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# Microsoft: SQL Server Enhanced PowerPack Release Notes

Version 103

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## Overview

Version 103 of the *Microsoft: SQL Server Enhanced PowerPack* adds support for Active/Passive SQL clusters to some Dynamic Applications.

- **Minimum Required SL1 Version:** 8.7.0
- **Support Status:** GA
- **Other Key Information:**
  - Additional permissions are required for the user account SL1 uses to perform collection. See the [Required Permissions](#) section of this document for more information. If you are currently monitoring devices using the *Microsoft: SQL Server Enhanced PowerPack*, you must update the permissions of the user account you are using to monitor those devices. New Dynamic Applications will be aligned to existing devices during the next discovery of those devices.
  - Version 103 of the PowerPack requires PowerShell version 3.0 or later to be installed on the monitored SQL Servers.
  - The SQL Servers that you monitor must have the SQL Server PowerShell module installed.

This document describes:

- [Pre-install or pre-upgrade information](#)
- [The required permissions for the PowerPack](#)
- [The installation and upgrade process for the PowerPack](#)
- [The features included in version 103](#)
- [The enhancements and issues addressed in version 103](#)
- [The known issues that affect version 103](#)

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## Before You Install or Upgrade

Ensure that you are running version 8.7.0 or later of SL1 before installing the *Microsoft: SQL Server Enhanced PowerPack* version 103.

**NOTE:** For details on upgrading SL1, see the appropriate [SL1 Release Notes](#).

In addition, ensure that the SQL Servers you want to monitor are running PowerShell 3.0 or later.

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## Required Permissions

Version 103 of the *Microsoft: SQL Server Enhanced PowerPack* requires the following permissions for the user account used for monitoring:

- SQL 2014 and SQL 2016 require one of the following configurations:
  - The user account has the PUBLIC role. The user must have the DB\_DATAREADER permission in every existing and new database, as well as the msdb database. The user must also have the VIEW SERVER STATE permission for each SQL Server instance.
  - The user account has the PUBLIC role and a custom role that includes the Connect Any Database permission. The custom role configuration must be performed in every monitored SQL Server Instance. In addition, the user must have the DB\_DATAREADER permission in the msdb database, and the VIEW SERVER STATE permission for each SQL Server instance.
  - The user account has the VIEW\_SERVER\_STATE permission for each SQL Server instance, and has the VIEW\_DATABASE\_STATE permission for each master database. The user must also have DB\_DATAREADER permission for both the master and msdb databases for each SQL Server instance.
  - The user account has the SYSADMIN role.
- SQL 2008 and SQL 2012 require one of the following configurations:
  - The user account has the PUBLIC role. The user must have the DB\_DATAREADER permission in every existing and new database, as well as the msdb database. The user must also have the VIEW SERVER STATE permission for each SQL Server instance.
  - The user account has the VIEW\_SERVER\_STATE permission for each SQL Server instance, and has the VIEW\_DATABASE\_STATE permission for each master database. The user must also have DB\_DATAREADER permission for both the master and msdb databases for each SQL Server instance.
  - The user account has the SYSADMIN role.

**NOTE:** If your user account is configured with the PUBLIC role and DB\_DATAREADER permission, all databases in an instance must have the DB\_DATAREADER permission applied.

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# Installing or Upgrading to Microsoft: SQL Server Enhanced PowerPack version 103

To install the *Microsoft: SQL Server Enhanced PowerPack* for the first time or to upgrade from a previous version, perform the following steps:

**TIP:** By default, installing a new version of a PowerPack will overwrite all content in that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent local changes for some commonly customized fields from being overwritten.

**NOTE:** If you are currently using the Dynamic Applications in the *Microsoft: SQL Server Enhanced PowerPack* to monitor devices, collection errors might occur for one or two polling cycles during the installation of a new version. To prevent collection errors during an upgrade, you can optionally disable collection for monitored devices before performing the following steps and re-enable collection after the upgrade.

1. Familiarize yourself with the [Known Issues](#) for this release.
2. See the [Before You Install or Upgrade](#) section. If you have not done so already, upgrade your system to release 8.7.0 or later.
3. See the [Required Permissions](#) section. If you have not done so already, ensure that the user account the platform uses to perform collection has the appropriate role and permissions.
4. Download version 103 of the *Microsoft: SQL Server Enhanced PowerPack* from the Customer Portal to a local computer.
5. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import version 103 of the *Microsoft: SQL Server Enhanced PowerPack*.
6. After importing the PowerPack, you will be prompted to install the PowerPack. Click the **[Install]** button to install the PowerPack.
7. For additional information, see the manual **Monitoring SQL Servers** for instructions on using the PowerPack.

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## Features

*Microsoft: SQL Server Enhanced PowerPack* version 103 includes the following features:

- Dynamic Applications to discover and monitor SQL servers and their component devices
- Event Policies that are triggered when SQL Server components meet certain status criteria
- Device Classes for each type of SQL Server components device monitored
- An example credential you can use to create PowerShell credentials to connect to SQL servers

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## Enhancements and Issues Addressed

The following changes are included in version 103 of the *Microsoft: SQL Server Enhanced PowerPack*:

- The following Dynamic Applications were updated to support SQL Clusters:
  - *Microsoft: SQL Server Discovery*
  - *Microsoft: SQL Server Instance Discovery*
  - *Microsoft: SQL Server Database Discovery*
- The "Enable Active Passive Cluster Failover" threshold was added to the "*Microsoft: SQL Server Discovery*" Dynamic Application. When this threshold is enabled, the SQL instance will get the Component ID assigned.

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## Known Issues

The following are known issues that affect version 103 of the *Microsoft: SQL Server Enhanced PowerPack*:

- The *Microsoft: SQL Server Dashboard PowerPack* is not compatible with the *Microsoft: SQL Server Enhanced PowerPack*.
- The performance Dynamic Applications in the PowerPack do not collect data for SQL Server x86 instances installed on a 64-bit platform.

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