



INTEGRATION MODULE FOR MICROSOFT SQL SERVER

For Keverion Runbook Studio and Azure Automation

Release Notes

Version 2.4

September 2023

Microsoft
Azure

Certified

Introduction

The **Kelverion Integration Module for Microsoft SQL Server** is an Integration Module for **Runbook Studio** and **Azure Automation** that lets you manipulate and query data in SQL Server databases. The Kelverion Integration Module for Microsoft SQL Server is Microsoft Azure Certified.

The integration module includes the following activities:

Delete-SqlRow	Delete rows from a database table that satisfy a collection of filter criteria
Insert-SqlRow	Inserts a row into the specified table using the provided values
Invoke-SqlProcedure	Invokes the specified stored procedure
Invoke-SqlCommand	Invokes the specified SQL statement
Select-SqlRow	Selects rows from the specified database table using custom filter criteria
Update-SqlRow	Updates rows in the specified table using custom filters to determine which rows to update

System Requirements

The Integration Module for Microsoft SQL Server requires the following software to be installed and configured prior to implementing the integration. For more information about installing and configuring Microsoft SQL Server, refer to the respective product documentation.

- Kelverion Runbook Studio 5.6
- Microsoft .NET Framework 4.7.2

Any of these database servers:

- Microsoft SQL Server 2017, 2019, 2022
- Azure SQL Server

Installing the Integration Module

The easiest way to install and deploy the Integration Module for Microsoft SQL Server is from the PowerShell Gallery, but you can also download the module from Keverion and perform the steps manually.

You must install and deploy the Integration Module to each Azure Automation Account and Hybrid Worker host system that you plan to use to run your runbooks. You must also install the Integration Module on any Runbook Studio host systems that you will be using to build and manage your runbooks.

Using the PowerShell Gallery

Using the commands in the **PowerShellGet** module you can download the Keverion Integration Module for Microsoft SQL Server from the PowerShell Gallery and install it on your local computer. You can also deploy the module directly from the PowerShell Gallery to any of your Azure Automation Accounts.

Install the Integration Module on your local computer:

1. Confirm that you the PowerShellGet module installed.
2. Start a PowerShell window as Administrator and run the command:
Install-Module -Name Keverion.SqlServer -Scope AllUsers

Upload the Integration Module to an Azure Automation Account:

1. Go to the [PowerShell Gallery](#).
2. Click the **Azure Automation** tab.
3. Click **Deploy to Azure Automation**. You will be directed to Microsoft Azure.
4. Select the **Automation Account** that you want to deploy the module to.
5. Click **OK**.

Manual Installation

Alternatively, you can download the Integration Module package from Keverion and deploy it manually to your local computer, hybrid workers and Automation Accounts.

The download package from Keverion includes a **.zip** file containing the Integration Module as well as the User Guide and Release Notes. The following instructions assume that you have unzipped the download package and have access to the **.zip** file containing the Integration Module.

Install the Integration Module on your local computer:

1. Copy the **Kelverion.SqlServer.zip** file to your local computer.
2. Right-click on the file and select **Properties**.
3. Click the **General** tab. If necessary, click **Unblock**, and then click **OK**.
4. Unzip the **Kelverion.SqlServer.zip** file.
5. Copy the **Kelverion.SqlServer** folder to a location in the `%PsModulePath%` path.

Important: When installing the Integration Module on a Hybrid Worker, you must use a location that is accessible to all users of the computer.

Upload the Integration Module to an Azure Automation Account:

1. Sign into [Microsoft Azure](#).
2. Open the Automation Account that you want to upload the module to.
3. Click **Modules** under Shared Resources. The list of installed modules is displayed.
4. Click **Add a module** at the top of the list.
5. In the **Upload File** box, select the **Kelverion.SqlServer.zip** file that you downloaded.
6. Click **OK**. Importing the module may take several minutes.

Licensing the Integration Module

Licenses for Kelverion Integration Modules are managed and deployed using the *Kelverion Runbook Studio* and *Automation Connection Assets*.

Register an Integration Module license with Runbook Studio:

1. Open **Kelverion Runbook Studio**.
2. On the **File** tab, click **About**.
3. Click **License Information**.
4. Click the **Integration Modules** tab, and then click **Add License**.
5. Select the integration module license file (.kaml) and click **Open**.
6. You should see your entitlements displayed in the list.
7. Click **OK**.

Important: Entitlements will not display until after the Integration Module has been installed on the Runbook Studio computer.

Create a Connection Asset with a license key and upload it to Azure:

1. On the **Home** tab, click **Sign In**. The Sign In dialog appears.
2. Sign into your account.
3. In the **Active Azure Automation Account** box, select the account that you want to add the connection asset to.
4. Click **New Asset** and then click **Connection**. The New Connection dialog appears.
5. In the **Name** field, enter a name to identify the connection.
6. In the **Connection Type** field, select the desired connection type.
7. Enter the appropriate connection information in the provided fields.
8. Click **OK**.

Update all Connection Assets license keys and upload them to Azure:

1. On the **Home** tab, click **Sign In**. The Sign In dialog appears.
2. Sign into your account.
3. In the Explorer panel, click the **Azure (Online)** group.
4. Right-click the Azure Automation Account that contains the connection assets you want to update, and then click **Update License Keys**. A summary is displayed.

Version History

Version 2.4

- Added support for Microsoft SQL Server 2022
- Added support for column-level encryption.

Version 2.3

- Added support for Microsoft SQL Server 2019

Version 2.2

- Improved error message when no valid licenses are found.
- Added support for Microsoft SQL Server 2017

Version 2.1

- Removed remote NTP server dependency.

Version 2.0

- **This version is not backwards compatible with previous versions due to changes to the fields of the connection type used by this module. It is a new integration module with a new name and module identifier.**

- Removed requirement for Keverion Management Server. License files and entitlements are now managed in Keverion Runbook Studio.

Version 1.5

- Added support for different execute modes (query, scaler and non-query) to the **Invoke-SqlCommand** and **Invoke-SqlProcedure** activities.
- Updated activity names (removed pluralization) to make them more consistent with PowerShell naming conventions.

Version 1.3

- Support for Runbook Studio v2.0
- Update License Agreement

Version 1.2

- Complete redesign of all activities in the integration module to improve integration with Keverion Runbook Studio, Azure Automation and Service Management Automation.

Version 1.0

- The Keverion Integration Module for Microsoft SQL Server is a new Integration Module for Runbook Studio and Azure Automation that lets you manipulate and query data in SQL Server databases.