

# Database Mapper System Requirements

Last Modified on 05 November 2021

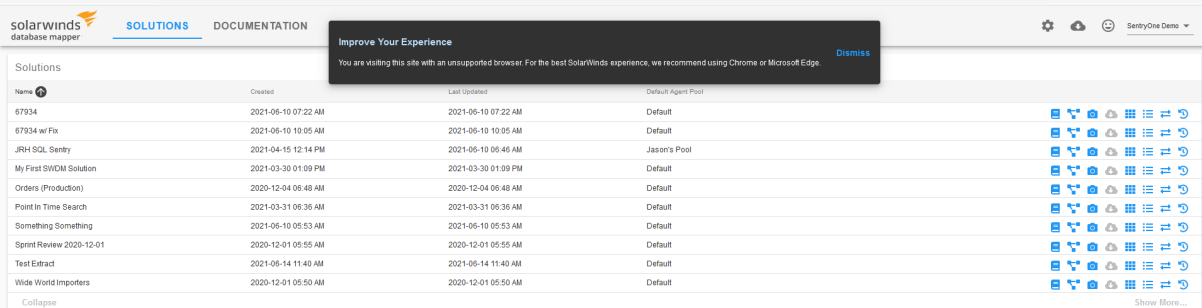
**🔔 Update:** SentryOne Document is now SolarWinds Database Mapper (DMR). See the [Database Mapper product page](#) to learn more about features and licensing. Want to explore Database Mapper? An [interactive demo environment](#) is available without any signup requirements.

## System Requirements

### Compatible Browsers

- Chrome
- Edge

**📘 Note:** Using an unsupported browser to access Database Mapper prompts an **Improve Your Experience** message, and asks you to use Chrome or Microsoft Edge for the best experience.



The screenshot shows the SolarWinds Database Mapper interface. At the top, there is a navigation bar with 'SOLUTIONS' and 'DOCUMENTATION' tabs. A notification box titled 'Improve Your Experience' is overlaid on the page, stating: 'You are visiting this site with an unsupported browser. For the best SolarWinds experience, we recommend using Chrome or Microsoft Edge.' Below the notification is a table of solutions.

| Name                     | Created             | Last Updated        | Default Agent Pool |              |
|--------------------------|---------------------|---------------------|--------------------|--------------|
| 67934                    | 2021-06-10 07:22 AM | 2021-06-10 07:22 AM | Default            |              |
| 67934 w/ Fix             | 2021-06-10 10:05 AM | 2021-06-10 10:05 AM | Default            |              |
| JRH SQL Sentry           | 2021-04-15 12:14 PM | 2021-06-10 06:46 AM | Jason's Pool       |              |
| My First SWDM Solution   | 2021-03-30 01:09 PM | 2021-03-30 01:09 PM | Default            |              |
| Orders (Production)      | 2020-12-04 06:48 AM | 2020-12-04 06:48 AM | Default            |              |
| Point In Time Search     | 2021-03-31 06:36 AM | 2021-03-31 06:36 AM | Default            |              |
| Something Something      | 2021-06-10 05:53 AM | 2021-06-10 05:53 AM | Default            |              |
| Sprint Review 2020-12-01 | 2020-12-01 05:55 AM | 2020-12-01 05:55 AM | Default            |              |
| Test Extract             | 2021-06-14 11:40 AM | 2021-06-14 11:40 AM | Default            |              |
| Wide World Importers     | 2020-12-01 05:50 AM | 2020-12-01 05:50 AM | Default            |              |
| Collapse                 |                     |                     |                    | Show More... |

## Database Mapper Software

**Database Mapper Software** is an on-premises, browser-based option for documenting your data estate. This product is a replacement for the [DOC xPress](#) product and is the self-hosted version of [Database Mapper cloud](#).

**📘 Note:** Hardware requirements are workload-specific. The specs listed below are the minimum recommended.

If you're using **Database Mapper Software** (the on-premises, self-hosted version), the hardware requirements are:

- 2 CPU cores
- 8+ GB RAM

- 40+ GB free storage space

The software requirements for **Database Mapper Software** are :

- SQL Server 2012 or later (to host the Database Mapper database)
- Database Mapper Software uses port 44302 for the UI host and port 44322 for the API.

## Database Mapper Software Host

To install the Database Mapper Software Host, your machine must have [Microsoft .NET Core 3.1 Desktop Runtime \(v3.1.19\)](#).

## Database Mapper Software Additional Permissions

This user (or the account you change it to) must have **read/write access** to:

- **C:\Program Files (x86)\SentryOne\SentryOne Document** (or your custom installation directory)
- **C:\Windows\Temp**
- **C:\ProgramData\SentryOne\Document\\_blobStorage**

If you are using Windows authentication to access the Database Mapper database, the user account must:

1. Exist as a login account on the database server
2. Have access to the Database Mapper database
3. Be added to the **db\_datareader**, **db\_datawriter**, and **db\_ddlamin** roles on the Database Mapper database

**Note:** The **Database Mapper Software** installer grants the required access to the SentryOneDocument database for the *NETWORK SERVICE* account.

## Remote Agent

**Note:** Hardware requirements are workload-specific. The specs listed below are the minimum recommended. As agent workloads do not benefit significantly from parallelization, one or two cores for each agent is recommended.

### Remote Agent Permissions

#### Remote Agent Service Account

The remote agent service account must have the following for both **Database Mapper Cloud** and **Database Mapper Software**:

- *Log on as a service* rights
- *Log on as a batch job* rights
- *Write* access to the remote agent's config file located at  
`C:\ProgramData\PragmaticWorks\ServiceCore\SentryOneDocumentRemoteAgentService.{Agent Name}.xml`

[Additional Information](#): See the [Log on as a service](#) article on Microsoft Docs for instructions.

### Multi-Factor Authentication

Using service accounts that require Multi-Factor Authentication (MFA) is not currently supported for connecting the remote agent service to Azure SQL Database targets. It is recommended that generalized service accounts are used for configuring connection credentials rather than accounts that are directly linked to users. For environments that require MFA for Azure Active Directory users, a service account can be excluded from the MFA requirement by using an exclusion for conditional access.

[Additional Information](#): See the [Use Azure AD access reviews to manage users excluded from Conditional Access policies](#) article on Microsoft Docs for guidance on how to set up exclusions for MFA.

### Remote Agent Hardware

- Recommend a relatively recent 64-bit processor, 8+ GB of RAM, and 20+ GB free storage space.

### Remote Agent Software

- Windows PC with .NET 4.6.1 installed

### Remote Agent Supported Operating Systems

| 64-bit (x64) Operating Systems | 32-bit (x86) Operating Systems |
|--------------------------------|--------------------------------|
| Windows Server 2012            | Windows Server 2012            |
| Windows Server 2016            | Windows 8                      |
| Windows 8                      | Windows 10                     |
| Windows 10                     |                                |

## Supported Provider Versions

---

| Provider  | Supported Versions  |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
|---|---|--|--|--------------------------|--------------------------|------------------------------|---|---|--|---|---|--|---|--|--|
| MySQL   | MySQL versions 5.6 through 8  |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| Oracle  | Oracle versions 12c Release 1 through 21c   |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| PostgreSQL  | PostgreSQL versions 9.5 through 13.2  |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| SQL   | <table border="1" data-bbox="387 736 1402 1214"> <thead> <tr> <th data-bbox="387 736 895 819">64-bit Operating Systems</th> <th colspan="2" data-bbox="895 736 1402 819">32-bit Operating Systems</th> </tr> </thead> <tbody> <tr> <td data-bbox="387 819 895 931">Microsoft SQL Server 2012 (or later)<br/>Shared Management Objects x64</td> <td colspan="2" data-bbox="895 819 1402 931">Microsoft SQL Server 2012 (or later)<br/>Shared Management Objects x86</td> </tr> <tr> <td data-bbox="387 931 895 1068">Microsoft SQL Server 2012 (or later)<br/>Shared Management Objects x86</td> <td colspan="2" data-bbox="895 931 1402 1068">Microsoft System CLR Types for<br/>Microsoft SQL Server 2012 (or later)<br/>x86</td> </tr> <tr> <td data-bbox="387 1068 895 1214">Microsoft System CLR Types for<br/>Microsoft SQL Server 2012 (or later)<br/>x64</td> <td colspan="2" data-bbox="895 1068 1402 1214"></td> </tr> </tbody> </table> <p data-bbox="387 1249 1342 1319"><b>Note:</b> Microsoft SQL Server Transact-SQL ScriptDom is included in the Database Mapper installer.</p> <p data-bbox="387 1357 1398 1503"><b>Important:</b> The SQL Server provider works against SQL Server 2005 and above when connecting to both SQL Server On-Premises and Azure Instances. The SQL Server Provider can collect columns with the Sensitivity Classification in Azure, and SQL Server 2019.</p> |  |  | 64-bit Operating Systems | 32-bit Operating Systems |                              | Microsoft SQL Server 2012 (or later)<br>Shared Management Objects x64 | Microsoft SQL Server 2012 (or later)<br>Shared Management Objects x86 |  | Microsoft SQL Server 2012 (or later)<br>Shared Management Objects x86 | Microsoft System CLR Types for<br>Microsoft SQL Server 2012 (or later)<br>x86 |  | Microsoft System CLR Types for<br>Microsoft SQL Server 2012 (or later)<br>x64 |  |  |
| 64-bit Operating Systems  | 32-bit Operating Systems  |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| Microsoft SQL Server 2012 (or later)<br>Shared Management Objects x64         | Microsoft SQL Server 2012 (or later)<br>Shared Management Objects x86   |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| Microsoft SQL Server 2012 (or later)<br>Shared Management Objects x86         | Microsoft System CLR Types for<br>Microsoft SQL Server 2012 (or later)<br>x86   |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| Microsoft System CLR Types for<br>Microsoft SQL Server 2012 (or later)<br>x64 |   |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| SSAS  | <table border="1" data-bbox="387 1612 1402 2047"> <thead> <tr> <th data-bbox="387 1612 729 1724">64-bit Operating Systems</th> <th data-bbox="729 1612 1066 1724">32-bit Operating Systems</th> <th data-bbox="1066 1612 1402 1724">SSAS Azure Analysis Services</th> </tr> </thead> <tbody> <tr> <td data-bbox="387 1724 729 1904">Microsoft SQL Server 2012 (or later) Analysis Management Objects x64</td> <td data-bbox="729 1724 1066 1904">Microsoft SQL Server 2012 (or later) Analysis Management Objects x86</td> <td data-bbox="1066 1724 1402 1904"> <ul style="list-style-type: none"> <li>Microsoft Azure Analysis Services Client Libraries</li> </ul> </td> </tr> <tr> <td data-bbox="387 1904 729 2047">Microsoft SQL Server 2012 (or later) Analysis Management Objects x86</td> <td data-bbox="729 1904 1066 2047"></td> <td data-bbox="1066 1904 1402 2047"></td> </tr> </tbody> </table>  |  |  | 64-bit Operating Systems | 32-bit Operating Systems | SSAS Azure Analysis Services | Microsoft SQL Server 2012 (or later) Analysis Management Objects x64  | Microsoft SQL Server 2012 (or later) Analysis Management Objects x86  | <ul style="list-style-type: none"> <li>Microsoft Azure Analysis Services Client Libraries</li> </ul> | Microsoft SQL Server 2012 (or later) Analysis Management Objects x86  |   |  |   |  |  |
| 64-bit Operating Systems  | 32-bit Operating Systems  | SSAS Azure Analysis Services   |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| Microsoft SQL Server 2012 (or later) Analysis Management Objects x64          | Microsoft SQL Server 2012 (or later) Analysis Management Objects x86  | <ul style="list-style-type: none"> <li>Microsoft Azure Analysis Services Client Libraries</li> </ul> |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |
| Microsoft SQL Server 2012 (or later) Analysis Management Objects x86          |   |  |  |                          |                          |                              |   |   |  |   |   |  |   |  |  |

|                                 |  |
|---------------------------------|--|
| <b>Provider</b>                 | <p><b>⚠ Important:</b> The SSAS provider works against SSAS 2005 and above when connecting to <b>Supported Versions</b> instances and SSAS 2012 and above when connecting to a Tabular Instances.</p>  |
| SSIS                            | SQL Server Integration Services 2012 or later  |
| SSRS and Power BI Report Server | <ul style="list-style-type: none"> <li>• SQL Server Reporting Services (2012 or later)</li> <li>• Support provided for the following report locations: <ul style="list-style-type: none"> <li>◦ File System: SQL Server 2012 or later</li> <li>◦ Native Web Services: SQL Server 2012 or later</li> <li>◦ SharePoint Web Service: SQL Server 2012 or later</li> </ul> </li> </ul> <p><b>📌 Note:</b></p> <ul style="list-style-type: none"> <li>• These requirements are for Power BI Report Server. Power BI itself does not have any additional requirements beyond what is required for Database Mapper.</li> <li>• KPIs and Mobile Reports are currently not supported when connecting to an SSRS 2016 or above Report Server.</li> </ul> |
| Tableau                         | Tableau Servers with <b>REST API</b> enabled with the following API Versions: 2.3, 2.2, 2.1 and 2.0.   |

**🚫 Unsupported:** SQL, SSAS, SSIS, and SSRS versions 2008 R2 and earlier are not officially supported. The providers remain accessible in the software if the prerequisites are met, however, we will not be able to provide support for any issues that are specific to these older releases.

## Required Provider Files

**⚠ Important:** Provider files must be installed on the machine that will run your Database Mapper Remote Agent. For more information about installing the Remote Agent, see the [Remote Agent](#) article.

**📌 Note:** Due to legal restrictions, some libraries cannot be redistributed by software providers. Database Mapper does not include the following libraries:

| Provider | Requirement   |
|----------|---|
| SSAS     | <p>You need to install Microsoft @ .NET 4.5 to monitor SSAS 2017.</p> <p>To connect to Azure Analysis Services, you need to download and install the latest</p> |

| Provider                        | Microsoft Analysis Services Client Libraries.<br><b>Requirement</b>   |
|---------------------------------|---|
| SSIS                            | <p>To monitor SSIS 2012 or later, you need to install SQL Server Data Tools or Business Intelligence Development Studio.</p> <p><b>Note:</b> You need to select <b>SQL Server Integration Services</b> when installing SQL Server features in Microsoft SQL Server Data Tools.</p> <p>You need to have any Third-Party Products (Connection Managers, Tasks, Components, etc) that are used within the SSIS Package(s) installed to document your packages.</p> |
| SSRS and Power BI Report Server | <p>To monitor SSRS 2012 or later, or to monitor Power BI Report Server, you need to install SQL Server Data Tools or Business Intelligence Development Studio.</p> <p><b>Note:</b> You need to select <b>SQL Server Reporting Services</b> when installing SQL Server features in Microsoft SQL Server Data Tools.</p>  |

## Downloading Provider Files from Microsoft

**Note:** These instructions reference an external system from Microsoft and may appear differently than described below.

Download the additional provider requirements by completing the following steps:

1. Navigate to the [Microsoft SQL Server 2012 SP4 Feature Pack](#).

2. Select the following additional files:

- **SharedManagementObjects.msi 6.4mb**
- **SharedManagementObjects.msi 7.6mb**
- **SQL\_AS\_AMO.msi 3.6mb**
- **SQL\_AS\_AMO.msi 2.7mb**
- **SqlDom.msi 2.4mb**
- **SqlDom.msi 2.2mb**
- **SQLSysClrTypes.msi 2.1mb**
- **SQLSysClrTypes.msi 2.4mb**

3. Select **Next**.

Choose the download you want

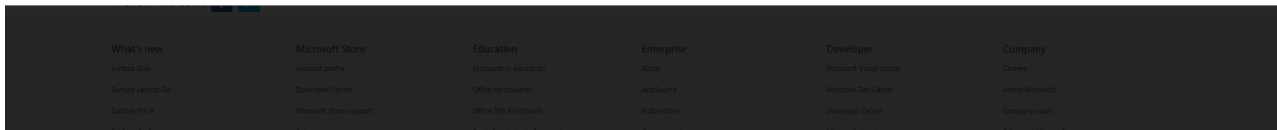
| File Name  | Size    |
|--|---------|
| <input checked="" type="checkbox"/> SQLSysClrTypes.msi | 2.1 MB  |
| <input checked="" type="checkbox"/> SQLSysClrTypes.msi | 2.4 MB  |
| <input type="checkbox"/> SqlUa.msi                     | 8.9 MB  |
| <input type="checkbox"/> SqlUa.msi                     | 13.0 MB |
| <input type="checkbox"/> SSBEAS.msi                    | 2.3 MB  |
| <input type="checkbox"/> SSBEAS.msi                    | 2.6 MB  |

Download Summary:  
KB/MB

1. SharedManagementObjects.msi
2. SharedManagementObjects.msi
3. SQL\_AS\_AMO.msi
4. SQL\_AS\_AMO.msi
5. SqlDom.msi
6. SqlDom.msi
7. SQLSysClrTypes.msi
8. SQLSysClrTypes.msi

Total Size: 29.5 MB

[Next](#)



#### 4. Select **Download** to install the selected components.

microsoft.com/en-us/download/details.aspx?id=56041

Microsoft® SQL Server® 2012 SP4 Feature Pack

*Important!* Selecting a language below will dynamically change the complete page content to that language.

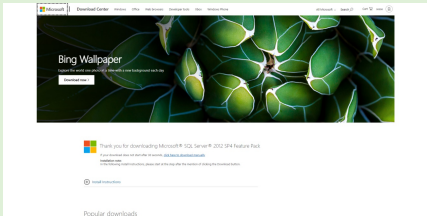
Select Language:  [Download](#)

The Microsoft® SQL Server® 2012 SP4 Feature Pack is a collection of stand-alone packages which provide additional value for Microsoft® SQL Server® 2012 SP4.

- + Details
- + System Requirements
- + Install Instructions
- + Additional Information

Follow Microsoft

**Success:** You have now downloaded the additional provider requirements!



## Permissions

It's recommended that the machine running the remote agent has network access and permission to access all the solution items that you want to scan. See the [Remote Agents](#) article for additional recommendations about where to install them.

**Note:** Database Mapper (the cloud version at [document.sentryone.com](https://document.sentryone.com)) uses <https://document-api.services.sentryone.com/> as the communication endpoint and port 443 for HTTPS. These will need to be allowed by your firewall.

## Technology-Specific Permissions

| Technology     | Required Permissions  |
|----------------|---|
| Azure Power BI | <ul style="list-style-type: none"> <li>• <b>Content.Create</b> <ul style="list-style-type: none"> <li>◦ Delegated</li> <li>◦ Create content</li> </ul> </li> <li>• <b>Dashboard.Read.All</b> <ul style="list-style-type: none"> <li>◦ Delegated</li> <li>◦ View all dashboards</li> </ul> </li> <li>• <b>Dashboard.ReadWrite.All</b> <ul style="list-style-type: none"> <li>◦ Delegated</li> <li>◦ Read and write all dashboards</li> </ul> </li> <li>• <b>Dataset.ReadWrite.All</b> <ul style="list-style-type: none"> <li>◦ Delegated</li> <li>◦ Read and write all datasets</li> </ul> </li> <li>• <b>Group.Read</b> <ul style="list-style-type: none"> <li>◦ Delegated</li> <li>◦ View user's groups</li> </ul> </li> <li>• <b>Report.ReadWrite.All</b> <ul style="list-style-type: none"> <li>◦ Delegated</li> <li>◦ Read and write all reports</li> </ul> </li> </ul>   |
| MySQL          | <ul style="list-style-type: none"> <li>• Requires <i>SELECT</i> permission on <i>mysql.user</i>.</li> <li>• Permissions on any tables that will be documented.</li> <li>• For triggers to be included, the <i>TRIGGER</i> privilege is required.</li> <li>• For the definitions of stored procedures and functions to be included in the documentation, user must be named in the <i>DEFINER</i> clause for the object; or for MySQL prior to version 8, user needs <i>SELECT</i> permission on <i>mysql.proc</i>, or for MySQL version 8 (or later), user needs <i>SHOW_ROUTINE</i> privilege. <ul style="list-style-type: none"> <li>◦ <b>Note:</b> If permissions for these are not in effect, but the user has a permission (<i>SELECT</i>, <i>INSERT</i> etc.) on the object, then that object will be in the documentation but the definition section will be missing.</li> </ul> </li> </ul> <p><b>Examples</b></p> <p>Setting permissions on a limited user account (to enable configuring a solution item and taking a snapshot):</p> <pre style="border: 1px solid #ccc; padding: 5px;">GRANT SELECT ON mysql.user TO 'MyUserName'@'%'; GRANT SELECT, TRIGGER ON myschema.* TO 'MyUserName'@'%'; -- ALL tables/views</pre> <p>For stored procedures or functions:</p> <p>MySQL prior to version 8:</p> <pre style="border: 1px solid #ccc; padding: 5px;">GRANT SELECT ON mysql.proc TO 'MyUserName'@'%';</pre> |



|                                 |   |
|---------------------------------|---|
| <b>Technology</b>               | <p>MySQL version 8 (or later):<br/> <b>Required Permissions</b></p> <pre>GRANT SHOW_ROUTINE ON *.* TO 'lockdownuser'@'%';</pre>   |
| Oracle                          | <ul style="list-style-type: none"> <li>• Permissions are required to connect to the database.</li> <li>• Permissions are required to access any objects that will be documented.</li> <li>• For triggers to be documented, the <i>CREATE ANY TRIGGER</i> privilege is required.</li> </ul>  |
| PostgreSQL                      | <ul style="list-style-type: none"> <li>• Requires <i>LOGIN</i> privilege</li> <li>• Requires <i>CONNECT</i> privilege to the database</li> <li>• Requires permissions on any objects you want to document. <ul style="list-style-type: none"> <li>◦ <b>Note:</b> For triggers to be included, extra privileges on the table other than <i>SELECT</i> alone are required (e.g. <i>INSERT</i>)</li> </ul> </li> </ul> <p><b>Example</b></p> <p>Setting permissions on a limited user account (to enable configuring a solution item and taking a snapshot):</p> <pre>ALTER ROLE myusername WITH LOGIN;  GRANT CONNECT ON DATABASE mydatabase TO myusername;  GRANT SELECT, INSERT ON ALL TABLES IN SCHEMA myschema TO myusername;</pre> |
| SQL Server                      | <ul style="list-style-type: none"> <li>• Sysadmin permissions for the SQL Server you want to document</li> <li>• Definition permissions for any object you want to document</li> <li>• Non-sysadmin users must be granted View Server State permissions to view log file objects within the documentation.</li> </ul>   |
| SQL Server Analysis Services    | <ul style="list-style-type: none"> <li>• Multidimensional: <ul style="list-style-type: none"> <li>◦ Read definition permission on each database object you want to document</li> </ul> </li> <li>• Tabular: <ul style="list-style-type: none"> <li>◦ Administrator permission on each database object you want to document</li> </ul> </li> <li>• Azure Analysis Services <ul style="list-style-type: none"> <li>◦ Azure Active Directory credentials are required</li> </ul> </li> </ul>   |
| SQL Server Integration Services | <ul style="list-style-type: none"> <li>• SSIS Catalog: <ul style="list-style-type: none"> <li>◦ Read and Modify permission for each project within the SSISDB you want to analyze</li> </ul> </li> </ul>  |
| SQL Server                      | <ul style="list-style-type: none"> <li>• Folder Security Settings: <ul style="list-style-type: none"> <li>◦ Minimum Predefined User Roles required: <ul style="list-style-type: none"> <li>▪ My Reports</li> <li>▪ Content Manager</li> </ul> </li> <li>◦ Minimum Tasks required for a custom User Role: <ul style="list-style-type: none"> <li>▪ View Reports</li> <li>▪ View Folders</li> <li>▪ View Data Sources</li> </ul> </li> </ul> </li> </ul>  |

|                             |   |
|-----------------------------|---|
| <b>Reporting Technology</b> | <ul style="list-style-type: none"> <li>▪ View Models</li> <li>▪ Consume Reports</li> <li>• Web Service Security Settings: <ul style="list-style-type: none"> <li>◦ Minimum Predefined System Role required: <ul style="list-style-type: none"> <li>▪ System User</li> <li>▪ Browser in the report tree</li> </ul> </li> <li>◦ Minimum Tasks required for a custom System Role: <ul style="list-style-type: none"> <li>▪ Execute Report Definitions</li> </ul> </li> </ul> </li> </ul> |
| <b>Tableau Permissions</b>  | <ul style="list-style-type: none"> <li>• You must be a part of the Server Administrator role</li> </ul>   |

## Accessing Database Mapper Solutions

The following script shows you how to grant the necessary permissions to users so that all server level objects, databases, associated database objects and SQL Server Agent objects can be read. This needs to be executed against any SQL Server that exists as a solution in Database Mapper.

### SQL Server

```

USE [master];
GO
IF NOT EXISTS
(
    SELECT *
    FROM syslogins
    WHERE [name] = 'Domain\Account'
)
CREATE LOGIN [Domain\Account] FROM WINDOWS WITH DEFAULT_DATABASE = [master];

GRANT VIEW SERVER STATE TO [Domain\Account];

GRANT VIEW ANY DEFINITION TO [Domain\Account];

GRANT CONNECT ANY DATABASE TO [Domain\Account];

GO
USE [msdb];
GO
CREATE USER [Domain\Account] FOR LOGIN [Domain\Account];
GO
USE [msdb];
GO
ALTER ROLE [SQLAgentOperatorRole] ADD MEMBER [Domain\Account];
GO

```

### SSIS

If the server hosting the solution also has SSIS and the solution contains SSIS items, then permissions must be granted for the SSISDB in addition to the SQL Server permissions above.

```
USE [SSISDB];
GO
CREATE USER [Domain\Account] FOR LOGIN [Domain\Account];
GO
USE [SSISDB];
GO
ALTER ROLE [SSIS_Admin] ADD MEMBER [Domain\Account];
GO
```

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