SAP MaxDB 7.9 Toolkit
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<tr>
<td>1.14</td>
<td>2022-02-14</td>
<td>Minor change</td>
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1 Introduction

This document explains how to use the SAP MaxDB toolkit. At present, you can use the toolkit for Windows systems to:

- Migrate the environment for all systems or for specific systems and user. This migration is necessary as of SAP MaxDB Version 7.8 due to the introduction of isolation installation. You need to migrate the installation paths of software on Windows from the global system to the local user environment.
- Update a SAP MaxDB or liveCache instance running in a Microsoft Cluster Service (MSCS) environment

⚠️ Caution
Make sure you have the latest version of this document. You can always find the latest version at:
https://wiki.scn.sap.com/wiki/display/MaxDB/SAP+MaxDB+Installation+and+Upgrade+Guides

Features

- Migrate Environment:
  There are two options:
  ○ Migrate environment for all systems
    This procedure migrates the environment for all systems found. In addition, you can specify more users for whom a SAP MaxDB environment should be set up
    🛠 Example
    You are installing a new SAP system where there is already a SAP MaxDB database version lower than 7.8.
  ○ Migrate environment for specific systems and user
    This procedure migrates the environment for the systems and user that you specify. You execute this option if you want to only adjust individual systems. You can also specify additional users with this option.
    🛠 Example
    You install a single system with a SAP MaxDB version lower than 7.8 after all other systems have already been migrated.
- Update a SAP MaxDB or liveCache instance in MSCS
  This procedure updates the SAP MaxDB or liveCache instance in an MSCS system.
Integration

The above procedures are available in the product catalog of the software provisioning manager.

Constraints

This document is currently only relevant for Windows systems.

The functionality described here is provided by the SAP installation tool, the installer, as part of the installation procedure.

⚠️ Caution

For more information about problems with the SAP MaxDB toolkit, see SAP Note 1463752 before using the toolkit.
2 Preparation

To prepare to migrate the environment, you need to make the package of the software provisioning manager available on each host.

Prerequisites

You obtain the package of the software provisioning manager for this procedure by downloading the 70SWPM*.SAR (for SAP systems based on SAP NetWeaver 7.0) or SWPM*.SAR file (for SAP systems based on SAP NetWeaver 7.1 and higher) from:

https://support.sap.com/sltoolset > Software Logistics Toolset 1.0 > Software Provisioning Manager 1.0 > Download

We recommend that you always download the latest tool support package and patch level.

Make sure that the latest version of the SAPCAR archiving tool is available on each host where you want to run the software provisioning manager. You require SAPCAR to unpack the software component archive (*.SAR file). If required, download the latest version of SAPCAR from:


You make the package of the software provisioning manager available on your installation host or hosts.

You download installation media from:

https://support.sap.com/swdc > Download > Installations and Upgrades > Entry by Application Group > <SAP solution> > <SAP product> > <SAP release> > Installation and Upgrade > <operating system> > <database>

Note

If you download installation media, note that DVDs might be split into several files. In this case, you have to reassemble the required files after the download.

Process

If required, download the DVD from SAP Service Marketplace as follows:

1. Create a download directory on the host on which you want to run the installer.
2. Identify all download objects that belong to one installation DVD according to one or both of the following:
   ○ Material number
All download objects that are part of an installation DVD have the same material number and an individual sequence number:
<material_number>_<sequence_number>

Example
51031387_1
51031387_2
...

Title
All objects that are part of an installation DVD have the same title, such as <solution><DVD_name><OS> or <database>RDBMS<OS> for RDBMS DVDs.

3. Download the objects to the download directory.

4. Extract the individual download objects using SAPCAR, starting with the lowest sequence number – for example, 51031387_1, then 51031387_2, and so on. During the download, SAPCAR sets up the structure of the installation DVD.

Note
SAPCAR asks if you want to replace existing files, for example LABELIDX.ASC. Always accept with Yes.
3 Toolkit Procedures

This section describes the following procedures, which you can perform with this toolkit:

- Migrating the Environment [page 8]
- Updating the SAP MaxDB or liveCache Instance in MSCS [page 9]

3.1 Migrating the Environment

Use

This procedure describes how you migrate the environment – that is, the installation paths of software on Windows – from the global system PATH variable to the local, user-dependent PATH variable.

Prerequisites

Decide whether you want to migrate the environment for all systems or for specific systems and user.

Stop all SAP systems on which you plan to run the migration.

Process

Migrating the Environment for All Systems

1. Start the installer from the package of the software provisioning manager by choosing Generic Installation Options > MaxDB > Preparations > SAP MaxDB Migrate Environment for All Systems.

   The installer displays a password prompt for each operating system user.

2. Enter the password for each operating system user and choose Next.

   When you have entered all passwords, the installer displays the list of users for which the SAP MaxDB paths will be moved from the system PATH to the user-specific PATH variable.

3. If required, specify any additional users for which the SAP MaxDB paths will be moved and choose Next.

   If you specified any additional users, the installer prompts you for the passwords.

4. If you specified any additional users, enter their passwords when prompted by the installer and choose Next.

   The installer displays the Parameter Summary screen. If required, you can revise the parameters before starting the migration.

5. Choose Next to start the migration.

   The installer starts the migration. When the migration has successfully completed, the installer shows a confirmation message.
6. Reboot the server.

**Migrating the Environment for Specific Systems and User**

1. Start the installer from the package of the software provisioning manager by choosing *Generic Installation Options &gt; MaxDB &gt; Preparations &gt; SAP MaxDB Migrate Environment for Specific Systems and User.*
   The installer displays the list of system IDs for which the users will have their SAP MaxDB environment updated.

2. Choose *Database Tools.*

3. Select the required *System IDs.*

4. Enter the password for each operating system user and choose *Next.*
   When you have entered all passwords, the installer displays the list of users for which the SAP MaxDB paths will be moved from the system PATH to the user-specific PATH variable.

5. If required, specify any additional users for which the SAP MaxDB paths will be moved and choose *Next.*
   If you specified any additional users, the installer prompts you for the passwords.

6. If you specified any additional users, enter their passwords when prompted by the installer and choose *Next.*
   The installer displays the *Parameter Summary* screen. If required, you can revise the parameters before starting the migration.

7. Choose *Next* to start the migration.
   The installer starts the migration. When the migration has successfully completed, the installer shows a confirmation message.

8. Reboot the server.

**3.2 Updating the SAP MaxDB or liveCache Instance in MSCS**

**Use**

This procedure describes how you update the SAP MaxB or liveCache instance in an environment with Microsoft Cluster Service (MSCS).

**Prerequisites**

- Make sure that the new software for the update is the same major release and the same type (MaxDB or liveCache) as the existing software. For example, do not try to update an existing liveCache 7.7 installation with new software for SAP MaxDB 7.8.
- Your cluster must meet the following requirements:
  - MaxDB or liveCache version lower than 7.8
  - Independent data path on a shared drive
  - Independent programs path on a local drive
Kernel installation on a local drive

- MaxDB or liveCache version 7.8 or higher
  - Global data path on a shared drive
  - Global programs path on a local drive
  - Private data path of the kernel installation on a shared drive
  - Private data path of the client installation on a local drive
  - Kernel installation on a local drive
  - Client installation on a local drive

**Process**

1. Start the installer from the package of the software provisioning manager by choosing **Generic Installation Options** ➤ **MaxDB** ➤ **Preparations** ➤ **MaxDB / liveCache Update on First Cluster Node** and then choose **Next**.
   The installer displays a screen prompting you for the name of the SAP MaxDB cluster group on the first node.

2. Select the cluster group containing the database instance that you want to update and then choose **Next**.
   The cluster group is as follows:
   - SAP MaxDB version lower than 7.8: **SAP DBTech**
   - SAP MaxDB or liveCache version 7.8 or higher: **MaxDB**
   The installer displays a screen prompting you for the database users.

3. Enter the database ID and the passwords of the database system administrator and database manager operator, then choose **Next**.
   The installer displays a screen prompting you for the path to the new software for SAP MaxDB or liveCache. This is the path to the directory where `sdbinst` and the other files are located (it need not have the full structure of an RDBMS or liveCache DVD).

4. Enter the path to the new SAP MaxDB or liveCache software and choose **Next**.

   **Caution**
   You might see an error at this point in one of the following cases:
   - Make sure that the new software is the **same major release** as the existing software.
     For example, if the existing software is major release 7.8, the new software must also be release 7.8.
   - Do **not mix** SAP MaxDB and liveCache software.
     For example, if the existing software is liveCache, the new software must also be liveCache.

   SAPist displays the parameter summary screen, permitting you to go back and change any values if required.

5. If the displayed values are correct, choose **Next** to start the update.
   The installer displays a message to say the update on the first node was successful.

   **Caution**
   Do **not** start the database instance until the update on the second node has completed.
6. On the **second node of the cluster**, repeat the steps above, choosing *MaxDB / liveCache Update on Second Cluster Node* to start the procedure.
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