

Diese Bildschirmfolgen ergänzen der in Abschnitt 6.3.3 beschriebenen Aktualisierung eines bestehenden Systems mit dem Software Provisioning Manager SWPM.

Software Provisioning Manager

← → ↻ ⚠️ Nicht sicher https://p4h.training.local:4237/sapinst/docs/index.html

SAP Software Provisioning Manager

Welcome

Go to the option you want to execute.

Software Provisioning Manager 2.0 SP 10

> ☐ SAP S/4HANA Server 2021

> ☐ SAP S/4HANA Foundation 2021

> ☐ SAP ABAP Platform 2021 on HANA (SAP internal use only)

> ☐ SAP S/4HANA Server 2020

> ☐ SAP S/4HANA Foundation 2020

> ☐ SAP ABAP Platform 2020 on HANA (SAP internal use only)

> ☐ SAP S/4HANA Server 1909

> ☐ SAP S/4HANA Foundation 1909

> ☐ SAP ABAP Platform 1909 on HANA (SAP internal use only)

> ☐ SAP S/4HANA Server 1809

> ☐ SAP ABAP Foundation 1809 on HANA

> ☐ SAP ABAP Platform 1809 on HANA (SAP internal use only)

> ☐ SAP BW/4HANA 2021

> ☐ SAP BW/4HANA 2.0

> ☐ SAP BW/4HANA 1.0 Support Release 1

> ☐ SAP S/4HANA Core - Cloud

> ☐ System Rename

Generic Options

> ☐ SAP HANA Database

> ☐ Preparations

> ☐ Uninstall

> ☐ Refresh Database Content

> ☐ Check and Adjust ABAP System

> ☐ SAP Web Dispatcher

> ☐ Download Software Packages for Maintenance Planner Transaction

> ☐ ABAP Database Backup for SAP HANA (SAP internal use only)

> ☐ Options used by SAP Landscape Management

Description

Using this option, you can refresh the content of an existing database using a database backup. You do not have to copy the primary application server instance and to reinstall additional applications servers. For more information, see section *Copying the Database Only - Refresh Database Content* in the [system copy guides for Software Provisioning Manager 2.0](#).

Next

Cancel

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Software Provisioning Manager

← → ↻ ⚠ Nicht sicher | https://p4th.training:local:4237/sapinst/docs/index.html

SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

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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Cancel

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Software Provisioning Manager

← → ↻ ⚠ Nicht sicher https://p4th.training.local:4237/sapinst/docs/index.html

SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

General SAP System Parameters

Enter the profile directory of the SAP system.

SAP System Identification

Profile Directory

Just/sapSHPSYSprofile

Additional Information

Existing parameters are retrieved from the SAP system profile directory. The location of your SAP system profile directory is as follows:

- Windows: \\<SAPGLOBALHOST>\sapmnt\<SAPSID>\SYS\profile
- UNIX and IBM i: /<SAP Mount Directory>/<SAPSID>/profile or /usr/sap/<SAPSID>/SYS/profile

Back

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Cancel

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Software Provisioning Manager

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SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

DNS Domain Name

Enter the DNS domain name for the SAP system to calculate the fully qualified domain name (FQDN).

SAP System Domain Name

☒ Set FQDN for SAP system

⚠ DNS Domain Name for SAP System

training.local

Additional Information

The DNS Domain Name is used to calculate the Fully Qualified Domain Name (FQDN), which is configured in profile parameter SAPLOCALHOST. This parameter is needed to define the URLs for the application servers. For more information, see SAP Note 854882.

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Software Provisioning Manager

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SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

### 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.

Back

Next

Cancel

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Software Provisioning Manager

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

Refresh Database Content

TasklistLog FilesHelp

Define Parameters

Review Parameters

Execute Service

Service Completed

### SAP HANA Database for SAP System

Enter the database parameters.

#### SAP HANA Database or Database Tenant

\*Database Host

pdh.training.local

\*Database ID (DBSID)

P4H

\*Instance Number of SAP HANA Database

00

#### Administration Database User

\*Database Administrator

SYSTEM

\*Password

\*\*\*\*\*

☐ Connect using SSL

#### Additional Information

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

If instead a new database is **to be installed**, make sure that you use the `localhost` name for *Database Host*. In this case, use a *Database ID (DBSID)* for the SAP HANA database that is different from the *SAP System ID (SAPSID)* used for the SAP system. The password entered will be used for all SYSTEM and OS users of the new database. For more information, see SAP Note [1963426](#).

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Software Provisioning Manager

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SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

SAP HANA Multitenant Database Containers

Enter the database parameters for the system database.

System Database

Database Host

p4h.training.local

Instance Number of the SAP HANA Database

00

System Database Name

SystemDB

\*Password of the System Database Administrator (User: SYSTEM)

\*\*\*\*\*

Additional Information

Enter the password for the SYSTEM user of the System Database (SYSTEMDB).

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Cancel

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Software Provisioning Manager

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SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

Backup Credentials

Enter the database system administrator password from the backup.

Database System Administrator

UserSYSTEM

Password\*\*\*\*\*

Additional Information

Enter the Password of the database administration user of the database tenant in the backup.

Back

Next

Cancel

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Software Provisioning Manager

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SAP Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

SAPControl Connect Data

Specify the SAPControl connect data.

Authentication Data

\*Database-csidbadm

pdhadm

\*Database-csidbadm Password

\*\*\*\*\*

SAPControl WSDL URL

\*SAPControl WSDL URL

http://p4th.training.local:90013/SAPControl?wsdl

Backup Destination Type

Destination Type

File

Additional Information

The password of user <csidbadm> is required in order to connect to the SAPControl service.  
The SAPControl URL is usually http://<dbhost>:5<instance number>13/SAPControl?wsdl.

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Cancel

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Software Provisioning Manager

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SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

Database Recovery

Enter the location of the backup to restore.

Database Backup

Backup Location

/sapinst/backups/dataDB\_SHU

Backup Prefix

2022\_01\_20\_00\_25

☐ Do not check if a backup exists

Additional Information

If you are using an SAP HANA multitenant database container, specify the backup of the database tenant.  
The Backup Prefix must correspond to the prefix of a set of backup files located in the Backup Location on the SAP HANA host.  
For example, a data backup consists of the following files:

- SC0\_INITIAL\_databackup\_0\_1
- SC0\_INITIAL\_databackup\_1\_1

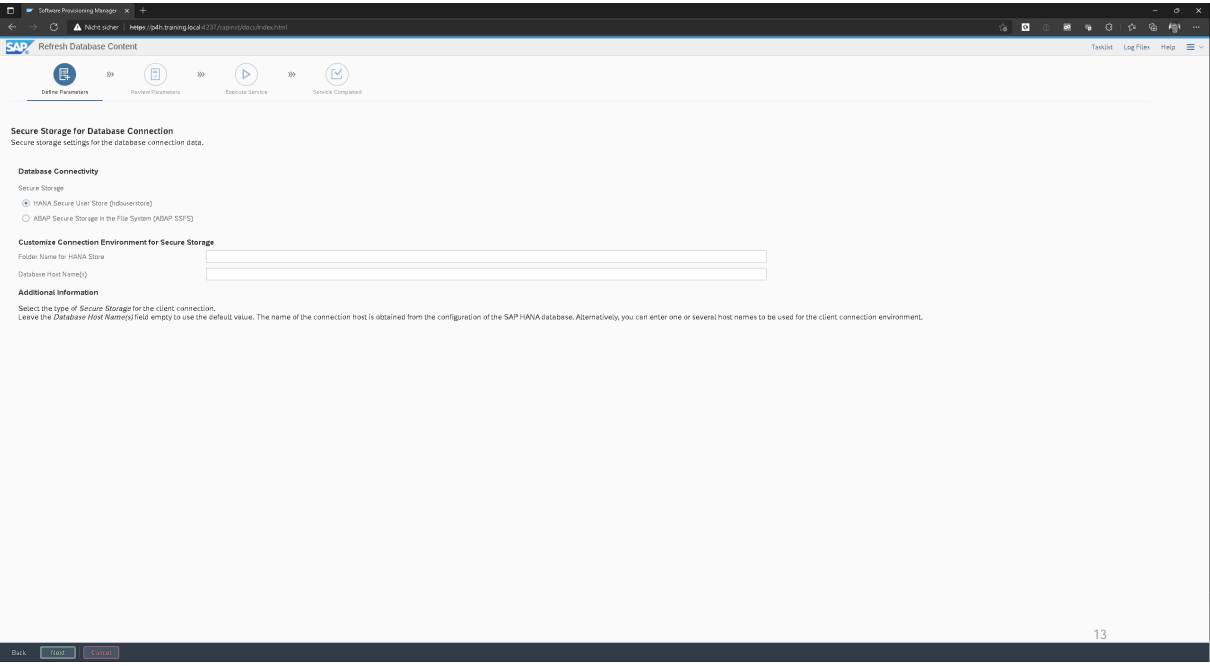
The value of the input field Backup Prefix is sc0\_INITIAL.

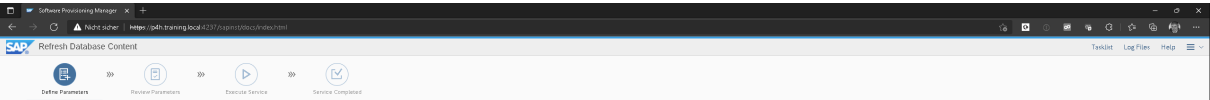
Back

Next

Cancel

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Ankreuzfeld unbedingt auswählen!

Software Provisioning Manager

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SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

SAP System DDIC Users

Enter the password of DDIC user.

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 needs to be created to the system that you are installing.

An SAP System Client is a self-contained unit in an SAP system with separate master records and its own set of tables. ABAP user data is SAP System Client-specific.

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Software Provisioning Manager

[Nicht sicher](#)
<https://p4th.training.local:4237/sapinst/docs/index.html>

SAP Refresh Database Content

Tasklist Log Files Help

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_install` 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	shpadmin

## Additional Information

Operating system users that are created during the execution of Software Provisioning Manager 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_install` directory. For operating system users that are not local, you either need the required administrator permissions or must adjust the `sapinst` group manually.



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

Profile Directory

☐ DNS Domain Name

☐ Set FQDN for SAP system

☐ SAP System Database

☐ Data will be restored manually or is already loaded

☐ SAP HANA Database for SAP System

Database Host

Database ID (DBSID)

Instance Number of SAP HANA Database

Database Administrator

Password

☐ Connect using SSL

☐ SAP HANA Multitenant Database Containers

Password of the System Database Administrator (User: SYSTEM)

☐ Backup Credentials

Password

Software Provisioning Manager

← → ↻ ⚠ Nicht sicher https://p4th.training:local:4237/sapinst/docs/index.html

SAP

Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

27%

Message

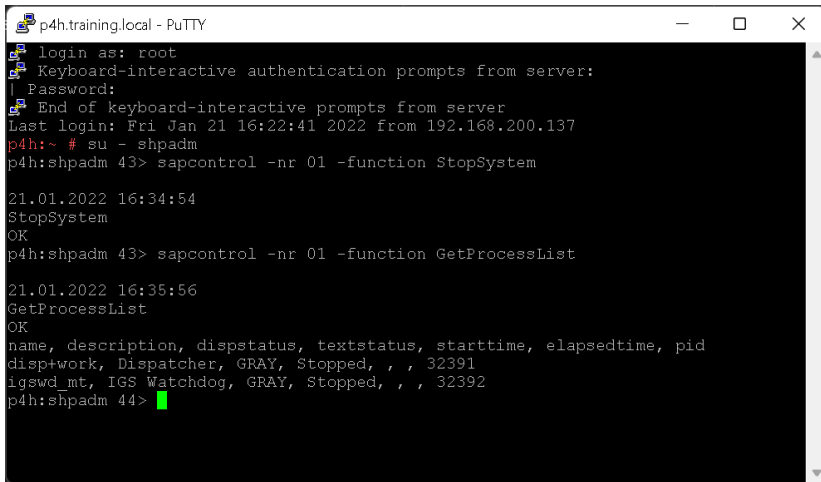
Your SAP system is running.  
SOLUTION: Stop the system and continue.

OK

Cancel

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## Zielsystem herunterfahren



```
p4h.training.local - PuTTY
login as: root
Keyboard-interactive authentication prompts from server:
| Password:
| End of keyboard-interactive prompts from server
Last login: Fri Jan 21 16:22:41 2022 from 192.168.200.137
p4h:~ # su - shpadm
p4h:shpadm 43> sapcontrol -nr 01 -function StopSystem

21.01.2022 16:34:54
StopSystem
OK
p4h:shpadm 43> sapcontrol -nr 01 -function GetProcessList

21.01.2022 16:35:56
GetProcessList
OK
name, description, dispstatus, textstatus, starttime, elapsedtime, pid
disp+work, Dispatcher, GRAY, Stopped, , , 32391
igswd_mt, IGS Watchdog, GRAY, Stopped, , , 32392
p4h:shpadm 44> █
```

Software Provisioning Manager

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SAP Refresh Database Content Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

Stopping HANA tenant P4H...

40%

Cancel

Software Provisioning Manager

← → ↻ ⚠ Nicht sicher https://p4th.training.local:4237/sapinst/docs/index.html

SAP

Refresh Database Content

Define Parameters

Review Parameters

Execute Service

Service Completed

99%

Progress: docstore[log initialization (running)], xsengine[log initialization (running)], dpserver[log initialization (running)], indexserver[data (running | 2%)]

Tasklist

Log Files

Help

Type	Status	Name
		Refresh Database Content
		Define Parameters
		Collecting Input
		Review Parameters
		Review Input
		Execute Service
		Create users for SAP system
		Create and load database
		Perform database recovery using backup: 2022_01_20_00_25
		Setup database connection information
		Perform post-load activities
		Database refresh postload activities
		ABAP post installation activities
		Check DDIC password
		Run ABAP reports
		Recreate CGITs (RSDB4FIXCGITS)
		Run Additional ABAP Reports
		Restart Instance
		Activate ICF Service (HTTP_ACTIVATE_NODE,SSFR_PSE_CREATE)
		Create SDMI user
		Remove users from sapinst group
		Service Completed
		Service Completed

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Cancel

Software Provisioning Manager

USB Ledgerit 6-Port 60W USB

https://p4h.training.local:4237/sapinst/docs/index.html

SAP Refresh Database Content

Tasklist Log Files Help

Define Parameters

Review Parameters

Execute Service

Service Completed

100%

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!

Type	Status	Name
		Refresh Database Content
		Define Parameters
		Collecting Input
		Review Parameters
		Review Input
		Execute Service
		Create users for SAP system
		Create and load database
		Perform database recovery using backup: 2022_01_20_20_00_25
		Setup database connection information
		Perform post-load activities
		Database refresh postload activities
		ABAP post installation activities
		Check DDIC password
		Run ABAP reports
		Recreate CGTs (RSDBAFIXCGITS)
		Run Additional ABAP Reports
		Restart Instance
		Activate ICF Service (/HTTP_ACTIVATE_NODE_SSPR_PSE_CREATE)
		Create SDMi user
		Remove users from sapinst group

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

## z.B. über HANA Cockpit obsolete Tabelleneinträge löschen

The screenshot displays the SAP HANA Database Explorer web 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 a SQL Console and a Messages pane.

**SQL Console (4.sql):**

```
1 delete fromalconseg;
2 delete from alsystems;
3 delete from DBSNP;
4 delete from mcon;
5 delete from oscon;
6 delete from pahj;
7 delete from sdbad;
8 delete from sdbap;
9 delete from sdbar;
10 delete from ddlog;
11 delete from tpfet;
12 delete from tlock;
```

**Messages x History:**

Statement: delete fromalconseg  
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: 7.828 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: 0.4080 ms elapsed time, 0.3400 ms CPU time

On the right side, a navigation menu lists: 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.

```
p4h.training.local - PuTTY
#
# .....
# .....
SAPSYSTEMNAME = SHP
SAPSYSTEM = 01
INSTANCE_NAME = D01
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 = $(DIR_PROFILE)/SHP_D01_p4h
SETENV_00 = DIR_LIBRARY=$(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=$(PF)
_CPARGO = list:$(DIR_CT_RUN)/sapcrypto.lst
Execute_02 = immediate $(DIR_CT_RUN)/sapcpe$(FT_EXE) pf=$(PF) $(CPARGO)
#-----
# Start ABAP database
#-----
Execute_03 = immediate $(DIR_CT_RUN)/startdb
exe/sapasccl = $(DIR_CT_RUN)/sapasccl
rdisp/wp_no_dia = 4
#old_value: 0
changed: HUBER 20.01.2022 23:39:15
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
#-----
# Start application server
#-----
_DU = dw.sap$(SAPSYSTEMNAME)_$(INSTANCE_NAME)
```



- SAP System manuell starten  
(z.B. `sapcontrol -nr <Instanz> -function StartSystem`)
- Nacharbeiten in SAP durchführen (siehe auch Buch Abschnitt 6.3.2 und 6.3.3)

Q

 [Anlegen](#)

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

68 Anzeigen

 Ändern

- Transaktion SE38: Report RSPO0041 (Spool Aufträge löschen)
- Transaktion SE38: Report RSBTCDEL mit „Forced“ Modus (Abgebrochene und abgeschlossene Jobs löschen)
- ...

Programm 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: ☒

abgebrochen: ☒

Löschen mit Forced-Modus: ☒

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- 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

USB Logger (6-Port 60W USB)

↩

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🔄

⚠️ Nicht sicher

https://p4h.training.local:4237/sapinst/docs/index.html

Refresh Database Content

Define Parameters

Review Parameters

Execute Service

Service Completed

Starting instance SHPID01...

Type

Status

Name

▶

Refresh Database Content

✓

Define Parameters

✓

Collecting Input

✓

Review Parameters

✓

Review Input

▶

Execute Service

✓

Create users for SAP system

✓

Create and load database

✓

Perform database recovery using backup: 2022\_01\_20\_00\_25

✓

Setup database connection information

✓

Perform post-load activities

▶

Database refresh postload activities

🔄

ABAP post installation activities

🔄

Check DDIC password

🔄

Run ABAP reports

🔄

Recreate CGITs (RSDBAFIXCGITS)

🔄

Run Additional ABAP Reports

🔄

Restart Instance

🔄

Activate ICF Service (HTTP\_ACTIVATE\_NODE,SSFR\_PSE\_CREATE)

🔄

Create SDMI user

🔄

Remove users from sapinst group

🔄

Service Completed

🔄

Service Completed

Cancel

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Software Provisioning Manager

USB Logger: 6-Port 60W USB

←

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⚠️ Nicht sicher

https://p4th.training:local:4237/sapinst/docs/index.html

SAP

Refresh Database Content

Define Parameters

Review Parameters

Execute Service

Service Completed

100%

Execution of Service has been completed successfully.

✓

The process execution is finished successfully.

Tasklist

Log Files

Help

Type	Name	Modified	Size (KB)
📄	java.log	2022.01.21 - 16:58:08	0
📄	sapinst_dev.log	2022.01.21 - 16:58:08	3078
📄	sapinst.log	2022.01.21 - 16:58:08	121
📄	sapinst_lognquirer.log	2022.01.21 - 16:58:08	22
📄	LogAnalyzer.html	2022.01.21 - 16:58:08	160
📄	syslib_priv.log	2022.01.21 - 16:58:06	365
📄	java.1.log	2022.01.21 - 16:58:06	1
📄	instsiena.xml	2022.01.21 - 16:58:05	249
📄	lognquirer.properties	2022.01.21 - 16:58:05	0
📄	sapcontrol_SHP_D01.log	2022.01.21 - 16:57:44	12
📄	sapkey.log	2022.01.21 - 16:56:50	0
📄	dev_sap_kernel	2022.01.21 - 16:56:39	4
📄	sapcontrol_SHP_ASCS02...	2022.01.21 - 16:56:38	11
📄	HdbCmdOut.log	2022.01.21 - 16:52:02	51
📄	userstore_DEFAULT.log	2022.01.21 - 16:51:50	0
📄	userstore_delete_DEFAULT...	2022.01.21 - 16:51:49	0
📄	summary.html	2022.01.21 - 16:33:57	5

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Feedback to SAP

Dear user, please help us improve our software by providing your feedback.

We want to ensure that we provide the best services to users like you.

After accepting the legal statement below, you will be able to send the questionnaire and the collected data to SAP. The questionnaire and the collected data are solely used for improving performance, quality, and behavior of the procedure. They will not be used for any marketing or sales purposes. Note that you should not use this form for problems, such as error messages you come across while running this tool. If you need technical support, you must open a customer incident.

Your Feedback (optional)

1 of 4: What kind of system did you run the process on?

☐ Development system

☐ Quality system

☐ Production system

☐ Other

Please share your thoughts about the process with us

Do not enter any information which could be a trade secret, personal data, proprietary or otherwise confidential for you, your employer or any third party.

If you have further questions to SAP, please enter them in the box above and enter your email address in the box below.

Your Email Address

Your email address will be processed according to below privacy statement.

Collected Data

Close

- 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