**CUSTOMER** 

**User Guide** Document Version: 3.01 – 2017-02-23

# SAP Landscape Management 3.0 SP1 (preconfigured solution)



## **Typographic Conventions**

Type Style	Description
Example	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<example></example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER.

# **Document History**

Version	Date	Change
1.0	2015-01-15	Initial Version
2.0	2015-09-15	Update
2.1	2015-10-15	Update
3.0	2016-11-30	Updates for Landscape Management 3.0 SP1: - Added Working Set - Added HANA replication chapter - Added HANA NZDM Maintenance chapter - Changes due to UI5 - Added Operation template chapter - Added Custom process chapter - some minor changes
3.01	2016-11-30	Update

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### **1** General Overview

With SAP Landscape Management software, you can simplify and automate the management and operations of your SAP systems and landscapes running on traditional or virtual infrastructures and increase your business agility.

Below an overview of the main scenarios that are available with the Enterprise Edition of SAP Landscape Management (LaMa):

For SAP LaMa - you can find more details here:

http://go.sap.com/product/technology-platform/landscape-management.html

For more information, see:

https://uacp2.hana.ondemand.com/viewer/p/SAP\_LANDSCAPE\_MANAGEMENT\_ENTERPRISE?q=landscape% 20managemen%20enterprise&state=DRAFT,TEST,PRODUCTION&format=standard,html,pdf,others

### 2 Before you Start

The Trial Appliance is provided with the following initial configuration:

- In the SAP Landscape Management Trial Appliance you are able to manage several SAP systems and perform certain tasks with them. The configured example landscape consists of the following components:
  - Managing system
    - o SAP Landscape Management 3.0 SP1 based on SAP NetWeaver Java 7.50 SP4
  - Managed systems by SAP Landscape Management
    - o SAP ERP systems on HANA single-node with SAP SIDs ERP, ERQ, and ERD
    - o SAP CRM systems on Sybase ASE with SAP SIDs CRP, CRQ, and CRD
    - o SAP BW systems on HANA single-node replicated with SAP SIDs BWP, BWQ, and BWD
    - SAP systems ERP, CRP, and BWP grouped in a pool called *Production*, whereby the systems CRP and BWP are dependent on the availability of system ERP. These systems are already started.
    - SAP systems ERQ, CRQ, and BWQ grouped in a pool called *Quality*, whereby the systems CRQ and BWQ are dependent on the availability of system ERQ. These systems are stopped at the beginning.
    - SAP systems ERD, CRD, and BWD grouped in a pool called *Development*, whereby the systems CRD and BWD are dependent on the availability of system ERD. These systems are stopped at the beginning.
    - o An empty pool called Sandbox with no SAP systems in the initial setting
    - o Bare-Metal Server Hardware grouped in the pool Production
    - Virtual Management Software\*\* (Virtual Managers)
    - o Virtual Machines (host) grouped in the pools Quality, Development and Sandbox
    - o Storage system for all available pools
    - All managed hardware and software components are simulated by a special simulator, which is only used for SAP-internal purposes. This simulator behaves like real SAP systems would, but not fully. Due to this known limitation most but not all functionality offered by SAP Landscape Management can be tested in this Trial Appliance.
- There are users with different permissions configured to experience different authorizations: Change these passwords as soon as possible.
  - Logon ID: TRIALadmin
    - The initial password for this user is **Trial2016** (unless it was changed).
    - NetWeaver Group: LVM\_SUPERADMIN
    - o Permission to display and operate systems of all pools and change nearly everything
    - Top level pages: all
  - o Logon ID: TRIALoperator
    - $\circ$   $\;$  The initial password for this user is  ${\tt Trial2016}$  (unless it was changed).
    - NetWeaver Group: LVM\_OPERATOR
    - o Permission to display and operate systems of pools Quality, Development and Sandbox
    - o Top level pages: Overview, Operations, Monitoring
  - Logon ID: TRIALreadonly

- The initial password for this user is **Trial2016** (unless it was changed).
- NetWeaver Group: LVM\_READONLY
- o Permission to display systems of all pools
- o Top level pages: Overview, Monitoring
- o Logon ID: Administrator
  - The initial password for this user is <Password entered during creation of this instance>
  - o NetWeaver Group: Administrator
  - o Permission of Administrator
  - Top level pages: all
- The scenarios described in this document can be executed with all browsers supported by SAP NetWeaver 7.50 (see Product Availability Matrix) and SAPUI5 (see SAP Note 1716423):
  - o Microsoft Internet Explorer
    - o Internet Explorer 10 Desktop
    - o Internet Explorer 11 Desktop
  - o Firefox
    - o Firefox Extended Support Release Cycle
    - o Firefox Rapid Release Cycle
  - o Apple Safari
    - o Safari 7
    - o Safari 8
    - o Safari on MACOS
  - o Google Chrome
    - o Chrome Release Cycle

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### **3** Restrictions and Limitations

### 3.1 Important Disclaimers on Legal Aspects

The used simulator software component is for internal use and testing purposes only. Its content is subject to change without notice, and SAP does not warrant that it is error-free. SAP MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE.

Any software coding and/or code lines / strings ("Code") included are only examples and are not intended to be used in any productive system environment. The Code is only intended to better explain and visualize the features of the SAP Landscape Management. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code.

No part of this software component may be copied or transmitted in any form or for any purpose without the express permission of SAP SE. The information contained herein may be changed without prior notice.

Nothing herein should be construed as constituting an additional warranty.

### 4 Overview

#### Scenario

You want to get an overview about the current system landscape and its status. Therefore you logon to your SAP Landscape Management system and check the standard dashboards to get a first impression about the status of your system landscape. Afterwards you learn how to create customizable dashboards and pods and how to get a high-level overview of your landscape using landscape visualization.

- Dashboards provide a real-time overview of the current landscape state, show running operations, and display diagnostic messages.
   For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/0c/584cebfb2043cfb3a35095207d6750/frameset.ht
- Landscape Visualization provides a complete landscape view across infrastructure layers and helps you understanding the relationship between the landscape entities.
   For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/b5/d16eca35844f77b117cc12402ab4cf/frameset.htm

#### Description

- You logon to SAP Landscape Management trial system.
- You get a general idea of the system.
- You create new dashboards and pods.
- You visualize the landscape.

#### **Scenario Steps**



Explanation	Screenshots
<ul> <li>2. In the dialog box <i>Create</i> <i>Dashboard</i>, provide the following values:</li> <li>Dashboard Name : <u>MyDashboard</u></li> <li>3. Choose <i>OK</i>.</li> </ul>	Create Dashboard Dashboard Name: MyDashboard OK <sub>In</sub> Cancel
<ul> <li>You can now start adding pods to the newly created dashboard.</li> <li>4. Choose the <i>pencil icon</i> for editing the Dashboard in the upper right.</li> <li>5. To create a new pod, choose <i>Create Pod</i> in the upper right.</li> </ul>	Orrer Hotester       Orrer Hotester         Orrer Hotester       Orrer Hote
<ul> <li>6. In the dialog box <i>Create Pod</i>, provide the following values: <ul> <li>Pod: Instances</li> <li>Layout Type: Column Chart</li> <li>Pod Title: <ul> <li>MyInstancesPod</li> </ul> </li> <li>7. Choose OK.</li> </ul></li></ul>	Create Pod   Pod:   Instances   Layout Type:   Column Chart   Pod Title:   MyInstancesPod

Explanation	Screenshots
8. To save the new pod, choose <i>Save</i> in the upper right.	Image: Additional additinadditionadditerational additional additional additiona
Now you see the information that the dashboard was saved.	The current dashboard is updated successfully.

### 4.3 Working Set











### 5 **Operations**

#### Scenario

In the following exercise you will learn how to perform operations on single systems as well as on a single instances of a system (including associated instances). Additionally, you will learn how to monitor the execution status of operations that are triggered using SAP Landscape Management.

Operations help you to perform start, stop, and relocate operations on specific systems. You can also perform mass-operations on virtual resources or virtual machines such as deactivate, suspend, or migrate.

For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/4e/01c00d2cc95639e10000000a42189e/frameset.htm

#### Description

- You start systems from pool *Quality*.
- You start a system instance by instance (System: CRD).
- You monitor the status of systems.
- You monitor the execution status of operations.

### Scenario Steps

Explanation Scree		Screenshots
5.	1 Performing Ope	erations on Systems
1.	Choose Operations and Maintenance > Operations.	<ul> <li>Overview</li> <li>Operations and Maintena</li> <li>Operations</li> <li>Advanced Operations</li> <li>Provisioning</li> </ul>
2.	If not already selected change the Working Set to <i>Quality</i> (for more information, see chapter '4.3 Working Set').	Working Set: All Development All Production Quality Sandbox
3.	If not already selected choose Systems.	Pools         Characteristics         Statuses         Networks         Storage Systems         Releases           Name         Pool         Relate
4.	Choose <sup>••••</sup> in the line <i>ERQ</i> : NetWeaver ABAP 7.40, sapdbehq.example.com	CAP       Landscape Management       Working Set: Quality       JZE On vhcal/2edb (09:53)       Related Links & Help       TRIALac         12       Systems       Instances       Hosts         Pools       Characteristics       Statuses       Networks       Storage Systems       Search       Quality         Name       Pool       Related Entities       Visualization       Status       Operations         BWQ: NetWeaver ABAP 7.40, sapdbbrdy, example.com       Quality       4 Instances       Montrunning       © Prepare       ***         CR0: NetWeaver ABAP 7.40, sapdberdy, example.com       Quality       2 Instances       Mot running       © Prepare       ***         ER0: NetWeaver ABAP 7.40, sapdberdy, example.com       Quality       2 Instances       Mot running       © Prepare       ***

Explanation	Screenshots
5. Choose Start (including prepare if possible).	© Prepare     © Prepare     © Prepare     © Prepare     © Switch to State 'Not Running'     Start (including prepare if possible)
<ul> <li>6. Choose Start (including prepare if possible).</li> <li>i Note</li> <li>In case you cannot see this button choose and afterwards Start (including prepare if possible).</li> </ul>	Execute Start (including prepare if possible)       Start (including prepare if possible)         OPERATION PARAMETERS       EXECUTABLE ENTITIES         EXECUTABLE ENTITIES       Select the entities to execute the operation on         Image: Selected Entities       Selected Entities         Selected Entities       Selected Entities         Image: Selected Entities       Selected Entities         Image: Entities       ****         Image: Entities       ****         Image: Entities       ****         Image: Entities       ****         Image: Entities       *****         Image: Entities       *****         Image: Entities       ************************************
Now you see the information that the operation <i>Start (including</i> <i>prepare if possible)</i> was executed on the two instances of this system.	Operation Start (including prepare if possible) executed successfully over 2 entity/entities
The system is starting. 7. Choose <i>Navigate to activity</i> .	Status       Operations         Not running       Image: Prepare one one one one one one one one one on

Explanation	Screenshots
<ul> <li>Once you choose on <i>Navigate to</i> activity link, a new browser tab/window is opened and you are automatically directed to the <i>Activities</i> screen where you can monitor the execution status of the start operation.</li> <li>8. Wait until the system is started and the activity is in Status <i>Completed</i>.</li> </ul>	Advance & Operations       Provisioning       Automation Studie       Monitoring       Configuration         Advance & Operations       Provisioning       Automation Studie       Monitoring       Configuration         Activities       Logs       Reports       Configuration         Overview       Concel # Holds       Releve Remove       Filtering       Export         Distatus       Progress       Description       Description         Set       Executing       25%       Prepare and Start
To monitor the progress of operations steps select the table <i>Steps</i> .	Activities       Logs       Reports         Overview       Entering       Export         ID       Status       Progress       Description         ID       Status       Description       Description         Support Details       Support Details       Description       Description         Executing:       [][[Cotal 1]       Description       Description         Initiat       ICotal B       Description       Description
Now you see the progress under the column <i>Status</i> .	Sommary         Steps           Consistent         D         Social per Circ         Period Resource (Mail Banneet)           UD         Social per Circ         Period Resource (Mail Banneet)         D           UD         Social per Circ         Period Resource (Mail Banneet)         D           UD         Social per Circ         Period Resource (Mail Banneet)         D           UD         Social per Circ         Period Resource (Mail Banneet)         D           UD         Social per Circ         Period Resource (Mail Banneet)         D           2         4.5.6         D         Completed         0.14         100         Denotes         DPO Control Instance (MAIP), DASS           3         7.8         1         D         Completed         1.14         0.30         Decompleted         1.14         DPO Completed         Decompleted         Decompleted
When activity is in status <i>Completed</i> switch back to the other browser tab/window.	Landscape Management       Working Set: Quality (1/4)       Search:       I Geo         Advanced Operations       Provisioning       Automation Studio       Monitoring       Configuration         Advanced Operations       Dogs       Reports       Infrastructure       Infrastructure         Overview       Conceller Hold Release Continue Retry Remove       Filtering       Export       Latest Server Tim         ID       Status       Progress       Description       Note       User         Status       Progress       Description       Note       User         Status       100%       Prepare and Start       TRIAL

Explanation	Screenshots
SAP system ERQ is now in status <i>Running</i> .	Systems       Search       Image: Constraints         Status       Operations         Initial       Image: Constraints         Initial       Image: Constraints         Initial       Image: Constraints         Running       Image: Constraints
9. Start the SAP systems BWQ: NetWeaver ABAP 7.40, sapdbbhq.example.com and CRQ: NetWeaver ABAP 7.40, sapdbcrq.example.com the in the same way.	Systems       Search       C       Image: Constraint of the search         Status       Operations         Initial       © Prepare          Initial       © Prepare          Initial       Initial       Image: Constraint of the search         Initial       Image: Constraint of the search       Image: Constraint of the search         Initial       Image: Constraint of the search       Image: Constraint of the search         Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search         Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search         Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search         Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search         Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search         Image: Constraint of the search       Image: Constraint of the search       Image: Constraint of the search         Image: Constraint of the search       Image: Constraint of the search       Image: Consearch         Image: Constrait
The Systems <i>BWQ</i> and <i>CRQ</i> are starting now. Their status is changing from "Not Running" to "Intermediate" and afterwards to "Running".	Characteristics       Instances       Hosts         Pools       Characteristics       Statuses       Networks       Storage Systems       Search       C         Name       Pool       Related Entities       Visualization       Status       Operations         BWO: NetWeaver ABAP 7.40, sapdbohg example.com       Quality       4 Instances       Status       Operations         CRO. NetWeaver ABAP 7.40, sapdbohg example.com       Quality       2 Instances       Status       Not running       Navigate to activity         ERO, NetWeaver ABAP 7.40, sapdbohg example.com       Quality       2 Instances       Status       Not running       Restart       ***
The Systems are finally in status Running.	1 Instances I Hosts         Pools       Characteristics       Statuses       Networks       Storage Systems       Search       C         Name       Pool       Related Entities       Visualization       Status       Operations         BWO: NetWeaver ABAP 7.40, sapdbing example.com       Quality       4 Instances $\frac{2}{10}$ Running       Restart          CRO. NetWeaver ABAP 7.40, sapdbing example.com       Quality       2 Instances $\frac{2}{10}$ Running       Restart          ERQ . NetWeaver ABAP 7.40, sapdbeing example.com       Quality       2 Instances $\frac{2}{10}$ Running       Restart



Explanation	Screenshots
14. Choose Prepare and Start	Prepare and Start       Forced       Prepare and Start       I Non-Executable Operations
15. Choose Prepare and Start Note In case you cannot see this button choose and afterwards Prepare and Start.	
The System database for CRD is turning to status Running.	CRD systems       Imstances       Hosts         Pools (Development)       Instance Types       Characteristics       Statuses       Networks       CRD. NetWeaver       So         Name       Pool       Related Entities       Visualization       Status       Operations         CRD system database (ABAP): Sybase.       Development       CRD: NetWe       So       Initial       So Navigate to activity         CRD Central Instance (ABAP): 01.       Development       CRD. NetWe       So       Initial       So Prepare
<ul> <li>Wait for the System database for CRD is in status Running.</li> <li>16. Choose in the line CRD Central Instance (ABAP): 01, sapcicrd.example.com</li> </ul>	CRD System Database (ABAP): Sybase, sapdbord.example.com       Development       CRD NetWe develop-vm-20       Image: CRD Running       Image: CRD Restart       Imag
17. Choose Prepare and Start	Status       Operations         □       Running       Image: Restart       Image: Restart         ◇       Initial       Image: Restart       Image: Restart         ◇       Initial       Image: Restart       Image: Restart         ✓       Image: Restart       Image: Restart       Image: Restart         ✓       Image: Restart       Image: Restart       Image: Restart         ✓       Image: Restart       Image: Restart       Image: Restart         ✓       Forced       >       Image: Restart       Image: Restart         ✓       Image: Restart       Image: Restart       Image: Restart       Image: Restart       Image: Restart         ✓       Image: Restart       Imag
<ul> <li>18. Choose Prepare and Start.</li> <li>i Note</li> <li>In normal ways the CRD Central Instance would immediately start.</li> <li>As written in the beginning of this document the system landscape of this</li> </ul>	Contractions     C

Explanation	Screenshots	
trial appliance has an Intersystem Dependency configured, that requires the <i>ERD Central Instance</i> to be running before <i>CRD</i> <i>Central Instance</i> can be started. Due to the fact that this <i>ERD</i> <i>Central Instance</i> is currently stopped, it is selected to be started as well.		
Wait until the <i>CRD Central Instance</i> is in status <i>Running</i> .	Pools (Development)     Instance Types     Characteristics     Statuses     Networks     CRD. Networks       Name     Pool     Related Entities     Vsualization     Status     Operation       CRD System Database (ABAP): Sybase, sappéteria kample.com     Development     CRD. NetWea develop-vm.20     Image: CRD. NetWea develop-vm.20     Image: CRD. NetWea develop-vm.21     <	saver (B) Q (t) ns start

### 6 Provisioning

#### Scenario

In the following exercise you will learn how to perform automated tasks for an SAP system using a provisioning process and how to monitor the execution status of the system copy operation.

- System Copy: System copy helps you to create a duplicate of an existing system with a different host name and a unique SAP SID.
   For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/bf/87fac514b549c190ff319863157f90/frameset.htm
- Synchronized SystemClone: Custom provisioning enables you to use your own replication technology to clone your source system and replaces the *Storage* step of the clone/copy workflow.
   For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/cb/40c4af19c74ee4a716a1cb421ab8bd/frameset.htm
- Refresh: Renew a formerly done System Copy to a current state (storage-based and restore-based).
- Destroy Clone: Delete a System that is not required anymore.

#### Description

- You copy system ERP from Production pool to ERS in the Sandbox pool.
- You clone system ERQ from Quality pool to ERQclone in the Sandbox pool.
- You do a storage-based refresh system ERS from Sandbox pool.
- You do a restore-based refresh system ERQ from Sandbox pool.
- You destroy system ERS from Sandbox pool.
- You create a Template for a system copy CRQ from Quality pool to Sandbox pool CRS.
- You monitor the execution status of the operations.

#### Scenario Steps



Explanation	Screenshots
6. On the <i>Hosts</i> step screen, keep the default values and choose <i>Next</i> and proceed with the next step.	System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Previous       Next, Pinish       Start System Copy       Save as Template Cancel         Image: Start System       Image: Start System       Image: Start System         Image: Start System       Start System       Isolation         Instance       Type       Target Hoat         System Database: MASTER (configured): HANA 00 Use Existing Hoat       sandbox-vm-01         Central Instance: 01       Use Existing Hoat       sandbox-vm-02
7. On the <i>Host Names</i> step screen, keep the default values and choose <i>Next</i> and proceed with the next step.	System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com
<ul> <li>8. Optional step: On the <i>Instance Number</i> step screen, enter the following values: <ul> <li>System database: 20</li> <li>Central Instance: 21</li> </ul> </li> <li>9. Choose <i>Next</i> and proceed with the next step.</li> </ul>	System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com  Previous Nextee Finish M Start System Copy Save as Template - Cancel  Total Consistence Variable -
10. On the <i>Storage</i> step screen, keep the default values and choose <i>Next</i> and proceed with the next step.	System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: Previous Next, Image:

Explanation	Screenshots
11. On the <i>Consistency</i> step screen, keep the default values and choose <i>Next</i> and proceed with the next step.	System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com                     Start System Copy             Save as Template - Cances                 I - 1
12. On the <i>Users</i> step screen, keep the default values and choose <i>Next</i> and proceed with the next step.	System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com       Image: Previous     Network     Finish M     Start System Copy     Save as Template _ Cancel       Image:
13. On the <i>Rename</i> step screen, keep the default values and choose <i>Next</i> and proceed with the next step.	System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp,example.com                 Provisos Next,           Image: Start System Copy       Save as Template. Cance         Provisioning Release Configuration for System              Additional parameters          Additional parameters              AdaP. Delabases Configuration          Source database credentials              Password for Source sub-adm.*          Password for Source HAIA.SYSTEM User: *              New Password for System          New Password for System User: *              New Password for System          New Password for System User: *              New Password for System          New Password for System User: *              New Password for System          New Password for System Very Password for System               New Password for System          New Password for System User: *              Confirm New Password for System          New Password for System Very Password for System               New Password for System

Explanation	Screenshots
14. On the <i>Isolation</i> step screen, keep the default values and choose <i>Next</i> and proceed with the next step.	System Copy - ERP. HetWeaver ABAP 7.40, aspdbehp.examplex.com         Previous Netat,       Pre
15. On the ABAP PCA step screen, keep the default values and choose Next and proceed with the next step.	System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Previous       Next, etc.         Image: Start System Copy       Save as Template         Cancel       Image: Start System Copy         Save as Template       Cancel         Image: Start System Copy       Save as Template         Cancel       Image: Start System Copy         Image: Start System Copy       Save as Template         Cancel       Image: Start System Copy         Image: Start System Copy       Save as Template         Cancel       Image: Start System Copy         Post Copy Automation Image: Start System Copy       Image: Start System Copy         Add Remove: Image: Start System Copy       Move Down Image: Start System Copy         Image: Start System Copy       Image: Start System Copy         Image: Start System Copy       Start System Copy
16. On the Summary step screen choose Start System Copy to trigger the operation.	System and AS       Virtual Host         First       Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         First       Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         First       Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: System Copy - ERP: NetWeaver ABAP

#### Explanation

Once you trigger the operation, you are automatically re-directed to the *Activities* screen where you can monitor the execution status of the system copy operation.

17. Wait for the activity to be Completed.

#### 1 Note

This activity is simulated. In productive use the duration of this activity depends heavily on the performance and capabilities of the involved storage systems and the size of the SAP system.

 Optional step: When selecting the activity-row, the Summary is shown in a tab below. When selecting the tab Steps all steps of this activity are displayed.

#### SAP Landscape Management -4-1 Ê 10 . 2.5 Advanced Oper Provisioning Monitoring Infrastructure Automation Stu Configuration Activities Logs Reports Overview el a Hold Release Continue Retry Remove | Filtering | Export ID Status ħ 100% 694 🕞 🤇 680 Completed 100% repare and Sta 678 Completed 100% Prepare and Start 676 De Completed 100% Prepare and Start 674 Completed Prepare and Start 100% 672 Completed 100% Prepare and Start

### 6.2 System Clone (Synchronized clone)

#### Navigate to Provisioning > 1. Landscape Management System and AS De Êb . 2.5 -4-2. In the system selector on the nced Operat Provisioning Monitoring Configuratio System and AS Virtual Host left side select system System Landscape ERQ: NetWeaver ABAP 7.40, sapdbehq.example.com ERQ: sapdbehq.example.co Clone Sintem Copy System Standalone PCA Refresh System a Destroy System a Manage System Find: O BWD: sapdbbhd.example.c m BWP: sapdbbhp.example.c BWQ: sapdbbhq.example.c CRD: sapdbcrd.example.c CRP: sapdbcrp.example.c General ERQ: NetWeaver ABAP 7.40, System Name 3. Choose Clone System. System ID: ERQ sapdbehq.example.com System Host: CRQ: sapdbcrq.example.c NetWeaver ABAP Type: ERD: sapdbehd.example.c ERP: sapdbehp.example.c 7.40 Release: SystemID.ERQ.SystemHost.s nstance ID: ERO: sap SAP ERP on HANA (Copy of ! Description: Quality Status Running Instances Instance System database (ABAP): MASTER : EHQ, HANA 00, sapdbehq.example.com Central Instance (ABAP): 01, sapcierq.example.com

Exp	olanation	Screenshots	
4.	On the <i>Basic</i> step screen, provide the following values: • Pool: <b>Sandbox</b> Choose <i>Next</i> and proceed with the next step.	System Cloning - ERQ: NetWeaver ABAP 7.40, sapdbehq.example.com         Previous       Nett       Finish       Start System Cloning       Save as Template       Cancel         Image: I	ary
6.	On the <i>Hosts</i> step screen keep the default values and choose <i>Next</i> and proceed with the next step.	System Cloning - ERQ: NetWeaver ABAP 7.40, sapdbehq.example.com         Image: Previous Next       Finish       Start System Cloning Save as Template / Cancel         Image: Previous Next       Finish       Start System Cloning Save as Template / Cancel         Image: Previous Next       Finish       Start System Cloning Save as Template / Cancel         Image: Previous Next       Finish       Start System Cloning Save as Template / Cancel         Image: Previous Next       Host Names       Storage       Consistency       Isolation         Host Selection of Target System       Show Source Data       Instance       Type       Target Host       Sandbox-vm-03       Sandbox-vm-04       Image: Previous Next	ry
7.	On the <i>Host Names</i> step screen keep the default values and choose <i>Next</i> and proceed with the next step.	System Cloning - ERQ: NetWeaver ABAP 7.40, sapdbehq.example.com <ul> <li>Previous</li> <li>Next</li> <li>Finish</li> <li>Start System Cloning</li> <li>Save as Template</li> <li>Cancel</li> </ul> <ul> <li>I</li> <li>I</li></ul>	istance ystem datal ystem datal entral Insta

Exp	olanation	Screenshots
8.	On the <i>Storage</i> step screen keep the default values and choose <i>Next</i> and proceed with the next step.	System Cloning - ERQ: NetWeaver ABAP 7.40, sapdbehq.example.com <ul> <li>Previous</li> <li>Next.iiii</li> <li>Finish</li> <li>Start System Cloning</li> <li>Save as Template / Cancel</li> <li>I 2 3 4 5 6 7 1</li> <li>Basic</li> <li>Hosts</li> <li>Host Names</li> <li>Storage Consistency</li> <li>Isolation</li> <li>Summary</li> </ul> Clone from system snapshot [           Clone from system Snapshot:           Storage Volumes           Copy Target Selecton           Tar           Name           Operation         Name           Storage Manager:         MyStorageManager           Vendor:         SAP           Product:         Simulated Storage           Version:         1.0           Custom Cloning Properties         Tar         Tar
9.	On the <i>Consistency</i> step screen, select leave the part Database	Name       Value       Type       Mandatry       Description         booleanKey       Boolean       boolean       boolean       boolean       boolean         stringKey       Boolean       Boolean       boolean       boolean       boolean         stringKey       Boolean       Boolean       boolean       boolean       boolean         stringKey       Boolean       Boolean       boolean       boolean       boolean         doubleKey       -1       Integer       Int       double       int         longKey       -1       Integer       int       long       urit         valueArrayKey       Edt Values       String Array       stringValueArr         valueSetKey       value2       String       stringValueSet         Montoring Time:       2015-01-28 15 24 54 UTC       C Monitoring Data         System Cloning - ERQ: NetWeaver ABAP 7.40, sapdbehq.example.com       Gancel
10.	Check Schedule execution of cloning step.	Image: Consistency Image: Constant
11. 12.	Enter as scheduled "Execution Time (UTC)" a time around 15 minutes in future ("Latest Server Time" plus 15 minutes). Choose <i>Next</i> and proceed with the next step.	Scheduled Execution of Cloning Step ↓         ✓ Schedule execution of cloning step         Execution Date (UTC):         11/07/2016         Execution Time (UTC):         11:28:33 AM         Latest Server Time (UTC):

Explai	nation	Scree	enshot	S							
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t tł	ne next step.		Basic	Hosts	Host Names	Storage	Consisten	cy Isol	lation	Summary	1.1
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			Port	Any host name	Idap		Allow commu	nication to all h	nosts on por	t/service (Idap	»)
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14. O	on the Summary step screen,	Svet	em Cloning	EDO: NetWeav	or ABAD 7 40	eandhaha	wample.com				
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#### Explanatior

15. Optional step: Wait for the activity to be Completed.

### 1 Note

This activity is simulated. In productive use the duration of this activity depends heavily on the performance and capabilities of the involved storage systems and the size of the SAP system.

	Activities Logs Reports						
Over	view						
Car	ncel 🔟	Hold Release Continu	e Retry Remove	Filtering Export			
6	ID	Status	Progress	Description	Note		
7							
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	708	Completed	100%	System Copy			
	707	Completed	100%	Prepare and Start			
	705	Completed	100%	Prepare and Start			
	703	D <sub>a</sub> Completed	100%	Prenare and Start			

### 6.3 System Refresh (Storage based)

1. 2. 3.	<pre>Navigate to Provisioning &gt; System and AS. In the system selector on the left side select system ERS: sapdbehs.sandbox.ex ample.com Choose Refresh System.</pre>	Advanced Operations       Provisioning       Image: Configuration       Image: C
4.	On the <i>Basic</i> step screen, enter the following values: • Password: walldorf1 (and confirm) Choose <i>Next</i> and proceed with the next step.	System Refresh - ERS: HetWeaver ABAP 7.40, sapdbehs.sandbox.example.com            Provices       Nextel Finish Start System Refresh Save as Tempate. Cancel            Basic       Finish Start System Refresh Save as Tempate. Cancel            Basic       Hosts         Hosts       Host Names         Storage       Consistency         Users       Rename         Isolation       ABAP PCA         Basic       Host Names         Storage       Consistency         Users       Rename         Basic Odda of System to be Refreshed         Refresh from System:       EEP NetWeaver ABAP 7.40, sapdbehp examp         Export of system configuration data       Export of already exists:         Export of already exists:

Exp	olanation	Screenshots
6.	On the <i>Hosts</i> step screen, keep the default values. Choose <i>Next</i> and proceed with the next step.	System Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com  Previous Next Prish Start System Refresh Save as Template Cancel  Provious Next Prish Storage Consistency Users Rename Isolation ABAP PCA Host Selection of Target System  Instance Type Target Nost System database: MASTER (configured) (active): HANA 00 Use existin Sandbox-vm-01 Central Instance: 01 Use existin Sandbox-vm-02
8. 9.	On the <i>Host Names</i> step screen, keep the default values. Choose <i>Next</i> and proceed with the next step.	System Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com
		Virtual Host Names and Networks           Target         Additional           Host Name         Auto IP Address         IP Address         Network         Instance           appotents sandbox exam         IP Address         Sandbox/Network         System database: MASTER (configured) (sc sapchers sandbox exam         Sandbox/Network         System database: MASTER (configured) (sc sapciers sandbox exampl         Sandbox/Network         Central Instance: 01           sapciers sandbox exampl         IP         Sandbox/Network         Central Instance: 01
10.	On the <i>Storage</i> step screen, keep the default values.	System Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com
11.	Choose <i>Next</i> and proceed with the next step.	Basic Hosts Host Names Storage Consistency Users Rename Isolation ABAP PCA Clone from system snapshot Clone from System Snapshot Storage Volumes Copy Target Selection Name Operation Name Full Copy Storage Manager. MyStorageManager Volume ERP Create New Volume ERS
12.	On the <i>Consistency</i> step screen keep the default values. Choose <i>Next</i> and proceed with the next step.	System Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Holds         Image: Provide the system Refresh Holds         Image: Provide the system Refresh Save as Template. Cancel         Image: Provide the system Refresh Holds         Image: Provide the system Refresh Ho
Explanation	Screenshots	
--	---	---
<ol> <li>On the Users step screen keep the default values.</li> <li>Choose Next and proceed with the next step.</li> </ol>	System Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com	Cancel 6 7 8 9 Users Rename Isolation ABAP PCA
	Target Target User D User D User Name ehsadm ersadm ersadm	Password
16. On the <i>Rename</i> step screen keep the default values.	System Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com	Cance)
17. Choose <i>Next</i> and proceed with the next step.	le 1 2 3 4 5 Basic Hosts Host Names Storage Consistency	6 7 8 9 Users Rename Isolation ABAP PCA
	Host     Release Configuration     Release Version       sandbox-vm-Q2     Default Release Configuration fo     Product release version not;       Source database coredeminatis     Password for Source +sid>adm: *     Image: Checker in the source +sid>adm: *       Password for Source HANA SYSTEM User: *     Image: Checker in the source +sid>adm: *     Image: Checker in the source +sid>adm: *	Additional Parameters           yet retrieved         ABAP Database Schema:           Sapmit Pain: "         New Password for Schema user: "           Confirm New Password for Schema User: "         New Password for SChema User: "           New Password for SVSTEM User: "         Confirm New Password for SVSTEM User: "           AMAL Laten Interface:         SAP HANA System Usage: "           Instalation Pain for HANA: "         Path to HANA Data Back ups:           Path to HANA Log Back ups:         Path to HANA Log Back ups:
18. On the <i>Isolation</i> step screen keep the default values.	System Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com	Cancel
19. Choose <i>Next</i> and proceed with the next step.	I a 1 2 3 4 6 Basic Hosts Host Names Storage Consistency	6 7 8 9 Users Rename Isolation ABAP PCA
	Unfence target system with confirmation	-vm-02   -vm-02   -vm-02   -vm-02   -vm-02   -vm-02   -vm-02   -vm-02



Ex	planation	Screenshots
	involved storage systems and the size of the SAP system.	
6	4 Refresh Systen	n (Restore based)
	l Note	
	The activity before must be in status Completed before this chapter can be executed.	
1.	Navigate to Provisioning > System and AS.	Landscape Management
3.	In the system selector on the left side select system ERS: sapdbehs.sandbox.ex ample.com Choose Refresh System > Restore-Based Refresh. I Note The activity Restore-Based Refresh is offered for HANA-based systems only.	Advanced Operations       Provisioning       Automation Studio       Monitoring       Configuration       Infrastructure         System and AS       Vinual Host         System Landscape       Find       System Advance       System Advance       System Advance       System Advance       System Advance         Monitoring       Configuration       Infrastructure       System Advance       System Advance       System Advance       System System / Destroy System / De
4.	On the <i>Basic</i> step screen, enter the following values: • Password: walldorf1 (and confirm) Choose <i>Next</i> and proceed with the next step.	Database Refresh - ER5: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com            Previous         NetL         NetL         Previous         Previous

Explanation	Screenshots
<ol> <li>On the <i>Hosts</i> step screen, keep the default values.</li> <li>Choose Next and proceed with</li> </ol>	Database Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com
the next step.	Basic Hosts Host Names Users Database Restore Rename Isolation ABAPPCA Summary Host Selection of Target System  Instance Instance Type Target Host System database: MASTER (configured) (active): HANA 00 Use existing host Central Instance: 01 Use existing host Sandbox-vm-02
8. On the <i>Host Names</i> step screen keep the default values.	Database Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com   Previous Next.
9. Choose <i>Next</i> and proceed with the next step.	Virtual Host Names and Networks         Add Remove         Target         Host Names and Networks         Add Remove         Add R
<ol> <li>On the Users step screen, keep the default values.</li> <li>Choose Next and proceed with</li> </ol>	Database Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com       Previous     Next. ap     Frish P     Start Database Refresh / Save as Template Cancel       Image: Previous Rest of the P     Start Database Refresh / Save as Template Cancel     Reset Step Check       Image: Previous Rest of the P     Save Refresh / Save as Template Cancel     Reset Step Check       Image: Previous Rest of the P     Save Rest Rest of the P     P       Image: Previous Rest Rest Rest Rest Rest Rest Rest Res
the next step.	User and Group Management         Show Details         Show Details         User and group details         User and group details         etails         Target Group Assignment         User Details         User Details         Target Group Assignment         User Details         Target Group Assignment         User Details         Target Group Assignment         Oper
12. On the <i>Database Restore</i> step	Login Shek <u>Inhrbash</u> Uaer ID Number: 505
<pre>screen, choose the following values: o Select Backup to be used for Restore:     <choose dropdownlist="" entry="" first="" in="" the=""></choose></pre>	Previous Next P Fish P Start Database Refresh Save as Template Cancel Reset Step Check     Previous Next P Fish P Start Database Refresh Save as Template Cancel Reset Step Check     Basic Hosts Host Names Users Database Restore Rename Isolation ABAP PCA Summary  Database Restore Select Back up to be used for Restore:     COMMETEE DATA, BACKUP 9 2005-07-10 100000 UTC)     COMMETEE DATA, BACKUP 1 2016-07-0 100000 UTC)     COMMETEE DATA BACKUP 1 2016-07-0 100000 UTC)     COMMETEE DATA PERCHANGEN

Explanation	Screenshots
13. Choose <i>Next</i> and proceed with the next step.	Database Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com         Previous       Finish         Start       Start Database Refresh         Sase       Host         Host       Host         Database Restore       Select         Select Backup to be used for Restore:       COMPLETE_DATA_BACKUP_9 (2016-07-10 10:00:00 UTC)
<ol> <li>On the <i>Rename</i> step screen, keep the default values.</li> <li>Choose <i>Next</i> and proceed with the next step.</li> </ol>	Database Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com
<ol> <li>On the <i>Isolation</i> step screen, keep the default values.</li> <li>Choose <i>Next</i> and proceed with the next step.</li> </ol>	Database Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com
<ol> <li>On the ABAP PCA step screen, keep the default values.</li> <li>Choose Next and proceed with the next step.</li> </ol>	Database Refresh - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com             Preribus Nett              Preribus Nett              Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Previbus Nett             Prost Copy Automation             Add Remove             Move Up             Modify Parameters             Clent Name Clent Role             Task List             Dool



Explanation	Screenshots
6.5 Destroy Systen	n
<ul> <li>Stop and unprepare the system</li> <li>ERS: sapdbehs.sandbox.examp</li> <li>le.com</li> <li>in the Sandbox pool before this</li> <li>system can be destroyed.</li> <li>22. Navigate to Advanced</li> <li>Operations &gt; Systems</li> <li>23. Expand the Sandbox in the</li> <li>System Landscape on the left</li> <li>side.</li> <li>24. Select and expand the system</li> <li>ERS: sapdbehs.sandbox.ex</li> <li>ample.com</li> </ul>	System       Hosts       Virtualization       Storage         System       Hosts       Virtualization       Storage         System       Hosts       Virtualization       Storage         System       Landscape       Overview of systems and instances         Find:       Next       Grouping & Filtering       Export         Pools (4)       Development (3)       Production (3)       Overview of system (Default)       Filtering         Production (3)       Quality (3)       Sandbox (2)       Image: Complex Comp
<ul> <li>Below this table you see a table named Mass Operations where all 2 instances of this instance are listed in the list of Executable Instances.</li> <li>25. To stop these instances, ensure that the Operation Mass Stop (including unprepare if possible) is selected.</li> </ul>	Mass Operation         System Datable         Log         Validation           Operation         Type:         format         - Generative
<ul> <li>26. Choose the icon.</li> <li>27. Choose Select All from the dropdown menu.</li> </ul>	Mass Operation         System Delais         Log         Valiation           Operation         Operation         Operation         Operation         Tenced           Operation         Tenced         Image: Case Assign: Case Hearts         Image: Case Assign: Case Hearts         Image: Case Assign: Case Hearts           Operation         Tenced         Image: Case Assign: Case Hearts         Image: Case Assign: Case Hearts         Image: Case Assign: Case Hearts           Operation         Tenced         Image: Case Assign: Case Hearts         Image: Case Assign: Case
28. Choose <i>Execute</i> . Wait until the system ERS is stopped and unprepared.	Mass Operations         System Details         Log         Validation           Operation         © Status         © Operation         © Details         Use Status         ©           Validation         Type Usernal         © Operation         © Details         ©         Executed            Validation         Type Usernal         © Operations         ©         Image: Status         Possible Operations           Validation         Type Usernal         © Details         ©         Possible Operations         Possible Operations           Validation         EXEC Status         Possible Operations         Executed         ©         Reserved           EXES         EXES Operations         Executed         ©         Reserved         ©         ©         Reserved         ©         Reserved         ©         Reserved         ©         Reserved         ©         %         Reserved         ©         %         Reserved         %         Reserved         %         Reserved         %         Reserved         %         Reserved         %         %         % </td

Explanation	Screenshots
<ul> <li>29. Navigate to <i>Provisioning</i> &gt; <i>System and AS</i></li> <li>30. In the system selector on the left side select <pre>ERS: sapdbehs.sandbox.ex ample.com</pre> 31. Choose <i>Destroy System</i>. </li></ul>	System Landscape Versing 1   Manage System Shaphbolts example cons System Shaphbolts example cons   System Resc System Resc   System Resc S
<ul> <li>32. On the <i>Delete Storage Volumes</i> step screen keep the default values.</li> <li>33. Choose <i>Next</i> and proceed with the next step.</li> </ul>	System Destroy - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com         Image: Start System Destroy         Dester Storage Volumes         Dester Volume         Dester
<ul><li>34. On the <i>Delete Host Names</i> step screen keep the default values.</li><li>35. Choose <i>Next</i> and proceed with the next step.</li></ul>	System Destroy - ERS: NetWeaver ABAP 7.40, sapdbehs.sandbox.example.com
36. On the Summary step screen, choose <i>Start System Destroy</i> to trigger the operation.	System Destroy - ERS: NetWeaver ABAP 7.40, sapdbeha.sandbox.example.com                 Previous Next P Finish P Start System Destroy Save as Template Cancel                  Delete Storage Volumes          Delete Storage Volumes         Delete Storage Volumes         Delete Storage Volumes         Delete Storage Volumes         Delete Storage Volumes         Delete Storage Volumes         Delete Storage Volumes         Delete Volumes         Volume         Storage Manager         Storage Pool         Image Pool

### Once you trigger the operation, you Landscape Management Working Set: <All> are automatically re-directed to the -4-B 22 Activities screen where you can Advanced Operation Provisioning Automation Studio Monitoring Configuration Infrastructure monitor the execution status of the Activities Logs Reports system destroy operation. Overview Cancel / Hold Release Continue Retry Remove | Fitering | Export 37. Wait for the activity to be ۳ ۲ ID Status Progress Description Note Completed. 794 Completed 100% 792 Completed 100% Stop and unprepare [Mass] 1 Note 790 Completed 100% Database Refresh 767 Completed 100% Database Refresh This activity is simulated. In productive use the duration of this activity depends heavily on the performance and capabilities of the involved storage systems and the size of the SAP system. 38. Optional step: If you like to destroy the **ERQclone** as well than execute this chapter for ERQ: sapdbehqclone.examp le.com. **Provisioning Templates** 6.6 39. Navigate to Provisioning > System and AS 40. In the system selector on the Landscape Management left side select De . 2.5 B -b-CRQ: sapdbcrq.example.co Advanced Oper Provisioning Automation Studio Monitoring Configuration Infrastructu m System and AS Virtual Host System Landscape CRQ: NetWeaver ABAP 7.40, sapdbcrq.example.con 41. Choose Copy System. Next Find: Clone System Copy System Standalone PCA Refresh System a Destroy System o BWD: sapdbbhd.example.com BWP: sapdbbhp.example.com General BWQ: sapdbbhq.example.com ORD: sapdbcrd.example.com CRQ: NetWeaver ABAP 7.40, System Name System ID: CRQ CRP: sapdbcrp.example.com sapdbcrq.example.com System Host NetWeaver ABAP O ERD: sapdbehd.example.com Type: 7.40 Release: ERP: sapdbehp.example.com SystemID.CRQ.SystemHost. ERQ: sapdbehq.example.com Instance ID: SAP CRM on ASE (Copy of S ERQ: sapdbehqclone.example Description: Quality Pool: Status: Running

Explanation	Screenshots
<ul> <li>42. On the <i>Basic</i> step screen, enter the following values: <ul> <li>System ID: CRS</li> <li>Pool: Sandbox</li> <li>Password: <ul> <li>walldorf1 (and confirm)</li> </ul> </li> <li>43. Choose Next and proceed with the next step.</li> </ul></li></ul>	System Copy - CRQ: NetWeaver ABAP 7.40, sapdbcrq.example.com         Image: Previous Next Provide State Provide State Password is used as the default password state Password is used as the default password state. If passwords differ, they can be changed in the steps.         Basic       CRS         Use Different Database Name:
<ul> <li>44. Execute the steps as described in chapter '6.1 Copy System' including step 15.</li> <li>45. On the Summary step screen, choose Save as Template to trigger the operation.</li> </ul>	Image: Previous Next       Finish       Start System Copy       Save as Template       Cancel         Save as Template       Save as Template       Save as Template       Save as Template         Image: Ima
<ul> <li>46. On the upcoming popup enter the following values: <ul> <li>Name:</li> <li>ExampleTemplate</li> <li>Description:</li> <li>ExampleDescription</li> </ul> </li> <li>Password: <ul> <li>walldorf1 (and confirm)</li> </ul> </li> <li>47. Choose Save and proceed with the next step.</li> </ul>	Save as template          Name: *       ExampleTemplate         Description: *       ExampleDescription         Set Password for Encrypting Sensitive Data:       Password: *         Password: *       •••••••••         Repeat Your Password: *       ••••••••         Save       Cancel

Explanation	Screenshots
Once you save the template, you are automatically re-directed to <i>Automation Studio -&gt; Provisioning</i> <i>Templates</i> screen and there is now a new entry.	Landscape Management       Working Set: Alb         Advanced Operations       Provisioning         Provisioning Templates       Monitoring         Overview       Excepts         Excepts       Export Import         Remove       Provider         ExampleDescription       SAP SE         ExampleDescription       SAP SE         Rows: 1 totsi, 1 shown. 1 selected       Selected: ExampleTemplate
48. Select the corresponding line in the table and choose <i>Execute</i> .	Design     Provisioning Templates       Overview
49. Choose Yes.	Confirmation Are you sure you want to execute the selected template? Vesting No
Once you trigger the operation, you are automatically re-directed to the <i>Activities</i> screen where you can monitor the execution status of the system copy operation. 50. Wait for the activity to be Completed. <b>i</b> Note This activity is simulated. In productive use the duration of this activity depends heavily on the performance and capabilities of the involved storage systems and the size of the SAP system.	Andscape Management       Working Set: (AP)         Advanced Operations       Provisioning         Activities       Loga         Reports       Configuration         Overview       Configuration         Cancell Hold Release Continue Retry Remove       Filtering         Distante       Provisioning         255       Completed         100%       ExampleTemptets         255       Completed         100%       EvanpleTemptets         255       Completed

# 7 SAP HANA Near Zero Downtime Takeover

### Scenario

If your primary system is not available, due to a disaster or planned downtime for example, and you have decided to fail over to the secondary system, you can perform a takeover on your secondary node with near Zero Downtime.

In the following exercise you will learn how to perform Takeover-operations on SAP HANA instances.

For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/bb/ca099ce73c42d99596375389b0b0e1/frameset.htm

### Description

- You perform a HANA Near Zero Downtime Takeover operation.
- You monitor the status of systems.



Exp	olanation	Screen	ishots					
4.	If not already selected choose Systems.	Pools Name	Characteristics	Statuses	5	Networks	្រី Sy Storage Systems Pool	stems [] Insta Releases Relate
5.	Choose 4 Instances in the line BWP: NetWeaver ABAP 7.40, sapdbbhp.example.com.		Pools Name BWP: NetWeaver A sapdbbhp.example CRP: NetWeaver Al sapdbcrp.example ERP: NetWeaver Al sapdbehp.example	Characteristics BAP 7.40, .com 3AP 7.40, com 3AP 7.40, .com	s F F F	Statuses Pool Production Production	Systems     Instances       Alinstances     3 Instances       3 Instances     3 Instances	ances Stor: Visual କୃତ୍ତି କୃତ୍ତି
6.	Choose in the line BHP System Database (ABAP): Secondary (Tier 2) MASTER : HANA 00, sapdbbhprepl.example.com.	Name BHP System MASTER, e. BHP System MASTER, H. BWP Cantra sapcibup e. BWP AS inst sapasobwp.	Database (ABAP): Primary (Tier 1) trive): HANA 00, sample.com Database (ABAP): Secondary (Tier ARA 00, sapdbhprejl.xample.cor Instance (ABAP): 01, cample.com Race (ABAP): 10, example.com	Pool Production Production Production Production Production	Related Entities BWP: NetWeave prod-blade-25 BWP: NetWeave prod-blade-27 BWP: NetWeave prod-blade-28	Vesualization           f	Status  Running Running Running Running	Operations          • Restart           • Restart           • Restart           • Restart           • Restart           • Restart
7.	Choose SAP HANA Processes > Near Zero Downtime Takeover.		Status Status Run	ning ning ning time Mainter	nance	<ul> <li>Stop</li> <li>Reloca</li> <li>Stop a</li> <li>Forcea</li> <li>SAP H</li> <li>SAP H</li> <li>Profile</li> <li>Non-E</li> </ul>	Operation Res Res ate (running) and unprepare d IANA Replication IANA Processes Executable Operation	start start start start > > > > > > > > >

8. Choose Execute.       Image: Constrained and the former secondary SAP HANA instance is stopped and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained and the former secondary SAP HANA instance has now the DB role primary.       Image: Constrained	Explanation	Screenshots			
9. Choose OK.       Image: Confirm Con	8. Choose <i>Execute</i> .	Execute Near Zero Downtime Tak DIAGRAM What for Active Repictation Weat for President of President of Balles	Cancel	Wait for Ar Replication *ERATION EXECUTABL Name BHP Syste	E ENTITIES
Afterwards you are redirected to the screen Operations and Maintenance > Operations.       Name       Pool       Related Entities       Visualization       Status         BHP System Database (ABAP): Primary (Tier 1) MASTER : HANA 00, sapdbbhp.example.com       Production       BWP. NetWeav prod-blade-25       Status         Wait for the primary SAP HANA instance has now the DB role primary.       BWP Astronace (ABAP): 10, sapas0bwp.example.com       Production       BWP. NetWeav prod-blade-27       Status	9. Choose <i>OK</i> .	Are you sure that y	Confirm	ustom proces OKin, Car	ss?
Wait for the primary SAP HANA       BWP Central Instance (ABAP): 01, saptibility example.com       Production       BWP. NetWeav prod-blade-26       BWP Central Instance (ABAP): 01, prod-blade-28       BWP Central Instance (ABAP):	Afterwards you are redirected to the screen Operations and Maintenance > Operations.	Name BHP System Database (ABAP): Primary (Tier 1) MASTER : HANA 00, sapdbbhp.example.com BHP System Database (ABAP): Primary (Tier 1) MASTER (Setting) HAND P	Pool Related Entities Production BWP: NetWeay prod-blade-25 BWP: NetWeay	Visualization ବୃନ୍ତି	Status Not Running
	Wait for the primary SAP HANA instance is stopped and the former secondary SAP HANA instance has now the DB role primary.	1) mAs IER (active): HANA 00, sapdbibryenje.example.com BWP Central Instance (ABAP): 01, sapcibwp.example.com BWP AS Instance (ABAP): 10, sapas0bwp.example.com	Production prod-blade-26 Production BWP: NetWeav prod-blade-27 BWP: NetWeav prod-blade-28	999 999 999 999 999	Running Running Running

## 7.2 SAP HANA Failback

Continue on the screen where you ended chapter 7.1 SAP HANA NZDM Takeover.

1. Choose in the line BHP System Database (ABAP): Primary (Tier 1) MASTER : HANA 00, sapdbbhp.example.com.

Pools	Instance Types	Characteristics	Statuses	Networks	Storage Systems	BWP: NetWeaver 🛞 C
Name		Pool	Related Entities	Visualization	Status	Operations
BHP System dat (Tier 1) MASTER sapdbbhp.exam	abase (ABAP): Primary : HANA 00, ple.com	Production	BWP: NetWea prod-blade-25	899 000	<ul> <li>Not running</li> </ul>	O Unprepare
BHP System dat (Tier 1) MASTER sapdbbhprepl.e	abase (ABAP): Primary ( (Active): HANA 00, xample.com	Production	BWP: NetWea prod-blade-26	0.00 0.00	Running	• Restart ••••
BWP Central Ins sapcibwp.exam	tance (ABAP): 01, ple.com	Production	BWP: NetWea prod-blade-27	÷÷	Running	• Restart
BWP AS instanc sapas0bwp.exai	e (ABAP): 10, mple.com	Production	BWP: NetWea prod-blade-28	-9-9	Running	• Restart

Explanation	Screenshots	
2. Choose SAP HANA Processes > Failback for SAP HANA System Replication.	on Status Not running Running Running Failback for SAP HANA System Replication	Operations         Image: Operations       Image: Operations
3. Choose Execute.	Execute Failback for SAP HANA System Replication	Cancel Reregister Secondary Hise Tier for System Replication MODE (String): CPEINATION_MODE (String): CPEINATION_MODE (String): CPEINATION_MODE (String): CPEINATION_MODE (String):
<ul> <li>4. Choose OK.</li> <li>Afterwards you are redirected to the screen Operations and</li> <li>Maintenance &gt; Operations</li> </ul>	Image: Name         Pool         Related Entities           BHP System Database (ABAP): Primary (Ter 1) MASTER Cactive): MARA 00, sapeDathy.assiph.com         Production         BWP. NetWeav prod-telade-25	m cute this custom process? OK Cancel Visualization Status Operations ☆ Running @ Restart
Wait for all instances of this system are started and is in status Running.	BHF System Database (ABAP): Secondary (Tre 2) MASTER: HANA.00         Production         BWP: NetWeav prod-biade-26           BWP Central instance (ABAP): 01, sapbitop x-xample.com         Production         BWP: NetWeav prod-biade-27           BWP A S instance (ABAP): 10, sapasobwp.example.com         Production         BWP: NetWeav prod-biade-28	Image: Constraint of the sector of the se

# 8 SAP HANA Near Zero Downtime Maintenance (nZDM)

### Scenario

To reduce the downtime of an SAP HANA system you perform a near zero Downtime maintenance operation. You stop, unregister, register, and start the replication tiers.

In the following exercise you will learn how to perform maintenance-operations on SAP HANA instances.

For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/de/cb0795d8a44831804732254f14fcc3/frameset.htm

### Description

- You perform HANA Near Zero Downtime Maintenance operations.
- You monitor the status of systems.

Explanation	Screenshots
8.1 Configure System	em Replication
<ol> <li>Open http://<ipaddressofyourinstan ce&gt;:50000/lama.</ipaddressofyourinstan </li> <li>Choose Provisioning &gt; Application Server.</li> </ol>	<ul> <li>SAP</li> <li>Overview</li> <li>Operations and Maintena</li> <li>Powerview</li> <li>Provisioning</li> <li>Nation Server</li> <li>Virtual Host</li> <li>CF</li> <li>Automation Studio</li> <li>EF</li> </ul>
<ul> <li>In another browser window you see the configuration.</li> <li>3. Choose <i>ERP</i>: NetWeaver ABAP 7.40, sapdbehp.example.com.</li> <li>4. Choose Configure System Replication.</li> </ul>	Advanced Operations       Provisioning       Image: Configuration       Image: Configuration         Advanced Operations       Provisioning       Image: Configuration       Image: Configuration         System and S       Valual Host       Image: Configuration       Image: Configuration         System Landacepe       Provisioning       ERP: NetWeaver ABAP 7.40, supthethp.example.com       Image: Configuration         O BWD: supdothg example com       Configuration       Configuration       Image: Configuration       Image: Configuration         O BWD: supdothg example com       Configuration       Image: Configuration       Ima
<ul> <li>5. On the <i>Replication</i> step screen, enter the following values: <ul> <li>Replication Source Site</li> <li>Name: site A</li> <li>Replication Site Name:</li> <li>site B</li> <li>Sync Mode: synchronous</li> <li>Operation Mode: Delta</li> <li>Datashipping</li> <li>Enable Full Sync:</li> <li>unchecked</li> </ul> </li> </ul>	System Replication for ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Previous       Next       Finish       Configure System Replication       Cancel         I       2       3       4       5       6       Image: Storage

Ex	blanation	Screenshots
6.	Choose <i>Next</i> and proceed with the next step.	
7.	On the <i>Hosts</i> step screen and choose <i>Next</i> and proceed with the next step.	System Replication for ERP: NetWeaver ABAP 7.40, sapdbehp.example.com
		Show Source Data         Instance       Type       Target Host         System Database: MASTER (configured) : HANA 00       Use Existing Host        prod-blade-01         Image: State of the state of
8.	On the <i>Host Names</i> step screen and choose <i>Next</i> and proceed with the next step.	System Replication for ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Previous       Next       Finish       Configure System Replication       Cancel         1       2       3       4       5       6       4         Replication       Hosts       Host Names       Storage       Rename       Summary         Virtual Host Names and Networks       Add       Remove       Target         Host Name       Auto IP Address       IP Address       Netw         erpmstsite-b       ✓       Corpo
9.	On the <i>Storage</i> step screen, enter the following values: • Full Copy: <b>checked</b>	System Replication for ERP: NetWeaver ABAP 7.40, sapdbehp.example.com            Previous       Next       Finish         Configure System Replication         Cancel            Previous       Next       Finish         Configure System Replication         Clone from System Snapshot         Clone from System Snapshot         Clone from System Snapshot         Storage Volumes         Copy Target Selection <ul> <li>Volume: ERP</li> <li>Create New Volume</li> <li>ERP_c1</li> </ul>

Explanation	Screenshots
10. Choose <i>Next</i> and proceed with the next step.	System Replication for ERP: NetWeaver ABAP 7.40, sapdbehp.example.com <ul> <li>Previous</li> <li>Next</li> <li>Finish</li> <li>Configure System Replication</li> <li>Cancel</li> </ul> <ul> <li>Previous</li> <li>Next</li> <li>Finish</li> <li>Configure System Replication</li> <li>Cancel</li> </ul> <ul> <li>Previous</li> <li>Next</li> <li>Finish</li> <li>Configure System Replication</li> <li>Cancel</li> </ul> <ul> <li>Previous</li> <li>Names</li> <li>Storage</li> <li>Volume: ERP</li> <li>Create New Volume</li> <li>ERP_c1</li> <li>Simfle</li> </ul>
<ul> <li>11. On the <i>Rename</i> screen, enter the values:</li> <li>Password for source <sid>adm: walldorf1</sid></li> <li>Password for source HANA SYSTEM user: walldorf1</li> <li>12. Choose <i>Next</i>.</li> </ul>	System Replication for ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Image: Previous Next Provision       Finish       Configure System Replication       Cancel         Image: Provision Release Configuration       Image: Release Configuration       Image: Release Configuration       Image: Release Configuration         Image: System Provisioning Release Configuration       Release Version       Image: Release Configuration         Image: Trable is empty       Source Database Credentials       Release Version       Image: Release Configuration         System Or source HANA SYSTEM user: *       Image: Release Configuration       Image: Release Configuration       Image: Release Configuration         Image: Release Configuration       Release Configuration       Image: Release Configuration       Image: Release Configuration         Image: Release Configuration       Release Configuration       Release Configuration       Image: Release Configuration         Image: Release Configuration       Release Configuration       Release Configuration       Image: Release Configuration         Image: Release Configuration       Release Configuration       Release Configuration       Image: Release Configuration         Image: Release Configuration       Release Configuration       Release Configuration       Image: Release Configuration         Image: Release Configuration       Release Configuration       Release Conf
13. On the Summary screen, choose Configure System Replication.	System Replication for ERP: NetWeaver ABAP 7.40, sapdbehp.example.com         Previous       Next         Image: Previous       <
Once you trigger the operation, you are automatically re-directed to the <i>Activities</i> screen where you can monitor the execution status of the system copy operation.	



Ex	planation	Screenshots				
6.	Choose in the line EHP System Database (ABAP):		Status	Operations		
	Secondary (Tier 2) MASTER : HANA 00, erpmstsite- b.example.com.		Running	€ Restart		
			Running	• Restart		
			Running	€ Restart		
			Running	• Restart ••••		
7.	Choose SAP HANA Processes > Near Zero Downtime		Status	Operations		
	Maintenance.		Running	v Restart		
		Running		e Restart		
		Running		Stop     Belocate (running)		
		Running		<ul><li>Stop and unprepare</li></ul>		
				Forced >		
				SAP HANA Replication >		
		🕼 Near	Zero Downtime Maintenance	SAP HANA Processes >		
		😳 Take	Over	Profile >		
		🕼 Near	Zero Downtime Takeover	I Non-Executable Operations		
8	Choose Execute					
0.	Should Excounte.	Execute Near Zero Downtime Maintenance				
		DIAGRAM				
		Contention of HANA				

Explanation	Screenshots
9. Choose <i>OK</i> .	Confirm Are you sure that you want to execute this custom process? Of Cancel
Afterwards you are redirected to the screen <i>Operations and</i> <i>Maintenance &gt; Operations</i> . 10. Choose <i>Navigate to activity</i> .	Name         Pool         Retated Entities         Visualization         Status         Operations           EHP System database (ABAP): Primary (Tier 1) MASTR (Active): HAN 00, sapdbehp example.com         Production         ERP: NetWeax prod-blade-15
Afterwards you are redirected to the screen <i>Monitoring</i> > <i>Activities</i> . The process will run until the step where the Maintenance can be done, and will wait for User input to continue. Wait until the activity is in status Waiting for user input. In your case we just go on with the next steps. 11. Select <i>Continue</i> .	Advanced Operations       Provisioning       Automation Studio       Monitoring       Configuration       Infrastructure         Advanced Operations       Provisioning       Automation Studio       Monitoring       Configuration       Infrastructure         Activities       Logs       Reports       Configuration       Infrastructure         Overview       Concelle       Hold Telenace       Configuration       Note         B22       Wating for User Input       33%       Near Zero Doartime Maintenance       Step(s) wating for user input         B22       Quartied       100%       Create System Repik ation       Step(s) wating for user input         B22       Quartied       100%       Failback for SAP HANA System Repik ation       Step(s) wating for user input
12. Choose OK.	Continue Step: Offline Maintenance of SAP HANA Offline Maintenance of SAP HANA i Perform offline maintenance tasks of your SAP HANA system. Do not start SAP HANA. Otherwise your delta replication will not work. Choose OK when you are finished. OK Cancel Close

Explanation	Screenshots
13. Wait for the activity to be Completed.	Advanced Operations       Provisioning       Automation Studie       Monitoring       Configuration       Infrastructure         Advanced Operations       Provisioning       Automation Studie       Monitoring       Configuration       Infrastructure         Advanced Operations       Provisioning       Automation Studie       Monitoring       Configuration       Infrastructure         Activities       Logs       Reports       Configuration       Infrastructure         Overview       Concell       Hoot Release Continue Retry Remove       Filtering       Export         10       Satus       Progress       Description       Note         202       Completed       100%       Create System Repic ation       Infrastructure         228       Completed       100%       Faiback for SAP HAVIA System Repic ation       Infrastructure
<ul> <li>8.3 SAP HANA Nea Primary Tier</li> <li>14. Choose Operations and Maintenance &gt; Operations.</li> </ul>	nr Zero Downtime Maintenance on
15. Choose 4 Instances in the line ERP: NetWeaver ABAP 7.40, sapdbehp.example.com.	Advanced Operations         Provisioning         Provisioning         Name         Pool         Name         Pool         Related Extres         Vous         CR0: NetWeser ABAP 7.40, sapdbehd axample.com         Development         2 Instances         BR0: NetWeser ABAP 7.40, sapdbehd axample.com         Development         2 Instances         BR0: NetWeser ABAP 7.40, sapdbehg axample.com         Development         2 Instances         BR0: NetWeser ABAP 7.40, sapdbehg axample.com         Production         BR0: NetWeser ABAP 7.40, sapdbehg axample.com         Production       Attracted         BR0: NetWeser ABAP 7.40, sapdbehg axample.com         Production       Attracted
16. Choose <sup>••••</sup> in the line EHP System Database (ABAP): Primary (Tier 1) MASTER : HANA 00, sapdbehp.example.com.	Status       Operations         Running          • Restart         •••

Explanation	Screenshots						
17. Choose SAP HANA Processes >	Viewelization Otakua	Operations					
Near Zero Maintenance on	Visualization Status	Operations					
Primary Lier.	양황 🔲 Running	Restart					
	šố 🖸 Running	<ul> <li>Relocate (running)</li> </ul>					
	錄 🔲 Running	Stop and unprepare					
	양문 🔲 Running	Forced >					
	Near Zero Downtime Maintenance on Primary Tier	SAP HANA Replication >					
		Profile >					
		i Non-Executable Operations					
18. Choose Execute.	Landscape Management	Working Set: All J2E On vhcali2e					
	Execute Near Zero Downtime Maintenance o	n Execute Cancel					
	Primary Her						
	Wait for Active						
	Replication						
	Set Kait for						
19. Choose OK.							
	Confirm						
	Are you sure that you want to execute this custom process?						
		Or Cancel					
Afterwards you are redirected to the							
screen Operations and	BHS System database (ABAP): Primary (Tier 1)         Production         Production         Violance           MASTER: HANA 00, sapdbehp.example.com         Production         prod.blade-15         \$	Not running & Navigate to activity					
Maintenance > Operations.	EHP System database (ABAP): Primary (Tier 1) MASTER (Active): HANA 00, erpmstate- b.example.com Production Production EAP NetWeaver A.	Running B Navigate to activity					
20. Choose Navigate to activity.	EMP Central Instance (ABAP): 01. Production prod-blade-15 ERP AS instance (ABAP): 10. ERP. NetWeaver A. spassfery example.com prod-blade-17	□ Running					
Afterwards you are redirected to the	SAD I and scane Management	Washing Set (Braduation (1/4) ) Courses					
screen Monitoring > Activities.		Search					
	Advanced Operations Provisioning Automation Studio Monitoring	Configuration Infrastructure					
The process will run until the step	Activities Logs Reports						
where the Maintenance can be	Cancel A Hold Release Continue Retry Remove   Fitering   Export						
	ID         Status         Progress         Description           P	Note					
	state         Waiting for User input         41%         Near Zero Downtime Maint           822         D2 completed         100%         Near Zero Downtime Maint           900         D2 completed         100%         Near Zero Downtime Maint	enance on Primary Tier X Step(s) waiting for user input enance					
	Star Lap Completed 100% Create System Replication						
Wait until the activity is in status Waiting for user input							

Explanation	Screenshots
<ul> <li>In your case we just go on with the next steps.</li> <li>21. When you finished the maintenance work select the line.</li> <li>22. Choose <i>Continue</i>.</li> </ul>	
23. Choose OK.	Continue Step: Offline Maintenance of SAP HANA Offline Maintenance of SAP HANA Ferform offline maintenance tasks of your SAP HANA system. Do not start SAP HANA. Otherwise your delta replication will not work. Choose OK when you are finished. CK Cancel Close
Wait until the activity is in status Completed.	Landscape Management     Working Set: Ab-     Search:     Sea

# 9 Automation Studio

### Scenario

In the following exercise you will learn how to create operation templates and schedule their execution. Afterwards you want to create a custom process and execute it.

- Operation templates provide the possibility to automate and schedule operations.
   For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/70/75bd286b964dc4b6a70c56f884ca4b/frameset.ht
- Custom processes provides a complete landscape view across infrastructure layers and helps you understanding the relationship between the landscape entities.
   For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/47/4f306b54ba42ef8074e89fe5e506ad/frameset.htm

### Description

- You create an operation template and schedule it.
- You create a custom process and execute it.

## Scenario Steps

Exp	planation	Screenshots
9	1 Operation Tem	plate
1.	Choose Operations and Maintenance > Operations.	<ul> <li>Overview</li> <li>Operations and Maintena</li> <li>Operations</li> <li>Advanced Operations</li> <li>Provisioning</li> </ul>
2.	If not already selected change the Working Set to <i>All</i> (for more information, see chapter '4.3 Working Set').	Working Set: All Development All Production Quality Sandbox
3.	Choose <sup></sup> in the line CRD: NetWeaver ABAP 7.40, sapdbcrd.example.com	Characteristics         Statuses         Networks         Statuses         Features         1         Hons         C           Pools         Characteristics         Statuses         Networks         Statuses         Statuses         To         Statuses         Statuses         Statuses         Statuses         Statuses         Statuses         Operations         Operations         Operations         Statuses         Operations         Ope

Explanation	Screenshc	ts			
4. Choose Stop (includii unprepare if possible,	ng ).	Status          Status         Initial         Running         Stop (including         Stop         Ru         Stop         Ru         Ru         Ru         Ru         Ru         Ru         Ru         Ru         Running	Operations Image: Operations         Image: Operations		
5. Choose •••• in the up	Der right. Execute Sto OPERATION PA EXECUTABLE E Select the ent Select the ent C RD Systa C RD Cent	Execute Stop (including unprepare if possible) OPERATION PARAMETERS EXECUTABLE ENTITIES  EXECUTABLE ENTITIES  EXECUTABLE ENTITIES  EXECUTABLE ENTITIES  CRD Selection Entities CRD System database (ABAP): Sybase, sapdocrd example com CRD Central Instance (ABAP): 01, sapcicrd example com			
6. Choose Save as Tem	DIate. Execute Sto OPERATION RAI EXECUTABLE E Select The ent Select Entit C CRD Syste C CRD Cent	D (including unprepare if possible) WWATERS EXECUTABLE ENTITIES ~  NTITIES  Res for execute the operation on  es m database (ABAP): Sybase, sapdbord example com al instance (ABAP): 01, sapckrd example com	Save as Template. Cancel		
<ul> <li>7. In the dialog box New provide the following <ul> <li>Name: Stop CI</li> </ul> </li> <li>8. Choose OK.</li> </ul>	values:	New Te			



### Explanatior

Afterwards the Operation Template is scheduled and you are redirected to the screen *Automation Studio* > *Schedule*.

13. Optional step: Wait until the scheduled time is reached and the template is executed successfully.

	_							_
eenshots								
SAP	L	andscape Management	Working Set: All	J2E On vhcalj2edb (11:27)	Related Links &	Help	TRIALadmin	(
Overview		Time Zone: GMT (UTC) Coordina	ted U 🖂 Latest Serve	er Time: 2016-10-13 11:27:24				
Dperations and Maintena Provisioning		Trial Schedule			Hold	Validate	ı	Ō
Automation Studio		11:45 Effective Oct 13, 20	016 Created By: TI	RIALadmin				
Provisioning Templates		Template: Stop CRD	2016					
Orchestrate Schedule		NOTIFICATION SETTINGS	EXECUTION HISTORY					
Monitoring		E-Mail Notification		Custom Notificati	ion			
Configuration		Off		Off				
nfrastructure								
Setup								
		EXECUTION HISTORY						
		Execution	Log Time	Message	Severity			
				No data				

## 9.2 Custom Process

1.	Choose Automation Studio > Orchestrate.		<ul> <li>Overview</li> <li>Operations at the provisioning</li> <li>Automation at Design</li> <li>Design</li> <li>Orchestrate</li> <li>Schedule</li> <li>Configuration</li> </ul>	and Maintena Studio Templates	> > > >
2.	Choose <i>Custom Process</i> in the upper middle.	Employed       Employed       Image: Strategy of the strategy of	Landscape Management + 1 [2] No filter selected 5 Search Q Stop CRD 1 Steps	V Operation Temple Stop CRD 1 Process Steps 1 Scheduled Templates DETAILS DIAGRAM Ignore Intersystem Dep Off	Warking Set. Al JZE On vhcal/2cdb (11.28) ale Custom Process Execute I By: TRIALadmin Ignore Validations Of

Explanation	Screenshots
3. Choose the ∓ sign to create a new Custom Process.	Operation Template Custom Process
<ul> <li>4. Change the following values: <ul> <li>Name: Change Profile</li> <li>Parameter</li> <li>Entity Type: Instance</li> </ul> </li> <li>5. Choose Add.</li> </ul>	Create Custom Process       Sare       Cancel         DETAILS       DIAGRAM         *Name:       Change Profile Parameter         Description:
<ul> <li>6. In the dialog box Select Constraint Type, search for the following value: <ul> <li>Search: Instance type</li> <li>(Static)</li> </ul> </li> <li>7. Choose that line.</li> </ul>	Select Constraint Type Instance type (Static) Custom instance type (Static) Instance type (Static)

Explanation	Screenshots
<ul> <li>8. Change the following values:</li> <li>Operator: =</li> <li>Value: Central Instance</li> </ul>	Create Custom Process       Exerce Cancel         DETAILS       DIAGRAM         *Name:       Change Profile Parameter         Description:
<ul> <li>9. Change the following values the Operation details: <ul> <li>Operation Group:</li> <li>Profile</li> <li>Executable Operation:</li> <li>Change Profile</li> </ul> </li> </ul>	Select Operation       Hide         OPERATION       OPERATION CONSTRAINTS         Operation Group: <ul> <li>Profile</li> <li>Executable Operation:</li> <li>Change Profile</li> <li>OPERATION CONSTRAINTS</li> </ul> <ul> <li>OPERATION CONSTRAINTS</li> </ul> <ul> <li>Operation Group:</li> <li>Profile</li> <li>Change Profile</li> <li>OPERATION CONSTRAINTS</li> </ul> <ul> <li>Operation Constraint</li> <li>Operator Value</li> <li>No data</li> </ul>
10. Make sure the operation Change Profile is selected.	DIAGRAM

Explanation	Screenshots
11. Choose the 😑 sign to create a new operation.	DIAGRAM
<ul> <li>12. Change the following values the Operation details:</li> <li>Operation Group: Normal</li> <li>Executable Operation: Stop</li> </ul>	Stop     Hide       OPERATION     OPERATION CONSTRAINTS       Operation Group:     Normal       Executable Operation:     Stop
<ul> <li>13. Choose the operation by clicking on it.</li> <li>14. Choose the e sign to create a new operation.</li> </ul>	Stop
<ul> <li>15. Change the following values the Operation details:</li> <li>Operation Group: Normal</li> <li>Executable Operation: Start</li> </ul>	Start     Hide       OPERATION CONSTRAINTS     Operation Group:       Operation Group:     Normal       Executable Operation:     Start

Explanation	Screenshots
16. Choose Save.	DETAILS DIAGRAM
17. Choose Operations and Maintenance > Operations.	<ul> <li>Overview</li> <li>Operations and Maintena</li> <li>Operations</li> <li>Advanced Operations</li> <li>Provisioning</li> </ul>
18. Choose 2 Instances in the line CRD: NetWeaver ABAP 7.40, sapdbcrd.example.com.	Instances       Hosts         Pools       Characteristics       Statuses       Networks       Storage Systems       Releases       Search       C         Name       Pool       Related Entities       Visualization       Status       Operations         BVO. NetWeaver ABAP 7 40, sapdbrid example com       Development       4 instances       \$\$\$       Running       @ Restart          CR0. NetWeaver ABAP 7 40, sapdbrid example com       Development       2.instances       \$\$\$       Running       @ Restart          ERD. NetWeaver ABAP 7 40, septicited example com       Development       2.instances       \$\$\$       Running       @ Restart
19. Choose in the line <i>CRD</i> Central Instance (ABAP): 01, sapcicrd.example.com	CR0 restance Types       Characteristics       Statuses       Networks       Strage System:       CR0. NetWeaver A Q         Name       Pool       Related Entities       Visualization       Status       Operations         CR0. System database (ABAP)       Operations       Development       CR0. NetWeaver       The approximation of t

Explanation	Screenshots
20. Choose Custom Processes > Change Profile Parameter.	Related Entities       Visualization       Status       Operations         CRD: NetWeaver ABAP develop-vm-20
21. Choose Change Profile.	Execute Change Profile Parameter save as Template
<ul> <li>22. Change the following values the Operation details:</li> <li>Profile Parameter Name (String): rdisp/wp_no_btc</li> <li>Profile Parameter Value (String): 15</li> <li>Note</li> <li>This chosen profile parameter is just an example. You can use any String.</li> </ul>	Hide         OPERATION PARAMETERS       EXECUTABLE ENTITIES          *Profile Parameter Name (String):       rdisp/wp_no_btc         *Profile Parameter Value (String):       15         15       EXECUTABLE ENTITIES         Name       CRD Central Instance (ABAP): 01, sapcicrd.example.com
Explanation	Screenshots
--	--
23. Choose <i>Execute</i> .	Execute Change Profile Parameter Save as Template
24. Choose OK.	Confirm Are you sure that you want to execute this custom process? OK Cancel
<ul> <li>The custom operation is executed.</li> <li>25. Optional step: Choose Navigate to activity.</li> </ul>	G3 Systems       Itestances       Hosts         Pools       Instance Types       Characteristics       Statuses       Networks       CRD. NetWeaver A. ② Q. C. T.         Name       Pool       Related Entities       Visualization       Status       Operations         CRD. System database (ABAP)       Development       CRD. NetWea.       Running       @ Restart          CRD. Certral Instance (ABAP)       Development       CRD. NetWea.       Running       @ Naxdate_to activity         CRD. Certral Instance (ABAP)       Development       CRD. NetWea.       Running       @ Naxdate_to activity

### **10** Authorization

#### Scenario

In an organization several different groups need special authorizations to do their work. In this SAP Landscape Management system, the Advanced Authorization has been configured to give these groups the authorization that they require for their work.

There are several multiple users configured with different permissions to experience the mentioned differences:

- Logon ID: TRIALadmin
  - The initial password for this user is **Trial2016** (unless it was changed).
  - NetWeaver Group: LVM\_SUPERADMIN
  - Permission to display and operate systems of all pools and change nearly everything
  - Views: no restrictions
- Logon ID: TRIALoperator
  - The initial password for this user is Trial2016 (unless it was changed).
  - NetWeaver Group: LVM\_OPERATOR
  - Permission to display and operate systems of pools Quality and Development
  - Views: Overview, Operations, Monitoring
- Logon ID: TRIALreadonly
  - The initial password for this user is **Trial2016** (unless it was changed).
  - NetWeaver Group: LVM\_READONLY
  - Permission to display systems of all pools
  - Views: Overview, Monitoring is visible
- Logon ID: Administrator
  - The initial password for this user is <Password entered during creation of this instance>
  - NetWeaver Group: Administrator
  - Permission of Administrator
  - Views: no restrictions

Herewith you can experience differences.

• For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/86/0c738e7a5e4e90b68700f1af37e951/frameset.htm

#### Description

- Login with the users
  - TRIALadmin
  - TRIALoperator
  - TRIALreadonly

to experience the mentioned differences.

### 11 Extensibility

#### Scenario

You extend the existing SAP Landscape Management operations and functionality to manage your own on SAP system landscape.

By using the features described in this section, you will verify how simple it is to create Custom Navigation Pane Entries and custom links.

- Custom Navigation Pane Entries (Custom Tabs) help you view external applications or files within SAP Landscape Management.
   For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/36/c226476db84f8495947c13b57f8382/frameset.htm
- Custom Links help you invoke/launch external applications or custom URLs from SAP Landscape Management.
   For more information, see SAP Help Portal at: http://help.sap.com/static/saphelp\_lamaent30/en/4e/03ea877b3721e8e1000000a42189e/frameset.ht m

#### Description

- You create Custom Navigation Pane Entries (Custom Tabs).
- You create custom links.

### Scenario Steps

Explanation	Screenshots
11.1 Custom Naviga	tion Pane Entries (Custom Tabs)
<ul> <li>For the following steps please ensure that you are logged in as user TRIALadmin.</li> <li>1. Choose Automation Studio &gt; Design.</li> </ul>	<ul> <li>Overview</li> <li>Operations and Maintena</li> <li>Operations and Maintena</li> <li>Provisioning</li> <li>Automation Studio</li> <li>Design</li> <li>Provisioning Templates</li> <li>Orchestrate</li> <li>Schedule</li> <li>Monitoring</li> </ul>
For the following steps please ensure that you are logged in as user <b>TRIALadmin</b> . 2. Choose <i>Custom Tabs</i> .	Landscape Management       Working Set       Alb       Search:         Advanced Operations       Provisioning       Automation Studio       Monitoring       Configuration       Infrastructure         Design       Provisioning Templates       Custom Operations, Hooks, and Notifications       Custom Provisioning Processes       Custom Links       Custom Properties         Export       Import
3. Choose Add. I Note In case the Add is not selectable, please ensure that you are logged in as TRIALadmin.	Design         Provisioning Templates           Custom Operations, Hooks, and Notifications         Custom Provisioning Processes         Custom Tabs           Agrin, Remove         Export         Import           FC         Name         URL         Description           Target Screen         Target Screen

Explanation	Screenshots
You see the screen Custom Tab	
Details.	Custom Tab Details
4. Provide the following values:	Save Cancel
<ul> <li>Name: SAP Help</li> <li>URL: https://help.sap.com/</li> <li>Description: SAP Help Portal Pages</li> <li>Target Screen: Overview</li> </ul>	Name: *     SAP Help       URL: *     https://help.sap.com/       Description:     SAP Help Portal Pages       Target Screen: *     Overview       Enable Custom Tab:     ✓
<ul> <li>Enable Custom Tab: Checked</li> <li>Note</li> <li>The Enable Custom Tab checkbox is selected by default. If the checkbox is deselected, the custom tab is not visible in the specified target screen.</li> </ul>	
5. Choose Save. Note You can create Custom tabs for any URL, which may be relevant for the daily work.	Custom Tab Details         Save       Cancel         Name: *       SAP Help         URL: *       https://help.sap.com/         Description:       SAP Help Portal Pages         Target Screen: *       Overview         Enable Custom Tab:
You see the newly created custom tab in the table. I Note The Externally Provided flag indicates that this custom tab is provided by a storage or virtualization manager and not created by the user. You cannot edit or remove externally provided custom tabs.	Design         Provisioning Templates           Custom Operations, Hooks, and Notifications         Custom Provisioning Processes         Custom Links         Custom Tabs         Custom Properties           Add         Remove         Export         Import           Tome         URL         Description         Target Screen           SAP Help         https://help.sap.com/         SAP Help Portal Pages         Overview



Explanation	Screenshots
2. Choose Add.	Landscape Management       Working Set:       All>       Search:         Advanced Operations       Provisioning       Automation Studio       Monitoring       Config         Design       Provisioning Templates       Custom Operations, Hooks, and Notifications       Custom Provisioning Processes       Custom Links       Custom         Image: Custom Operations, Hooks, and Notifications       Custom Provisioning Processes       Custom Links       Custom         Image: Custom Operations, Hooks, and Notifications       Custom Provisioning Processes       Custom Links       Custom         Image: Custom Operations, Hooks, and Notifications       Custom Provisioning Processes       Custom Links       Custom         Image: Complex Copy       Export Import       Image: Custom Provisioning Processes       Custom Links       Custom         Remote Desktop       Host       //vm/rdp?host= <hostphys>       Remote Desktop       Instance       //vm/rdp?host=<hostcom></hostcom></hostphys>
<ul> <li>3. You see the screen Custom Link Details.</li> <li>Provide the following values: <ul> <li>Name: NetWeaver</li> <li>startPage</li> <li>Entity Type: Instance</li> <li>URL: /startPage</li> </ul> </li> <li>4. Choose Save. <ul> <li>Note</li> <li>You can create custom links for any URL, which may be relevant for the daily work.</li> <li>This URL can contain a set of placeholders which are replaced by the appropriate value of the selected instance or host. Lists of placeholders is available when selecting the i icon. It is possible to add constraints which define when and for which instances or hosts this link can be opened.</li> </ul> </li> </ul>	Custom Link Details         Save         Cancel         Name: *       Netweaver startPage         Entity Type: *       Instance         URL: *       /startPage

Explanation		Screenshots					
Now you see th custom link in t	ie newly created he overview table.	Custom Operations, Hooks, a Add Remove Copy ( The Name Remote Desktop SAP Logon NWA PCA Run Time SAP MC Message Server Diagnostic Agent SAP MC HANA Cockpit PCA Design Time NetWeaver startPage	and Notifications Cur Export Import Entity Type Instance Instance Instance Instance Instance Instance Instance Instance Instance Instance Instance Instance Instance	stom Provisioning Processes URL INTV/dp?host= <hostcom> Nvm/SAPGui?saprouter=&lt;1 http://~hostCom&gt;:5<instan <instanceagenturl="" nvm="" sapgui?saprouter="&lt;1"> http://~hostCom&gt;:5<instan http:="" ~hostcom="">:5<instan nvm="" sapgui?saprouter="&lt;1" saprouter="&lt;1" startpage<="" th="" ttp:=""><th>Custom Links</th><th>Custom Tabs</th><th><pre>custom F </pre> <instanceno <="" pre="">  &lt;= smd_sid: </instanceno></th></instan></instan></instan></hostcom>	Custom Links	Custom Tabs	<pre>custom F </pre> <instanceno <="" pre="">  &lt;= smd_sid: </instanceno>
<ol> <li>Navigate to Operations</li> <li>Select the system CR Development</li> </ol>	a Advanced $\Rightarrow$ Systems. central instance for D under the ent pool.	System Landscape Fid: (CRD*	Overview of systems           Grouping & Filtering           Group By:         Pool & Syt           Name         *           * @ CRD: NetW           • @ CRD Syt           • @ CRD Cet	and Instances           Image: Expert instances           istem (Default) image: Expert instance (Selecton)           reaver ABAP 7.40, sapdbcrd examples           reaver ABAP 7.40, sapdbcrd examples           istem database (ABAP): Sybase, santral instance (ABAP): 01, sapck reaver	ple.com (2) plet.com (2) decomple.com	System CRD: sapdbcrd.exc CRD: sapdbcrd.exc	i Go (C s ample.com (C ample.com (C)
On the same so a tab <i>Instance I</i> 7. Choose Cu 8. From the c select the custom lin <i>startPage</i> .	creen below, you see Details. Istom Links. Iropdown menu, newly created k called NetWeaver		SAP Log PCA Ru SAP MC Messag PCA De NetWea	Custom Links gon In Time Server Isign Time aver startPage	Show In		

#### Explanatior

The start page of Net Weaver opens in a new window.

#### 1 Note

Perhaps you need to check the PopUp-Blocker settings in your browser to enable this page to be displayed.



SAP

# SAP NetWeaver Application Server Java

 $\ensuremath{\text{SAP Library}}\xspace$  SAP Library contains the complete documentation for SAP NetWeaver Apt

SAP NetWeaver Administrator A powerful administration, configuration and monitoring tool, which bundle

System Information System information provides administrators with an overview of the system

Web Services Navigator Web Services Navigator is a tool that gives you a short overview of a speci

User Management The user management administration console provides administrators with

Web Dynpro Web Dynpro is a User Interface technology available within the SAP NetW

SAP Management Console The SAP Management Console (applet version) offers administrative syste

Services Registry The Services Registry is a UDDI based registry that contains definitions of

Information about Product Instances This page lists the product instances on this server (requires administrator

Application Server Java Troubleshooting Guide The Troubleshooting Guide provides interactive step-by-step solutions to u

EJB Explorer This tool allows testing, exploring and execution of the business compone

## **12** Characteristics for Landscape Entities

#### Scenario

The characteristics in SAP Landscape Management allow you to define attributes for the entities in your landscape according to the needs of your company. Based on characteristics it is possible to group instances and hosts accordingly and make the mass operations easier to handle.

You can also assign different colors to each characteristic to improve the visualization in your landscape.

For more information, see SAP Help Portal at:

http://help.sap.com/static/saphelp\_lamaent30/en/4e/04577f545200aae10000000a42189e/frameset.htm

#### Description

• You create customizable characteristics.

### Scenario Steps

Exp	olanation	Screenshot				
12	2.1 Characteristics					
For	the following steps please	SAP Landscape	Management		Work	ing Set: <all></all>
use	er <b>TRIALadmin</b> .			-6		
1.	Navigate to Configuration $\rightarrow$	Advanced Operations Pools System	Provisioning Automation Stud	fio Monitoring Relations	Configuration	Infrastruct
	Characteristics	Characteristics Overview	v			
		Edit Export Impor	t			
		Add Remove				
		Name	Description	Show as Column	Cardinality	Hosts
		Business Area	Business area		Single	
		Datacenter	Datacenter Location		Single	✓
		Entity Usage	Entity usage		Multiple	<b>V</b>
		Service Group	Service Group		Single	
	table choose <i>Edit</i> .	Advanced Operations Pools System Characteristic Operations	Provisioning Automation Stur Hosts Characteristics	lio Monitoring Relations	Configuration	Infrastruct
		Edit Export Impor	v t			
		Add				
		The Name	Description	Show as Column	Cardinality	Hosts
		F				
		Business Area	Business area		Single	
		Entity Usage	Entity usage		Multiple	<ul> <li>✓</li> </ul>
		Service Group	Service Group		Single	
3.	In the Characteristics Overview table choose <i>Add</i> .	Characteristics Ove Save Cancel Certain attributes of cha Add Remove Business Area Datacenter Entty Usage Service Group	rview Export   import rracteristics can only be changed if no Description Business area Datacenter Location Entity usage Service Group	instances or hosts are ass Show as Column	igned. Cardinality Single Single Single Single	Hosts

4. F	Provide the following values:									
	Name: Color	Characteristics Save Cancel	Overview Export Import							
		Certain attributes o	f characteristics can only b	e changed if no insta	ances or hosts	s are as	igned.			
0	Description: Color coding	Remove Name	Description	Show as Column	Cardinality	Hosts	Systems	Instances	Virtual Hosts	Virtual Host Providers
	for pool type	Business Area	Business area		Single			√		
5. S	Select the following check	Entity Usage	Entity usage		Multiple	V			V	
b	ooxes:	Service Group	Service Group		Single			<b>V</b>		
	Chaw as Caluman	COR	color couling for poortype		Single		- dm			
	5 Show as Column									
0	• Hosts									
0	o Systems									
	1 Note									
	Cardinality:									
	Single <sup>,</sup> assign entities to a									
	single characteristic value									
	Multiple: assign entities to									
	multiple characteristic									
	values of the characteristic.									
	choose Multiple									
6. C	choose Save.									
Now	you will see the new entry in the									
Chara	acteristic Overview table.	Characterist	tics Overview							
		Add Remo	Desc	ription				Show as i	Column	Cardinality
7. C	Choose the new entry line.	Business	Area Busir	iess area					oolaliin	Single
		Color	Color	coding for pool t	type			<b>v</b>		Single
		Datacente	r Data	center Location			_			Single
		Service G	roup Serv	ice Group			_			Single
8. C	Choose Edit.									
		Poo	is Systems	Hosts	Chara	icteri	stics	*SMP*		
		Character	istics Overview							
		Edit	xport Import							
		Add Re	move							
		Name		Description					Show as	Column
		Busines	s Area	Business area						
		Color		Color coding fo	or pool type	е			V	
		Datacer	iter	Datacenter Loo	cation					
		Service	Group	Service Group						
				2 Stries Group						

9. To enter new values, choose Add in the table below Characteristic Values of Characteristic.	Characteristic Values	s of Characteristic	Cell Color
10. Provide the following values for Development, Production and	Characteristic Values	s of Characteristic	
Quality pools as shown in the	Add Remove		
picture.	The Name Dec	oriation	Call Calar
		cription	Cell Color
• Name	DEV Deve	lopment Pool	reliow 🔻
Description	PRD Produ	uction Pool (	Green 💌
Cell Color	QAS Quali	ty Pool (	Orange 🔻
	SND Sand	Ibox Pool F	Purple 💌
	Rows: 4 total, 1 selected	Selected: DEV	N
			2
	Characteristics Overview Save Cancel Export Import Certain Inbutes of characteristics can Add Remove  Name Descriptia Business Area Business Color Color color Datacenter Datacente Entity Usage Entity usa Service Group Service G	only be changed if no instances or hosts are assi on Show as ( area	igned. Column Cardinality Single Single Single Multiple Single
12. Select the newly created			
characteristic DEV.	Characteristic Values	s of Characteristic	
13. To assign systems from the	Add Remove		
respective pools, choose Assign.	To Name Des	cription	Cell Color
	DEV Dev	elopment Pool	Yellow
	PRD Prod	Juction Pool	Green
	QAS Qua	lity Pool	Orange
	SND San	dbox Pool	Purple
	Rows: 4 total, 1 selected	Selected: DEV	1
	Assigned Flemente	of Characteristic Value	
	Assigned Liements (		
	Assign Unassign	Change Assignment	F-1 1
	All assign_jents are perfo	ormed implicitly and immediately; no	o explicit save is required
	- Jane -		

<ul> <li>14. In the new dialog box, select all the systems in the <i>Development</i> pool (i.e. BWD, CRD and ERD) manually or via setting an appropriate filter for this pool.</li> <li>15. Navigate to <i>Hosts</i> tab.</li> </ul>	Assignment Selection  Systems Hosts  By BVD BVD. NetWeaver ABAP 7.40, sapdbthd example com ERD CRD AND AND AND AND AND AND AND AND AND AN	Color     Managed     AC-Enabled     V Pool       0     0     0     0       V     V     V     0       V     V     0     0       V     V     0     0       V     V     0     0       V     V     0     0       V     V     0     0       V     V     0     0	Description     X     Description     X     Description     X     SAP ENV on HANA (Copy of System BNO()     SAP ERP on HANA (Copy of System ERO)     BAS ERP on HANA (Copy of System ERO)     Description     Cancel
16. Select all the hosts in the Development pool (i.e. filter in column Pool for Development and choose Select all).	Assignment Selection           System         Mosts           Th         Hosts           Th         Hosts           Select All         V           Copy Selector         V           Copy Selector         V           Gevelop-rm33         V           develop-rm36         V           develop-rm36         V           develop-rm36         V           develop-rm37         V           develop-rm38         V           develop-rm36         V           develop-rm36         V           develop-rm36         V           develop-rm36         V           develop-rm36         V           develop-rm36         V           develop-rm30         V           develop-rm30         V           develop-rm30         V           develop-rm30         V           develop-rm30         V           Row: 80 total. 20 mom, 0 selected	solation-Ready ACM-Managed SF Pool Dev <sup>e</sup> 9 DevelopmentPool 9 DevelopmentPool 9 DevelopmentPool 9 DevelopmentPool 9 DevelopmentPool 9 DevelopmentPool 9 DevelopmentPool 9 DevelopmentPool 9 DevelopmentPool 9 DevelopmentPool	Network(s)         OS         OS Version         CPU Type           Corporatelletwork         Linux         SLES 11         X86, 54           Corporatelletwork         Linux         SLES 11         X86, 54
17. Choose Assign.	Assignment Selection Systems Color Manage AC-Enables Operational develop-ym01 C develop-ym02 C C C C C C C C C C C C C C C C C C C	solation-Ready ACM-Managed ¥Pool Dev* ✓ OevelopmentPool ✓ DevelopmentPool ✓ DevelopmentPool ✓ DevelopmentPool ✓ DevelopmentPool ✓ DevelopmentPool ✓ DevelopmentPool ✓ DevelopmentPool ✓ DevelopmentPool ✓ DevelopmentPool	Network(s) OS OS Version CPU Type (*) Corporatelletwork Linux SLE511 X36,64 Corporatelletwork Linux SLE511 X36,54 Corporatelletwork Linux SLE511 X36,54
<ul> <li>Now you see the assigned systems for the characteristic value "DEV" in the table below called "Assigned Elements of Characteristic Value".</li> <li>18. Repeat steps (12) - (17) for the other two characteristic values "PRD" and "QAS" and "SND" accordingly.</li> </ul>	Assigned Elements of Characteristic Value           Assign         Unassign           All assignments are performed implicitly and immediately; no exp           System           RVD. NetWeaver ABAP 7.40, sapdbeld example com           CRD. HetWeaver ABAP 7.40, sapdbeld example com           ERD. NetWeaver ABAP 7.40, sapdbeld example com	lict save is required	Toto         Host           develop-rm-01         develop-rm-02           develop-rm-02         develop-rm-02           develop-rm-02         develop-rm-02           develop-rm-02         develop-rm-02



### **13** Personalize User Interface

#### Scenario

Personalization helps you adjusting basic settings in the SAP Landscape Management user interface according to your preferences.

For more information, see SAP Help Portal at:

http://help.sap.com/static/saphelp\_lamaent30/en/7c/66fc0614d74c3b9383d69e6e251f9d/frameset.htm http://help.sap.com/static/saphelp\_lamaent30/en/b5/03e8c76b85400991466099df84739d/frameset.htm

#### Description

• You personalize the user interface.

### Scenario Steps

Explanation	Screenshot
13.1 Personalize - G	eneral Settings
<ul> <li>Continue on the screen where you ended chapter 12.1 Characteristics.</li> <li>1. In the Main menu in the topright corner of the screen, choose <i>Trial Administrator</i> → <i>Personalize</i>.</li> </ul>	Related Links & Help Trial Administrator Personalize Log Off
<ul> <li>In the appearing dialog box you see several possible settings.</li> <li>2. Select on the <i>General Settings</i> tab</li> <li>3. Change the <i>Application Color Marker</i> to another color (eg. Blue).</li> <li>4. Change the <i>Application Title Prefix/Suffix</i> (eg. MyTrial Example).</li> <li>5. To save your settings, choose <i>Save</i>.</li> </ul>	Personalize         General Settings       Page Management         User Interface Settings       Search Options         V Enable Persistence for UI Preferences       Number of Tabs (1-10):         Ø Display Online Help Vertically [on the right side]       Number of Results (>=20):         Hide Navigation Icons       Application Title PrefuxSuffix:         Application Color Marker:       Green         Regional Settings       Online Help Language:         Online Help Language:       English         Time Format:       24 hour         To make sure that all UL-related changes are visible, refresh your browser or log off and log on again
The Main screen is updated based on your values.	Landscape Management - MyTrial Example         Diagonal Control of Contro of Control of Control of Control of Control o

13.2 Personalize - Pa	age Management
<ul> <li>Continue on the screen where you ended chapter 13.1 Personalize - General Settings.</li> <li>In the Main menu in the topright corner of the screen, choose <i>Trial Administrator</i> → <i>Personalize</i>.</li> </ul>	Related Links & Help Trial Administrator Personalize Log Off
2. Navigate to <i>Page Management</i> tab.	Personalize         General Settings       Page Management         User Interface Settings       Search Options         I Enable Persistence for UI Preferences       Number of Tabs (1-10):         I Bible Persistence for UI Preferences       Number of Results (>= 20):         I Bible Persistence for UI Preferences       Number of Results (>= 20):         I Bible Persistence for UI Preferences       Number of Results (>= 20):         I Bible Persistence for UI Preferences       Number of Results (>= 20):         Application Color Marker:       Blue         Regional Settings       Online Help Language:         Online Help Language:       English          Time Format:       24 hour          To make sure that all UI-related changes are visible, refresh your browser or log off and log on again         Save       Cancel         Reset Current Screen       Reset All
3. Expand the node for the <i>Operations</i> entry.	Personalize
4. Select Systems.	General Settings Page Management Working Set
5. Select the radio button Startup	i   🍋
Screen for the Systems entry	Page Show Tab Startup Screen
	Overview     O     Deshbased
	Visualization
	SAP HANA DCC
	▼ Operations
	Systems
	• Hosts
	Advanced Operations     O     Derivisioning
	Y     O       Y     O
	To make sure that all UI-related changes are visible, refresh your browser or log off and log on again
	Save) Cancel) Reset Current Screen ) Reset All

r

o. Sele	ct Automation Studio.	Personalize			
7. Des	elect the checkbox Show	General Settings Page Man	agement Working Set		
Tab					
Tab		Daga		Show Tab	Startus Saraan
8. Tos	ave vour settings, choose	Tage Verview		Show Tab	Startup Screen
C	-	Desthoard		V	0
Sav	2.	Visualization		¥	0
		SAP HANA DCC		¥	0
		▼ Operations		<b>I</b>	0
		Systems			
		Hosts		✓	0
		Advanced Operations		 ✓	0
		Provisioning		 ✓	0
		Automation Studio			•
				8	
effe 'ou will Inder Oj startup s	notice that the Systems tab berations is now your screen and the Automation	Causton Operations, Hooks, and Notifications Expert Import Provider Implementation Definitions Cald Remove Copy To Name Restart HostApert	Custom Provisioning Processes   Custom Links   C	ustom Tabe   Custom Properties	perations and Hooks Type Script registered with ho
ab from					
tab from disappea <b>13.3</b>	Personalize - W	orking Set			

Personalize.

<ul> <li>2. Navigate to Working Set tab.</li> <li>You can now modify the existing working set or create a new one.</li> <li>i Note</li> <li>Only the pool(s) available for the user logged on are displayed.</li> </ul>	Personalize         General Settings       Page Management       Working Set         User Interface Settings       Search Options            Enable Persistence for UI Preferences       Number of Tabs (1-10): 5            Display Online Help Vertically (on the right side)       Number of Results (>=20): 50            Hide Navigation Icolor Marker:       Blue            Application Title Prefix/Suffix:       MyTrial Example            Regional Settings        Online Help Language:            Time Format:       24 hour            1 To make sure that all UI-related changes are visible, refresh your browser or log off and log on again
3. To create a new working set,	Save Cancel Reset Current Screen Reset All
choose New.	Personalize  General Settings Page Management Working Set  Working Set: Production  Available Pools  Available Pools  ProductionPool  QualityPool  SandboxPool  Add  Remove Rows: 3 total, 3 shown, 1 selected  To make sure that all UI-related changes are visible, refresh your browser or log off and log on again  Save Cancel Reset Current Screen Reset All
<ol> <li>Enter a name for the new working set.</li> <li>Choose a Color Assignment.</li> <li>Choose <i>OK</i>.</li> </ol>	New Working Set Name: My Example Working Set Color Assignment: Purple  OK Cancel

7.	Select one or more lines in the Available Pools table	Personalize	
8.	Choose Add.	General Settings Page Management Working Set	
		Working Set: My Example Working Set  New Edit Settings Delete	
		Δvailable Pools:	Selected
		The Available Pools	Selected
		R	76
		Development	
		Production	
		Quality Chy	
		Sandbox Add	
		Remove	
		Rows: 4 total, 4 shown, 1 selected	Rows: 0 to
		i To make sure that all UI-related changes are visible, refresh your browser or log off and	log on ag
			S
			PUTATING
-			
9.	To save your settings, choose	Personalize	
	Save.	General Settings Page Management Working Set	
		Working Set: My Example Working Set View Edit Settings Delete	
		Available Pools: Selected Pools:	
		Image: Weight of the second secon	
		Development Production Quality	
		A00 ⊵[h]	
		Hows: 2 total, 2 shown, 1 selected Hows: 2 total, 2 shown, 1 selected	
		i To make sure that all UI-related changes are visible, refresh your browser or log off and log on again	
		Save Cancel Reset Current Screen Res	set All

### 13.4 Reset Personalization [optional]



### 14 Feedback

Questions, problems and feedback can be sent via a customer message on component BC-VCM-VAP

In addition there is the Troubleshooting Guide: https://wiki.scn.sap.com/wiki/display/TechTSG/%28LVM%29+SAP+Landscape+Management

#### www.sap.com/contactsap

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