

# SQL Express - Installation

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This document details how to install SQL Express for a Manitou server installation. If there are any questions on the documentation included in this document, please contact Bold Support.

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## Downloading SQL Server Express

To begin the installation, download the latest version of SQL Server available. (Currently SQL Server 2017)

1. Navigate to the SQL Server 2017 Download. (For SQL Express)
  - <https://www.microsoft.com/en-us/sql-server/sql-server-editions-express>
  - The download link will download a downloader.
  - Open the downloader once complete.
2. Select 'Download Media from the Downloader Utility'.
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3. Verify the Language is English.
4. Change the download option to Express Advanced.
5. Specify the intended download location.
  -
6. Select 'Download' to start downloading.

## Installing Microsoft SQL Server (MSSQL)

1. Open the directory where the download was completed.
2. Run the SQLEXPADV\_x64\_ENU.exe as administrator.
  - This will extract to a folder and auto-run the SQL Server Installation Center.
  - If it does not auto-run after extracting. Open the folder created and run setup.exe
3. From the SQL Server Installation Center select the following option
  - 'New SQL Server stand-alone installation or add features to an existing installation'

4. Accept the license terms and select Next.

5. SQL will verify the setup Files and Install Rules.

- If .Net 3.5 or .Net 4.5 are missing, please see the installation steps linked below.<sup>1</sup>
- If any rules are in the 'Warning' or 'Failed' state, click on the link under Status to see cautionary notes or how to fix details.

6. Under feature selection, leave all options as default. If options are suspect as being not default, verify they are set as marked below.

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7. Verify the installation paths are set as desired and select Next.

- Even when changing all installation paths to a separate Data drive, it still will need to install certain items to the OS (C:) drive.

8. Change the Instance Configuration to 'Default Instance' and select Next.

DO NOT leave the instance configured as a named instance. This creates extra steps for installation and configuration that will not be documented as the proper installation procedures.

- If a customer desires to have a named instance, let them know this is outside of our standard installation process and additional charges may be necessary. Additionally, notify a senior technician of the change in the installation process.

9. Verify the Database Engine is set to 'Automatic' startup type.

10. Select the collation tab located at the top of the install.

11. Verify the Collation is set exactly to SQL\_Latin1\_General\_CP1\_CI\_AS.

Latin1\_General\_CP1\_CI\_AS is not valid and must have the legacy "SQL\_" prefix!

12. Select Next.

13. Change the Database Authentication mode to Mixed Mode.

- Specify a password for the SQL Server system administrator (sa) account and note it on the customer system profile. (Should be randomly generated for security purposes)

- Create a new MSSQL user for an additional SQL Server Administrator.
  1. Open a 'run' dialog and run "lusrmgr.msc"
  2. Open the Users Folder
  3. Right-click in the middle window and select "New User..."
  4. Enter the details as follows, the password should be randomly generated and noted on the customer system profile.
    - ◻
  5. Once selecting Create, the User should now show within the Users Listing.
  6. Right-click on the user and select Properties.
  7. Select the Member Of tab and select Add...
  8. Verify the location is set to the machine name or localhost.
  9. Type in Administrators and select 'Check Names'
  10. Select OK, and then OK to close out the MSSQL user properties window.
  11. Close the lusrmgr dialog window and proceed to the next steps.
- Add the MSSQL user to the SQL Server administrators list.
- Add any additional users that need to be SQL Administrators.
  - ◻
- Select Next.

14. Select Accept and Next to any additional windows until SQL is installing.

15. Once the installation is complete select Finish and/or Close.

## Install SQL Server Management Studio (SSMS)

1. Open the SQL Server Installation Center.
  - If closed, it can be run by running SETUP.exe from the downloaded installation files.

2. Select 'Install SQL Server Management Tools'.
3. From the webpage that opens, select Download to start downloading SSMS.  
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4. Once the download is complete, run the installer for SQL Server Management Studio.
5. Select Install to start the process.

The installation of SQL is complete, you can now install the software that uses SQL server.