

Diese Bildschirmfolgen ergänzen den in Abschnitt 6.3.2 beschriebenen Aufbau eines neuen Systems als Kopie eines bestehenden Systems mit dem Software Provisioning Manager SWPM.

Software Provisioning Manager

https://h05.training.local:4237/sapinst/docs/index.html

Software Provisioning Manager

Welcome

Select the option you want to run.

Based on AS ABAP

Standard System

Refresh or Move Database Instance

Distributed System

High-Availability System

SAP S/4HANA Foundation 2025

SAP S/4HANA PRC Server 2025 (SAP internal use only!)

SAP S/4HANA Server 2023

SAP S/4HANA Foundation 2023

SAP S/4HANA Server 2022

SAP S/4HANA Foundation 2022

SAP S/4HANA Server 2021

SAP S/4HANA Foundation 2021

SAP S/4HANA Server 2020

SAP S/4HANA Foundation 2020

SAP S/4HANA Server 1909

Description

Installs an SAP S/4HANA Server 2025 ABAP system with all instances except the database instance on one host

You can also install SAP systems on the same host as the SAP HANA database, without applying additional environment settings when using a *SAP System ID (SAPSID)* that is different from the *Database ID (DBSID)* of the SAP HANA database. For more information and prerequisites, see [SAP Note 1953429](#).

SAP System Instances

Mandatory instances of an SAP S/4HANA Server 2025 ABAP system are:

- ASCS instance
- Database instance
- Primary application server instance

You can have one or more additional application server instances. You can find the installation option for additional application server instances in *Additional SAP System Instances*.

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Service Completed

Parameter Settings

Choose whether you want to run the installation in a typical or a custom mode.

Parameter Settings

Parameter Mode:

☐ Typical

☒ Custom

Additional Information

You can run the installation either in a typical or a custom mode:

- **Typical Mode**

If you choose *Typical*, the option is performed with default settings. As a result, you only have to respond to a small selection of prompts. If you want to change any of the default settings, you can do so on the *Parameter Summary* screen.

Note that if you choose the *Typical* setting and then choose *Back* after processing one or more input screens, the *Custom* setting is activated. You are now guided through all screens with the default parameters that have been applied in the background so far.

- **Custom Mode**

If you choose *Custom*, you are prompted for all parameters. At the end, you can still change any of these parameters on the *Parameter Summary* screen.

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General SAP System Parameters

Enter the SAP system ID.

SAP System

SAP System ID (SAPSID): *

SAP Mount Directory: 

☒ Unicode System (Recommended)

Additional Information

The *SAP System ID* is an identifier for your SAP system. It must be unique throughout your system landscape.
The system is installed under `/usr/sap/<SAPSID>/...` Common directories are linked to `<SAP Mount Directory>/<SAPSID>/...`

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Master Password

Enter the master password for all users.

Master Password

The master password is used for all users that are created. Check the tool help for restrictions and dependencies.

Password for All Users: *

Confirm: *

Additional Information

If you want to set an individual password for each user, you can do this in the corresponding parameter section on the *Parameter Summary* screen. If you set individual passwords, a new master password does not overwrite these individual settings.

Note: The Master Password feature can be used as a simple method to obtain customer-specific passwords for all newly created users. A basic security rule is not to have identical passwords for different users. Following this rule, we strongly recommend individualizing the values of these passwords after the installation is complete.

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Service Completed

Operating System Users

Enter the account parameters.

SAP System Administrator

Account: *s4sadm*

Password of SAP System Administrator: *

Confirm: *

User ID:

Group ID of sapsys:

Login Shell:

Home Directory:

Additional Information

The fields *User ID*, *Group ID*, and *Home Directory* should normally be left empty.
If you enter specific user or group IDs, make sure they do not conflict with other IDs you enter later in the installation.

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SAP System Database

Select the database copy action.

Target Database

Copy Method: Homogeneous System Copy (SAP HANA-specific Backup / Recovery)

☒ Data will be restored manually or is already loaded

Additional Information

An SAP HANA database backup will be used during the system import.

If you want to recover the SAP HANA database manually or use an already loaded database, choose the *Data will be restored manually or is already loaded* option.

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SAP HANA Database for SAP System

Enter the database parameters.

SAP HANA Database Connection Parameters

Database Host: * h05.training.local

Tenant Database (DBSID): * HDB

Instance Number: * 02

Administration Database User

Database Administrator: * SYSTEM

Password: * *****

☐ Connect using SSL

Additional Information

When using an **existing database**, enter the hostname and instance number of the SAP HANA system. The *Tenant Database (DBSID)* is the name of tenant database of a multitenant database system. A new tenant database is created if one does not already exist, using the given password for the SYSTEM user.

When instead a new database instance is **to be installed**, *Database Host* is the hostname of the current host. A new SAP HANA database instance will be installed with the same System ID as the *Tenant Database (DBSID)*. The *Instance Number* and System ID must be different than the SAP system to be installed. The *Password* will be used for all SYSTEM and OS users of the new database instance. For more information, see SAP Note [1953429](#).

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Manual Data Load Options

Select if database is already loaded or will be loaded.

Database Load Selection

Database Load:

☒ Data will be manually loaded from backup

☐ Data has already been loaded

Database System Administrator

User:

Password: *

Additional Information

Select if database is already loaded or will be manually loaded from backup when requested by Software Provisioning Manager.
Specify the *Password* for the administration user of the tenant database in the backup to be used.

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Software Package Browser

Specify the path to a download folder containing all software packages, or the paths to media locations or to several individual download locations of software packages.

Search Location

Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path:



Archive Locations

You can download the archives from the following locations on SAP Software Download Center:

SAPEXE.SAR (any version supporting your release), IGSEXE.SAR (matching SAPEXE Version. See [SAP Note 1491848](#)), IGSHELPER.SAR

The table below is updated with all packages detected at the specified *Package Path* when you choose *Next*.

While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information

An [information file](#) is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files. This information file contains only results of the latest archive scan.

Detected Packages

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Search Location

Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path:

Archive Locations

You can download the archives from the following locations on SAP Software Download Center:
[SAPEXE.SAR \(any version supporting your release\)](#), [IGSEXE.SAR \(matching SAPEXE Version. See SAP Note 1491848\)](#), [IGSHELPER.SAR](#)

The table below is updated with all packages detected at the specified *Package Path* when you choose *Next*.

While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information

An [information file](#) is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files. This information file contains only results of the latest archive scan.

Detected Packages

	Package Name	Individual Package Location	Status
1	<input type="text" value="SAPEXE.SAR (any version supporting your release)"/>	<input type="text" value="/software/s4hana2025/SAPEXE_81-70008102 (1).SAR"/>	<input type="text" value="Available"/>
2	<input type="text" value="IGSEXE.SAR (matching SAPEXE Version. See SAP Note 1491848)"/>	<input type="text" value="/software/s4hana2025/igsexe_0-70008564.sar"/>	<input type="text" value="Available"/>
3	<input type="text" value="IGSHELPER.SAR"/>	<input type="text" value="/software/s4hana2025/igshelper_17-10010245.sar"/>	<input type="text" value="Available"/>
4	<input type="text" value="SAPEXEDB.SAR (matching SAPEXE Version and Patch)"/>	<input type="text" value="/software/s4hana2025/SAPEXEDB_81-70008101 (1).SAR"/>	<input type="text" value="Available"/>

Additional Information

SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the [SAP Software Download Center](#) or - if available - using the [Maintenance Planner](#).

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Saving prerequisite check results...

Prerequisites Checker Results

Read the results of the prerequisite analysis carefully.

Attention

Your host has been checked for compliance with the prerequisites.

- If a condition is not met by your system, we strongly recommend that you fix this before starting the installation.
- In rare cases, you might decide to run the installation although not all prerequisites are met. The installation does not prevent you from doing this, but make sure that you know what you are doing.

Detailed Results

Condition	Result Code	Severity	Message	More Information
Swap Size	Condition not met	MEDIUM	For the selected services at least 20480 MB swap space are recommended. Current value is: 2048 MB. (Updated 2019-03-15)	Click here

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Saving prerequisite check results...

Question

Your system does not meet some prerequisites or some prerequisites could not be evaluated.

Make sure that your system meets all conditions prompted by the prerequisite checker before you choose Yes. Otherwise the *Prerequisites Checker Results* screen and this message will be displayed again.

If you choose No, the prerequisites check is skipped.

Keep in mind that the prerequisite checker does not automatically change any settings.

Do you want to repeat the checks before continuing?

No

Yes

Cancel



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Upgrade SAP Host Agent

Decide whether you want to upgrade the existing SAP Host Agent

Detected SAP Host Agent

☒ Upgrade SAP Host Agent to the version of the provided SAPHOSTAGENT.SAR archive

Additional Information

An SAP Host Agent is already installed on this host. You can upgrade it to a higher version if you provide a SAPHOSTAGENT.SAR archive with a higher version.

At the end of the upgrade the SAP Host Agent is restarted. If you provide a SAPHOSTAGENT.SAR archive that does not have a higher version, the SAP Host Agent remains unchanged.

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Search Location

Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path:

Archive Locations

You can download the archives from the following locations on SAP Software Download Center:
[SAPHOSTAGENT.SAR \(any version supporting your release\)](#)

The table below is updated with all packages detected at the specified *Package Path* when you choose *Next*.

While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information

An [information file](#) is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files. This information file contains only results of the latest archive scan.

Detected Packages

	Package Name	Individual Package Location	Status
1	<input type="text" value="SAPHOSTAGENT.SAR (any version supporting your release)"/>	<input type="text" value="/software/s4hana2025/SAPHOSTAGENT68_68-80004822.SAR"/>	<input type="text" value="Available"/>

Additional Information

SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the [SAP Software Download Center](#) or - if available - using the [Maintenance Planner](#).

If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the [Software Logistics Toolset](#).

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SAP HANA Additional Archives

Select to install SAP HANA Predictive Software.

SAP HANA Predictive Software

☐ Install HANA software for PAI

Additional Information

If SAP Predictive Analytics integrator(PAI) has been selected in the SAP Maintenance Planner select "Install HANA software for PAI". The necessary archives will be then requested.

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Database Schema

Enter the authentication information for the database schema.

Database Schema

Tenant Database: HDB

Database Host: h05.training.local

Instance Number: 02

Schema: * SAPHANADB

☒ Password Authentication

☐ X.509 Certificate-Based User Authentication

Schema Password: * [password field]

Path to PSE file: [text field]

Additional Information

Verify the schema name and enter the password or the PSE file based on the configured authentication method.

The PSE file must contain the X.509 client certificate including private key, client signed certificate and CA certificates. See SAP Note [3423689](#) for more details about using certificate authentication.

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SAP HANA Data at Rest Encryption

Database Volumes and Backup Encryption Settings.

Data Volumes, Log Volumes and Backup Encryption Settings

Current Data Encryption Status: INACTIVE [PERSISTENCE=FALSE, LOG=FALSE, BACKUP=FALSE]

☒ Keep Current Data Encryption Settings

☐ Enable All Data Encryption Settings

☐ Disable All Data Encryption Settings

Password for Root Key Backup

☐ Set Root Keys Backup Password

Password:

Confirm:

Additional Information

Select the desired data encryption setting. Enable *Data Encryption Settings* to make sure all data persistence layers are encrypted. Set the *Root Key Backup Password* to enable the backup and recovery of the encryption root keys when backup encryption is on. If the root key backup already has a password, it will be overwritten.

Note: When backup encryption is enabled, it is necessary to store both the password and the root key backup in a secure location. Losing the backup or the password may result in the database being unrecoverable. For more information, see *Managing Data Encryption in SAP HANA* section of the *SAP HANA Administration Guide for SAP HANA Platform*

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Secure Storage for Database Connection

Secure storage settings for the database connection data.

Database Connectivity

Secure Storage:

- ☒ HANA Secure User Store (hdbuserstore)
☐ ABAP Secure Storage in the File System (ABAP SSFS)

Customize Connection Environment for Secure Storage

Folder Name for HANA Store:

Database Host Name(s):

Additional Information

Select the type of *Secure Storage* for the client connection.

When using the *HANA Secure User Store*, you can enter the *Folder Name for HANA Store* where the store will be created in the sidadm home directory.

The *Database Host Name(s)* is the hostname string to be used for the user store. For example, a virtual hostname or a list of hostnames separated by a comma(,) are acceptable values. When left empty, the value will be obtained from the configuration of the SAP HANA database.

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SAP HANA Client Software Installation Path

Choose the client path strategy.

Client Path Strategy

Client Software Path:

☒ Local Client Directory

☐ Central Client Directory

Additional Information

Choose *Local Client Directory* to install the client locally into local directory `/usr/sap/<SAPSID>/hdbclient`. In this case, the SAP HANA client must be installed and maintained separately on each application server.

Choose *Central Client Directory* to install the client into central directory `$(DIR_CT_RUN)/hdbclient`. In this case, the SAP HANA client software is installed only once and the `sapcpe` program ensures the replication to each application server every time when an application server is being restarted.

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Specify the path to a download folder containing all software packages, or the paths to media locations or to several individual download locations of software packages.

Search Location

Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path:

Archive Locations

You can download the archives from the following locations on SAP Software Download Center:
[SAP HANA CLIENT](#)

The table below is updated with all packages detected at the specified *Package Path* when you choose *Next*.

While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information

An [information file](#) is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files.
This information file contains only results of the latest archive scan.

Detected Packages

	Package Name	Individual Package Location	Status
1	SAP HANA CLIENT		Still missing

Additional Information

SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the [SAP Software Download Center](#) or - if available - using the [Maintenance Planner](#).

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Search Location

Specify the path to an archive, a download folder or a media location as *Package Path*.

Package Path:

Archive Locations

You can download the archives from the following locations on SAP Software Download Center:

[SAP HANA CLIENT](#)

The table below is updated with all packages detected at the specified *Package Path* when you choose *Next*.

While staying on this screen you can add or adjust paths for required packages by searching other locations. When all archives are specified and you do not wish to make any further adjustments, leave the above *Package Path* empty to continue.

Archive Scanning Information

An [information file](#) is written after the archives have been scanned. There you can find detailed information about matching and non matching archive files. This information file contains only results of the latest archive scan.

Detected Packages

	Package Name	Individual Package Location	Status
1	SAP HANA CLIENT	/software/HANA/hanapatches/IMDB_CLIENT20_026_18-80002082.SAR	Available

Additional Information

SAP recommends that you use the latest released versions of the required software packages. You can download them either manually from the [SAP Software Download Center](#) or - if available - using the [Maintenance Planner](#).

If you have DVDs or Blu-ray media containing the required packages, you can also use them for initial system provisioning and then - if applicable - update the software packages later by using the appropriate tool from the [Software Logistics Toolset](#).

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SAP HANA Multitenant Database Containers

Enter the database parameters for the system database.

System Database

Database ID (DBSID): SYSTEMDB

Database Host: * h05.training.local

Instance Number of the SAP HANA Database: * 02

Password of the SAP HANA Database Superuser: * [password field]

Tenant Database

Tenant ID: HDB

☐ Recreate Database Tenant

Additional Information

Note that you can only use an existing SAP HANA multitenant database container.

Specify the connectivity data. Choose *Recreate Database Tenant* only if you have decided to delete all content of the database tenant including all users, schemas, and roles. In addition, the tenant-specific configuration is initialized.

Choose this option if you are doing a reinstall or a refresh of the system. The advantage of recreating the tenant database compared to 'drop user' is that all data is instantly deleted, which leads to better performance during data import.

Recreate Tenant Database is only available for system copy.

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SAP liveCache with SAP HANA

Select if you want to use SAP liveCache integrated in SAP HANA for your SAP System.

SAP liveCache Integration

☐ Install SAP liveCache for SAP System

Select *Install SAP liveCache for SAP System* if you want to configure SAP liveCache integrated in SAP HANA for your SAP System.

Additional Information

You need the liveCache installation only when at least one of your applications uses it. To configure it, SAP liveCache integrated in SAP HANA (also called LCAPPS- or liveCache Applications plugin) must be pre-installed in an existing SAP HANA database.

For more information about SAP liveCache on SAP HANA requirements and how to install, see the *SAP HANA Master Guide* at: https://help.sap.com/hana_platform -> *Implement -> Installation and Upgrade* and SAP Note [2979266](#).

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Primary Application Server Instance and ABAP Central Services Instance

Enter the required parameters for the primary application server (PAS) instance and for the ABAP central services (ASCS) instance.

PAS and ASCS Instance

The following SAP system instances already exist on this host:

	SAP System ID (SAPSID)	Instance Name	Instance Number
1	HDB	HDB02	02

PAS Instance Number: * 00

PAS Instance Host: * h05

ASCS Instance Number: * 01

ASCS Instance Host: * h05

Additional Information

The *Instance Number* and *Instance Host* are technical identifiers for controlling internal processes, such as assigned memory. The *Instance Host* can be either the physical host name or one of the virtual host names. In a High Availability system installation, use a virtual host name for the ASCS instance. The instance number must be unique for this installation host.

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ABAP Message Server Ports

Enter the required message server ports.

ABAP Message Server Ports

ABAP Message Server Port: *

3601

Internal ABAP Message Server Port: *

3901

Additional Information

The instance-specific *Internal ABAP Message Server Port* for internal communication and the *ABAP Message Server Port* are required as unique communication channels.

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Configuration of Work Processes

Enter the number of work processes.

Work Processes

Number of Dialog Work Processes: *

Number of Batch Work Processes
(Background Processing): *

Additional Information

A correct configuration of the work processes in the Primary Application Server ABAP (PAS ABAP) and Additional Application Server ABAP (AAS ABAP) is essential for the optimal operation of your ABAP system. This affects, for example, the performance when installing additional languages.

- *Dialog Work Processes* deal with requests triggered by active users, such as persons and programs.
- *Batch Work Processes* processes are programs that can be executed without user interaction, such as background jobs.

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ICM User Management for the SAP Web Dispatcher

Enter the password for the web administration user 'webadm' used by the SAP Web Dispatcher.

Internet Communication Manager (ICM) User Management

Password of 'webadm': *

Confirm: *

Additional Information

An administration user *webadm* is created to use the web administration interface for the Internet Communication Manager (ICM) and SAP Web Dispatcher.

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SLD Destination for the SAP System OS Level

Enter the destination of the System Landscape Directory (SLD).

Register in System Landscape Directory

SLD Destination:

☐ Use existing SLD for registration

☒ No SLD destination

Connect Data for Existing SLD

☐ Use HTTPS

SLD Host:

SLD HTTP(S) Port:

SLD Data Supplier User:

Password of SLD Data Supplier User:

Additional Information

The System Landscape Directory (SLD) should register the installed software of your entire system landscape. The SLD destination is configured in the file system and can be used by the SAP application server kernel as described in the SAP Notes [1717846](#) and [1018839](#). After you have completed this configuration, the sapstartsv data supplier is enabled to send operating system information to the SLD.

After installation has finished, you perform the **technical configuration** as described in the installation guide to complete the SLD configuration of the SAP NetWeaver application server.

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Message Server Access Control List

Specify if you want to have a message server Access Control List (ACL) created.

Message Server Access Control List

- ☐ Create Message Server Access Control List
- ☒ Do not create Message Server Access Control List

Additional Information

The ACL is created as a file in the `<sapmnt>/<SAPSID>/global` directory. If it exists, it defines the hosts from which the message server accepts requests.

Caution: Only trigger the creation of this file if you do not plan to install any additional instances for this system. With the creation of this ACL, you overwrite existing settings and prevent instances from being installed on additional hosts.

If you decide to install an additional instance later, you need to remove this file manually before the installation and create it again after the installation of the additional instance.

For more information about `ms/acl_info`, see SAP Notes [1495075](#) and [826779](#).

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Additional Components to be Included in the ASCS Instance

Choose the additional components you want to have installed in the ASCS instance.

Enable Additional Components

☐ Install an SAP Web Dispatcher embedded in the ASCS instance

☐ Install a Gateway embedded in the ASCS instance

Additional Information

If you choose *Install an SAP Web Dispatcher embedded in the ASCS instance*, an SAP Web Dispatcher is installed in the ASCS instance. No separate SAP Web Dispatcher instance is created. The embedded SAP Web Dispatcher is subject to a number of restrictions. For more information, see SAP Note [3115889](#). It is a convenience option for small systems but is not recommended for production systems. The general recommendation is to install a standalone SAP Web Dispatcher instead. See the documentation *Installation Guide – Installation of SAP Web Dispatcher for SAP Systems Based on SAP NetWeaver 7.0 to 7.52 on <OS>* at <https://support.sap.com/sitoolset> -> System Provisioning -> Installation Option of Software Provisioning Manager -> Installation Guides - Standalone Engines and Clients.

If you choose *Install a Gateway embedded in the ASCS instance*, a Gateway is installed in the ASCS instance. No standalone SAP Gateway instance is created. A Gateway embedded in the ASCS instance is recommended, for example, when you set up a Microsoft Failover Cluster.

If the Gateway is required for other purposes, you can also install a standalone Gateway instance. See the documentation *Installation Guide – Installation of a Standalone Gateway Instance for SAP Systems Based on SAP NetWeaver 7.1 to 7.5x on <OS>* at <http://support.sap.com/sitoolset> -> System Provisioning -> Installation Option of Software Provisioning Manager -> Installation Guides - Standalone Engines and Clients.

Caution: In Microsoft Failover Cluster installations, do **not** install a standalone Gateway on cluster nodes. Instead, follow the instructions in SAP Note [1764650](#).

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System Security

Decide whether you want to modify the recommended security settings for your system.

Add Security Profile Parameters

SAP recommends to use the highest security level by setting the recommended profile parameters as of **SAP Note 2714839**.

☐ Skip setting of security parameters (NOT recommended)

Additional Information

SAP offers the option '*Skip setting of security profile parameters (NOT recommended)*' only for compatibility reasons.

If you decided as recommended not to '*Skip setting of security profile parameters*', you can **review and cautiously modify** them in the **sec_default_ind_ind_A.pfl** in the *Installation Directory*. The file will not be taken into consideration when skipping the setting of security parameters.

Back

Next

Cancel

Software Provisioning Manager

https://h05.training.local:4237/sapinst/docs/index.html

Chat

SAP

Standard System

TasklistLog FilesHelp

Define Parameters

Review Parameters

Execute Service

Service Completed

Secure Storage Key Generation

Decide whether you want to generate an individual key for the secure storage of the SAP system.

Secure Storage Individual Key Information

☐ Individual Key (Recommended for Productive Systems)

☒ Default Key

Additional Information

You can choose between using an *Individual Key* for the encryption of confidential data or keeping the *Default key*, which provides obfuscation only.

- New installation from scratch, target system installation for system copy, or system rename:
If you choose *Individual Key (Recommended for Productive Systems)*, you must back up the displayed key in the upcoming message **before** it is used to encrypt the secure storage in the file system.
- New installation from scratch:
The key is also used to encrypt the secure storage in the database.

For more information, see the installation, system copy, system rename guides for SAP systems based on SAP NetWeaver 7.1 and higher ABAP for your operating system platform at: <https://support.sap.com/slttoolset> - > System Provisioning

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Software Provisioning Manager

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Standard System

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Define Parameters

Review Parameters

Execute Service

Service Completed

SAP System DDIC Users

Enter the DDIC user password.

DDIC Users in SAP System Clients

Account: *DDIC*, client *000*

Password of DDIC in Client 000 in the Source System: *

Additional Information

An RFC connection to the system you are installing must be established.
An *SAP System Client* is a self-contained unit in an SAP system with its own master records and its own set of tables. The ABAP user data is *SAP System Client*-specific.

Back

Next

Cancel



Define Parameters



Review Parameters



Execute Service



Service Completed

Cleanup of Encryption Key

Specify whether to remove the encryption key after the Software Provisioning Manager completes its execution.

☒ Yes, clean up encryption key

Additional Information

The encryption key is generated in the `sapinst_instdir` directory while the Software Provisioning Manager is running. It is used to encrypt passwords. For security reasons, SAP strongly recommends that you leave this checkbox selected if you **do not want to use the scenario you are running in unattended mode**. For more information about how to use unattended mode, see the Software Provisioning Manager user guides at https://help.sap.com/docs/SOFTWARE_PROVISIONING_MANAGER.

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Next

Cancel



Define Parameters



Review Parameters



Execute Service



Service Completed

Cleanup of Operating System Users

Specify whether operating system users are to be removed from group `sapinst` on UNIX (the group `SAPINST` is to be removed from the operating system users on IBM i) after the execution of Software Provisioning Manager has completed.

Limit Installation Directory Access

The `sapinst_instdir` directory belongs to a group named `sapinst`. If this group is not available, it is created automatically as a local group. For security reasons, SAP recommends that you remove operating system users from group `sapinst` on UNIX (respectively remove group `SAPINST` from the operating system users on IBM i) after the execution of Software Provisioning Manager has completed.

☐ Yes, clean up operating system users

Operating System Users to be Cleaned Up:

OS User	
1	s4sadm

Additional Information

Operating system users that are created while the Software Provisioning Manager is running are added to the group `sapinst` on UNIX (respectively the group `SAPINST` is added to the operating system users on IBM i) as they need access to the `sapinst_instdir` directory. For operating system users that are not local, you either need the required administrator permissions or must adjust the `sapinst` group manually.

Back

Next

Cancel

- Define Parameters Review Parameters Execute Service Service Completed

Parameter Summary

Choose 'Next' to start with the values shown. Otherwise, select the parameters to be changed and choose 'Revise'. You are then taken to the screen where you can change the parameter. You might be guided through other screens that have so far been processed.

Parameter List

☐ Parameter Settings

Parameter Mode:

☐ Typical

☒ Custom

☐ General SAP System Parameters

SAP System ID (SAPSID): S4S

SAP Mount Directory: /sapmnt

☐ Master Password

Password for All Users: *****

☐ Operating System Users

Revise

Next

Cancel

Software Provisioning Manager

https://h05.training.local:4237/sapinst/docs/index.html

Search, Star, Refresh, Home, Profile, Chat

SAP

Standard System

Tasklist, Log Files, Help

Define Parameters

Review Parameters

Execute Service

Service Completed

13%

Defining environment for user s4sadm...

...

Cancel

Software Provisioning Manager

←

↻

📍

Nicht sicher

https://h05.training.local:4237/sapinst/docs/index.html

🔍

🌟

⚙️

🔒

👤

⋮

💬 Chat

SAP

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Help

☰

▼

📄+

Define Parameters

📄✓

Review Parameters

▶

Execute Service

📄✓

Service Completed

42%

⚠️

Message

Continue with the software provisioning manager by choosing OK when the restore of the database has been finished.

Ok

Cancel

Backup der Quelldatenbank in das Zielsystem einspielen (hier über HANA Cockpit):

Software Provisioning Manager x SYSTEMDB@HDB Database Man... x

https://h4ctraining.local:51024/cockpit#systemstatusnew-show?resid=498592

SAP Database Management SYSTEMDB@HDB (...)

HDB







Overall Status: 2 databases running with issues

Isolation Level: Low
Host: h05.training.local

Description:

To verify whether a recoverability check for tenant databases is possible, perform a recoverability check, or view its status, you require SAP Control credentials. [Enter Credentials](#)

Databases (2)

Status	Database Name	Start Time	Alerts	Backup	Used Memory	CPU Usage	Disk Usage
 Running with issues	SYSTEMDB	3/11/26, 3:36 PM	 1	 No backup	6GB 94GB	10% 100%	3% 100%
 Running with issues	HDB	3/11/26, 3:51 PM	 1	 No backup	6GB 94GB	0% 100%	3% 100%

Tenant Actions

- Back Up Tenant
- Copy Tenant Using Backup
- Recover Tenant
- Replicate Tenant
- Rename Tenant
- Reset SYSTEM Password
- Set Restart Mode

Recover Database - HDB

- 1 Database Recovery Type
- 2 Location of Latest Backup Catalog
- 3 Backup to be Used
- 4 Location of Full Data Backup

2. Location of Latest Backup Catalog

- ☐ Default file system location (/usr/sap/HDB/HDB02/backup/log/DB_HDB)
- ☒ Alternative file system location

Location: *

/backup/h4h/log/DB_SHU

Step 3

Cancel

Cancel

◀ Recover Database - HDB - Summary

Database Recovery Type

[Edit](#)

⚠ When you recover SAP HANA from a full data backup only, all changes made after the latest log backup are irretrievably lost. The log area is cleared. The selected data backup begins a new database lifecycle. Older data backups are then no longer compatible with logs written after the recovery.

Recover From: Full data backup only

Location of Latest Backup Catalog

[Edit](#)

Location: /backup/h4h/log/DB_SHU

Backup to be Used

[Edit](#)

Backup Type: Complete Data Backup
Start Time: Mar 11, 2026, 11:09:40 AM
Backup Prefix: 20260311
Backup ID: 1773223780584
Destination Type: File

Location of Full Data Backup

[Edit](#)

Location: The data backup will be read from the location in the backup catalog

Software Provisioning ManagerSYSTEM DB@HDB Recover DatabDatabase ExplorerDatabase Explorer3624781 - Recovery of HANA DB fi3624781 - Wiederherstellung der S

←↻🔍Nicht sicherhttps://h4ctraining.local:51024/codpit/#vadu:precovery-show?resid=498592&system=%257B%2522mddMode%2522%253Atrue%252C%2522dbFilter%2522%253A%2522HDB%2522%257D&/recoveryprogress/2026-03-11T15:21:44.000Z🔍🌟🔧👤⋮🗨️ Chat

◀SAPRecover DatabaseSYSTEMDB@HDB (SYSTEM)?C

Recovery Progress - HDBCancel Recovery

Start Time (UTC): 3/11/26, 3:21 PM. Running since: 7 minutes 14 seconds^🌟

Data Recovery (Phase 1 of 3)

h05

xsengine100%✓

indexserver2%

dpserver100%✓

docstore100%✓

Weiter im SWPM:

The screenshot shows the SAP Software Provisioning Manager (SWPM) interface for a 'Standard System'. The browser address bar indicates the URL: <https://h05.training.local:4237/sapinst/docs/index.html>. The interface features a top navigation bar with the SAP logo and the title 'Standard System'. Below this, there are four main steps: 'Define Parameters', 'Review Parameters', 'Execute Service' (which is the current active step, highlighted with a blue underline and a play button icon), and 'Service Completed'. A progress bar at the top indicates that the 'Execute Service' step is 42% complete. Below the progress bar, there is a 'Message' section with a text box containing the instruction: 'Continue with the software provisioning manager by choosing OK when the restore of the database has been finished.' At the bottom of the screen, there are two buttons: 'Ok' (green) and 'Cancel' (pink).



80%

Message

You now have the chance to perform some manual actions before the SAP system is started.

- Either press 'Cancel', perform your actions, and restart Software Provisioning Manager to continue with the interrupted installation option.
- Or perform your actions (without interrupting Software Provisioning Manager) and continue with Software Provisioning Manager by pressing 'Ok' after you have finished your task

In any case it is important to continue with Software Provisioning Manager after the manual actions have been finished!

An dieser Stelle nicht auf „ok“ klicken. Zuerst wichtige Nacharbeiten durchführen!

Ok

Cancel

z.B. über HANA Cockpit obsolete Tabelleneinträge löschen:

The screenshot displays the SAP HANA Database Explorer interface. The left sidebar shows a tree view of instances, including 'H05@H05 (SYSTEM)', 'HDB@HDB (SAPHANADB)', and 'HDB@HDB (SYSTEM)'. The main area is divided into three sections:

- SQL Console:** Contains a list of 12 SQL statements for deleting obsolete table entries:

```
1 delete from alconseg;
2 delete from alsystems;
3 delete from DBSNP;
4 delete from moni;
5 delete from osmon;
6 delete from pahi;
7 delete from seabid;
8 delete from seabap;
9 delete from seabar;
10 delete from ddlog;
11 delete from tpfet;
12 delete from tlock;
```
- Messages:** Displays the execution results for the first three statements:
 - Statement: delete from alconseg**
Rows affected: 0
Client elapsed time: 2.000 ms
Statement prepare time: 10.68 ms elapsed time, 9.658 ms CPU time
Statement execute time: 0.5230 ms elapsed time, 0.3080 ms CPU time
Peak memory consumed: 3.149 MB
 - Statement: delete from alsystems**
Rows affected: 0
Client elapsed time: 2.000 ms
Statement prepare time: 7.020 ms elapsed time, 6.778 ms CPU time
Statement execute time: 0.4290 ms elapsed time, 0.2460 ms CPU time
Peak memory consumed: 3.145 MB
 - Statement: delete from DBSNP**
Rows affected: 0
Client elapsed time: 2.000 ms
Statement prepare time: 8.222 ms elapsed time, 7.164 ms CPU time
Statement execute time: 0.4060 ms elapsed time, 0.2460 ms CPU time
- Right Panel:** A navigation pane with categories: 'Statement/Syntax', 'Tables and Views (1)', 'Procedures and Functions', and 'SQL Functions'.

Anzahl Batch-Prozesse auf 0 setzen, damit keine Jobs loslaufen beim Starten des Systems.

```
h05.training.local - PuTTY
SAPSYSTEMNAME = S4S
SAPSYSTEM = 00
INSTANCE_NAME = D00
DIR_CT_RUN = $(DIR_EXE_ROOT)$(DIR_SEP)$(OS_UNICODE)$(DIR_SEP)linuxx86_64
DIR_EXECUTABLE = $(DIR_INSTANCE)/exe
DIR_PROFILE = $(DIR_INSTALL)$(DIR_SEP)profile
_PF = $(DIR_PROFILE)/S4S_D00_h05
SETENV_00 = DIR_LIBRARY=$(DIR_LIBRARY)
SETENV_01 = LD_LIBRARY_PATH=$(DIR_LIBRARY):%(LD_LIBRARY_PATH)
SETENV_02 = SHLIB_PATH=$(DIR_LIBRARY):%(SHLIB_PATH)
SETENV_03 = LIBPATH=$(DIR_LIBRARY):%(LIBPATH)
SETENV_04 = PATH=$(DIR_EXECUTABLE):%(PATH)
#-----
# Copy SAP Executables
#-----
Execute_00 = immediate $(DIR_CT_RUN)/sapcpe$(FT_EXE) pf=$( _PF)
Execute_01 = immediate $(DIR_CT_RUN)/sapcpe$(FT_EXE) pf=$( _PF)
SETENV_05 = SECUDIR=$(DIR_INSTANCE)/sec
_CPARG0 = list:$(DIR_CT_RUN)/sapcrypto.lst
Execute_02 = immediate $(DIR_CT_RUN)/sapcpe$(FT_EXE) pf=$( _PF) $( _CPARG0)
#-----
# Start ABAP database
#-----
Execute_03 = immediate $(DIR_CT_RUN)/startdb
exe/saposcol = $(DIR_CT_RUN)/saposcol
rdisp/wp_no_dia = 10
rdisp/wp_no_btc = 0
rdisp/wp_no_vb = 1
rdisp/wp_no_vb2 = 1
rdisp/wp_no_spo = 1
exe/icmbnd = $(DIR_CT_RUN)/icmbnd
#-----
# Start SCSA administration
#-----
Execute_04 = local $(DIR_EXECUTABLE)/sapmscsa pf=$( _PF) -n
#-----
-- INSERT --
```

- SAP-System manuell starten
(z.B. `sapcontrol -nr <Instanz> -function StartSystem`)
- Nacharbeiten in SAP durchführen (siehe auch Buch Abschnitt 6.3.2)



ABAP Editor: Einstieg



Debugging



Mit Variante



Varianten

Mehr ▾



Beenden

Programm:



Anlegen

Teilobjekte

- ☒ Quelltext
- ☐ Varianten
- ☐ Eigenschaften
- ☐ Textelemente
- ☐ Dokumentation

Anzeigen

Ändern

In Transaktion RZ10 Profile importieren:


The screenshot displays the SAP RZ10 transaction interface. The top navigation bar includes the SAP logo, a back arrow, and the title 'Profile bearbeiten'. The main menu bar contains 'Profil', 'Bearbeiten', 'Springen', 'Hilfsmittel', 'System', and 'Hilfe'. The 'Hilfsmittel' menu is open, showing 'Prüfe alle Profile' and 'Importiere Profile' (highlighted). A sub-menu for 'Importiere Profile' is also visible, showing 'Der aktiven Server'. Below the menu bar, there is a search field and a row of icons: 'Anlegen', 'Prüfen', 'Kopieren', 'Importieren', and 'Mehr'. The main content area has a light gray background and contains two input fields: 'Profil:' and 'Version:'. The 'Profil:' field is highlighted with a red rectangle and has a copy icon to its right. The 'Version:' field is also highlighted with a red rectangle. The text 'Profil bearbeiten' is visible at the bottom left of the main content area.




Profil:

Version:

Profil bearbeiten



Transaktion RZ04: Betriebsarten anpassen (alte Instanzen löschen, neue anlegen):


 CCMS: Pflege von Betriebsarten und Instanzen

  Konsistenzprüfung Profil-Sicht Mehr 

Produktive Instanzen mit Workprozess-Aufteilung


Hostname	Servername	Instanz-Profil									
	Betriebsart	Dia	Stb	Bp	BpA	Spo	Upd	Up2	Sum	Con	Max
h4h											
!! Instanzprofil ist nicht											
p4h											

 SHP(1)/000 Instanzdaten löschen 

 Server h4h_SHU_01
Alle Instanzdaten löschen ?

Ja



Nein


 Abbrechen






26
26



12
12

Transaktion SMLG: Logon-Gruppen anpassen:



    Zuordnung löschen 

Logon-Gruppe	Instanz	Status
<div>PUBLIC </div>	p4h_SHP_01 h4h_SHU_01	

Transaktion RZ12: RFC-Server Gruppen anpassen:



Zuordnung löschen



Gruppe löschen



Instanz herausnehmen



Logon-Gruppe	Instanz	Status
390 parallel_generators	p4h_SHP_01	■
	h4h_SHU_01	
	h4h_SHU_01	

SH(2)/000 Server-Gruppen von Instanz löschen

Instanz

h4h_SHU_01



- Transaktion SE38: Report RSPO0041 (Spool Aufträge löschen)
- Transaktion SE38: Report RSBTCDEL mit „Forced“ Modus (Abgebrochene und abgeschlossene Jobs löschen)
- Transaktion STRUST (Zertifikate anpassen/ neu erstellen)

Programme Bearbeiten Springen System Hilfe

< SAP Löschen von Batch-Jobs

Als Variante sichern... Mehr

Jobname: *

Benutzername: *

Starttermin von (Datum):

(Uhrzeit):

bis (Datum):

(Uhrzeit):

älter als (Tage):

Endtermin von (Datum):

(Uhrzeit):

älter als (Tage):

Ereignis-Kennung:

Ereignis-Parameter:

Status eingeplant:

freigegeben:

beendet: X

abgebrochen: X

Löschen mit Forced-Modus: X

60

- Im Profil die Anzahl der Batch-Workprozesse wieder von 0 auf den richtigen Wert zurück ändern
- SAP System manuell stoppen
(z.B. `sapcontrol -nr <Instanz> -function StopSystem`)
- In SWPM die Prozedur fortsetzen mit o.k.

Software Provisioning Manager Database Directory - SAP HANA C X +

← ↻ 🔒 Nicht sicher https://h05.training.local:4237/sapinst/docs/index.html 🔍 ☆ ⚙️ ☆ 👤 ... 🗨 Chat

SAP Standard System

Tasklist Log Files Help ☰

Define Parameters

Review Parameters

Execute Service

Service Completed

100%

copying /tmp/swpm/COMMON/REPORTING/UndeploymentResults.xml

...

Cancel

- System prüfen (Systemlog, Dumps, Status der Jobs)
- BDLS ausführen (siehe Buch Abschnitt 6.3.4)
- Benutzer entsperren (falls diese gesperrt wurden)
- Report BTCTRNS2 ausführen (suspendierte Jobs freigeben)
- System freigeben