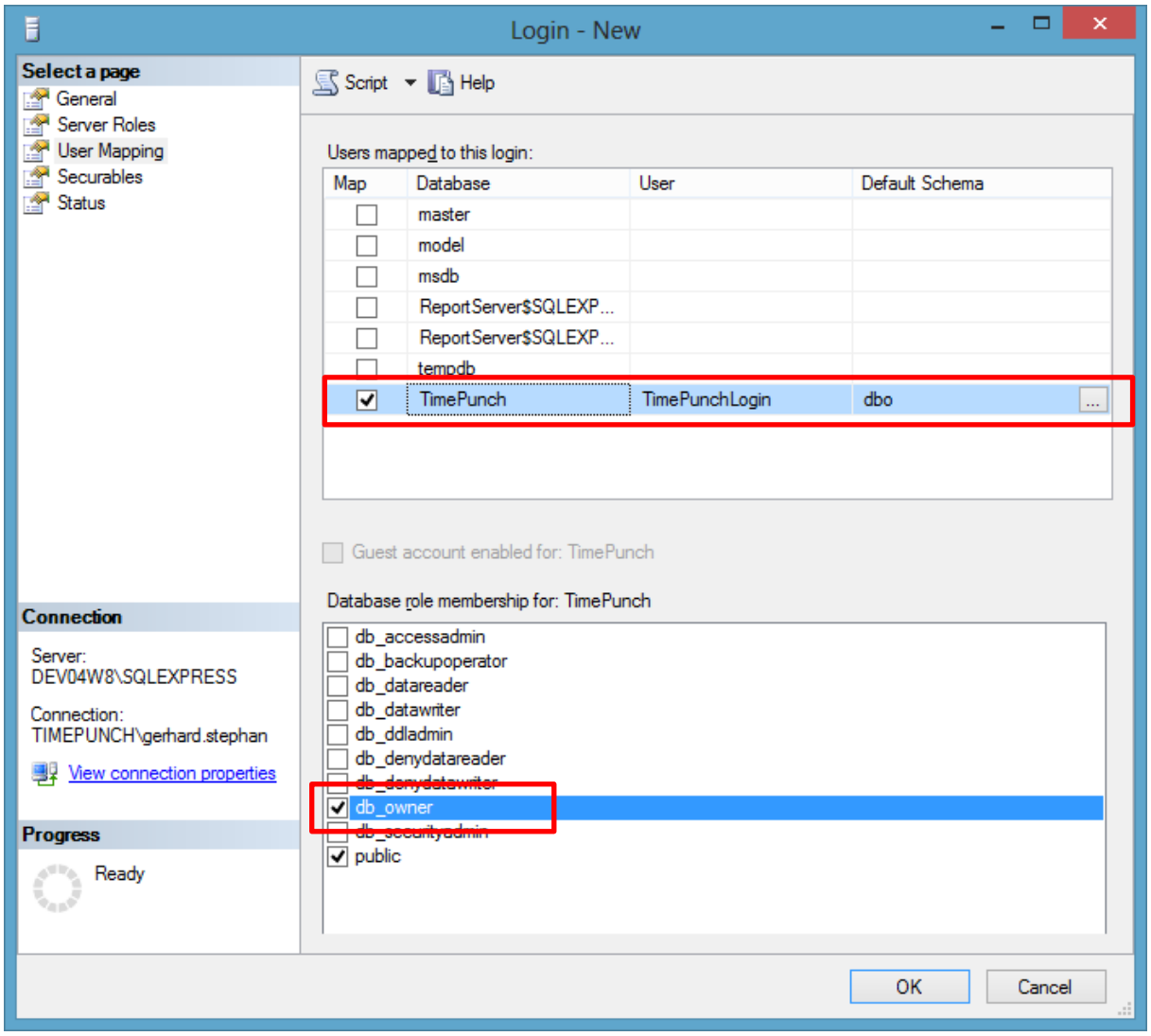
2. After that choose a new login name and select the previously created database as the default database for that login. Additionally the password expiration should be disabled, because otherwise one will be forced to update all TimePunch clients with a new password in order to establish the database connection.



3. Within the page “Server Roles” the role “dbcreator” needs to be applied.



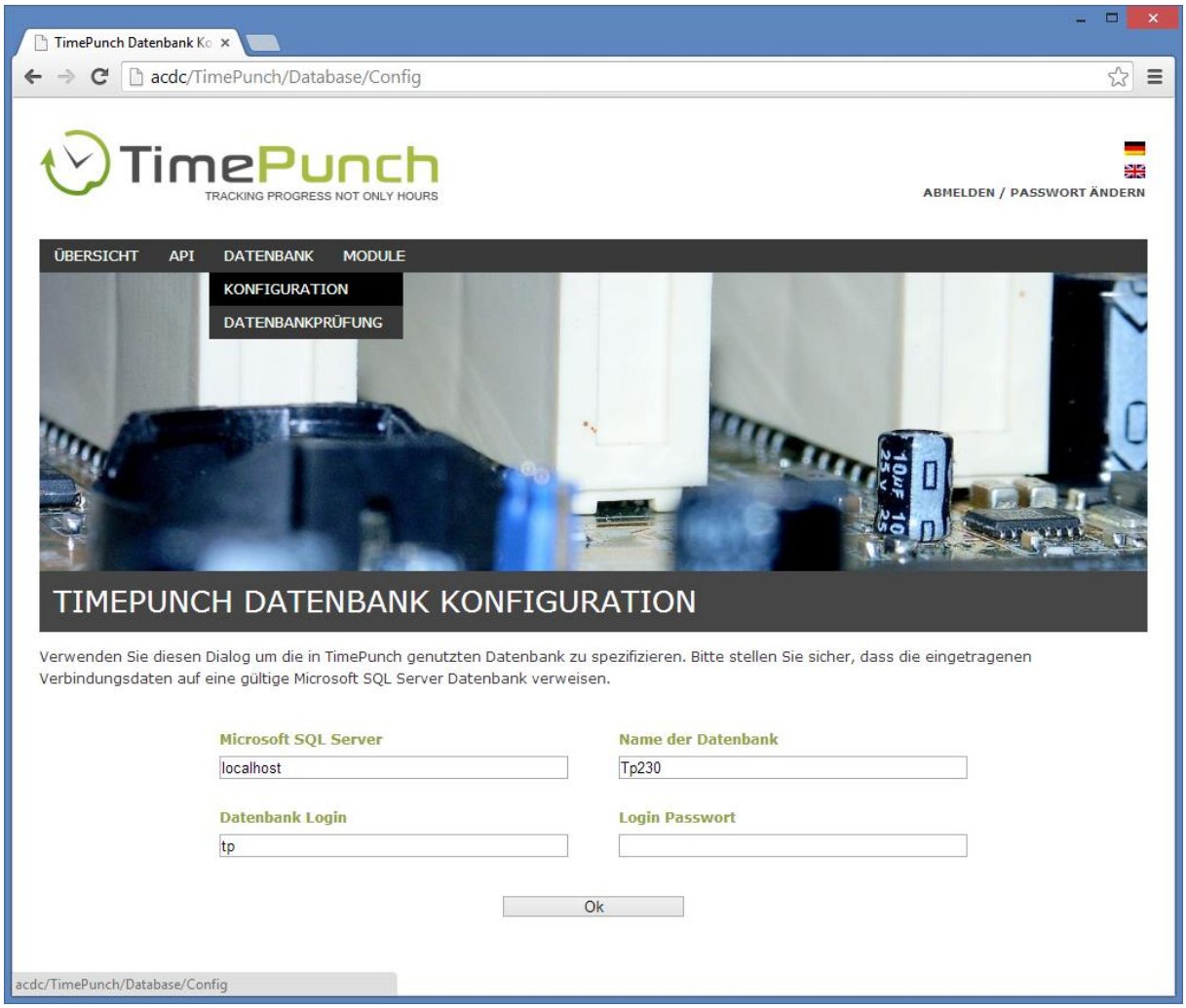
4. At the page “User Mappings” the new database login needs to be connected with the database user “dbo”. Additionally the role “db_owner” must be applied.



Initialize the Database with the TimePunch Server

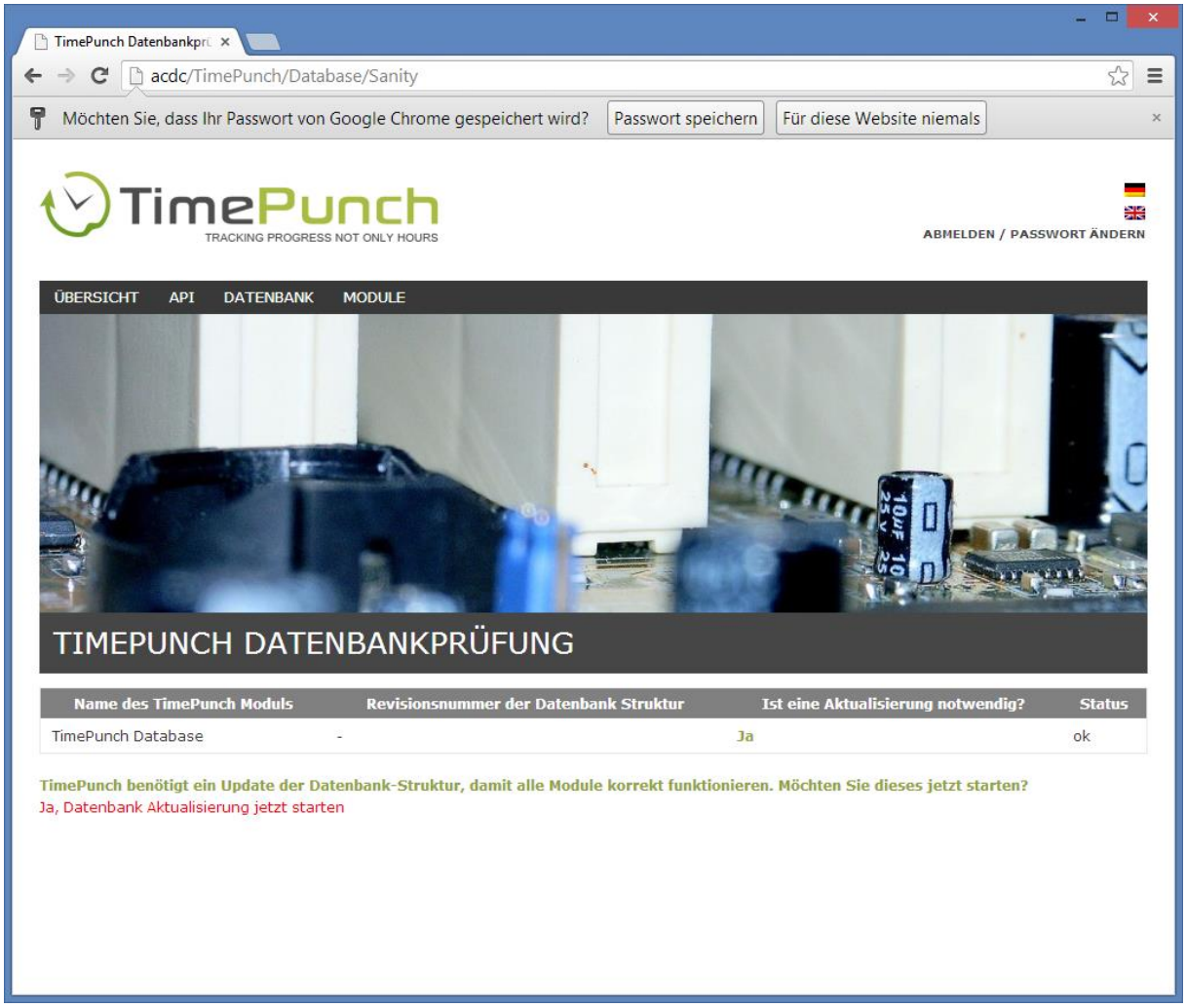
If one uses the TimePunch Server the database can be initialized by using the administration-pages of the TimePunch Server.

In order to allow TimePunch the access to the Microsoft SQL Server database, the database connection needs to be applied in the menu “DATABASE / CONFIGURATION”.

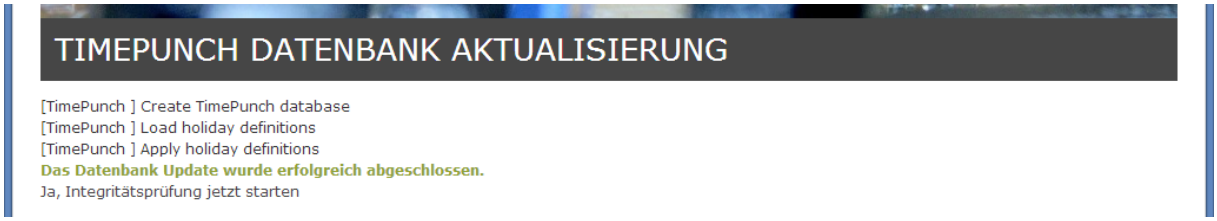


After the input of the database connection and the confirmation with “ok” the database connection gets validated.

In case of a new and empty database a first initialization is necessary. The following dialog will display this information.



By clicking to “yes, start the database update now”, the database will be set up and filled with static data.



After finishing the integrity check the database can be used with TimePunch.

Updating the TimePunch database to a current version

After a version update has been applied, it can be necessary to migrate the database to the current version.

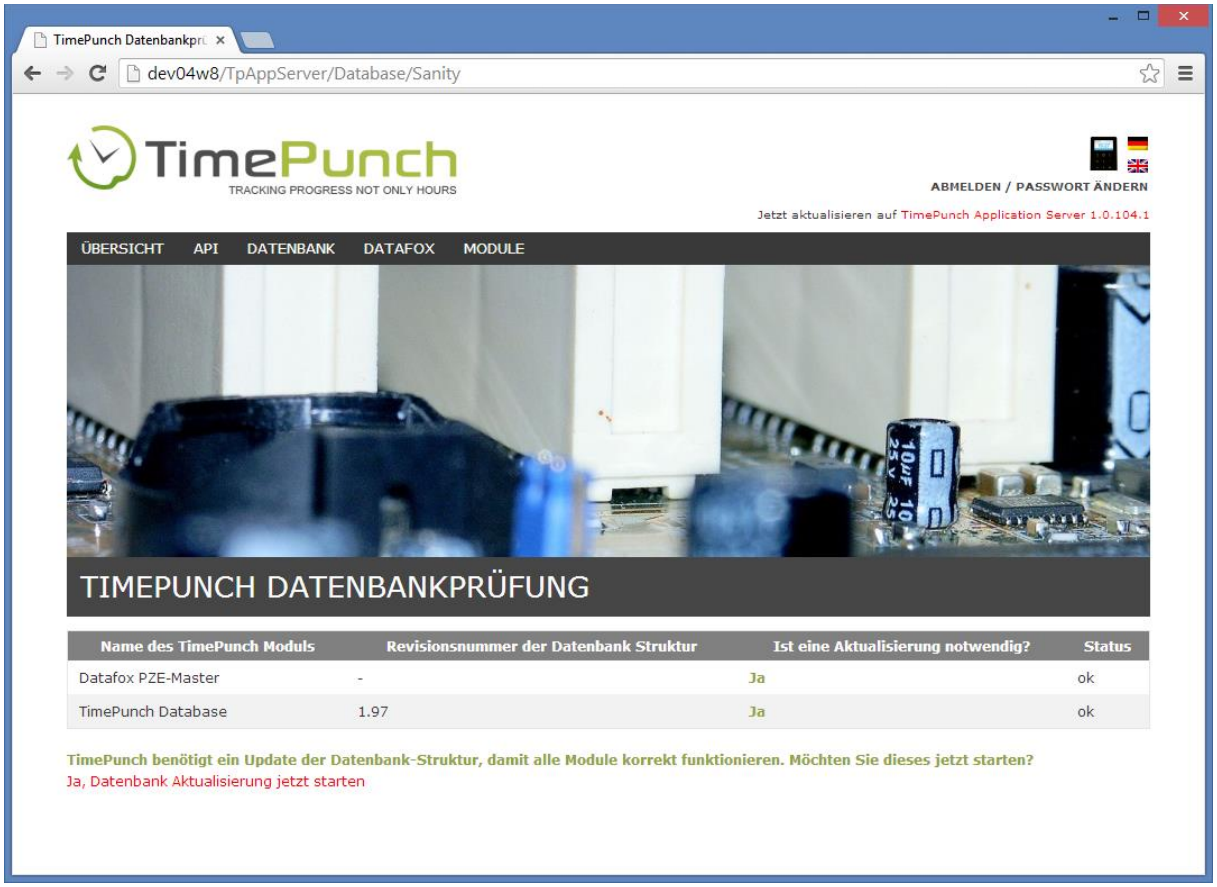
This can be done by using the Database Assistant of the Client or directly by using the TimePunch Application Server.

Updating the database with the TimePunch Server

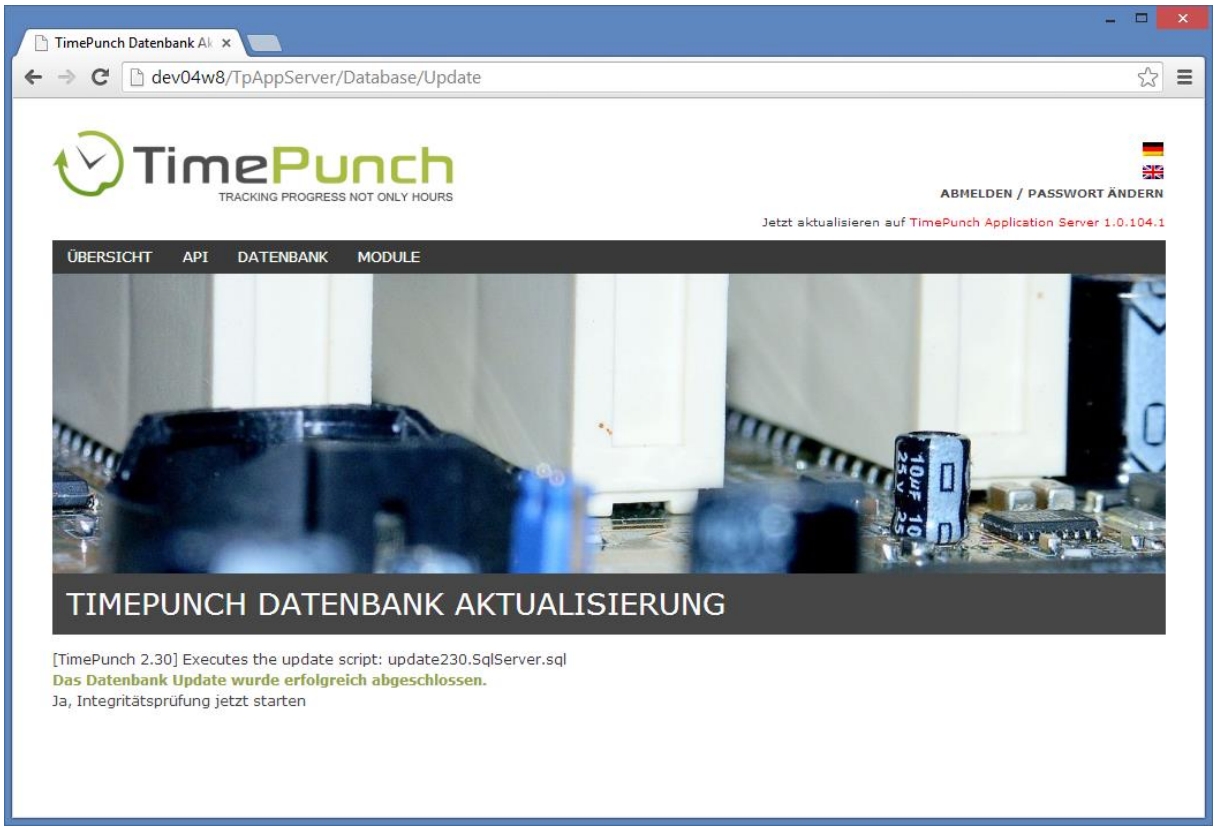
If the TimePunch Server is in use, the migration of the TimePunch database can be done directly via the TimePunch Application Server.

For that the following steps are necessary.

1. Select the menu entry “DATABASE / SANITY CHECK”



2. If a database migration is necessary, this will be displayed with a red link “yes, start the database update now”. By click to the link the database gets updated to the current version.



3. After finishing the migration an integrity check gets executed. Only after successfully finishing the integrity check, the database can be set as the default database and used in TimePunch.

Ende des Dokuments