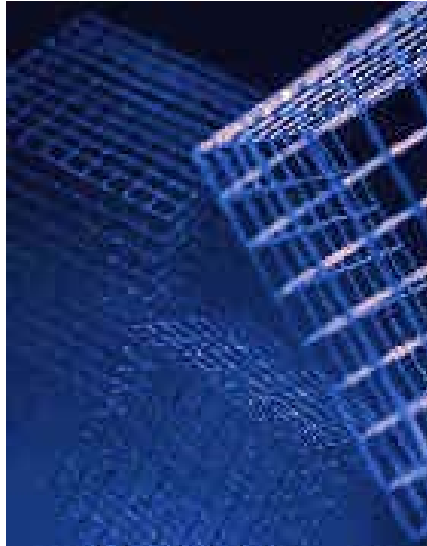


Installing and Upgrading the Database Server: SAP DB



Version 7.3








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Icons

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Typographic Conventions

Type Style	Description
<i>Example text</i>	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options. Cross-references to other documentation
Example text	Emphasized words or phrases in body text, titles of graphics and tables
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
Example text	Screen output. This includes file and directory names and their paths, messages, names of variables and parameters, source code as well as names of installation, upgrade and database tools.
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.
EXAMPLE TEXT	Keys on the keyboard, for example, function keys (such as F2) or the ENTER key

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Installing and Upgrading the Database Server: SAP DB 7.3

Purpose

This document describes how to install and register the SAP DB Server software on UNIX and Windows NT/Windows 2000 operating systems, as well as how to upgrade existing SAP DB Server installations.



This guide is **not** relevant for standard installations or upgrades of SAP systems. The installation or upgrade of the SAP DB software required for SAP systems is described in SAP-specific guides. You can find these guides in the SAP Library.

Procedure

To do this, you will need the *SAP DB Server* software package (`sapdb-server-<os>-<arch>-<version>.tgz`)

The software can be installed/updated on UNIX, Windows NT, or Windows 2000 interactively or in the background. The various procedures for this are outlined in the following table:

	UNIX	Windows NT/Windows 2000
Interactive Installation	UNIX: Interactive Installation [Page 7]	Windows NT/Windows 2000: Interactive Installation [Page 9]
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Variables

Use

The following table shows which variables are used in the SAP DB Server installation and upgrade guide.

<os>	Name of the operating system in the path
------	--

	specifications
<arch>	Name of the operating system architecture in the path specifications
<version>	Version number of the SAP DB software
<independent_data_path>	Data path that is independent of the software version
<independent_program_path>	Program path that is independent of the software version
<dependent_path>	File path that is dependent on the software version. This path must be unique.
<program_path>	Standard Windows NT/Windows 2000 directory for the user software (for example, C:\Program Files)

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Operating System Versions

Use

The following table lists the operating systems that are supported.

os	arch
aix	ppc
linux	i386
solaris	sparc
tru64	alpha
hpux	hppa
win	i386

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Installation Steps

Procedure

You can carry out your installation/upgrade with SDBINST either interactively or in the background on the operating systems UNIX, Windows NT, and Windows 2000. The various procedures for this are outlined in the following table:

	UNIX	Windows NT/Windows 2000
Interactive Installation	UNIX: Interactive Installation [Page 7]	Windows NT/Windows 2000: Interactive Installation [Page 9]
Background Installation	UNIX: Background Installation [Page 7]	Windows NT/Windows 2000: Background Installation [Page 9]
Interactive Upgrade	UNIX: Interactive Upgrade [Page 8]	Windows NT/Windows 2000: Interactive Upgrade [Page 10]
Background Upgrade	UNIX: Background Upgrade [Page 9]	Windows NT/Windows 2000: Background Upgrade [Page 10]

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UNIX: Interactive Installation

Use

Interactive Installation with SDBINST



On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

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2. [UNIX: Interactive Installation with SDBINST \[Page 13\]](#)
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UNIX: Background Installation

Use

Background Installation with SDBINST



On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

Procedure

4. [UNIX: Unpacking the Installation Files \[Page 11\]](#)
5. [UNIX: Background Installation with SDBINST \[Page 18\]](#)
6. [UNIX: Additional Steps \[Page 21\]](#)

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UNIX: Interactive Upgrade

Use

Interactive Upgrade with SDBINST



On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

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UNIX: Background Upgrade

Use

Background Upgrade with SDBINST



On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

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Windows NT/Windows 2000: Interactive Installation

Use

Interactive Installation with SDBINST

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2. [Windows NT/Windows 2000: Interactive Installation with SDBINST \[Page 14\]](#)
3. [Windows NT/Windows 2000: Additional Steps \[Page 21\]](#)

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Windows NT/Windows 2000: Background

Installation

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Background Installation with SDBINST

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Windows NT/Windows 2000: Interactive Upgrade

Use

Interactive Upgrade with SDBINST

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Windows NT/Windows 2000: Background Upgrade

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Background Upgrade with SDBINST

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Unpacking the Installation Files

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UNIX: Unpacking the Installation Files

Conventions

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Procedure

1. Log onto your computer.
2. Choose the software package that matches your operating system architecture:
`sapdb-server-<os>-<arch>-<version>.tgz`
3. Copy the software package to a local directory of your choice.
4. Unpack the software. Use the `gnu tar` or `tar` program to do so.
To unpack the software with `gnu tar`, enter the following command:
`tar -xpvzf sapdb-server-<os>-<arch>-<version>.tgz`
To unpack the software with `tar`, enter the following command:
`gzip -dc sapdb-server-<os>-<arch>-<version>.tgz | tar -xvpf`

Result

The following files are unpacked to the local directory:

- SDBINST
- insapdb
- SAPDBDEP.TGZ
- SAPDBIND.TGZ

The Next Installation Step

Choose one of the following steps:

- [Interactive Installation with SDBINST \[Page 13\]](#)
- [Interactive Upgrade with SDBINST \[Page 15\]](#)
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Windows NT/Windows 2000: Unpacking the Installation Files

Conventions

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Procedure

1. Log onto your computer.
2. Choose the software package that matches your operating system architecture:
`sapdb-server-<os>-<arch>-<version>.tgz`
3. Use WinZip to unpack the software to a local directory of your choice.

Result

The following files are unpacked to the local directory:

- SDBINST
- insapdb
- SAPDBDEP.TGZ
- SAPDBIND.TGZ

The Next Installation Step

Choose one of the following steps:

- [Interactive Installation with SDBINST \[Page 14\]](#)
- [Interactive Upgrade with SDBINST \[Page 16\]](#)
- [Background Installation with SDBINST \[Page 19\]](#)
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Interactive Installation with SDBINST

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UNIX: Interactive Installation with SDBINST

Use

Interactive Installation with SDBINST



On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

Prerequisites

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Stop all SAP DB database systems (including Vserver).

Conventions

[Variables \[Page 5\]](#)

Procedure

Log onto your computer as the `root` user.

Start the installation process by entering:

```
./SDBINST
```

When you install the software with SDBINST, the system asks you to enter the following information:

1. When you install the system for the first time, the independent data path must be absolute or relative.
Default `<independent_data_path>`:
`/usr/sapdb/indep_data`
Choose `ENTER` to confirm this default value.
2. When you install the system for the first time, the independent program path must be absolute or relative.
Default `<independent_program_path>`:
`/usr/sapdb/indep_prog`
Choose `ENTER` to confirm this default value.
3. Specify the group for the SAP DB software
The default `<group>` is `sapdb`
Choose `ENTER` to confirm this default value.

4. Specify the owner for the SAP DB software
The default <owner> is **sapdb**
Choose **ENTER** to confirm this default value.
5. Choose **y** to confirm the displayed values.

The version-independent database software is unpacked and registered.

6. The files that are specific to the software version must be stored in a directory with a unique name.
Default <dependent_path>:
/usr/sapdb/depend
Choose **ENTER** to confirm this default value. If this path already exists, the system will prompt you to choose a different name.
7. Specify the group for the SAP DB software
The default <group> is **sapdb**
Choose **ENTER** to confirm this default value.
8. Specify the owner for the SAP DB software
The default <owner> is **sapdb**
Choose **ENTER** to confirm this default value.
9. Specify the host name, if the system was not able determine it automatically.
10. Choose **y** to confirm the displayed values.

The version-dependent database software is unpacked and registered.

The Next Installation Step

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Windows NT/Windows 2000: Interactive Installation with SDBINST

Use

Interactive Installation with SDBINST

Prerequisites

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Stop all SAP DB database systems (including Vserver).

Conventions

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Procedure

Log on to your computer as the administrator.

Start the installation by executing the **SDBINST.exe** program in the command prompt.

When you install the software with SDBINST, the system asks you to enter the following information:

1. When you install the system for the first time, the independent data path must be absolute or relative.
Default <independent_data_path>:
<program_path>\sapdb\indep_data
Choose **ENTER** to confirm this default value.

2. When you install the system for the first time, the independent program path must be absolute or relative.
Default <independent_program_path>:
<program_path>\sapdb\indep_prog
Choose **ENTER** to confirm this default value.

3. Choose **y** to confirm the displayed values.

The version-independent database software is unpacked and registered.

4. The files that are specific to the software version must be stored in a directory with a unique name.
Default <dependent_path>:
<program_path>\sapdb\depend
Choose **ENTER** to confirm this default value. If this path already exists, the system will prompt you to choose a different name.
5. Specify the host name, if the system was not able determine it automatically.
6. Choose **y** to confirm the displayed values.

The version-dependent database software is unpacked and registered.

The Next Installation Step

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Interactive Upgrade with SDBINST

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UNIX: Interactive Upgrade with SDBINST

Use

Interactive Upgrade with SDBINST



On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

Prerequisites

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Stop all SAP DB database systems (including Vserver).

Conventions

[Variables \[Page 5\]](#)

Procedure

Log onto your computer as the `root` user.

Start the installation process by entering:

```
./SDBINST
```

When you upgrade the software with SDBINST, the system asks you to enter the following information:

1. The system asks you whether you want to perform the upgrade.
Enter `y` to start the upgrade process.
2. All of the existing installations are listed. If there is more than one, choose which of the installations you want to upgrade.
Enter the number of this installation.
3. Enter `y` to confirm that you want to overwrite the version-specific files in the `<dependent_path>`.
4. The system might ask you to specify additional information.

The Next Installation Step

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Windows NT/Windows 2000: Interactive Upgrade with SDBINST

Use

Interactive Upgrade with SDBINST

Prerequisites

[Unpack the Installation Files \[Page 12\]](#)

Stop all SAP DB database systems (including Vserver).

Conventions

[Variables \[Page 5\]](#)

Procedure

Log on to your computer as the administrator.

Start the installation by executing the `SDBINST.exe` program in the command prompt.

When you upgrade the software with SDBINST, the system asks you to enter the following information:

1. The system asks you whether you want to perform the upgrade.
Enter `y` to start the upgrade process.
2. All of the existing installations are listed. If there is more than one, choose which of the installations you want to upgrade.
Enter the number of this installation.
3. Enter `y` to confirm that you want to overwrite the version-specific files in the `<dependent_path>`.
4. The system might ask you to specify additional information.

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SDBINST Options

The SAP DB Server software can be installed/updated in the background. You can use the appropriate SDBINST options to define the necessary parameters.

To display a list of these options, enter the following command:

```
SDBINST -h
```

The following options are available:

- `-I <independent_data_path>`
- `-i <independent_program_path>`
- `-d <dependent_path>`
- `-o <owner>` (UNIX only)
- `-g <group>` (UNIX only)
- `-n <hostname>`
- `-b`

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Background Installation with SDBINST

Procedure

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UNIX: Background Installation with SDBINST

Use

Background Installation with SDBINST



On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

Prerequisites

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Stop all SAP DB database systems (including Vserver).

Conventions

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Procedure

Log onto your computer as the `root` user.

Start the initial installation process by running SDBINST with the following options:

```
./SDBINST -b -I <independent_data_path> -i <independent_program_path>  
-d <dependent_path> -o <owner> -g <group>
```

The Next Installation Step

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Windows NT/Windows 2000: Background Installation with SDBINST

Prerequisites

[Unpack the Installation Files \[Page 12\]](#)

Stop all SAP DB database systems (including Vserver).

Conventions

[Variables \[Page 5\]](#), [SDBINST options \[Page 17\]](#)

Procedure

Log on to your computer as the administrator.

Start the initial installation process by running SDBINST in the command prompt with the following options:

```
SDBINST -b -I <independent_data_path> -i <independent_program_path> -d <dependent_path>
```

The Next Installation Step

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Background Upgrade with SDBINST

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UNIX: Background Upgrade with SDBINST

Use

Background Upgrade with SDBINST



On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

Prerequisites

[Unpack the Installation Files \[Page 11\]](#)

Stop all SAP DB database systems (including Vserver).

Conventions

[Variables \[Page 5\]](#), [SDBINST options \[Page 17\]](#)

Procedure

Log onto your computer as the `root` user.

Start the upgrade process by running SDBINST with the following options:

```
./SDBINST -b [-I <independent_data_path>] [-i  
<independent_program_path>] -o <owner> -g <group> -d <dependent_path>
```

The Next Installation Step

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Windows NT/Windows 2000: Background Upgrade with SDBINST

Use

Background Upgrade with SDBINST

Prerequisites

[Unpack the Installation Files \[Page 12\]](#)

Stop all SAP DB database systems (including Vserver).

Conventions

[Variables \[Page 5\]](#), [SDBINST options \[Page 17\]](#)

Procedure

Log on to your computer as the administrator.

Start the upgrade process by running SDBINST in the command prompt with the following options:

```
SDBINST -b -d <dependent_path>
```

The Next Installation Step

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Additional Steps

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UNIX: Additional Steps

Use

Once you have installed or upgraded your software successfully, you may have to perform some of the following steps to complete the installation/upgrade.

Conventions

[Variables \[Page 5\]](#)

Procedure

- The required `sql6` and `sql30` services are entered in the `/etc/services` file if they do not already exist. If these services are managed centrally on your network (NIS), they must be entered here.
- If the owner or group you have specified does not exist, you can create them locally. If the owner and group cannot be created, or if they are to be administered on the network, you will have to create them manually.
- Add the path `<independent_data_path>/bin` to the `PATH` environment variables. Enter the following commands:

```
PATH=<independent_data_path>/bin:$PATH
export PATH
```

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Windows NT/Windows 2000: Additional Steps

Stop and restart the system, so that all changes take effect.

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Logging

Use

All SDBINST installation or upgrade steps are stored in the log file `SAPDBServer_install-
<date>.log`.

Conventions

[Variables \[Page 5\]](#)

Log File

- UNIX: `<independent_data_path>/wrk/SAPDBServer_install-
<date>.log`
- Windows NT-/Windows 2000:
`<independent_data_path>\wrk\SAPDBServer_install-
<date>.log`

If the `<independent_data_path>` directory is not known when the system crashes, the log will be created in the current directory.

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UNIX: Background Information

Conventions

[Variables \[Page 5\]](#)

Background Information

- The `<independent_data_path>` and `<independent_program_path>` path specifications are stored in the `/usr/spool/sql/ini/SAP_DBTech.ini` file when the system is installed for the first time. With every subsequent installation or upgrade process where you use SDBINST, these paths will be determined using the information contained in the `SAP_DBTech.ini` file.
- You can run more than one SAP DB Server installation on the same host.
- On Linux operating systems, you can use the Red Hat Package Manager (RPM) to install the SAP DB Server. If an RPM installation of the SAP DB Server software has been

performed on Linux, you cannot additionally carry out an SDBINST installation or SDBINST upgrade on this host.

- The files required to deinstall, verify, and upgrade the installation are created in the `<independent_data_path>/config/install` directory when the software is installed. These files should never be modified.

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Windows NT/Windows 2000: Background Information

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Background Information

- The `<independent_data_path>` and `<independent_program_path>` path specifications are stored in the registry when the system is installed for the first time. With every subsequent installation or upgrade process where you use SDBINST, these paths will be determined using the information contained in the registry.
- You can run more than one SAP DB Server installation on the same host.
- The files required to deinstall, verify, and upgrade the installation are created in the `<independent_data_path>\config\install` directory when the software is installed. These files should never be modified.

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