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

CUSTOMER

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>`	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

Table of Contents

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
    - SAP Landscape Management 3.0 SP1 based on SAP NetWeaver Java 7.50 SP4
  - Managed systems by SAP Landscape Management
    - SAP ERP systems on HANA single-node with SAP SIDs `ERP`, `ERQ`, and `ERD`
    - SAP CRM systems on Sybase ASE with SAP SIDs `CRP`, `CRQ`, and `CRD`
    - 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.
    - An empty pool called *Sandbox* with no SAP systems in the initial setting
    - Bare-Metal Server Hardware grouped in the pool *Production*
    - Virtual Management Software** (Virtual Managers)
    - Virtual Machines (host) grouped in the pools *Quality*, *Development* and *Sandbox*
    - 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
    - Permission to display and operate systems of all pools and change nearly everything
    - Top level pages: all
  - 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, Development and Sandbox
    - 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
    - Permission to display systems of all pools
    - Top level pages: Overview, Monitoring
  - Logon ID: *Administrator*
    - The initial password for this user is **`<Password entered during creation of this instance>`**
    - NetWeaver Group: Administrator
    - 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):
  - Microsoft Internet Explorer
    - Internet Explorer 10 Desktop
    - Internet Explorer 11 Desktop
  - Firefox
    - Firefox Extended Support Release Cycle
    - Firefox Rapid Release Cycle
  - Apple Safari
    - Safari 7
    - Safari 8
    - Safari on MACOS
  - Google Chrome
    - Chrome Release Cycle

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

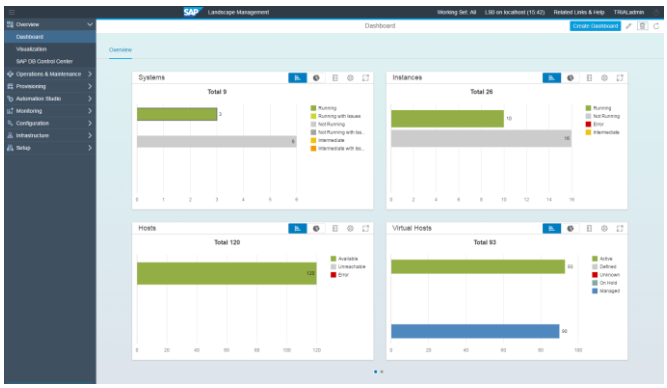
You want to get an overview about the current system landscape and its status. Therefore you logon to your SAP Landscape Management system and check the standard dashboards to get a first impression about the status of your system landscape. Afterwards you learn how to create customizable dashboards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

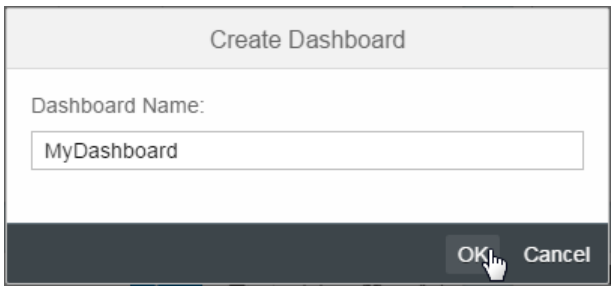
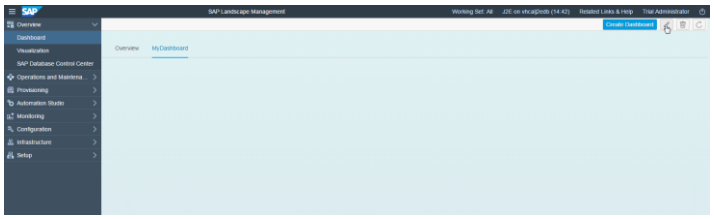
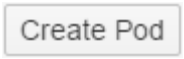
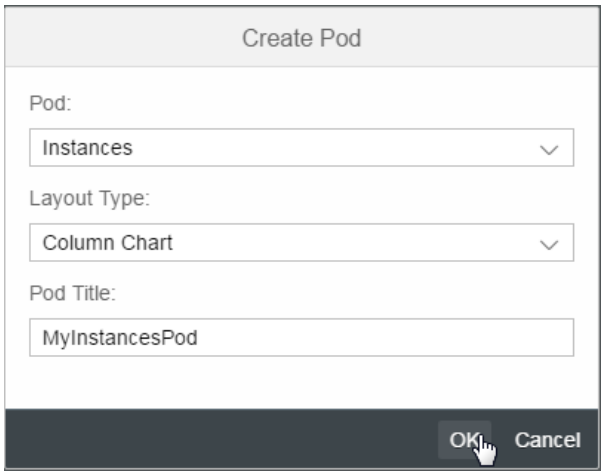
- Dashboards provide a real-time overview of the current landscape state, show running operations, and display diagnostic messages.
  For more information, see SAP Help Portal at:
  http://help.sap.com/static/saphelp_lamaent30/en/0c/584cebfb2043cfb3a35095207d6750/frameset.htm
- Landscape Visualization 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

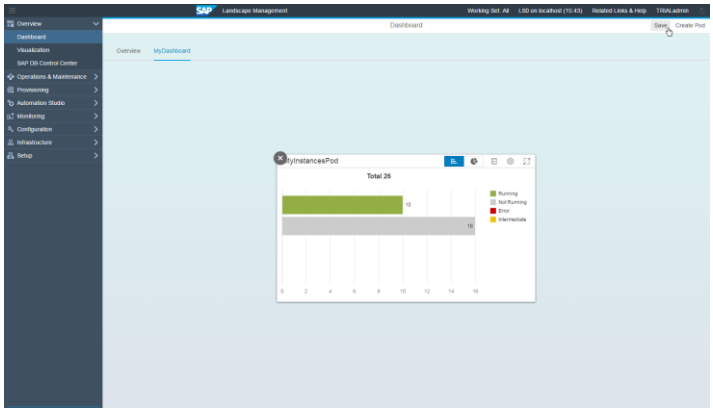
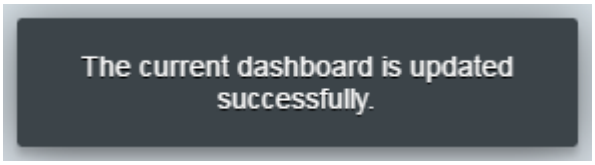
Description

- 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.

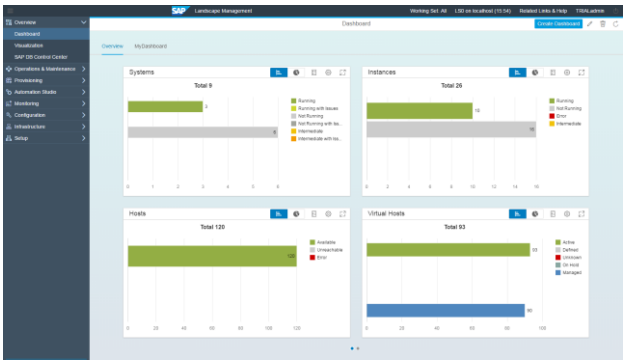
Scenario Steps

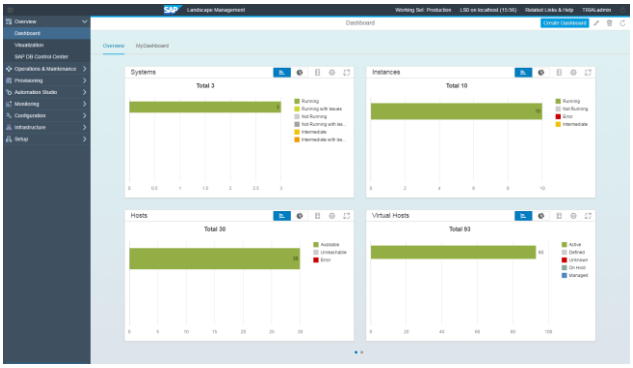
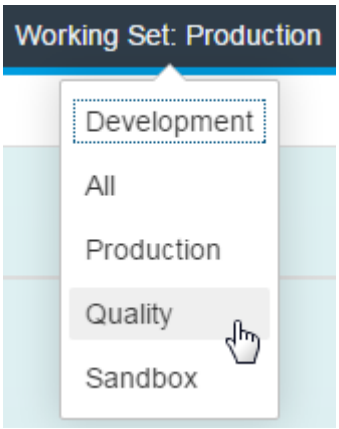
Explanation	Screenshots
4.1 Logon	
1. Open a browser and connect to http://<IPaddressOfYourInstance>:50000/lama 2. Enter logon credentials: User: **TRIALadmin** Password: **Trial2016** 3. Choose *Log On*.	
4.2 Dashboards	
After logon you are redirected to the standard startup screen *Overview* → *Dashboard*. **Note** Numbers and the status of systems in all screenshots can differ. The startup screen can be personalized, what is explained in chapter 13 'Personalize User Interface'	
1. To create a new dashboard, choose *Create Dashboard* in the upper right of the window.	

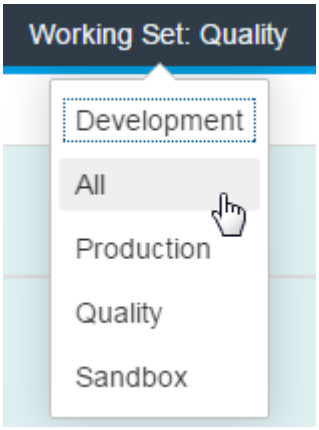
Explanation	Screenshots
2. In the dialog box *Create Dashboard*, provide the following values: ○ Dashboard Name: **MyDashboard** 3. Choose *OK*.	
You can now start adding pods to the newly created dashboard. 4. Choose the *pencil icon* for editing the Dashboard in the upper right.	
5. To create a new pod, choose *Create Pod* in the upper right.	
6. In the dialog box *Create Pod*, provide the following values: ○ Pod: **Instances** ○ Layout Type: **Column Chart** ○ Pod Title: **MyInstancesPod** 7. Choose *OK*.	

Explanation	Screenshots
8. To save the new pod, choose *Save* in the upper right.	
Now you see the information that the dashboard was saved.	

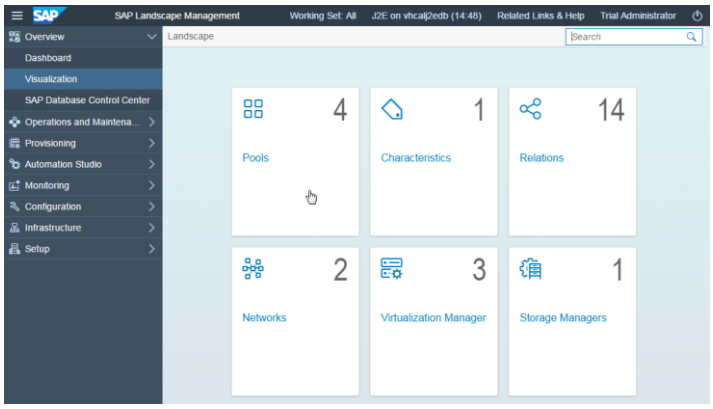
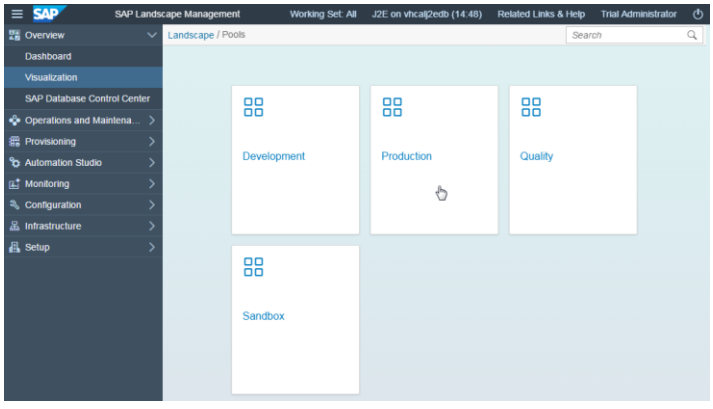
4.3 Working Set

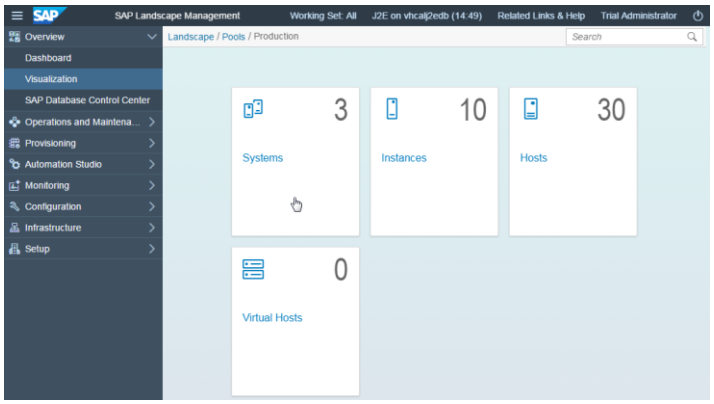
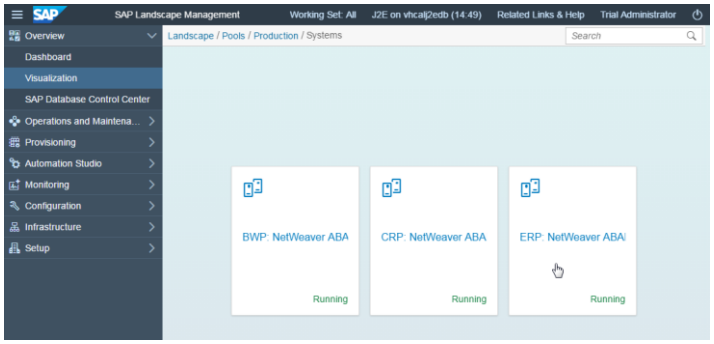
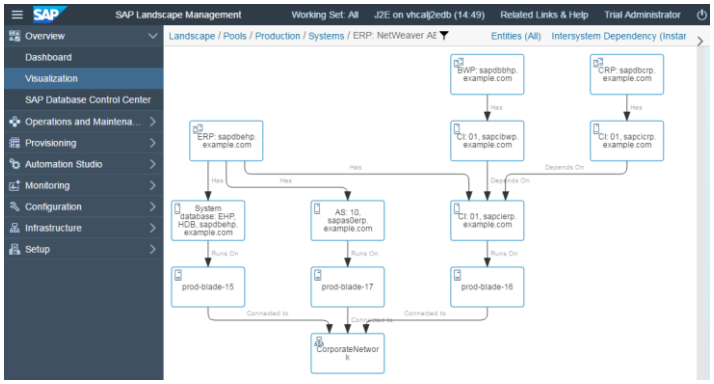
The Working Set is a possibility to personalize the personal view dependent on the needs. 1. Navigate to *Overview* → *Dashboard* and select the *Overview* dashboard	

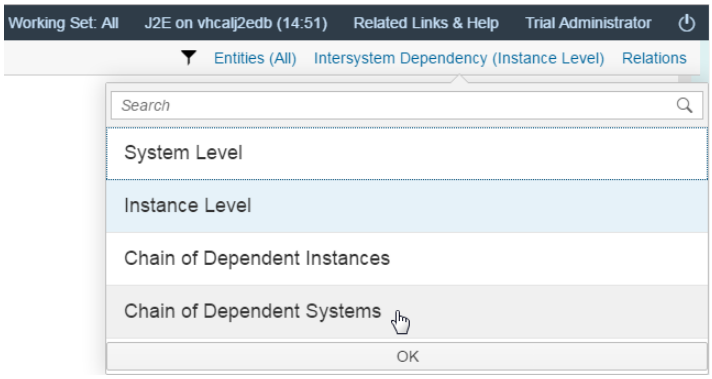
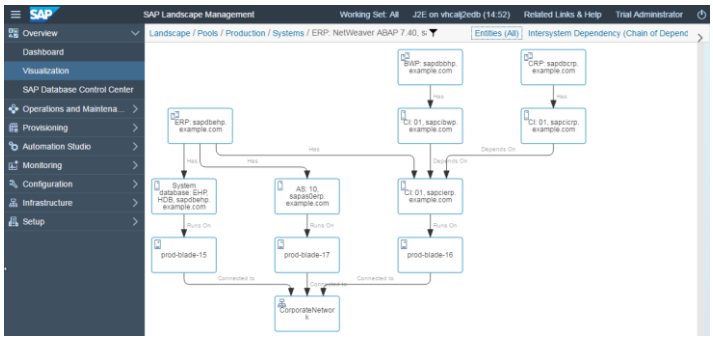
Explanation	Screenshots
2. In the upper right corner select from the *Working Set* dropdown list: *Production*	
Now you see that the view shows only the systems in the *Production* pool. **Note** In chapter '13.3 Personalize ' you will configure the Working Sets.	
3. Optional step: Choose another *Working Set* from the dropdown list.	

Explanation	Screenshots
4. When you are done, please choose the *Working Set* named *All* the dropdown list.	

4.4 Visualization

1. Navigate to *Overview* > *Visualization*. 2. Select *Pools*.	
3. Move your mouse pointer over the *Production* tile. A hover menu displays a summary of the details. 4. Click on the *Production* pool tile to display the details. **Note** If not all four tiles are displayed, please ensure that the Working Set was set to All (for more	

Explanation	Screenshots
information, see chapter '4.3 Working Set').	
5. Move your mouse pointer over the *Systems* tile. A hover menu displays a summary of the details. 6. Click on the *Systems* tile to display the details.	
Now you see all the systems that belong to the *Production* pool (i.e. systems `ERP`, `BWP` and `CRP`). 7. Move your mouse pointer over the system *ERP* tile. A hover menu displays a summary of the details. 8. Click on the *ERP* tile to display the details.	
Now you see a graphical representation of the CRP, BWP and ERP systems in a hierarchal view. It displays all the associated instances and its relationship with other entities in the landscape. **Note** You can use zoom in/out using the wheel of your mouse.	

Explanation	Screenshots
9. Select *Intersystem Dependency (Instance Level)*. 10. Select *Chain of Dependent Systems*.	
Now you see a graphical representation that `BWP` and `CRP` dependent on the system `ERP`.	

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.

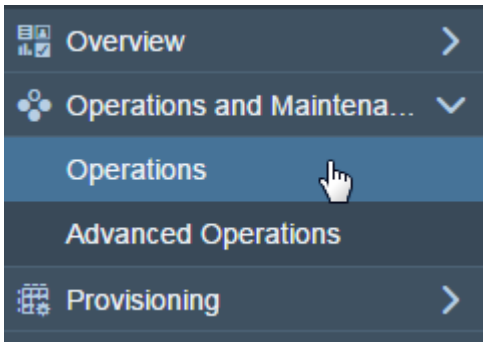
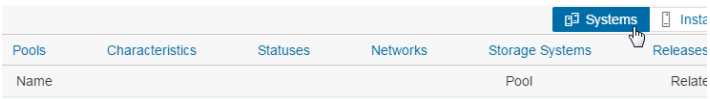
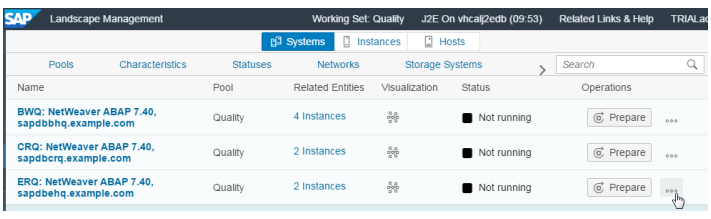
Operations help you to perform start, stop, and relocate operations on specific systems. You can also perform mass-operations on virtual resources or virtual machines such as deactivate, suspend, or migrate.

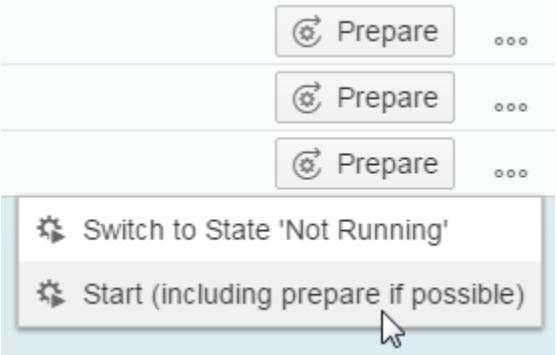
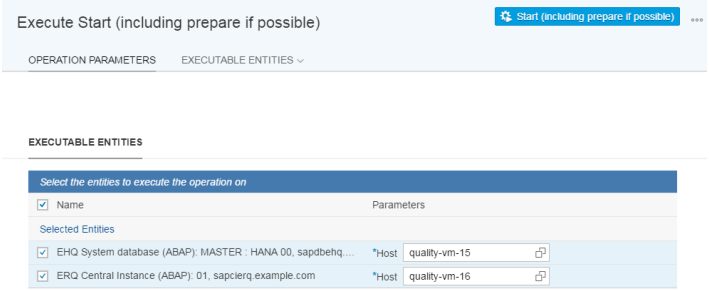
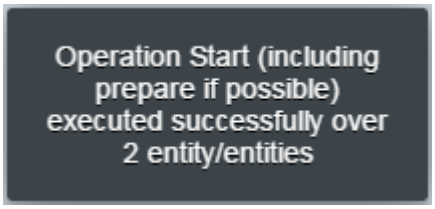
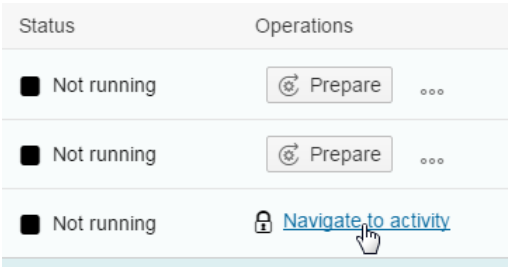
For more information, see SAP Help Portal at:
http://help.sap.com/static/saphelp_lamaent30/en/4e/01c00d2cc95639e10000000a42189e/frameset.htm

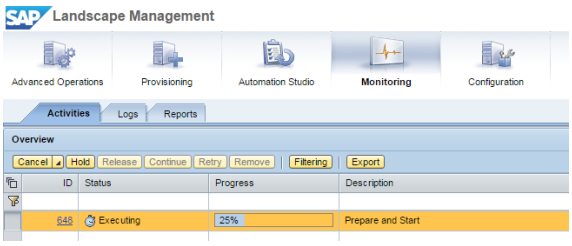
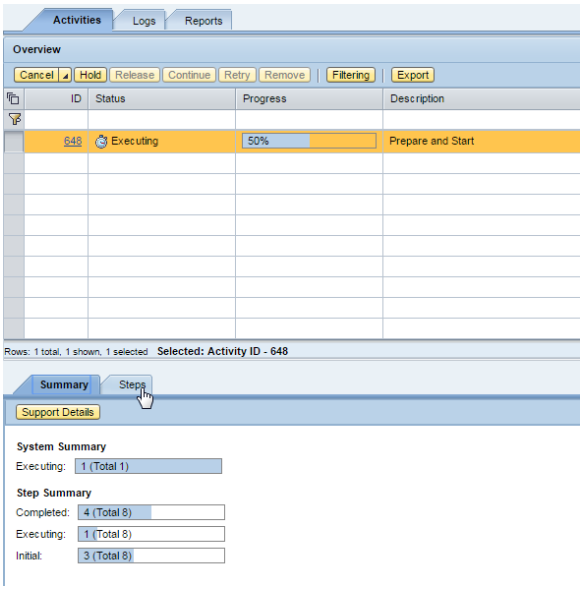
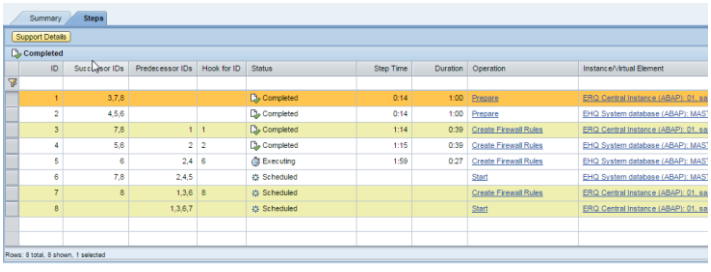
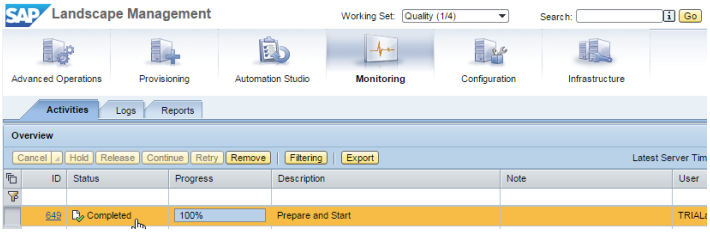
Description

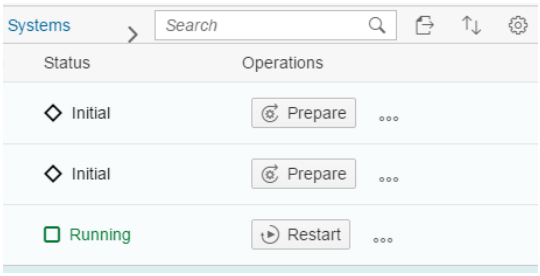
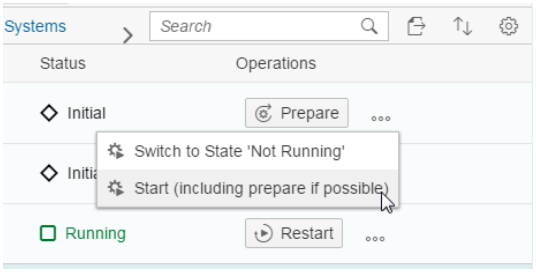
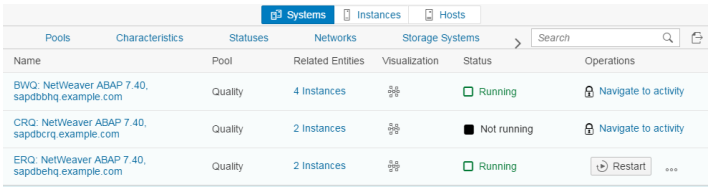
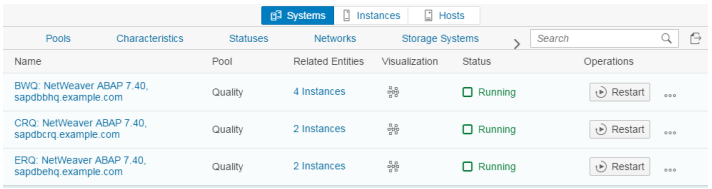
- You start systems from pool *Quality*.
- You start a system instance by instance (System: `CRD`).
- You monitor the status of systems.
- You monitor the execution status of operations.

Scenario Steps

Explanation	Screenshots
5.1 Performing Operations on Systems	
1. Choose *Operations and Maintenance* > *Operations*.	
2. If not already selected change the Working Set to *Quality* (for more information, see chapter '4.3 Working Set').	
3. If not already selected choose Systems.	
4. Choose ... in the line *ERQ: NetWeaver ABAP 7.40, sapdbehq.example.com*	

Explanation	Screenshots
5. Choose *Start (including prepare if possible)*.	
6. Choose *Start (including prepare if possible)*. **Note** In case you cannot see this button choose ... and afterwards *Start (including prepare if possible)*.	
Now you see the information that the operation *Start (including prepare if possible)* was executed on the two instances of this system.	
The system is starting. 7. Choose *Navigate to activity*.	

Explanation	Screenshots
Once you choose on *Navigate to activity link*, a new browser tab/window is opened and you are automatically directed to the *Activities* screen where you can monitor the execution status of the start operation. 8. Wait until the system is started and the activity is in Status *Completed*.	
To monitor the progress of operations steps select the table *Steps*.	
Now you see the progress under the column *Status*.	
When activity is in status *Completed* switch back to the other browser tab/window.	

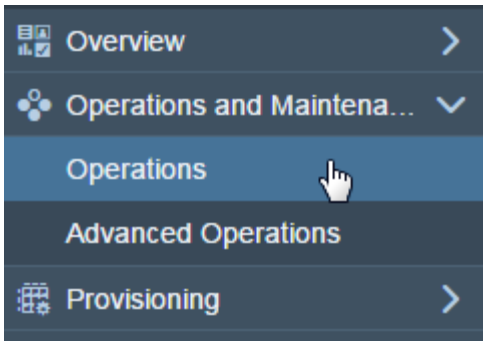
Explanation	Screenshots
SAP system ERQ is now in status *Running*.	
9. Start the SAP systems *BWQ: NetWeaver ABAP 7.40, sapdbbhq.example.com* and *CRQ: NetWeaver ABAP 7.40, sapdbcrq.example.com* the in the same way.	
The Systems *BWQ* and *CRQ* are starting now. Their status is changing from "Not Running" to "Intermediate" and afterwards to "Running".	
The Systems are finally in status Running.	

Explanation	Screenshots

5.2 Performing Operations on Single Instances

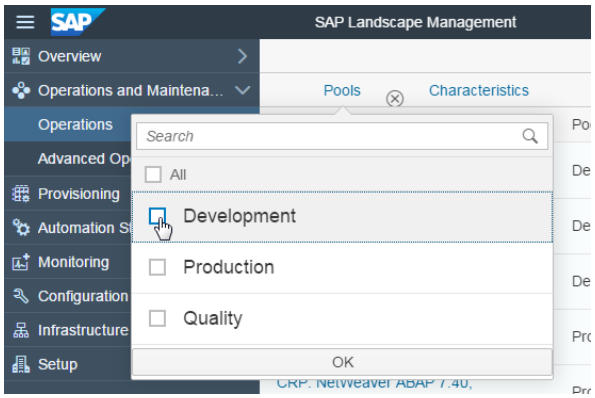
Continue on the screen where you ended chapter 5.1 Performing Operations on Systems.

10. Choose *Operations and Maintenance* > *Operations*



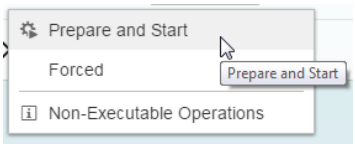
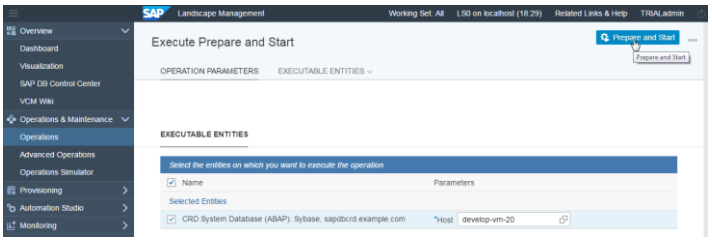
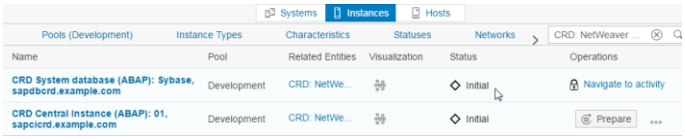
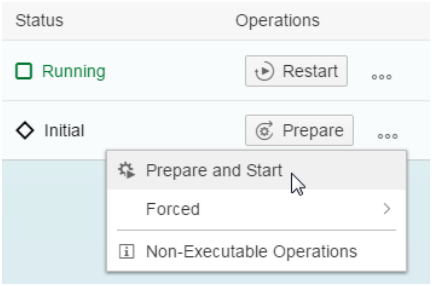
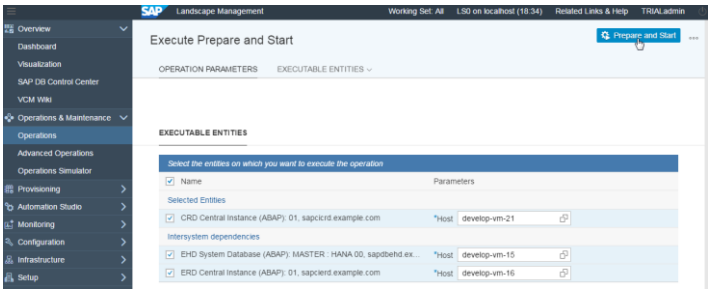
11. Choose *Pools* node and select *Development*.

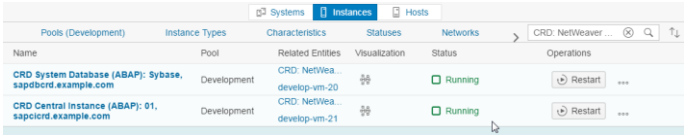
> **Note**
>
> In case you cannot select *Development* in the *Pools* node, select the Working Set *All*.



12. Choose *2 Instances* in the line *CRD: NetWeaver ABAP 7.40, sapdbcrd.example.com*.

13. Choose ••• in the line *CRD System Database (ABAP): Sybase, sapdbcrd.example.com*

Explanation	Screenshots
14. Choose *Prepare and Start*	
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.	
Wait for the System database for CRD is in status Running. 16. Choose ... in the line *CRD Central Instance (ABAP): 01, sapcicrd.example.com*	
17. Choose *Prepare and Start*	
18. Choose *Prepare and Start*. **Note** In normal ways the *CRD Central Instance* would immediately start. As written in the beginning of this document the system landscape of this	

Explanation	Screenshots
trial appliance has an Intersystem Dependency configured, that requires the *ERD Central Instance* to be running before *CRD Central Instance* can be started. Due to the fact that this *ERD Central Instance* is currently stopped, it is selected to be started as well.	
Wait until the *CRD Central Instance* is in status *Running*.	

6 Provisioning

Scenario

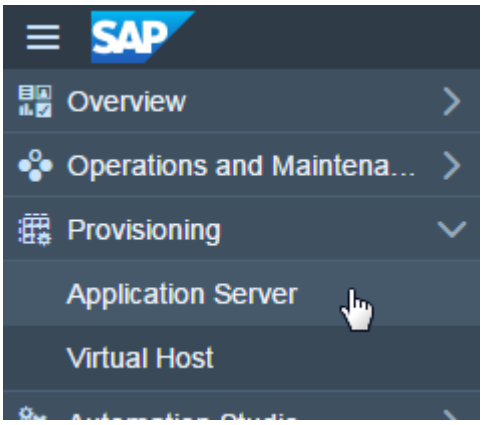
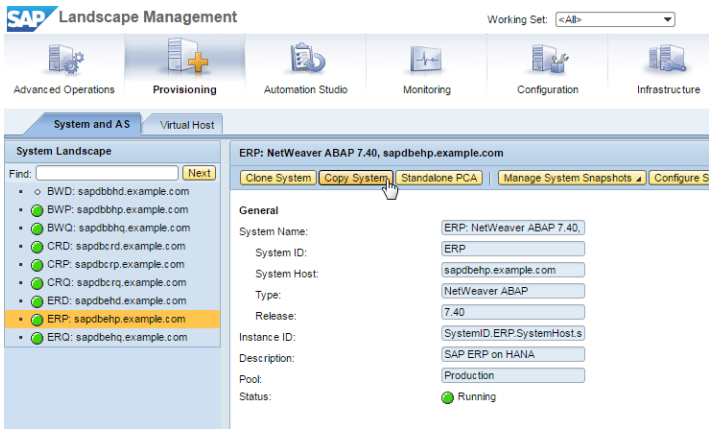
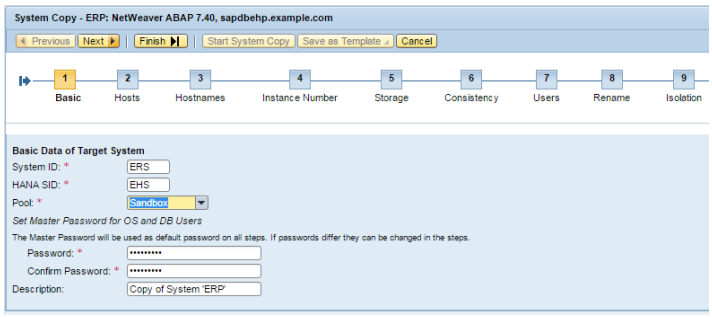
In the following exercise you will learn how to perform automated tasks for an SAP system using a provisioning process and how to monitor the execution status of the system copy operation.

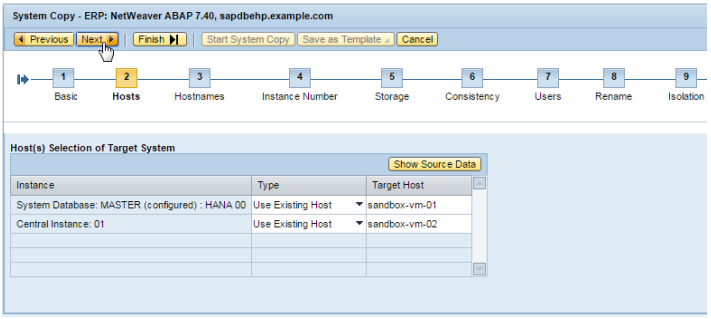
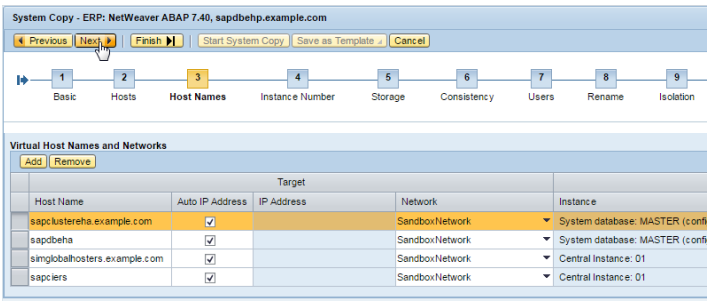
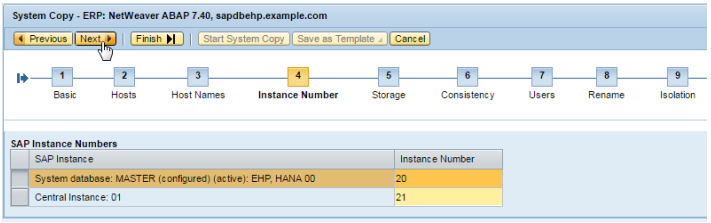
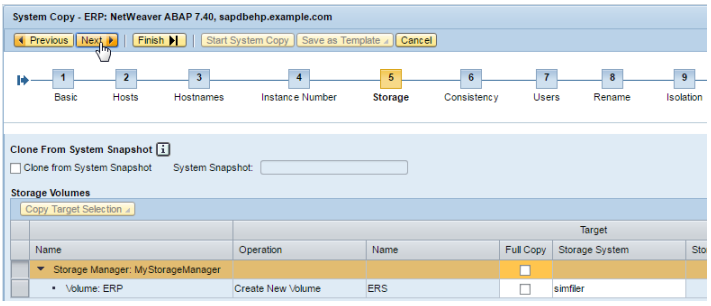
- System Copy: System copy helps you to create a duplicate of an existing system with a different host name and a unique SAP SID.
  For more information, see SAP Help Portal at:
  http://help.sap.com/static/saphelp_lamaent30/en/bf/87fac514b549c190ff319863157f90/frameset.htm
- Synchronized SystemClone: 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.

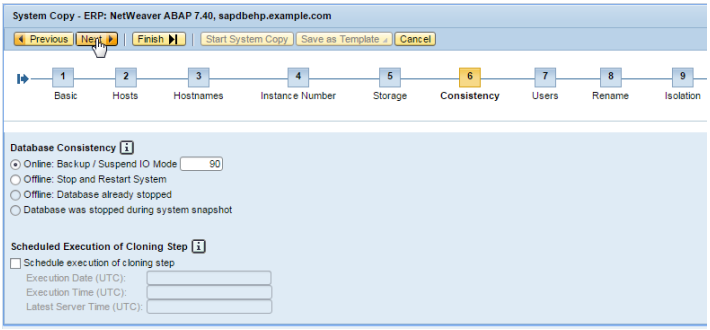
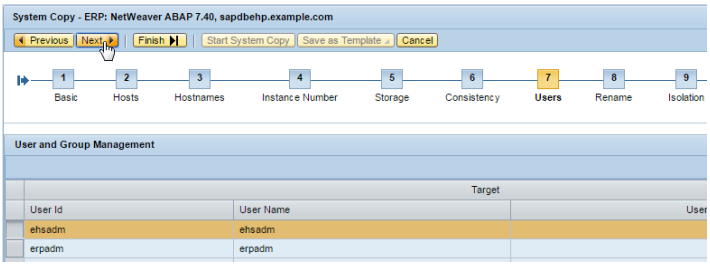
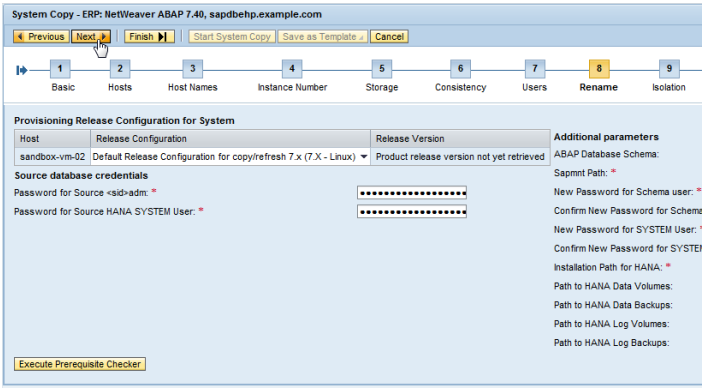
Description

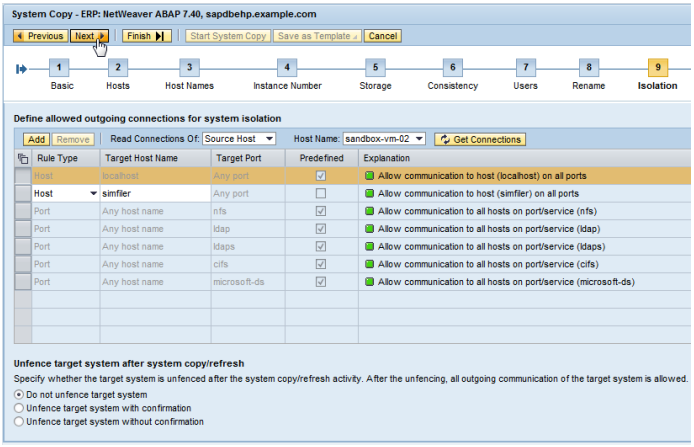
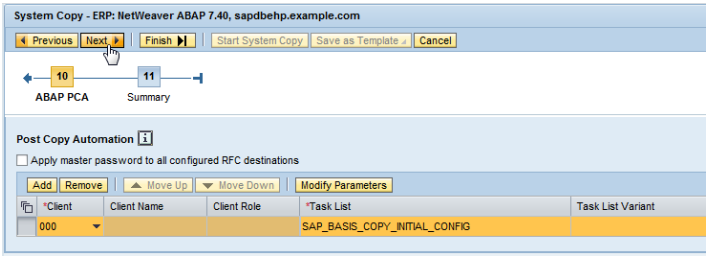
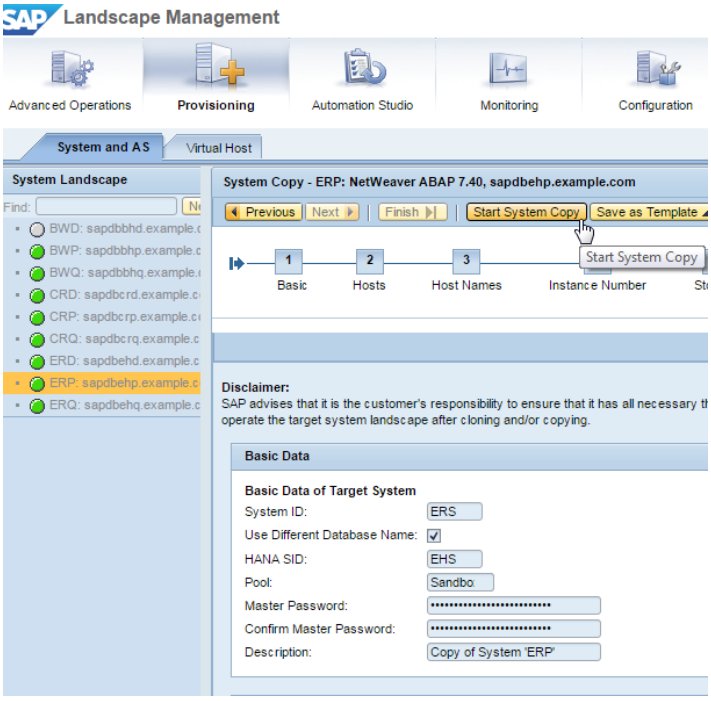
- You copy system `ERP` from Production pool to `ERS` in the Sandbox pool.
- You clone system `ERQ` from Quality pool to `ERQclone` in the Sandbox pool.
- You do a storage-based refresh system `ERS` from Sandbox pool.
- You do a restore-based refresh system `ERQ` from Sandbox pool.
- You destroy system `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.

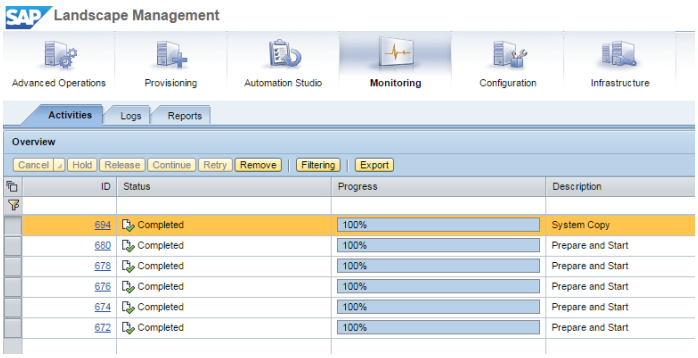
Scenario Steps

Explanation	Screenshots
6.1 Copy System	
1. Navigate to *Provisioning* > *Application Server*.	
A new browser window/tab will be opened. 2. In the system selector on the left side select system `ERP: sapdbehp.example.com`. 3. Choose *Copy System*.	
4. On the *Basic* step screen, enter the following values: ○ System ID: **`ERS`** ○ HANA SID: **`EHS`** ○ Pool: **`Sandbox`** ○ Password: **`Walldorf1`** 5. Choose *Next* and proceed with the next step.	

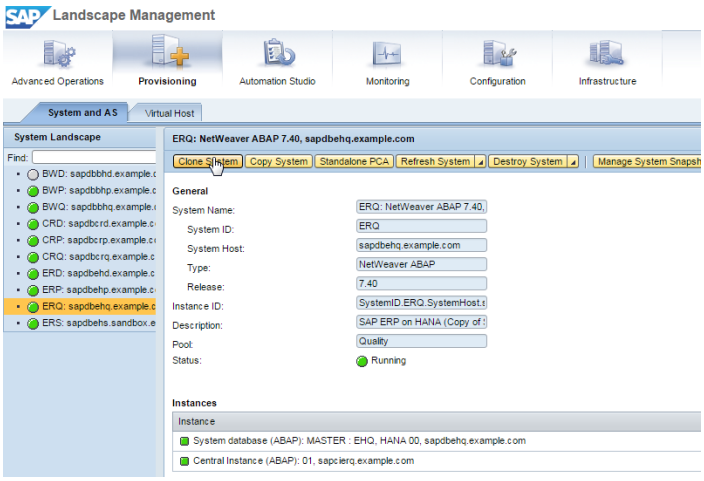
Explanation	Screenshots
6. On the *Hosts* step screen, keep the default values and choose *Next* and proceed with the next step.	
7. On the *Host Names* step screen, keep the default values and choose *Next* and proceed with the next step.	
8. Optional step: On the *Instance Number* step screen, enter the following values: ○ System database: **20** ○ Central Instance: **21** 9. Choose *Next* and proceed with the next step.	
10. On the *Storage* step screen, keep the default values and choose *Next* and proceed with the next step.	

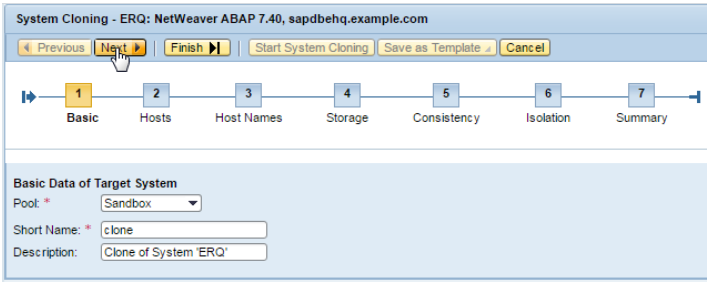
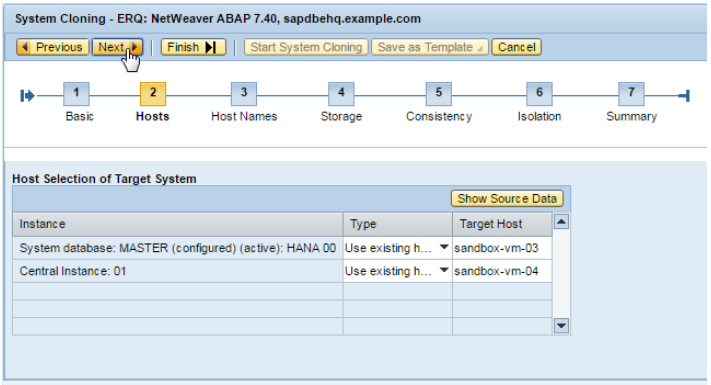
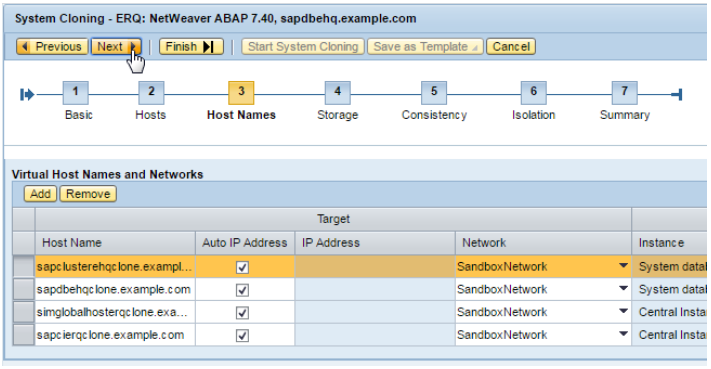
Explanation	Screenshots
11. On the *Consistency* step screen, keep the default values and choose *Next* and proceed with the next step.	
12. On the *Users* step screen, keep the default values and choose *Next* and proceed with the next step.	
13. On the *Rename* step screen, keep the default values and choose *Next* and proceed with the next step.	

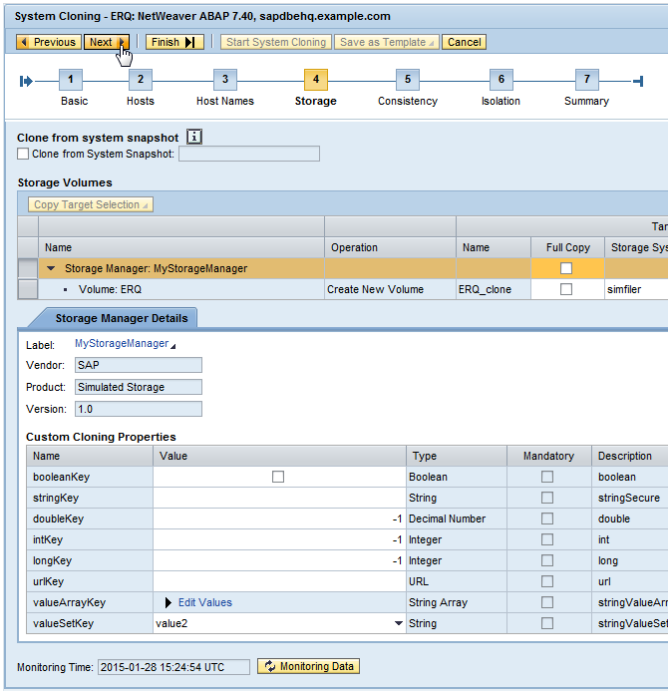
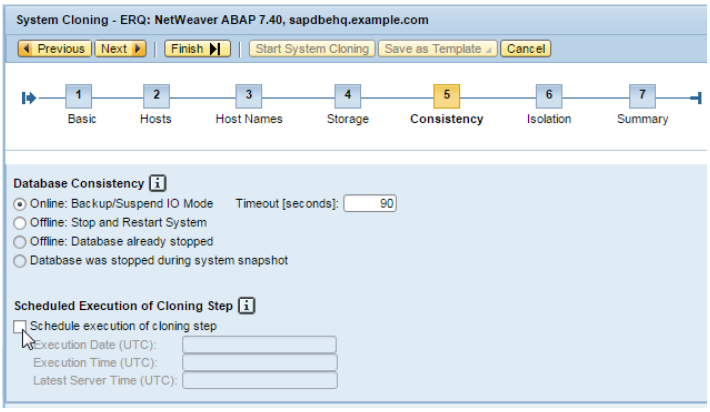
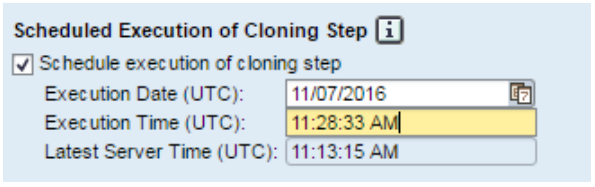
Explanation	Screenshots
14. On the *Isolation* step screen, keep the default values and choose *Next* and proceed with the next step.	
15. On the *ABAP PCA* step screen, keep the default values and choose *Next* and proceed with the next step.	
16. On the *Summary* step screen choose *Start System Copy* to trigger the operation.	

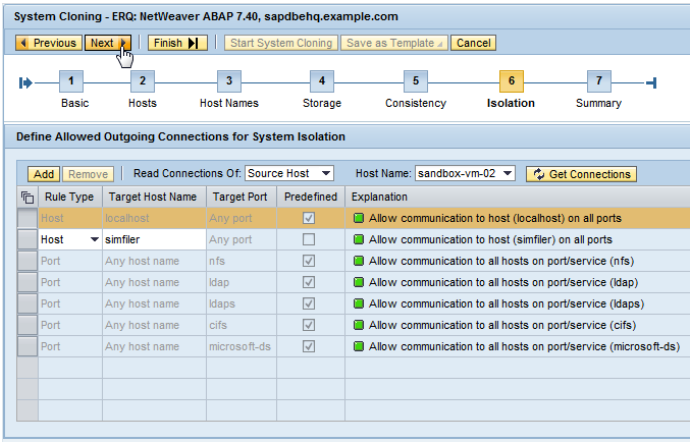
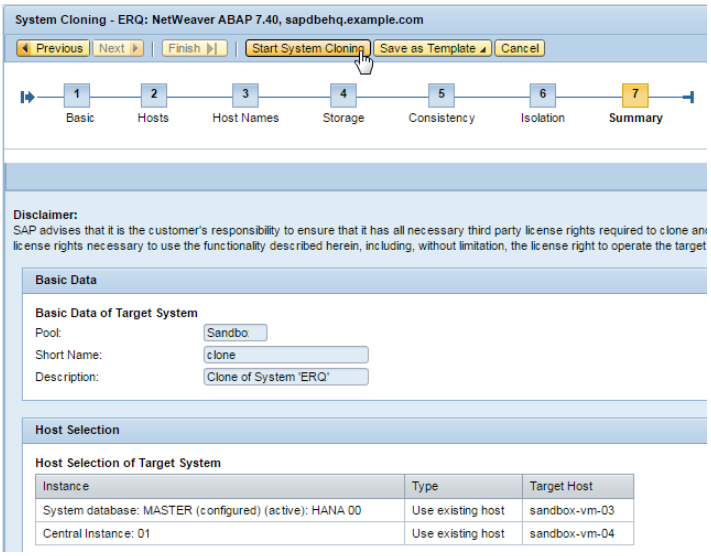
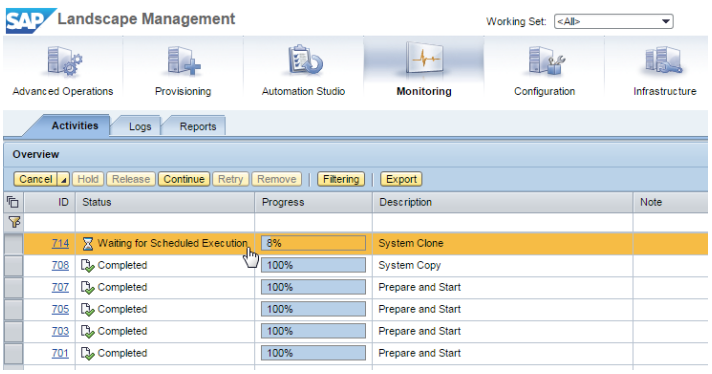
Explanation	Screenshots
Once you trigger the operation, you are automatically re-directed to the *Activities* screen where you can monitor the execution status of the system copy operation. 17. Wait for the activity to be `Completed`. **Note** This activity is simulated. In productive use the duration of this activity depends heavily on the performance and capabilities of the involved storage systems and the size of the SAP system. 18. 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.	

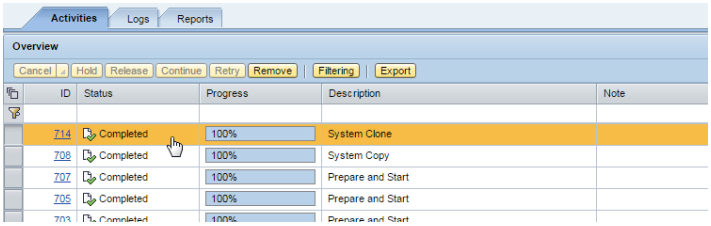
6.2 System Clone (Synchronized clone)

1. Navigate to *Provisioning* > *System and AS* 2. In the system selector on the left side select system `ERQ: sapdbehq.example.com` 3. Choose *Clone System*.	

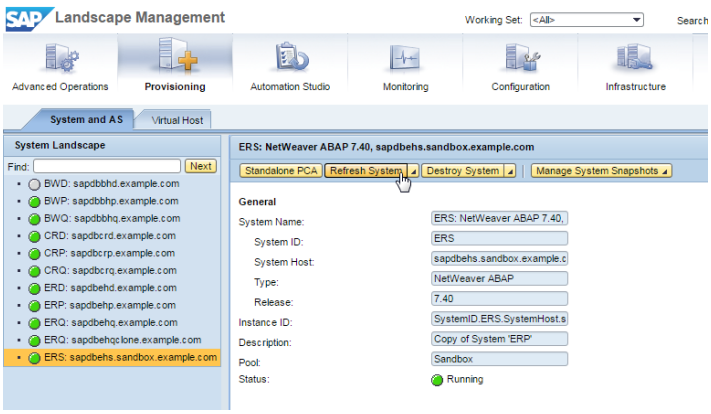
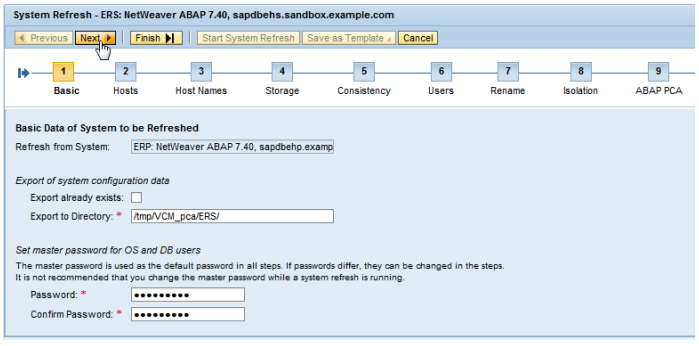
Explanation	Screenshots
4. On the *Basic* step screen, provide the following values: ○ Pool: **Sandbox** 5. Choose *Next* and proceed with the next step.	
6. On the *Hosts* step screen keep the default values and choose *Next* and proceed with the next step.	
7. On the *Host Names* step screen keep the default values and choose *Next* and proceed with the next step.	

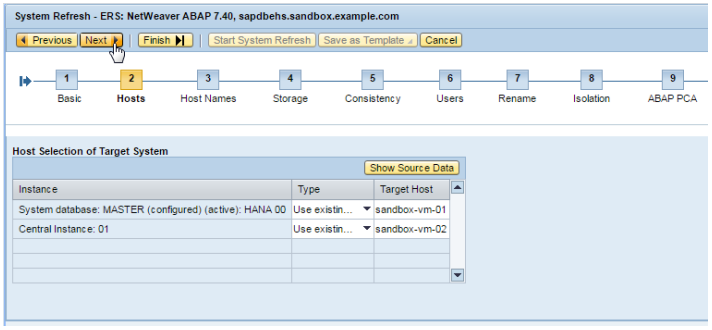
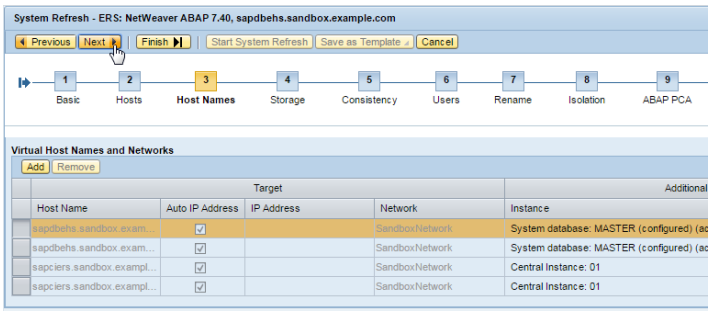
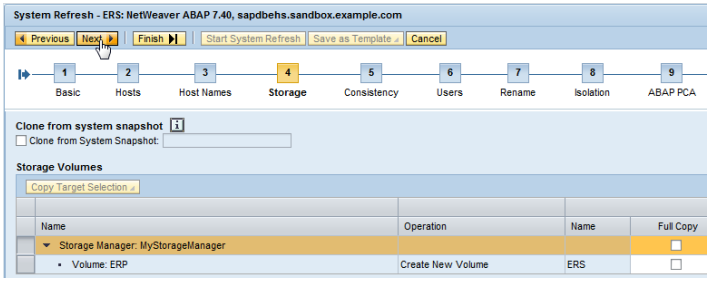
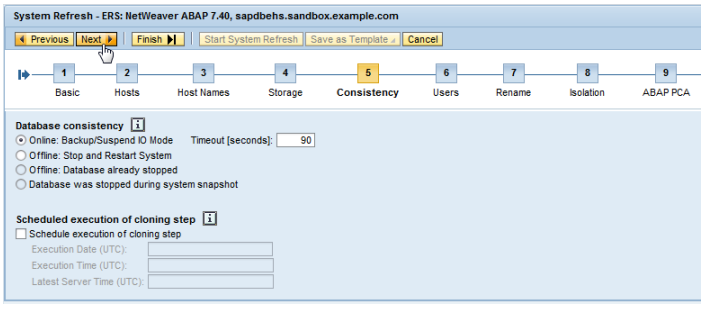
Explanation	Screenshots
8. On the *Storage* step screen keep the default values and choose *Next* and proceed with the next step.	
9. On the *Consistency* step screen, select leave the part Database consistency unchanged. 10. Check *Schedule execution of cloning step*.	
11. Enter as scheduled "Execution Time (UTC)" a time around 15 minutes in future ("Latest Server Time" plus 15 minutes). 12. Choose *Next* and proceed with the next step.	

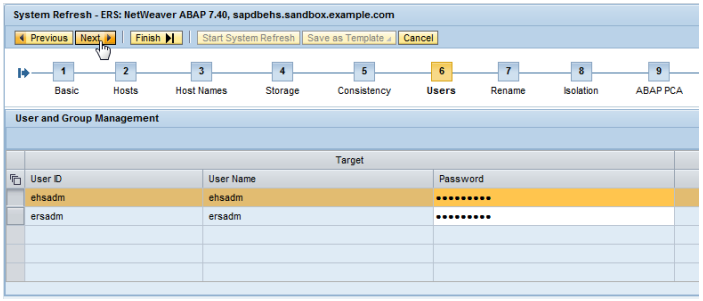
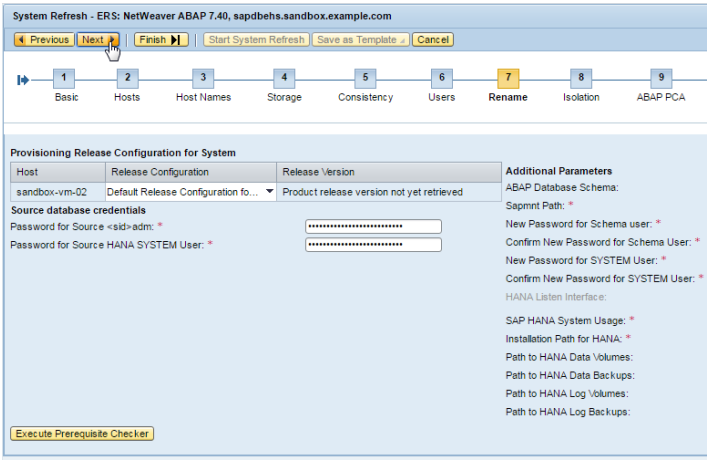
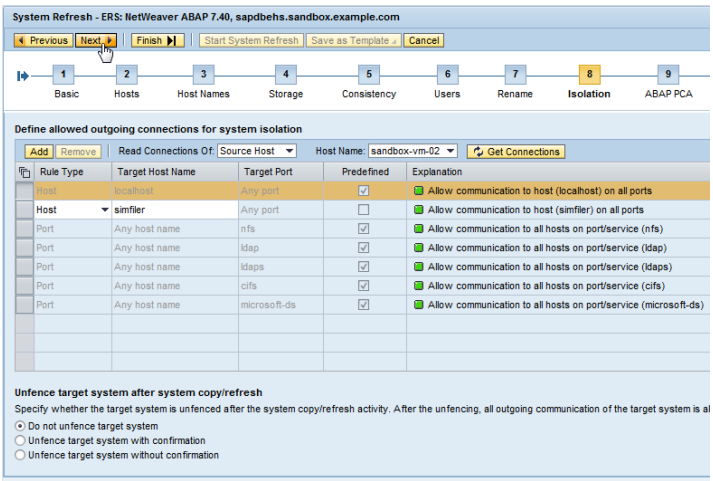
Explanation	Screenshots
13. On the *Isolation* step screen keep the default values and choose *Next* and proceed with the next step.	
14. On the *Summary* step screen, choose *Start System Cloning* to trigger the operation.	
Once you trigger the operation, you are automatically re-directed to the *Activities* screen where you can monitor the execution status of the system copy operation. The Activity will be in Status `Waiting for Scheduled Execution` until the entered execution time is reached.	

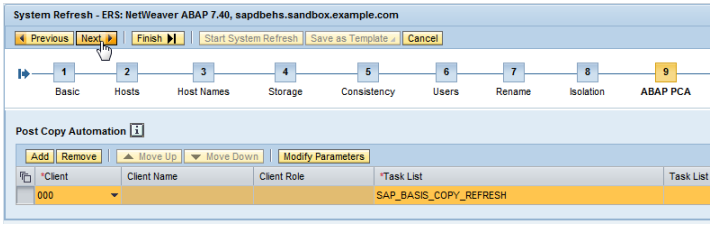
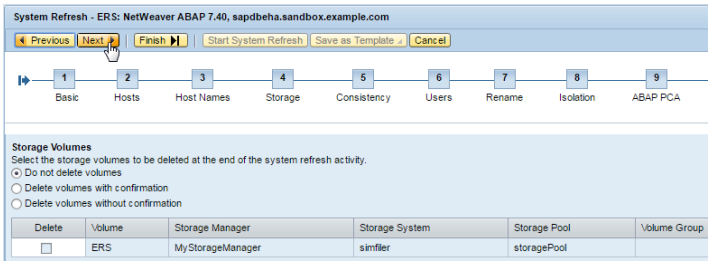
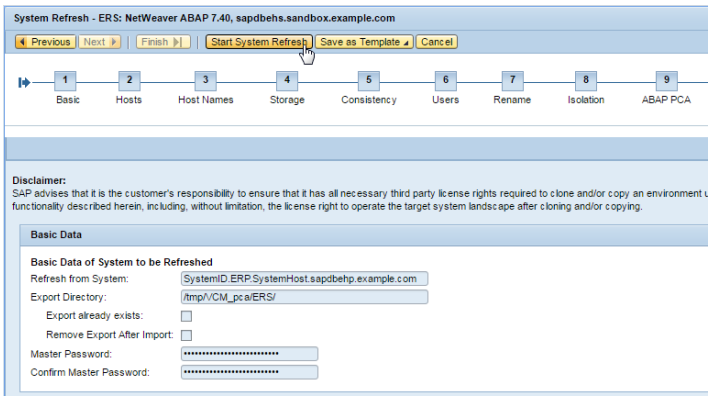
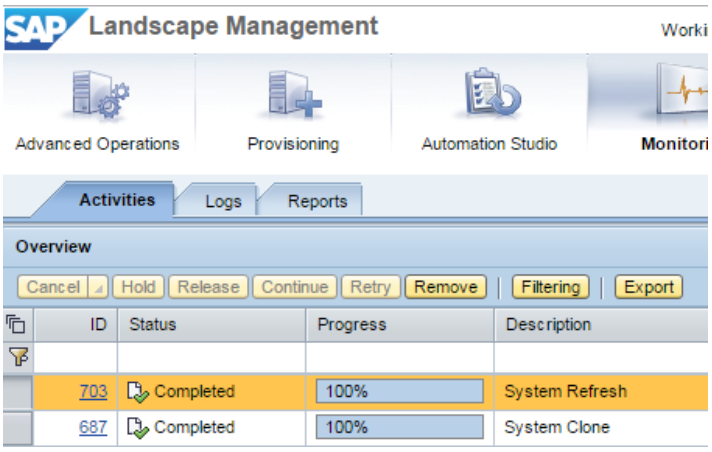
Explanation	Screenshots
15. Optional step: Wait for the activity to be `Completed`. **Note** This activity is simulated. In productive use the duration of this activity depends heavily on the performance and capabilities of the involved storage systems and the size of the SAP system.	

6.3 System Refresh (Storage based)

1. Navigate to *Provisioning* > *System and AS*. 2. In the system selector on the left side select system `ERS: sapdbehs.sandbox.example.com` 3. Choose *Refresh System*.	
4. On the *Basic* step screen, enter the following values: o Password: **`Walldorf1`** (and confirm) 5. Choose *Next* and proceed with the next step.	

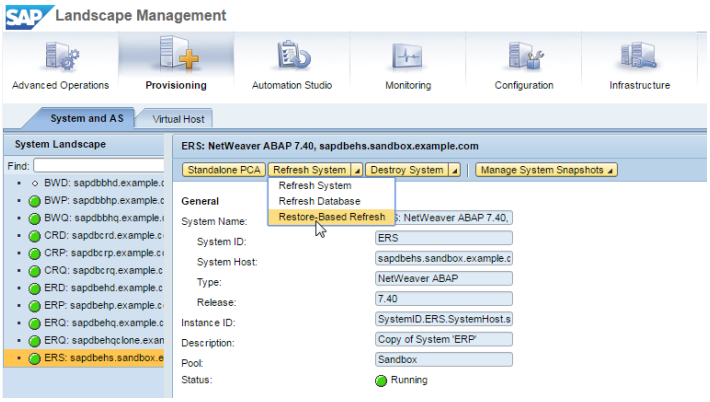
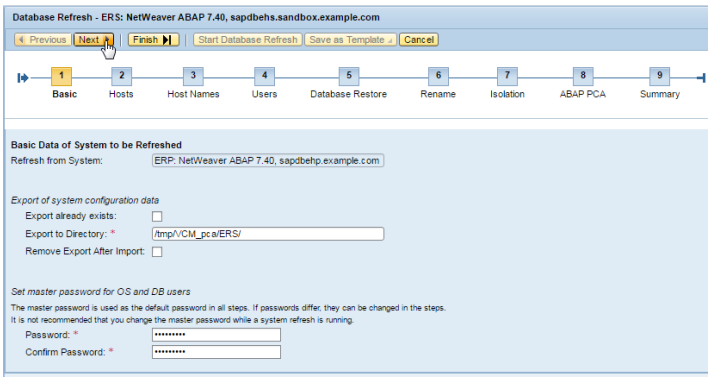
Explanation	Screenshots
6. On the *Hosts* step screen, keep the default values. 7. Choose *Next* and proceed with the next step.	
8. On the *Host Names* step screen, keep the default values. 9. Choose *Next* and proceed with the next step.	
10. On the *Storage* step screen, keep the default values. 11. Choose *Next* and proceed with the next step.	
12. On the *Consistency* step screen keep the default values. 13. Choose *Next* and proceed with the next step.	

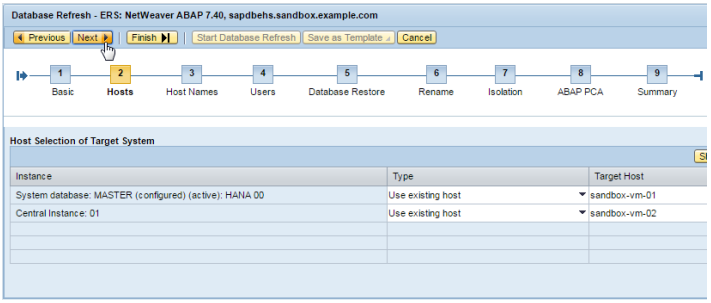
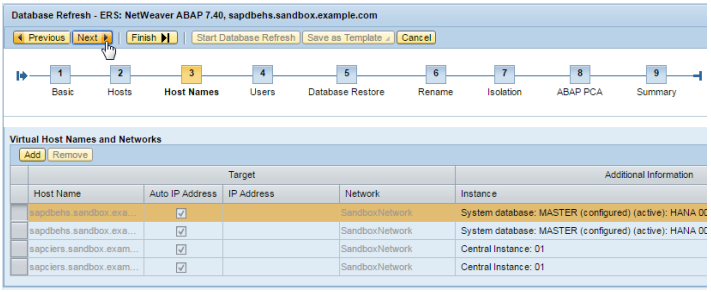
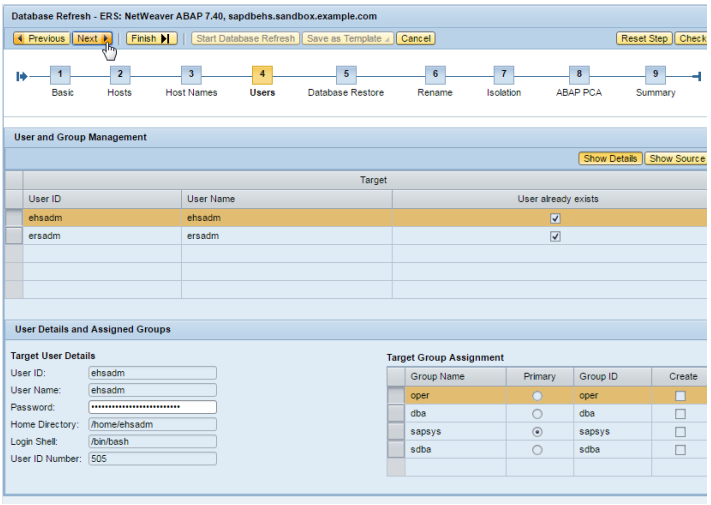
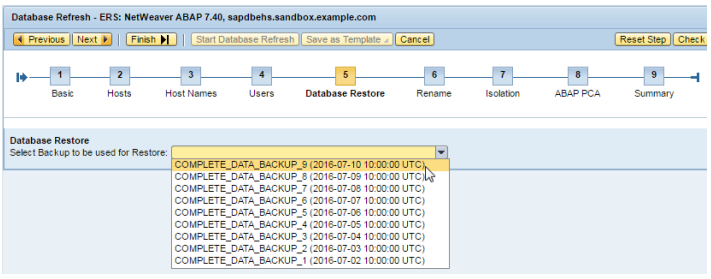
Explanation	Screenshots
14. On the *Users* step screen keep the default values. 15. Choose *Next* and proceed with the next step.	
16. On the *Rename* step screen keep the default values. 17. Choose *Next* and proceed with the next step.	
18. On the *Isolation* step screen keep the default values. 19. Choose *Next* and proceed with the next step.	

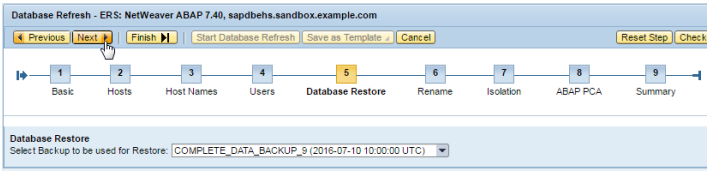
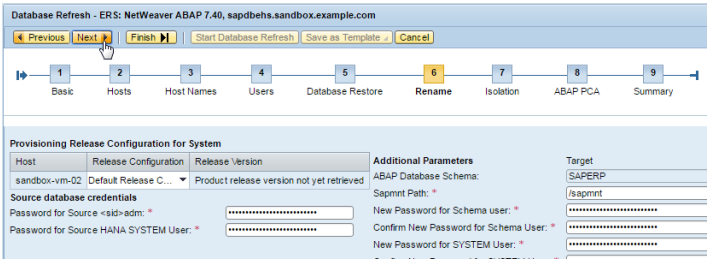
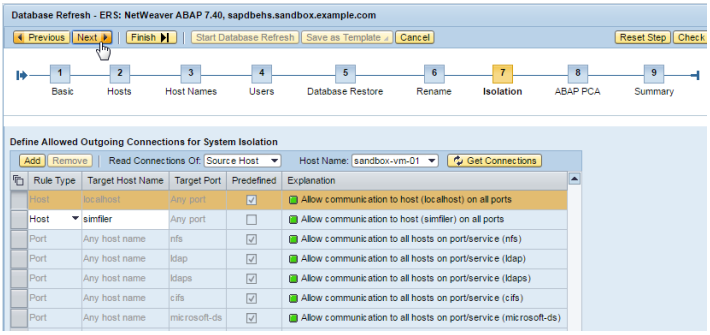
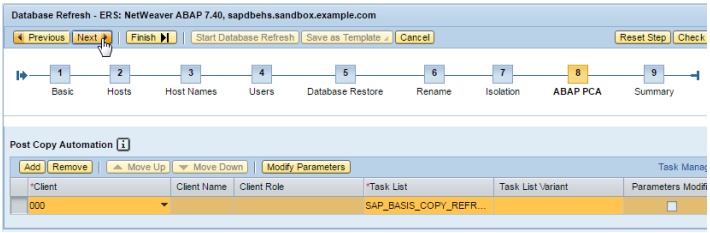
Explanation	Screenshots
20. On the *ABAP PCA* step screen keep the default values. 21. Choose *Next* and proceed with the next step.	
22. On the *Delete Storage Volumes* step screen keep the default values. 23. Choose *Next* and proceed with the next step.	
24. On the *Summary* step screen, choose *Start System Refresh* to trigger the operation.	
Once you trigger the operation, you are automatically re-directed to the *Activities* screen where you can monitor the execution status of the system refresh operation. 25. Wait for the activity to be `Completed`. **Note** This activity is simulated. In productive use the duration of this activity depends heavily on the performance and capabilities of the	

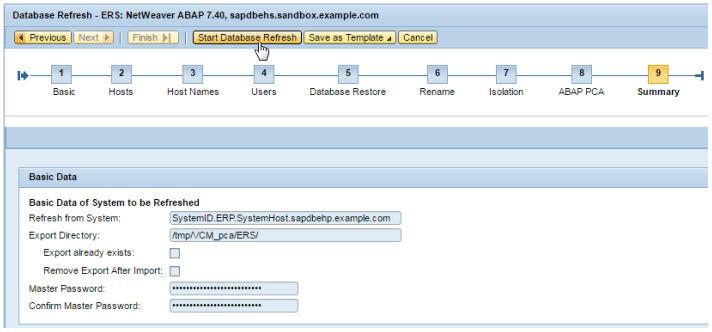
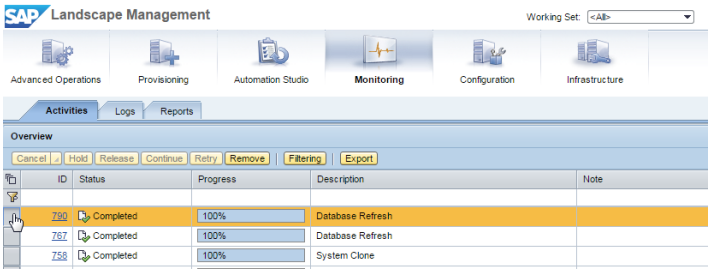
Explanation	Screenshots
involved storage systems and the size of the SAP system.	

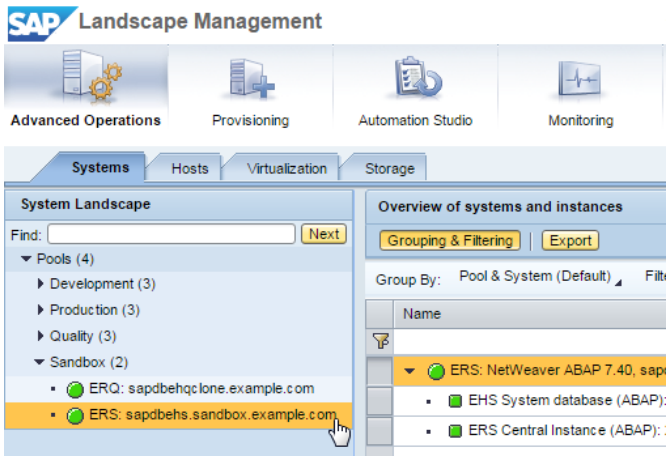
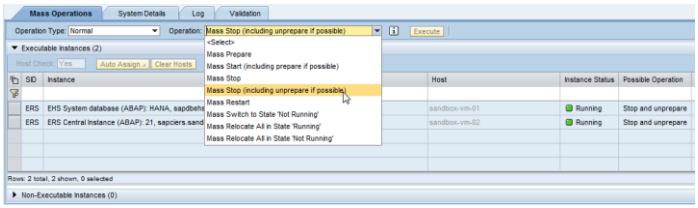
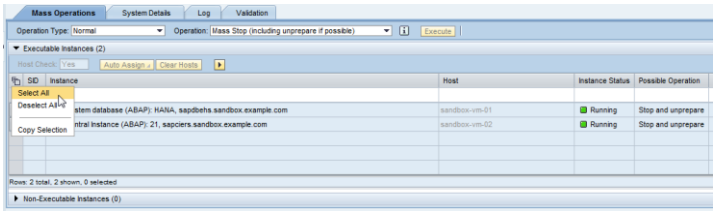
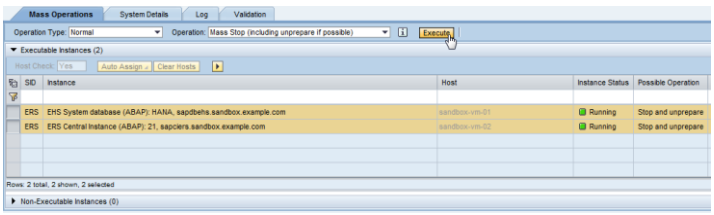
6.4 Refresh System (Restore based)

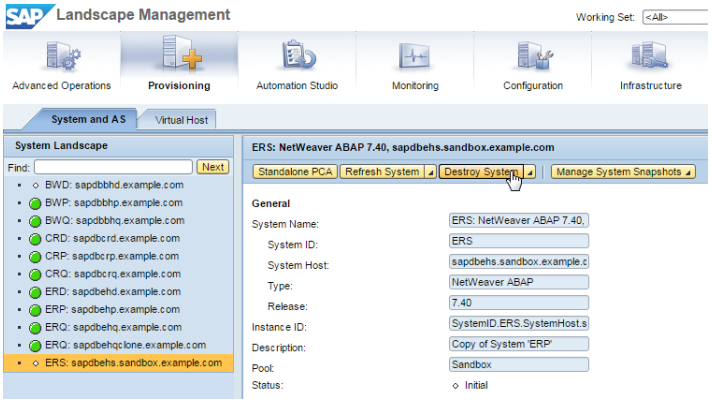
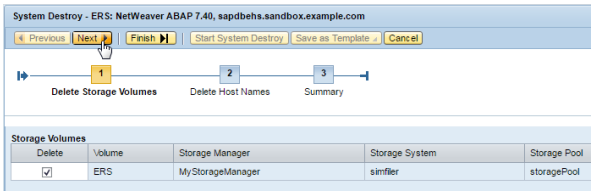
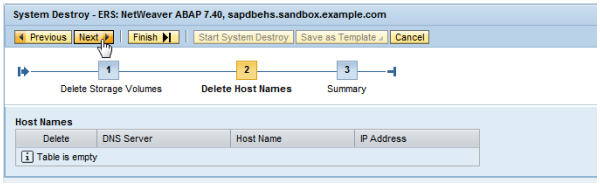
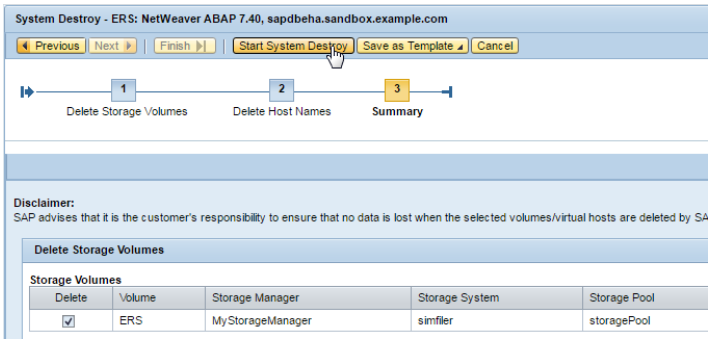
Note The activity before must be in status `Completed` before this chapter can be executed.	
1. Navigate to *Provisioning* > *System and AS*. 2. In the system selector on the left side select system `ERS: sapdbehs.sandbox.example.com` 3. Choose *Refresh System* > *Restore-Based Refresh*. **Note** The activity Restore-Based Refresh is offered for HANA-based systems only.	
4. On the *Basic* step screen, enter the following values: o Password: **`Walldorf1`** (and confirm) 5. Choose *Next* and proceed with the next step.	

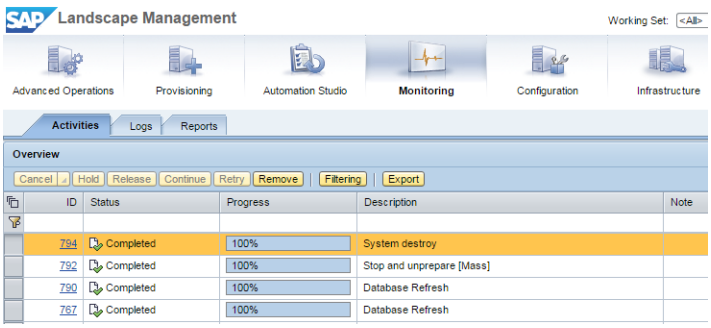
Explanation	Screenshots
6. On the *Hosts* step screen, keep the default values. 7. Choose *Next* and proceed with the next step.	
8. On the *Host Names* step screen, keep the default values. 9. Choose *Next* and proceed with the next step.	
10. On the *Users* step screen, keep the default values. 11. Choose *Next* and proceed with the next step.	
12. On the *Database Restore* step screen, choose the following values: ○ Select Backup to be used for Restore: **<Choose the first entry in the dropdownlist>**	

Explanation	Screenshots
13. Choose *Next* and proceed with the next step.	
14. On the *Rename* step screen, keep the default values. 15. Choose *Next* and proceed with the next step.	
16. On the *Isolation* step screen, keep the default values. 17. Choose *Next* and proceed with the next step.	
18. On the *ABAP PCA* step screen, keep the default values. 19. Choose *Next* and proceed with the next step.	

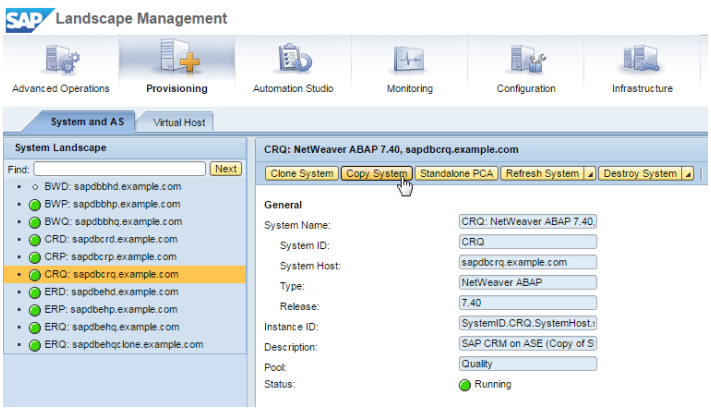
Explanation	Screenshots
20. On the *Summary* step screen, choose *Start System Refresh* to trigger the operation.	
Once you trigger the operation, you are automatically re-directed to the *Activities* screen where you can monitor the execution status of the system refresh operation. 21. Wait for the activity to be `Completed`. **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.	

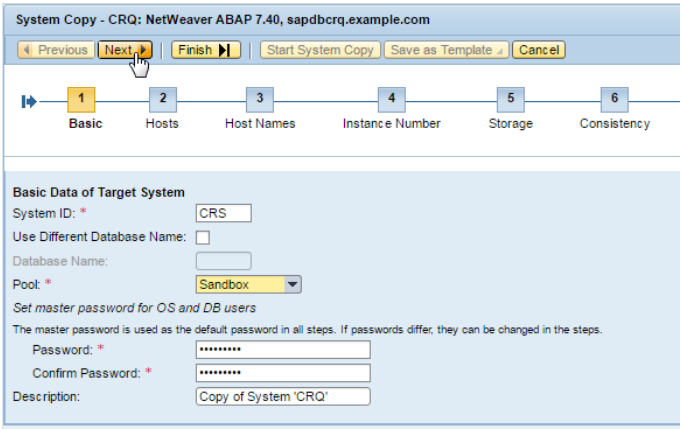
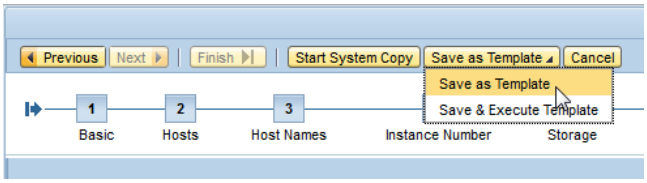
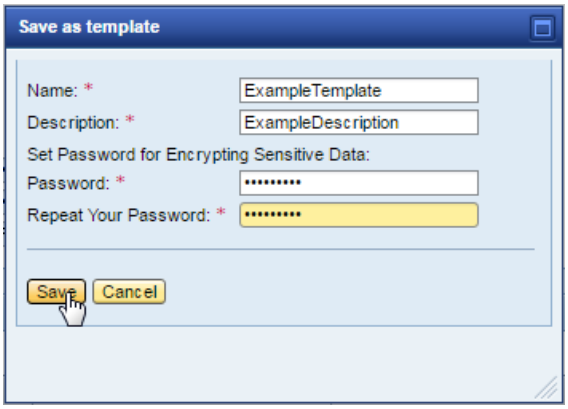
Explanation	Screenshots
6.5 Destroy System	
Stop and unprepare the system `ERS: sapdbehs.sandbox.example.com` in the *Sandbox* pool before this system can be destroyed. 22. Navigate to *Advanced Operations* > *Systems* 23. Expand the *Sandbox* in the System Landscape on the left side. 24. Select and expand the system `ERS: sapdbehs.sandbox.example.com`	
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*. 25. To stop these instances, ensure that the Operation *Mass Stop (including unprepare if possible)* is selected.	
26. Choose the icon. 27. Choose *Select All* from the dropdown menu.	
28. Choose *Execute*. Wait until the system `ERS` is stopped and unprepared.	

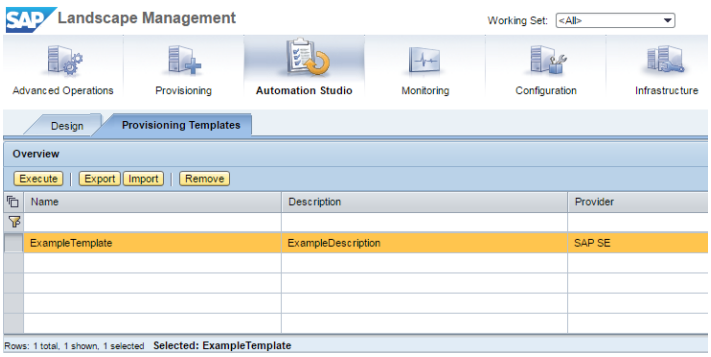
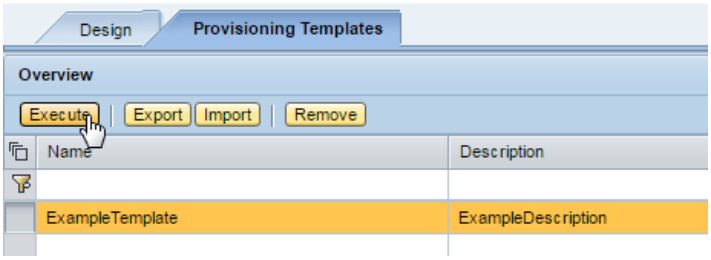
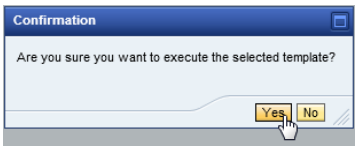
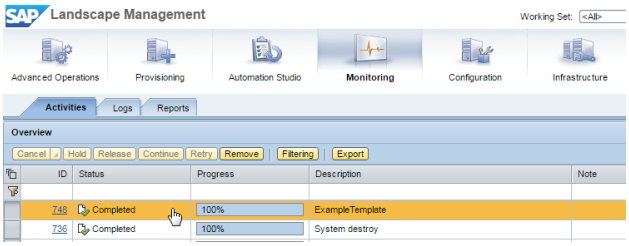
Explanation	Screenshots
29. Navigate to *Provisioning* > *System and AS* 30. In the system selector on the left side select `ERS: sapdbehs.sandbox.example.com` 31. Choose *Destroy System*.	
32. On the *Delete Storage Volumes* step screen keep the default values. 33. Choose *Next* and proceed with the next step.	
34. On the *Delete Host Names* step screen keep the default values. 35. Choose *Next* and proceed with the next step.	
36. On the Summary step screen, choose *Start System Destroy* to trigger the operation.	

Explanation	Screenshots
Once you trigger the operation, you are automatically re-directed to the *Activities* screen where you can monitor the execution status of the system destroy operation. 37. Wait for the activity to be `Completed`. **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.	
38. Optional step: If you like to destroy the **`ERQclone`** as well than execute this chapter for `ERQ: sapdbehqclone.example.com`.	

6.6 Provisioning Templates

39. Navigate to *Provisioning* > *System and AS* 40. In the system selector on the left side select `CRQ: sapdbcrq.example.com` 41. Choose *Copy System*.	

Explanation	Screenshots
42. On the *Basic* step screen, enter the following values: ○ System ID: **CRS** ○ Pool: **Sandbox** ○ Password: **Walldorf1** (and confirm) 43. Choose *Next* and proceed with the next step.	
44. Execute the steps as described in chapter '6.1 Copy System' including step 15.	
45. On the Summary step screen, choose *Save as Template* to trigger the operation.	
46. On the upcoming popup enter the following values: ○ Name: **ExampleTemplate** ○ Description: **ExampleDescription** ○ Password: **Walldorf1** (and confirm) 47. Choose *Save* and proceed with the next step.	

Explanation	Screenshots
Once you save the template, you are automatically re-directed to *Automation Studio -> Provisioning Templates* screen and there is now a new entry.	
48. Select the corresponding line in the table and choose *Execute*.	
49. Choose *Yes*.	
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. 50. Wait for the activity to be `Completed`. **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.	

7 SAP HANA Near Zero Downtime Takeover

Scenario

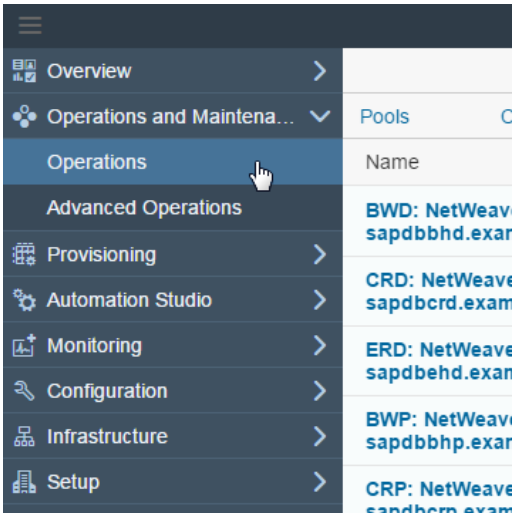
If your primary system is not available, due to a disaster or planned downtime for example, and you have decided to fail over to the secondary system, you can perform a takeover on your secondary node with near Zero Downtime.

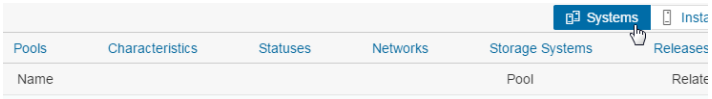
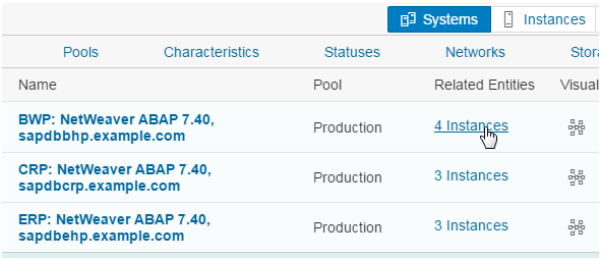
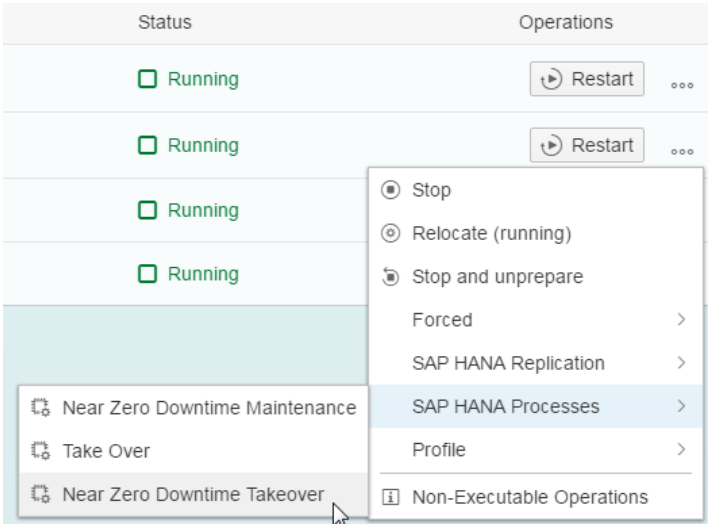
In the following exercise you will learn how to perform Takeover-operations on SAP HANA instances.

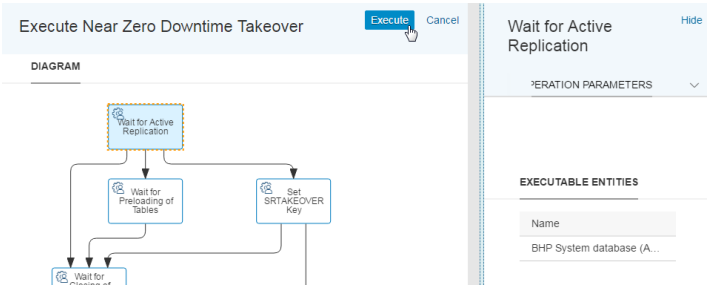
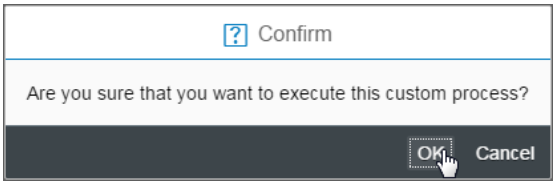
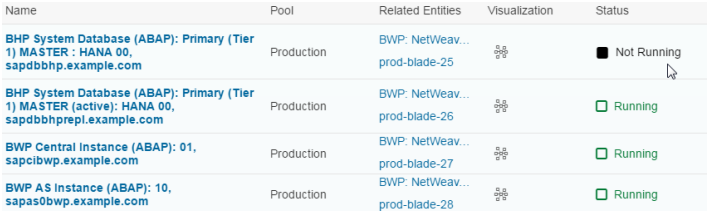
For more information, see SAP Help Portal at:
http://help.sap.com/static/saphelp_lamaent30/en/bb/ca099ce73c42d99596375389b0b0e1/frameset.htm

Description

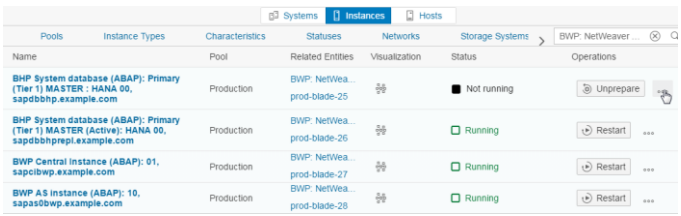
- You perform a HANA Near Zero Downtime Takeover operation.
- You monitor the status of systems.

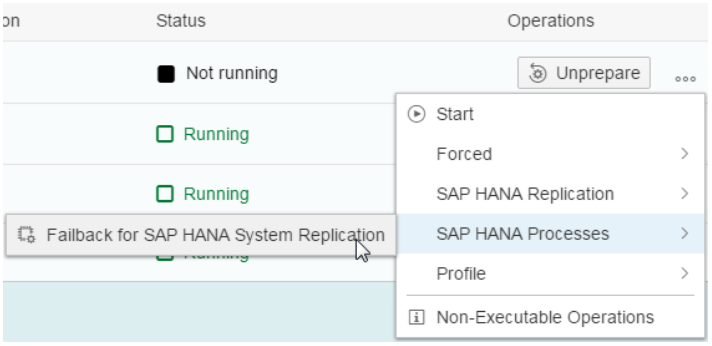
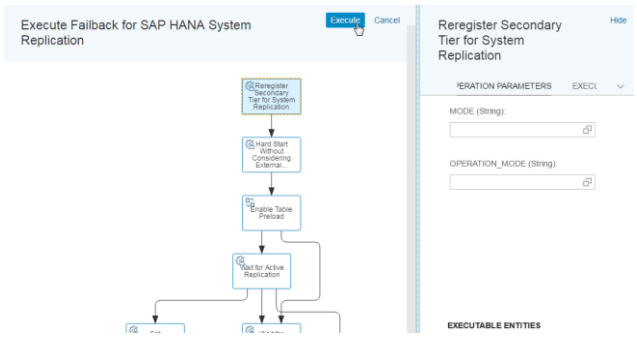
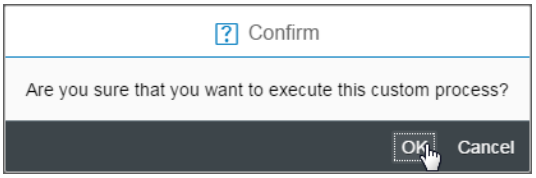
Explanation	Screenshots
7.1 SAP HANA NZDM Takeover	
The Guide "How to Perform System Replication for SAP HANA" is available via: http://scn.sap.com/docs/DOC-47702	
1. Open http://<IPaddressOfYourInstance>:50000/lama 2. Choose *Operations and Maintenance* > *Operations*.	
3. Choose Working Set *Production* (for more information, see chapter '4.3 Working Set').	

Explanation	Screenshots
4. If not already selected choose Systems.	
5. Choose *4 Instances* in the line *BWP: NetWeaver ABAP 7.40, sapdbbhp.example.com*.	
6. Choose ··· in the line *BHP System Database (ABAP): Secondary (Tier 2) MASTER : HANA 00, sapdbbhprepl.example.com*.	
7. Choose *SAP HANA Processes* > *Near Zero Downtime Takeover*.	

Explanation	Screenshots
8. Choose *Execute*.	
9. Choose *OK*.	
Afterwards you are redirected to the screen *Operations and Maintenance* > *Operations*. Wait for the primary SAP HANA instance is stopped and the former secondary SAP HANA instance has now the DB role primary.	

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*.	

Explanation	Screenshots
2. Choose *SAP HANA Processes* > *Failback for SAP HANA System Replication.*	
3. Choose *Execute.*	
4. Choose *OK.*	
Afterwards you are redirected to the screen *Operations and Maintenance* > *Operations*. Wait for all instances of this system are started and is in status Running.	

8 SAP HANA Near Zero Downtime Maintenance (nZDM)

Scenario

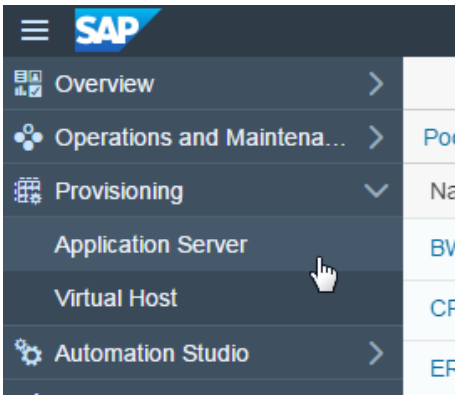
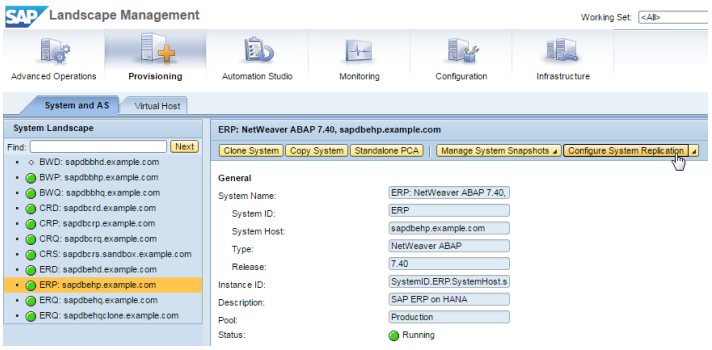
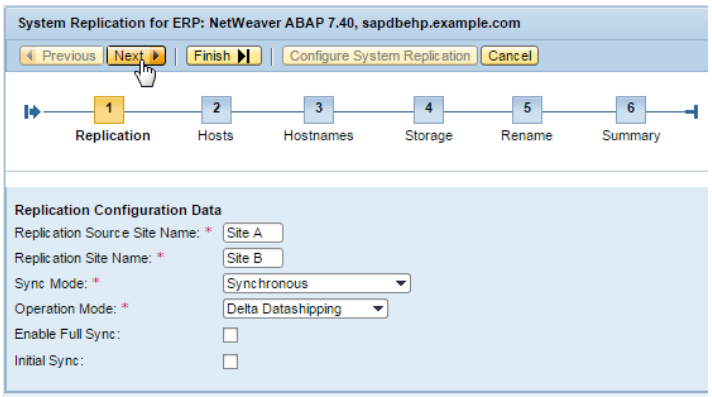
To reduce the downtime of an SAP HANA system you perform a near zero Downtime maintenance operation. You stop, unregister, register, and start the replication tiers.

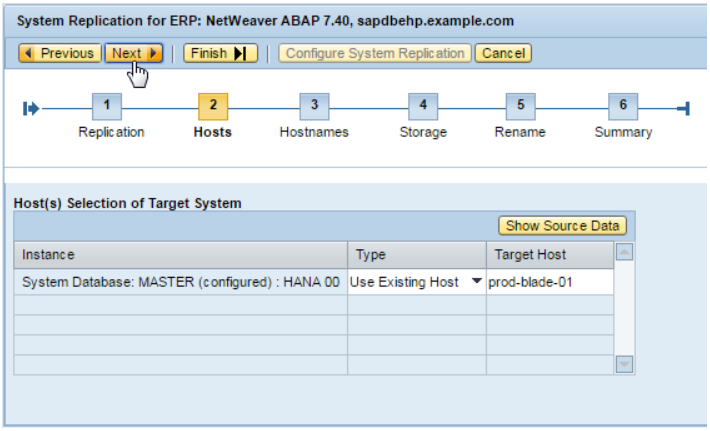
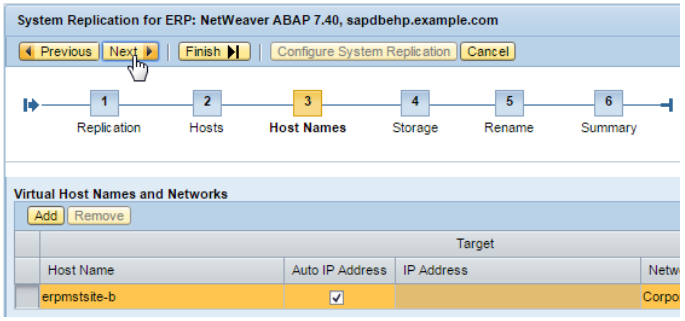
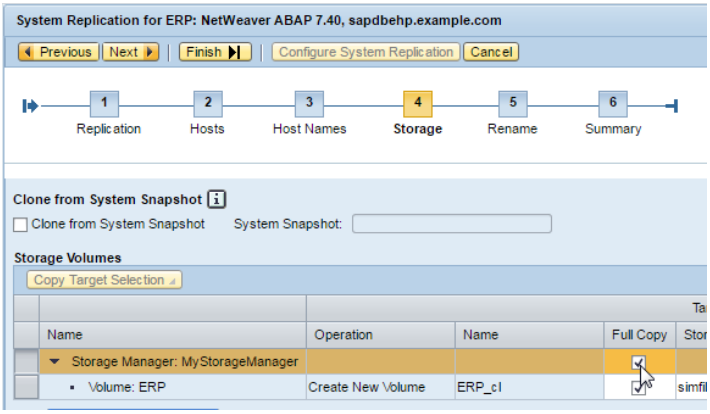
In the following exercise you will learn how to perform maintenance-operations on SAP HANA instances.

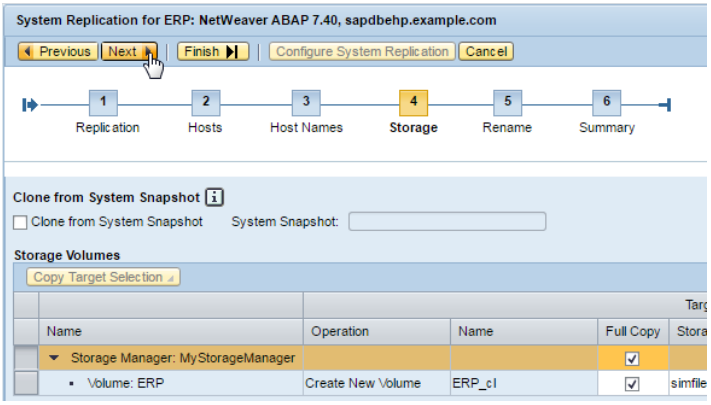
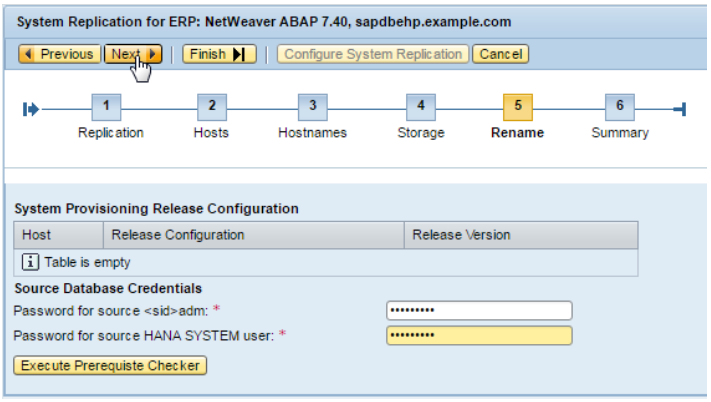
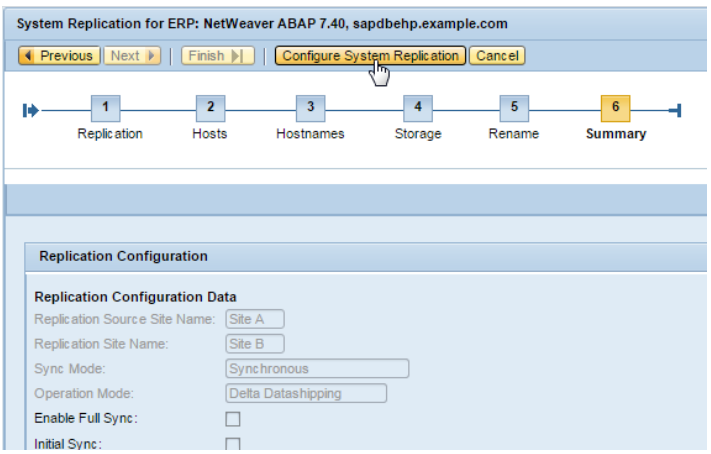
For more information, see SAP Help Portal at:
http://help.sap.com/static/saphelp_lamaent30/en/de/cb0795d8a44831804732254f14fcc3/frameset.htm

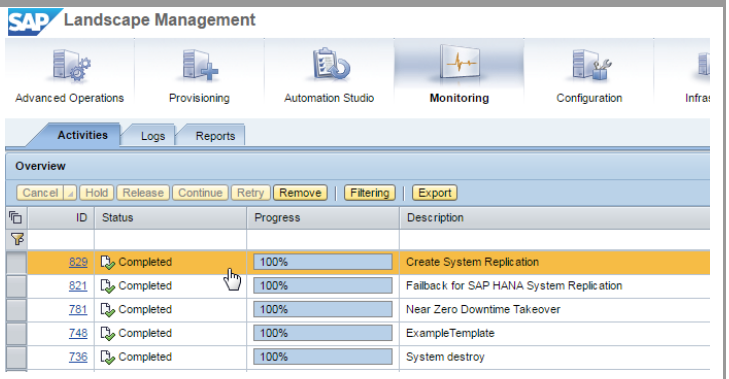
Description

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

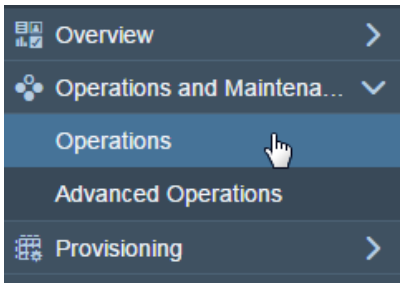
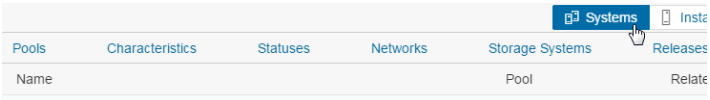
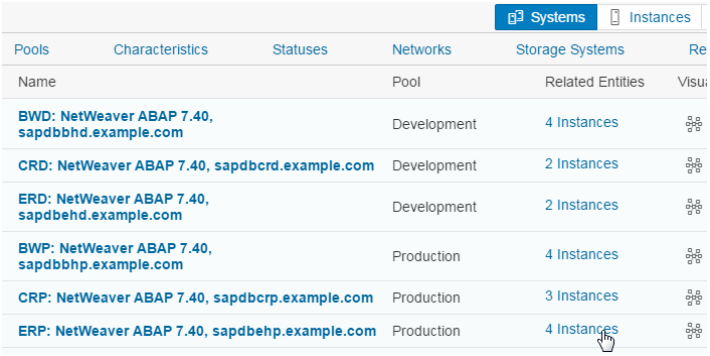
Explanation	Screenshots
8.1 Configure System Replication	
1. Open http://<IPaddressOfYourInstance>:50000/lama. 2. Choose *Provisioning* > *Application Server*.	
In another browser window you see the configuration. 3. Choose *ERP: NetWeaver ABAP 7.40, sapdbehp.example.com*. 4. Choose *Configure System Replication*.	
5. On the *Replication* step screen, enter the following values: ○ Replication Source Site Name: **`Site A`** ○ Replication Site Name: **`Site B`** ○ Sync Mode: **`Synchronous`** ○ Operation Mode: **`Delta Datashipping`** ○ Enable Full Sync: **`unchecked`** ○ Initial Sync: **`unchecked`**	

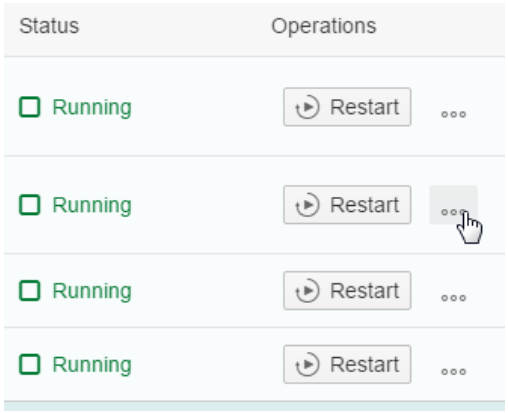
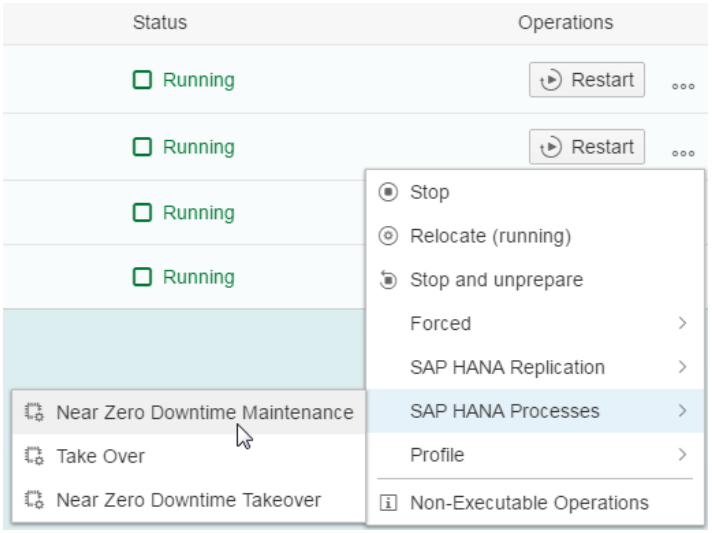
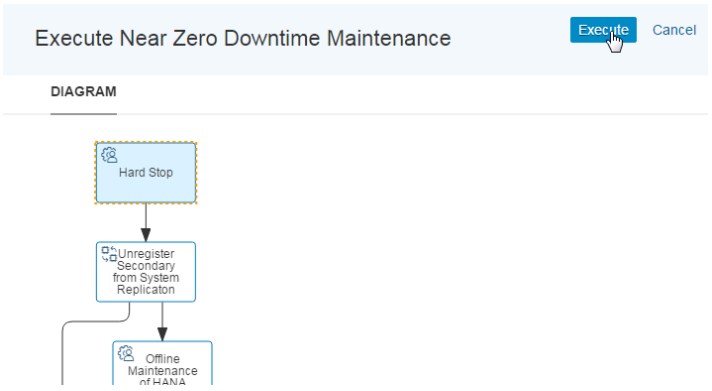
Explanation	Screenshots
6. Choose *Next* and proceed with the next step.	
7. On the *Hosts* step screen and choose *Next* and proceed with the next step.	
8. On the *Host Names* step screen and choose *Next* and proceed with the next step.	
9. On the *Storage* step screen, enter the following values: ○ Full Copy: **checked**	

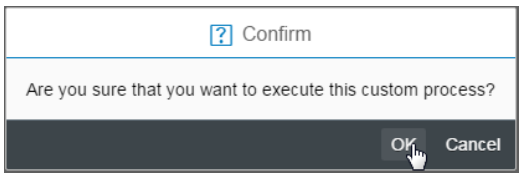
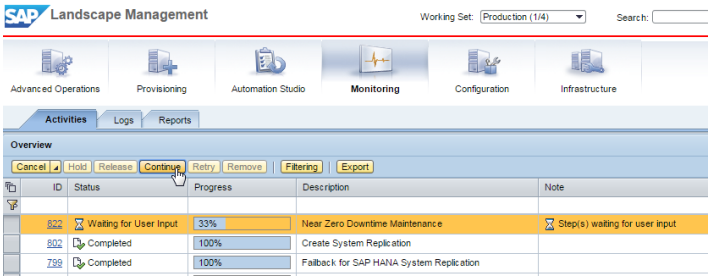
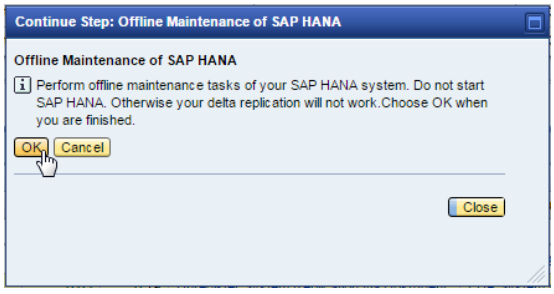
Explanation	Screenshots
10. Choose *Next* and proceed with the next step.	
11. On the *Rename* screen, enter the values: ○ Password for source <sid>adm: **Walldorf1** ○ Password for source HANA SYSTEM user: **Walldorf1** 12. Choose *Next*.	
13. On the *Summary* screen, choose *Configure System Replication*.	
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.	

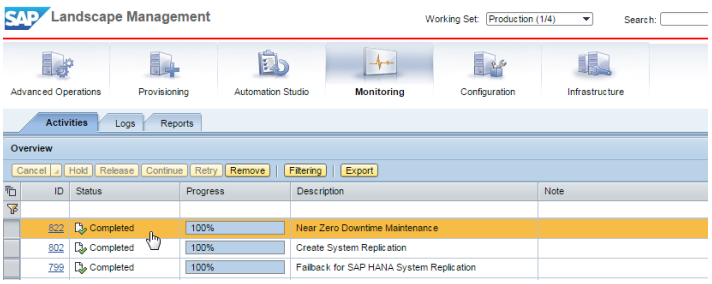
Explanation	Screenshots
14. Wait for the activity to be `Completed`. **Note** This activity is simulated. In productive use the duration of this activity depends heavily on the performance and capabilities of the involved storage systems and the size of the SAP system.	

8.2 SAP HANA Near Zero Downtime Maintenance

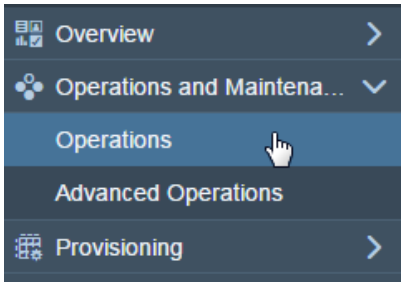
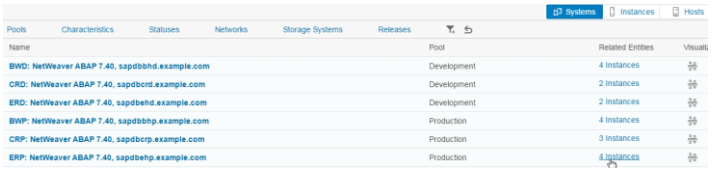
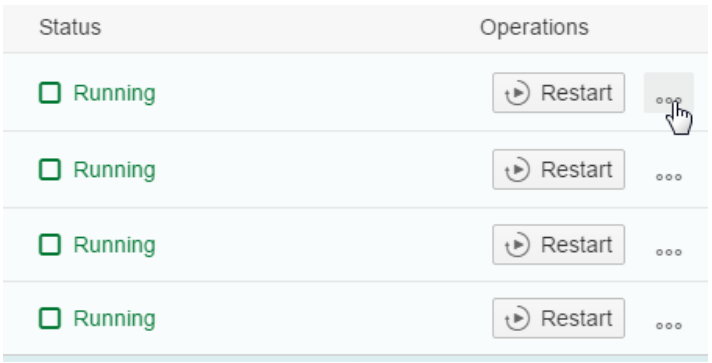
1. Open http://<IPaddressOfYourInstance>:50000/lama. 2. Choose *Operations and Maintenance* > *Operations*. 3. If not already selected change the Working Set back to *All* (for more information, see chapter '4.3 Working Set').	
4. If not already selected choose Systems.	
5. Choose *4 Instances* in the line *ERP: NetWeaver ABAP 7.40, sapdbehp.example.com*.	

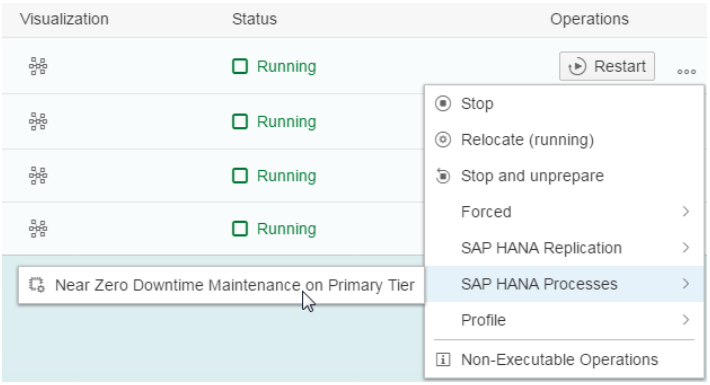
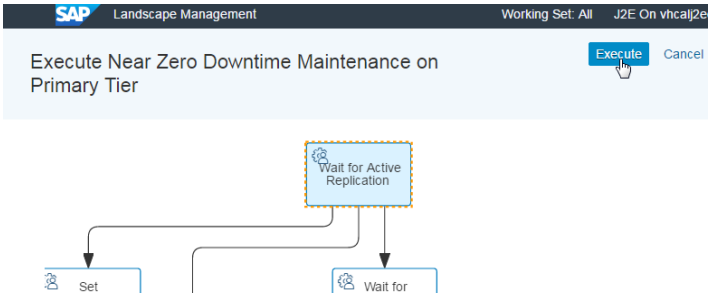
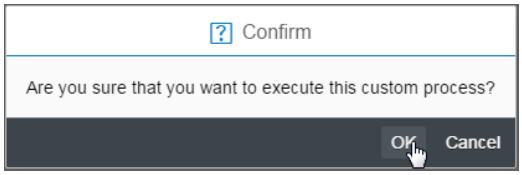
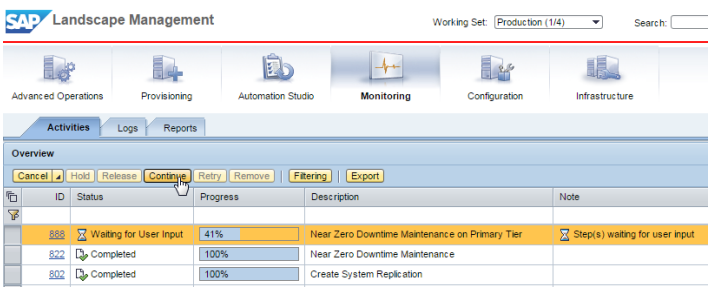
Explanation	Screenshots
6. Choose ⋯ in the line *EHP System Database (ABAP): Secondary (Tier 2) MASTER : HANA 00, erpmstsite-b.example.com*.	
7. Choose *SAP HANA Processes* > *Near Zero Downtime Maintenance*.	
8. Choose *Execute*.	

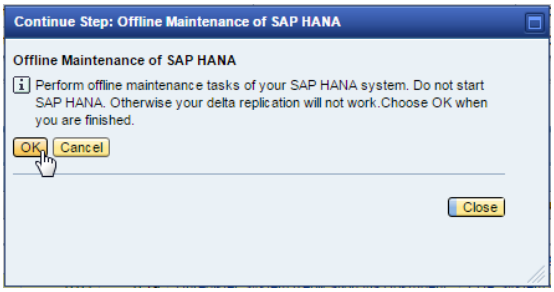
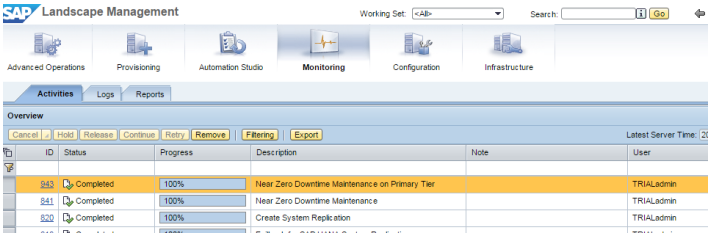
Explanation	Screenshots
9. Choose *OK*.	
Afterwards you are redirected to the screen *Operations and Maintenance* > *Operations*. 10. Choose *Navigate to activity.*	
Afterwards you are redirected to the screen *Monitoring* > *Activities*. The process will run until the step where the Maintenance can 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 *Continue*.	
12. Choose *OK*.	

Explanation	Screenshots
13. Wait for the activity to be `Completed`.	

8.3 SAP HANA Near Zero Downtime Maintenance on Primary Tier

14. Choose *Operations and Maintenance* > *Operations*.	
15. Choose *4 Instances* in the line *ERP: NetWeaver ABAP 7.40, sapdbehp.example.com*.	
16. Choose ... in the line *EHP System Database (ABAP): Primary (Tier 1) MASTER : HANA 00, sapdbehp.example.com*.	

Explanation	Screenshots
17. Choose *SAP HANA Processes* > *Near Zero Maintenance on Primary Tier.*	
18. Choose *Execute.*	
19. Choose *OK.*	
Afterwards you are redirected to the screen *Operations and Maintenance* > *Operations*. 20. Choose *Navigate to activity.*	
Afterwards you are redirected to the screen *Monitoring* > *Activities*. 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.	

Explanation	Screenshots
In your case we just go on with the next steps. 21. When you finished the maintenance work select the line. 22. Choose *Continue*.	
23. Choose *OK*.	
Wait until the activity is in status Completed.	

9 Automation Studio

Scenario

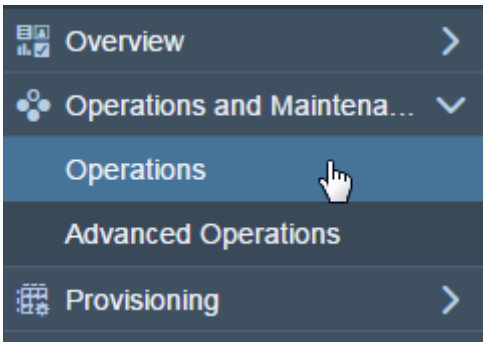
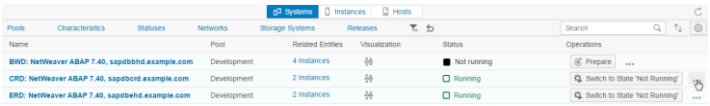
In the following exercise you will learn how to create operation templates and schedule their execution. Afterwards you want to create a custom process and execute it.

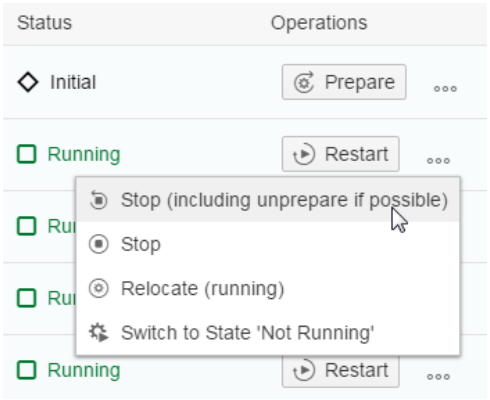
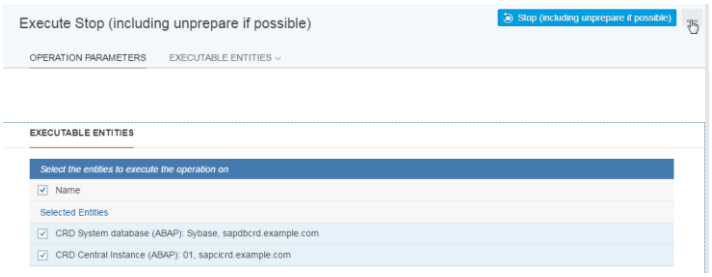
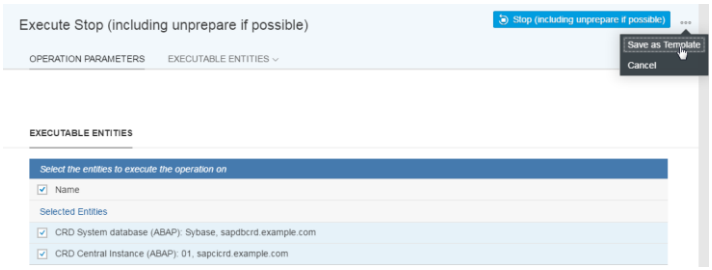
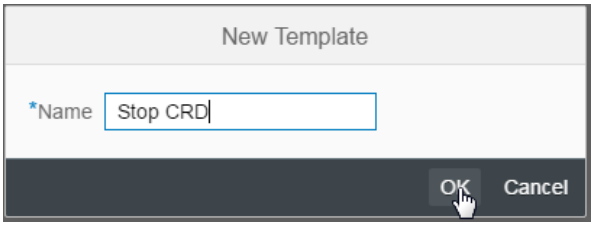
- Operation templates provide the possibility to automate and schedule operations.
  For more information, see SAP Help Portal at:
  http://help.sap.com/static/saphelp_lamaent30/en/70/75bd286b964dc4b6a70c56f884ca4b/frameset.htm
- Custom processes provides a complete landscape view across infrastructure 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

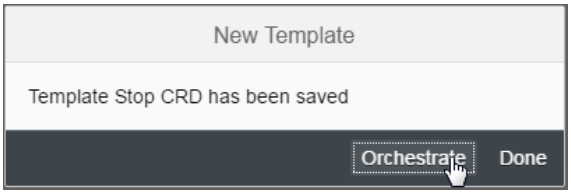
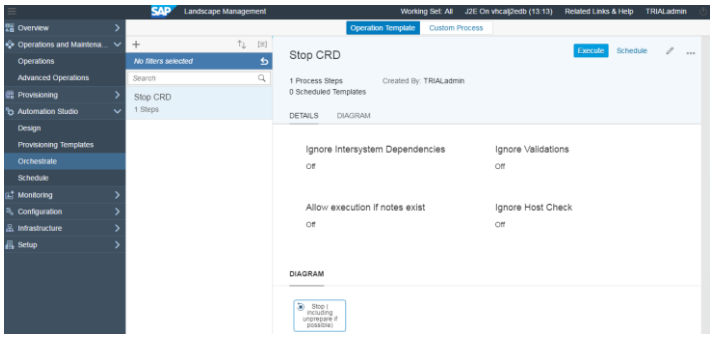
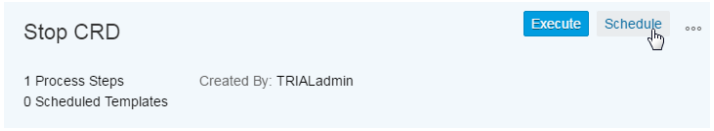
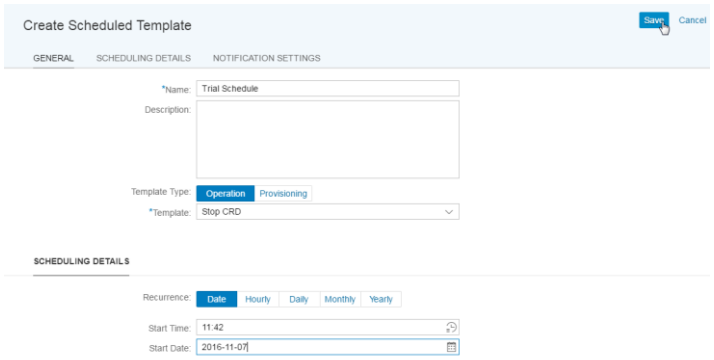
Description

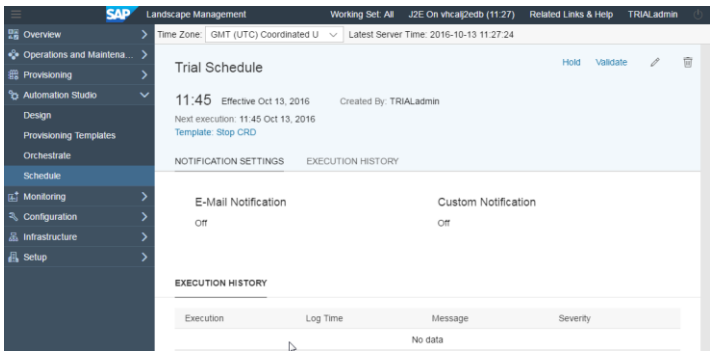
- You create an operation template and schedule it.
- You create a custom process and execute it.

Scenario Steps

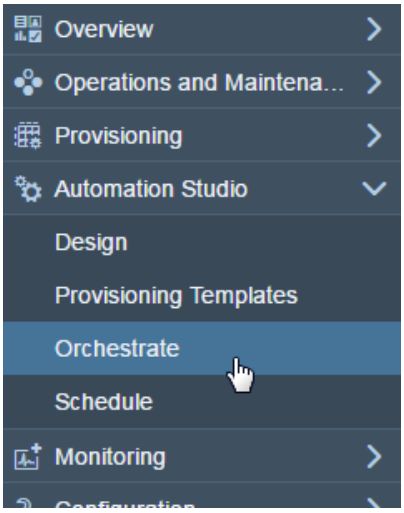
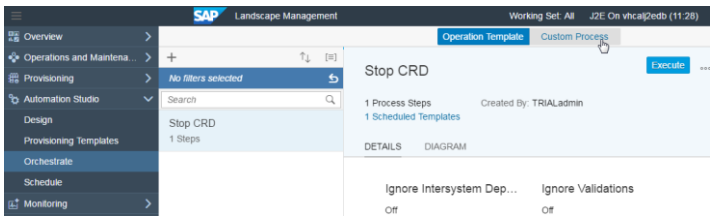
Explanation	Screenshots
9.1 Operation Template	
1. Choose *Operations and Maintenance* > *Operations*.	
2. If not already selected change the Working Set to *All* (for more information, see chapter '4.3 Working Set').	
3. Choose ... in the line *CRD: NetWeaver ABAP 7.40, sapdbcrd.example.com*	

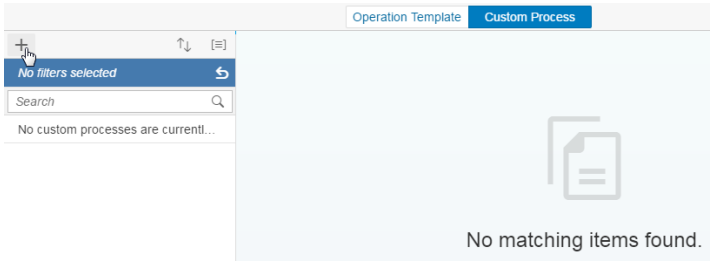
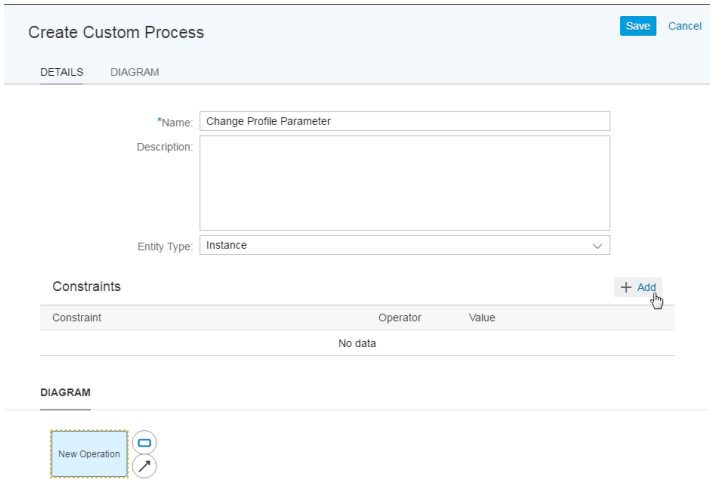
Explanation	Screenshots
4. Choose *Stop (including unprepare if possible)*.	
5. Choose ••• in the upper right.	
6. Choose *Save as Template*.	
7. In the dialog box *New Template*, provide the following values: ○ Name: `Stop CRD` 8. Choose *OK*.	

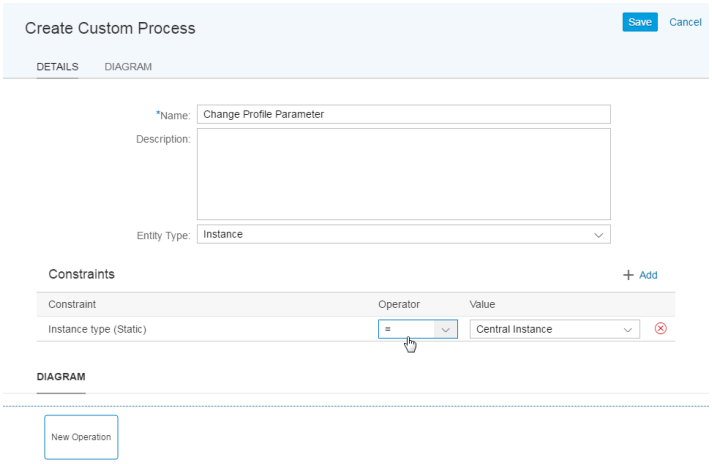
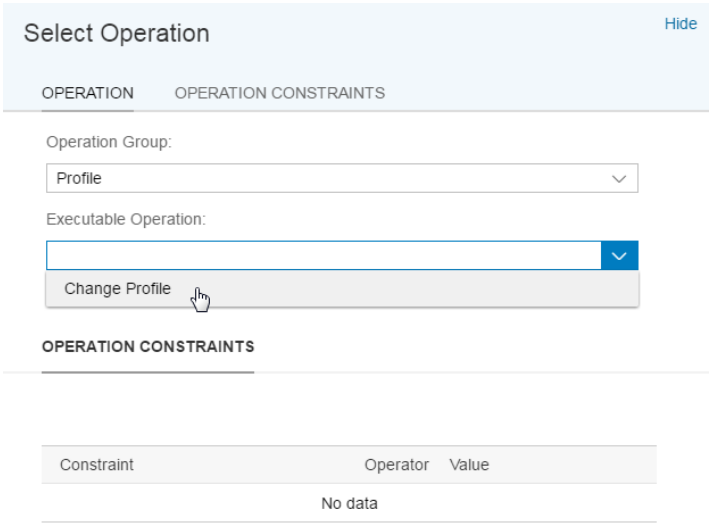
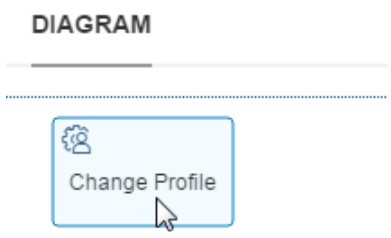
Explanation	Screenshots
9. In the dialog box *New Template*, choose *Orchestrate*.	
Afterwards you are redirected to the screen *Automation Studio* > *Orchestrate*.	
10. Choose *Schedule* in the upper right. **Note** In case Schedule is not displayed, select the ... before.	
11. Change the following values: ○ Name: **`Trial Schedule`** 12. Choose *Save*. **Note** The Template is automatically selected.	

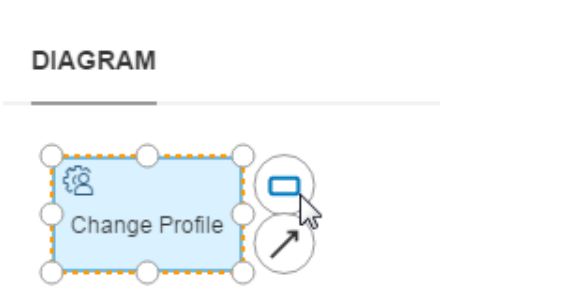
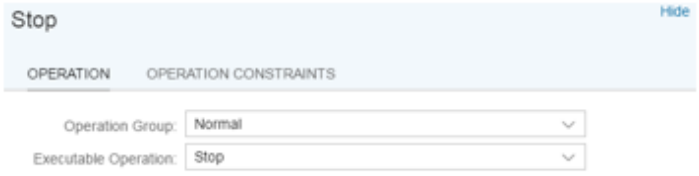
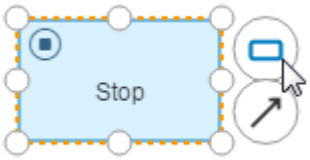
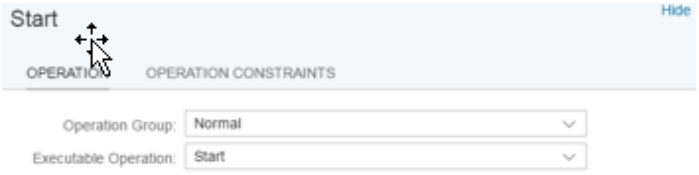
Explanation	Screenshots
Afterwards the Operation Template is scheduled and you are redirected to the screen *Automation Studio* > *Schedule*. 13. Optional step: Wait until the scheduled time is reached and the template is executed successfully.	

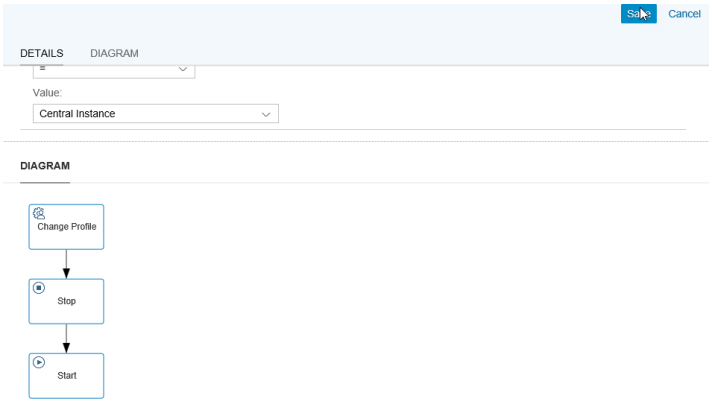
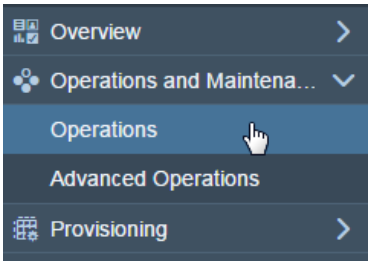
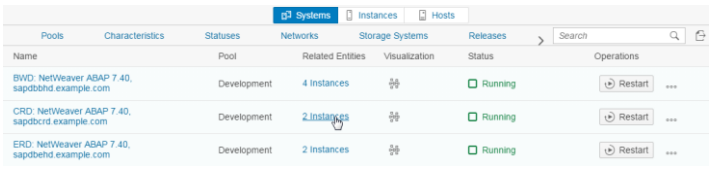
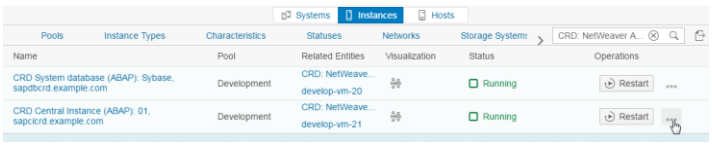
9.2 Custom Process

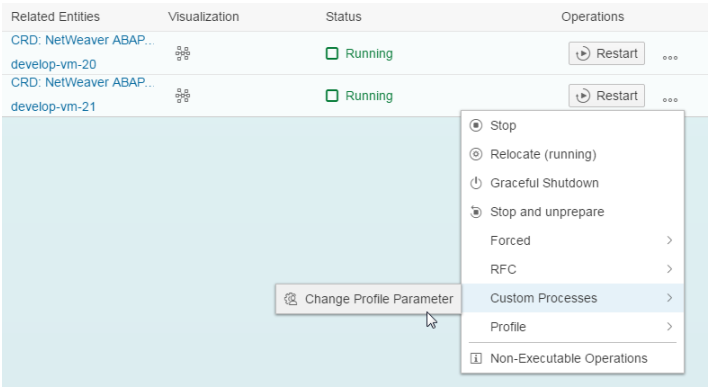
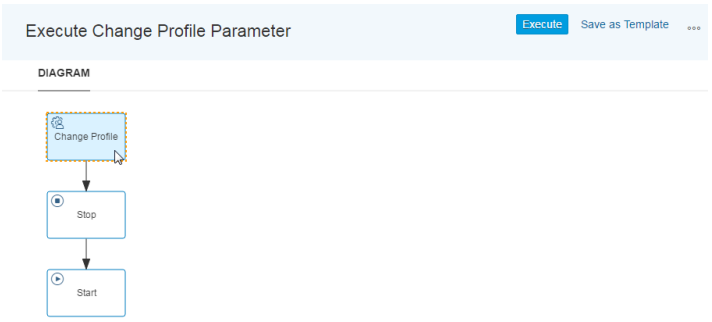
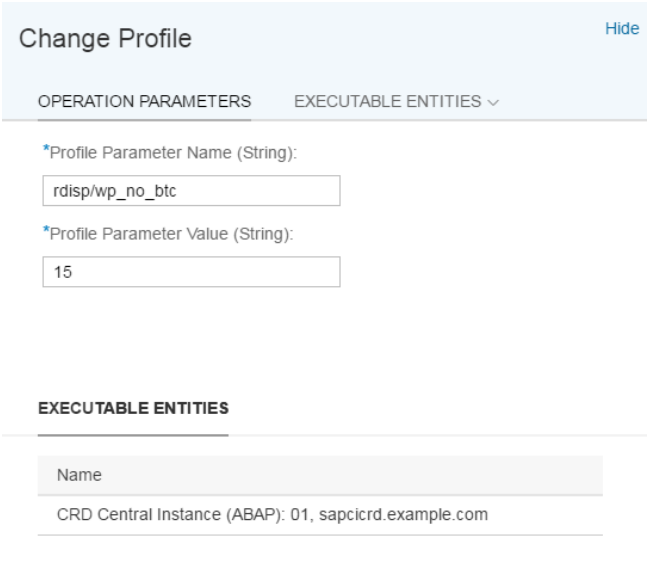
1. Choose *Automation Studio* > *Orchestrate*.	
2. Choose *Custom Process* in the upper middle.	

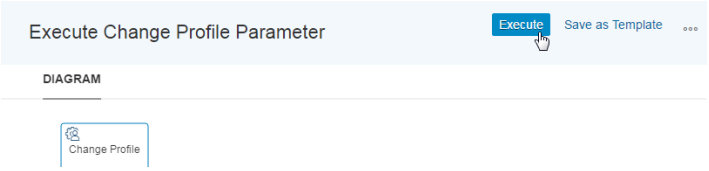
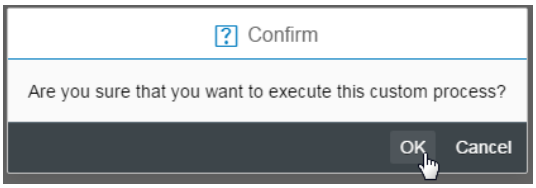
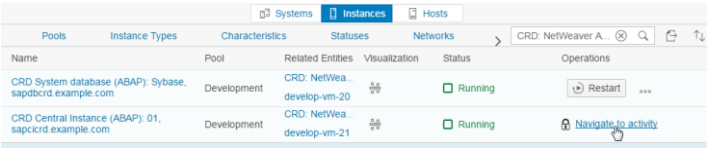
Explanation	Screenshots
3. Choose the + sign to create a new Custom Process.	
4. Change the following values: ○ Name: **Change Profile Parameter** ○ Entity Type: **Instance** 5. Choose *Add*.	
6. In the dialog box *Select Constraint Type*, search for the following value: ○ Search: **Instance type (Static)** 7. Choose that line.	

Explanation	Screenshots
8. Change the following values: ○ Operator: **=** ○ Value: **Central Instance**	
9. Change the following values the Operation details: ○ Operation Group: **Profile** ○ Executable Operation: **Change Profile**	
10. Make sure the operation Change Profile is selected.	

Explanation	Screenshots
11. Choose the sign to create a new operation.	
12. Change the following values the Operation details: ○ Operation Group: **Normal** ○ Executable Operation: **Stop**	
13. Choose the operation by clicking on it. 14. Choose the sign to create a new operation.	
15. Change the following values the Operation details: ○ Operation Group: **Normal** ○ Executable Operation: **Start**	

Explanation	Screenshots
16. Choose *Save*.	
17. Choose *Operations and Maintenance* > *Operations*.	
18. Choose *2 Instances* in the line *CRD: NetWeaver ABAP 7.40, sapdbcrd.example.com*.	
19. Choose ... in the line *CRD Central Instance (ABAP): 01, sapcicrd.example.com*	

Explanation	Screenshots
20. Choose *Custom Processes* > *Change Profile Parameter*.	
21. Choose *Change Profile.*	
22. Change the following values the Operation details: ○ Profile Parameter Name (String): **`rdisp/wp_no_btc`** ○ Profile Parameter Value (String): **`15`** **Note** This chosen profile parameter is just an example. You can use any String.	

Explanation	Screenshots
23. Choose *Execute*.	
24. Choose *OK*.	
The custom operation is executed. 25. Optional step: Choose *Navigate 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.

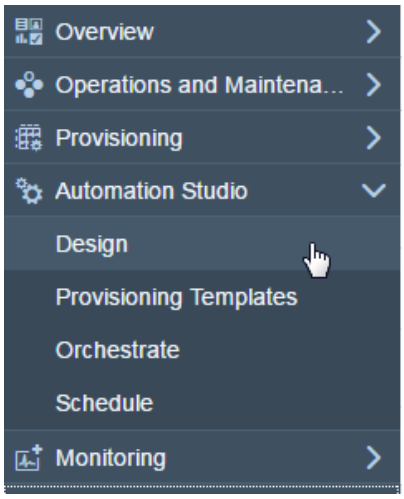
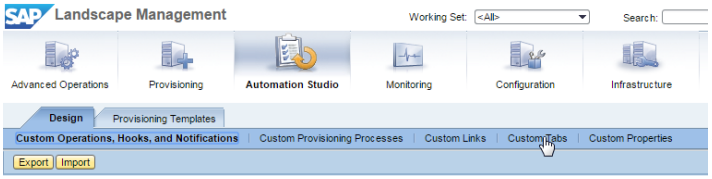
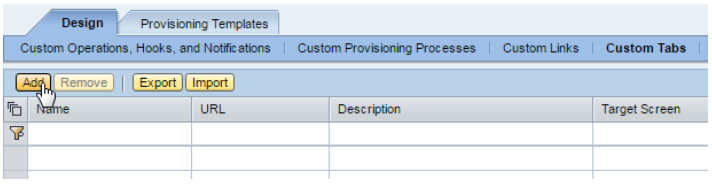
By using the features described in this section, you will verify how simple it is to create Custom Navigation Pane Entries and custom links.

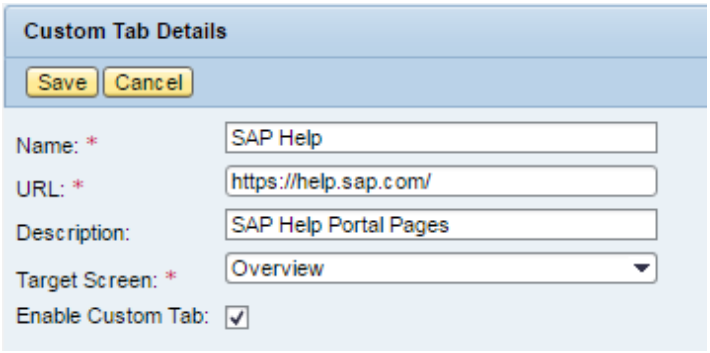
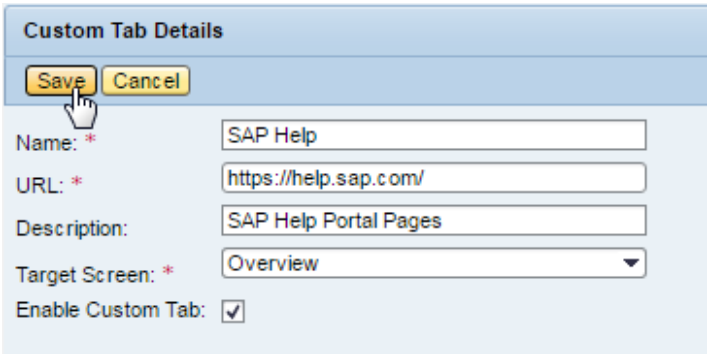
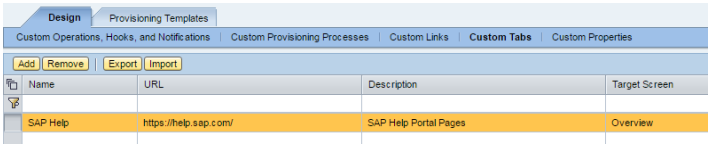
- Custom Navigation Pane Entries (Custom Tabs) help you view external applications or files within SAP Landscape Management.
  For more information, see SAP Help Portal at:
  http://help.sap.com/static/saphelp_lamaent30/en/36/c226476db84f8495947c13b57f8382/frameset.htm
- Custom Links help you invoke/launch 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/03ea877b3721e8e10000000a42189e/frameset.htm

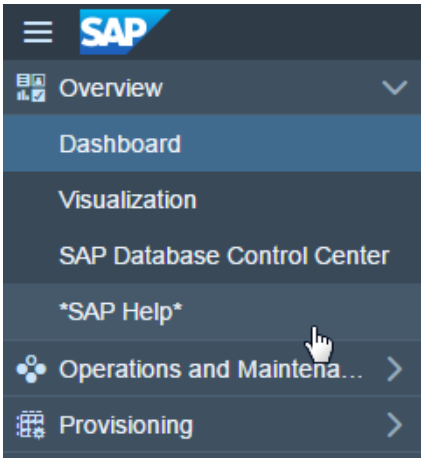
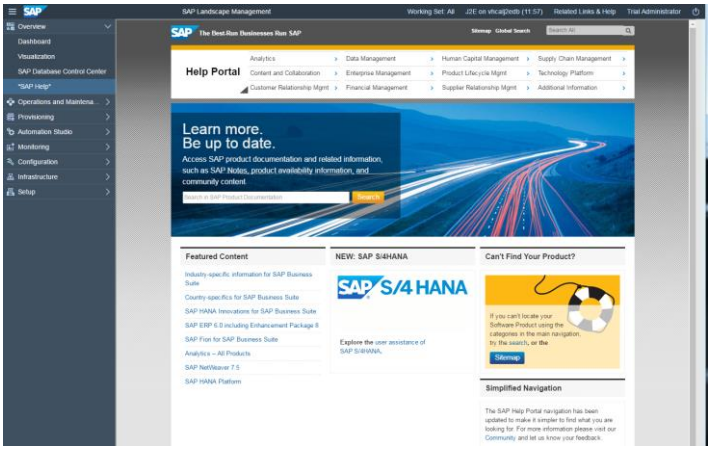
Description

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

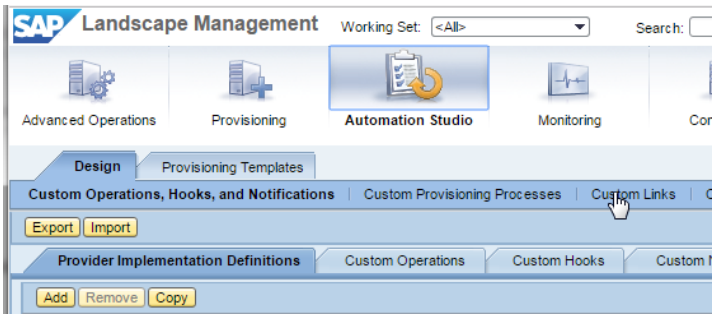
Scenario Steps

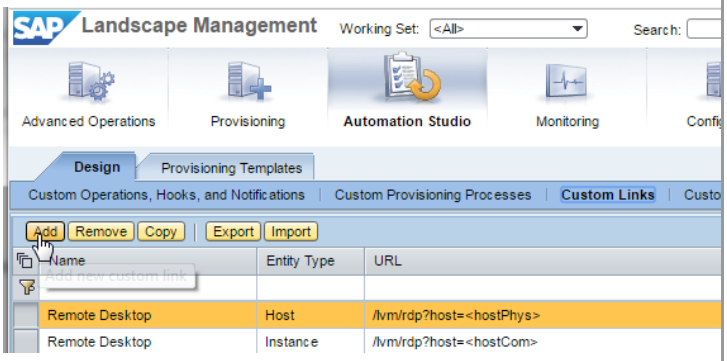
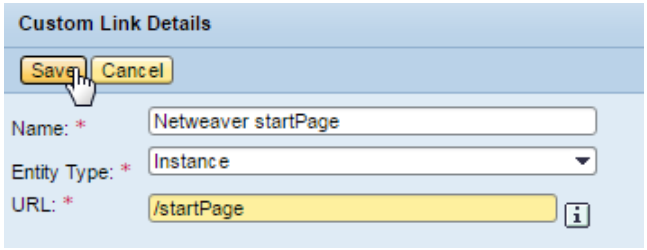
Explanation	Screenshots
11.1 Custom Navigation Pane Entries (Custom Tabs)	
For the following steps please ensure that you are logged in as user **TRIALadmin**. 1. Choose *Automation Studio* > *Design*.	
For the following steps please ensure that you are logged in as user **TRIALadmin**. 2. Choose *Custom Tabs*.	
3. Choose *Add*. **Note** In case the *Add* is not selectable, please ensure that you are logged in as *TRIALadmin*.	

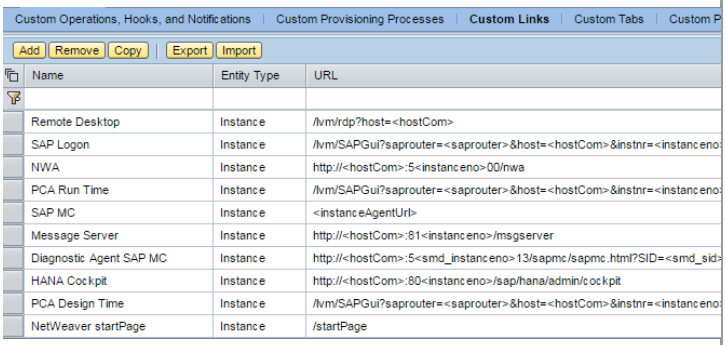
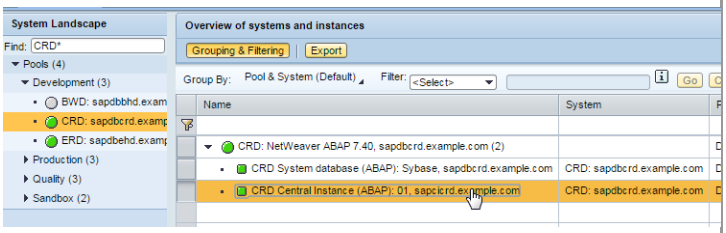
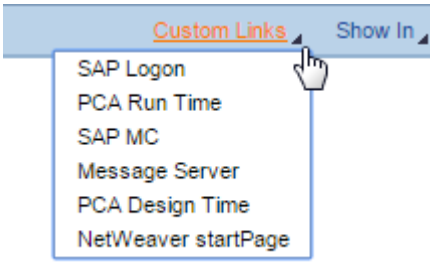
Explanation	Screenshots
You see the screen *Custom Tab Details*. 4. Provide the following values: ○ Name: **SAP Help** ○ URL: **https://help.sap.com/** ○ Description: **SAP Help Portal Pages** ○ Target Screen: **Overview** ○ Enable Custom Tab: **Checked** **Note** The *Enable Custom Tab* checkbox is selected by default. If the checkbox is deselected, the custom tab is not visible in the specified target screen.	
5. Choose *Save*. **Note** You can create Custom tabs for any URL, which may be relevant for the daily work.	
You see the newly created custom tab in the table. **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.	

Explanation	Screenshots
The changes take effect when you login the next time or when you refresh your browser session manually. 6. Logoff and Login -or- refresh your browser session by either pressing F5 or choose the refresh browser button on the title bar. 7. Navigate to *Overview* > *SAP Help*.	
The changes take effect when you login the next time or when you refresh your browser session manually.	

11.2 Custom Links

For the following steps please ensure that you are logged in as us user **`TRIALadmin`**. 1. Navigate to *Automation Studio* → *Design* → *Custom Links*	

Explanation	Screenshots
2. Choose *Add*.	
3. You see the screen *Custom Link Details*. Provide the following values: ○ Name: **`NetWeaver startPage`** ○ Entity Type: **`Instance`** ○ URL: **`/startPage`** 4. Choose *Save*. **Note** You can create custom links for any URL, which may be relevant for the daily work. 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 icon. It is possible to add constraints which define when and for which instances or hosts this link can be opened.	

Explanation	Screenshots
Now you see the newly created custom link in the overview table.	
5. Navigate to *Advanced Operations* → *Systems*. 6. Select the central instance for system `CRD` under the *Development* pool.	
On the same screen below, you see a tab *Instance Details*. 7. Choose *Custom Links*. 8. From the dropdown menu, select the newly created custom link called *NetWeaver startPage*.	

Explanation	Screenshots
The start page of Net Weaver opens in a new window. **Note** Perhaps you need to check the PopUp-Blocker settings in your browser to enable this page to be displayed.	

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.

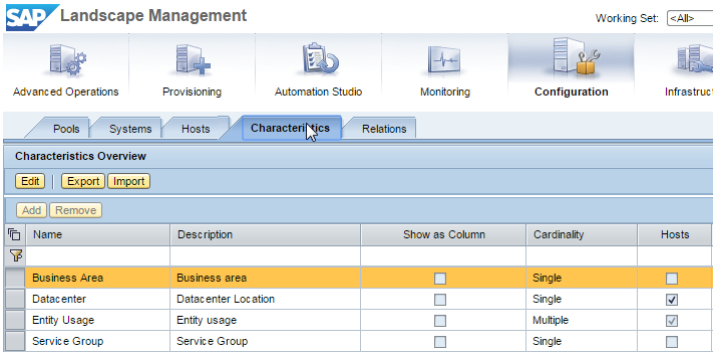
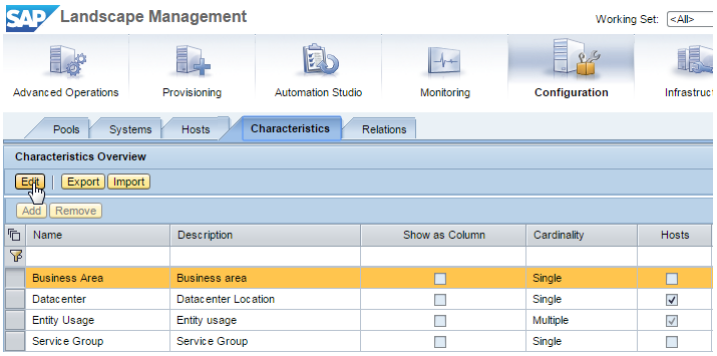
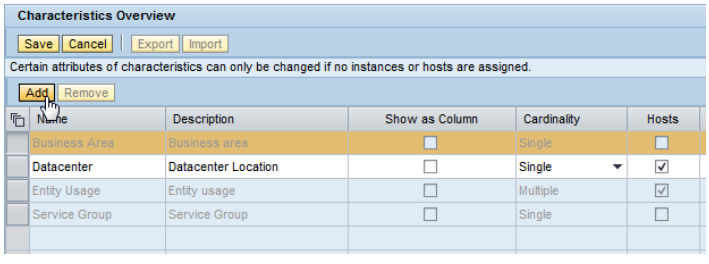
You can also assign different colors to each characteristic to improve the visualization in your landscape.

For more information, see SAP Help Portal at:
http://help.sap.com/static/saphelp_lamaent30/en/4e/04577f545200aae10000000a42189e/frameset.htm

Description

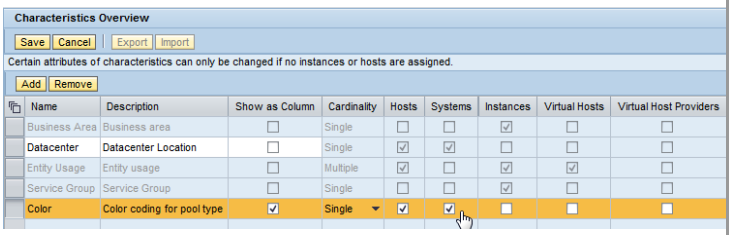
- You create customizable characteristics.

Scenario Steps

Explanation	Screenshot
# 12.1 Characteristics	
For the following steps please ensure that you are logged in as us user **`TRIALadmin`**. 1. Navigate to *Configuration* → *Characteristics*	
2. In the Characteristics Overview table choose *Edit*.	
3. In the Characteristics Overview table choose *Add*.	

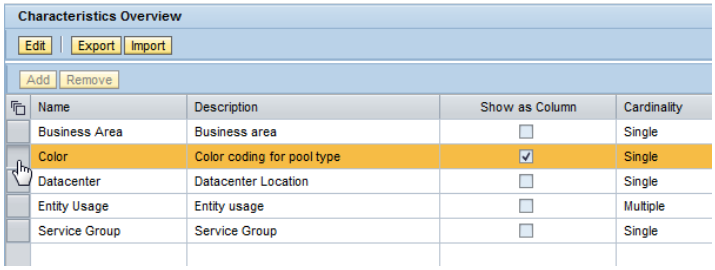
4. Provide the following values:
   - Name: `Color`
   - Description: `Color coding for pool type`
5. Select the following check boxes:
   - Show as Column
   - Hosts
   - Systems

   > **Note**
   >
   > Cardinality:
   >
   > Single: assign entities to a single characteristic value
   >
   > Multiple: assign entities to multiple characteristic values of the characteristic, choose Multiple.
6. Choose *Save*.

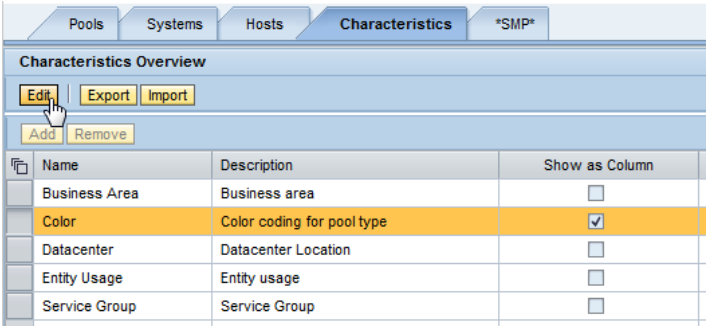


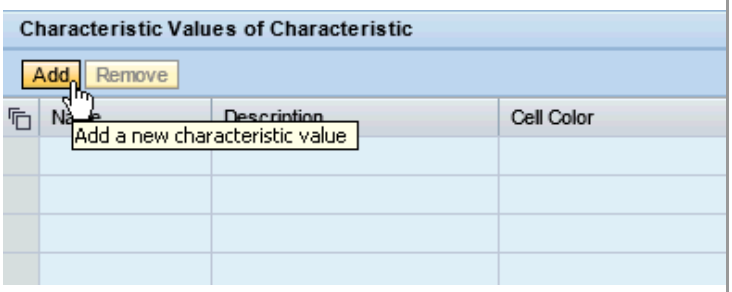
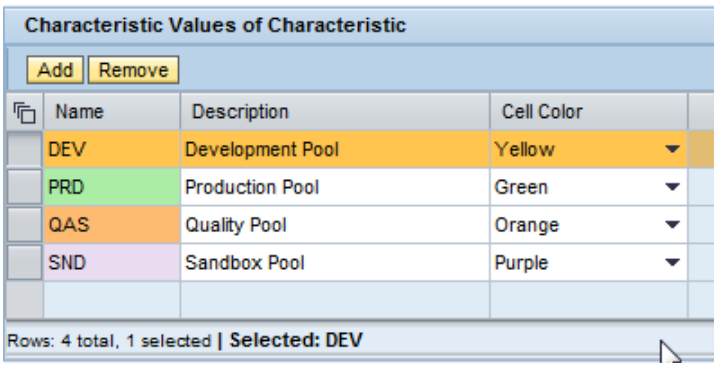
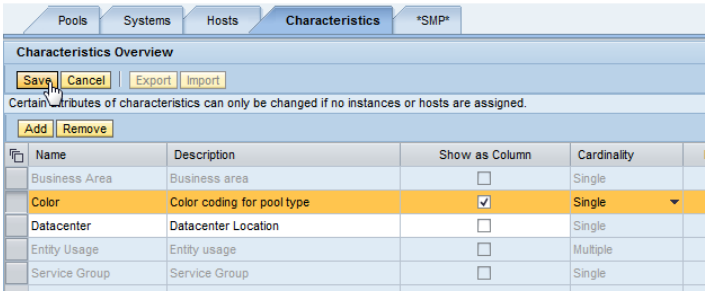
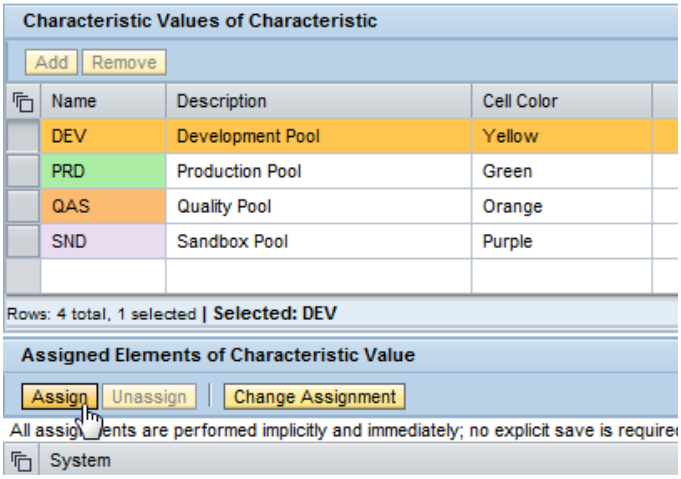
Now you will see the new entry in the Characteristic Overview table.

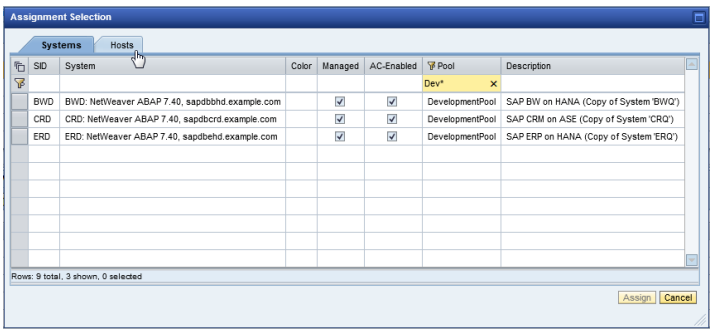
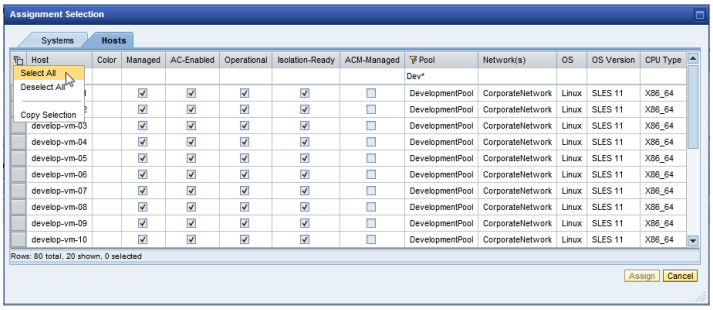
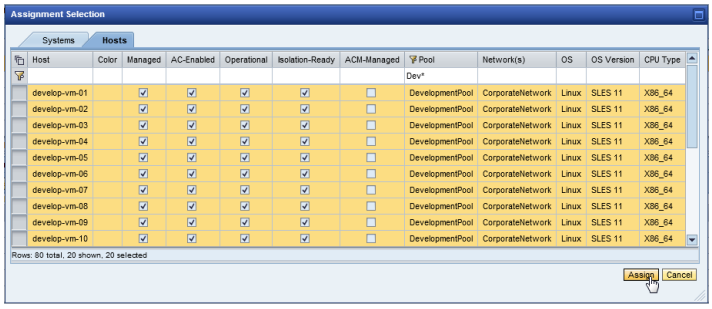
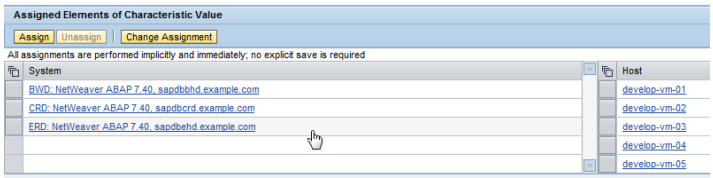
7. Choose the new entry line.



8. Choose *Edit*.

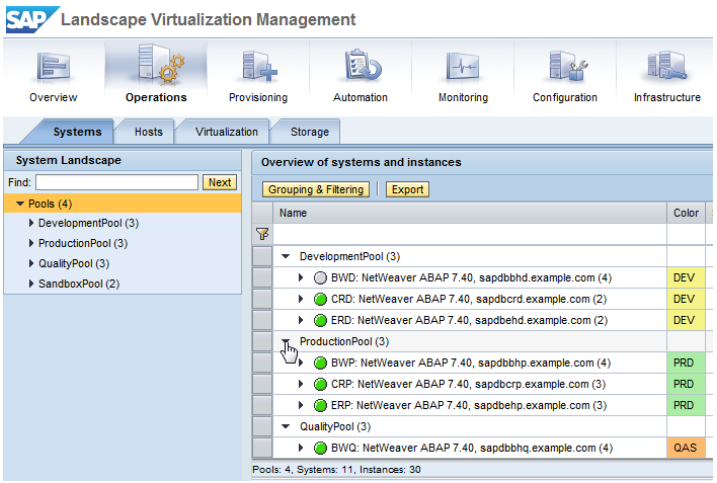


9. To enter new values, choose *Add* in the table below *Characteristic Values of Characteristic*.	
10. Provide the following values for Development, Production and Quality pools as shown in the picture: • Name • Description • Cell Color	
11. Choose *Save*.	
12. Select the newly created characteristic *DEV*. 13. To assign systems from the respective pools, choose *Assign*.	

14. In the new dialog box, select all the systems in the *Development* pool (i.e. `BWD`, `CRD` and `ERD`) manually or via setting an appropriate filter for this pool. 15. Navigate to *Hosts* tab.	
16. Select all the hosts in the *Development* pool (i.e. `filter in column Pool for Development and choose Select all`).	
17. Choose *Assign*.	
Now you see the assigned systems for the characteristic value “DEV” in the table below called “Assigned Elements of Characteristic Value”. 18. Repeat steps (12) - (17) for the other two characteristic values “PRD” and “QAS” and “SND” accordingly.	

19. Navigate to *Advanced Operations* → *Systems.*
20. Expand all the pools using the "Expand Node" button ▶

You see a new column with the new color coding defined for all the pools at the system level (as shown in the picture).



13 Personalize User Interface

Scenario

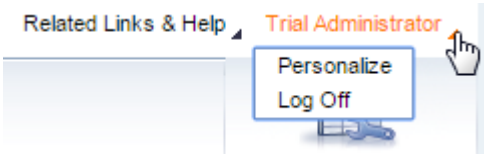
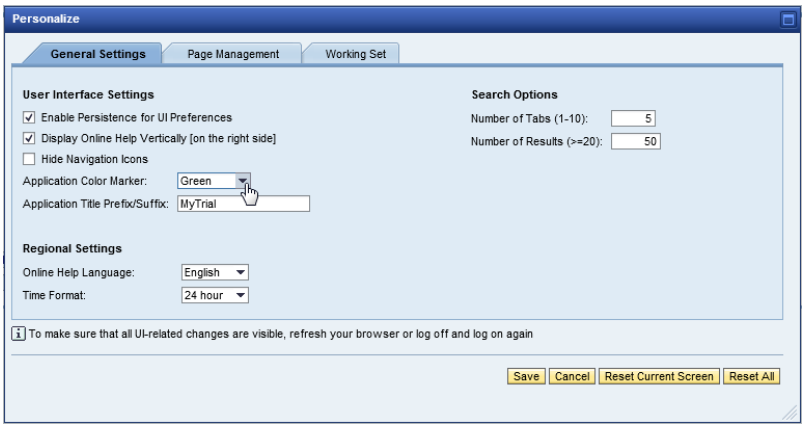
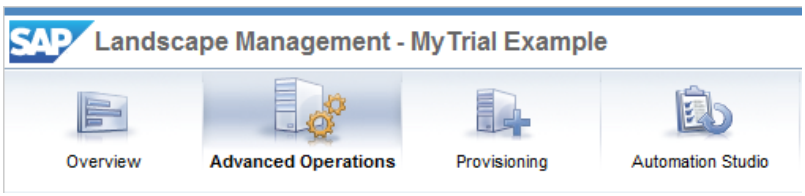
Personalization helps you adjusting basic settings in the SAP Landscape Management user interface according to your preferences.

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

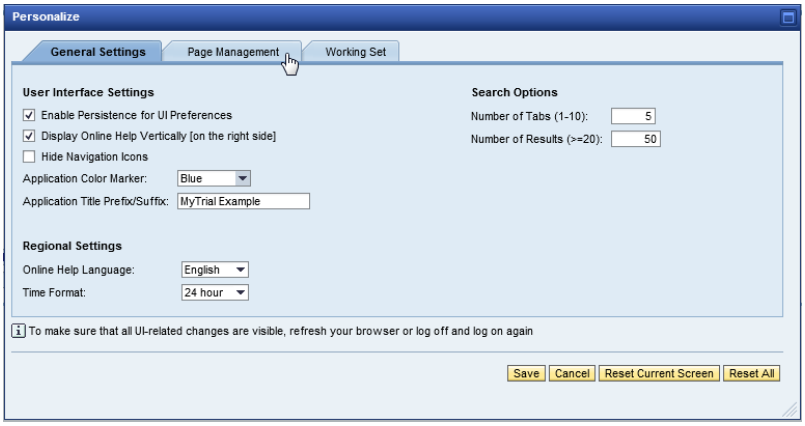
Explanation	Screenshot
13.1 Personalize - General Settings	
Continue on the screen where you ended chapter 12.1 Characteristics. 1. In the Main menu in the top-right corner of the screen, choose *Trial Administrator* → *Personalize*.	
In the appearing dialog box you see several possible settings. 2. Select on the *General Settings* tab 3. Change the *Application Color Marker* to another color (eg. Blue). 4. Change the *Application Title Prefix/Suffix* (eg. MyTrial Example). 5. To save your settings, choose *Save*.	
The Main screen is updated based on your values.	

13.2 Personalize - Page Management

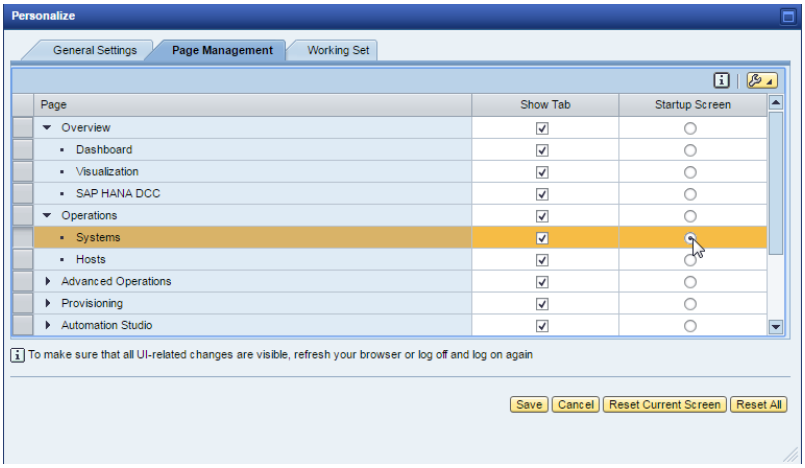
Continue on the screen where you ended chapter 13.1 Personalize - General Settings.

1. In the Main menu in the top-right corner of the screen, choose *Trial Administrator* → *Personalize*.

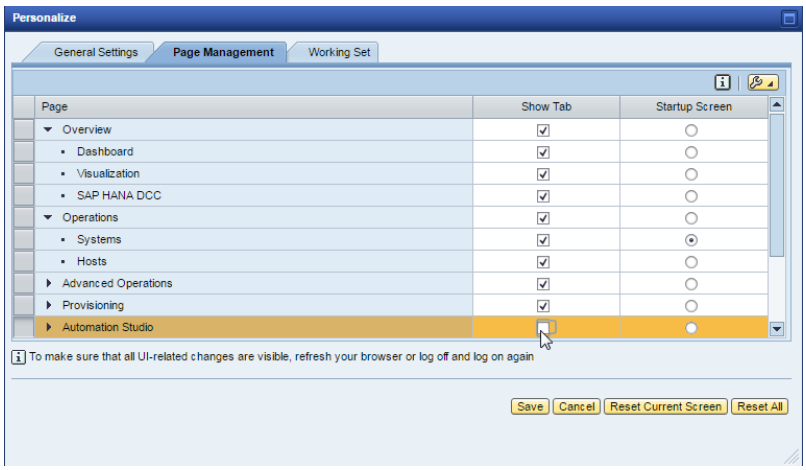
2. Navigate to *Page Management* tab.



3. Expand the node for the *Operations* entry.
4. Select *Systems*.
5. Select the radio button *Startup Screen* for the Systems entry.

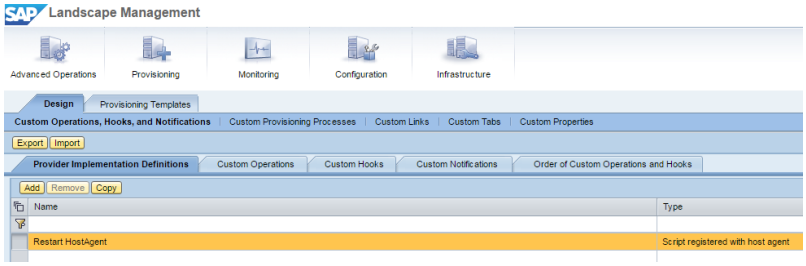


6. Select *Automation Studio*.
7. Deselect the checkbox *Show Tab*.
8. To save your settings, choose *Save*.



9. Refresh your browser session by pressing F5 or use the refresh browser button on the title bar for changes to take effect.

You will notice that the *Systems* tab under *Operations* is now your startup screen and the *Automation* tab from the main menu disappeared.



13.3 Personalize - Working Set

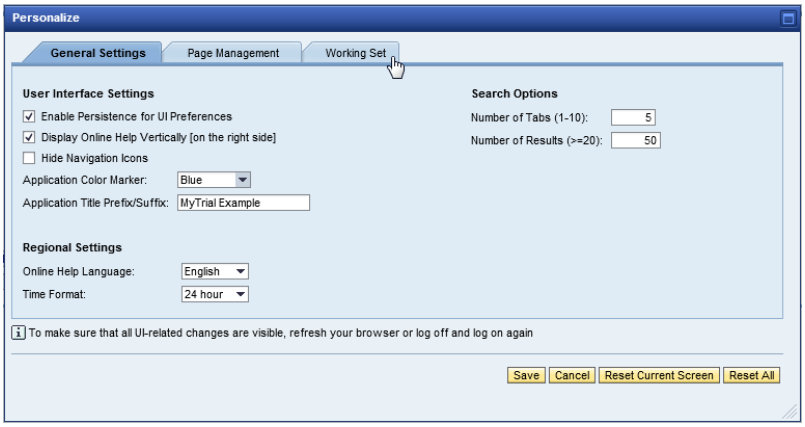
Continue on the screen where you ended chapter 13.2 Personalize - Page Management.

1. In the Main menu in the top-right corner of the screen, choose *Trial Administrator* → *Personalize*.

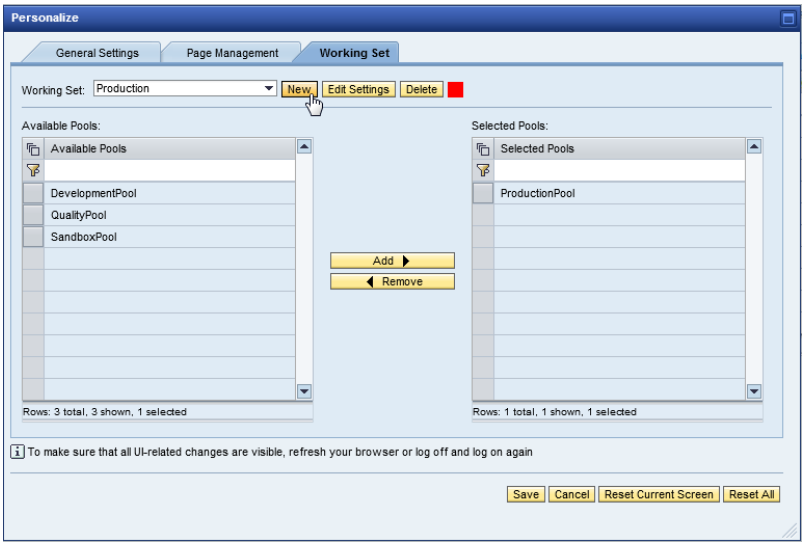
2. Navigate to *Working Set* tab.

You can now modify the existing working set or create a new one.

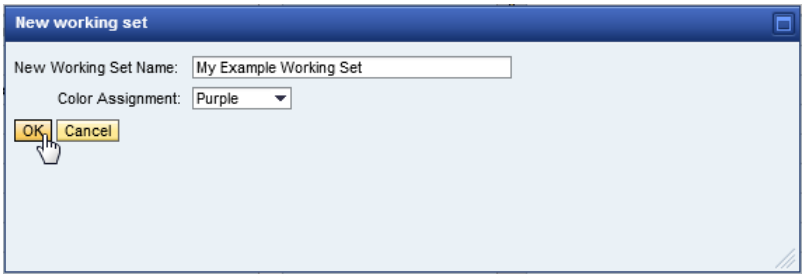
> **Note**
>
> Only the pool(s) available for the user logged on are displayed.

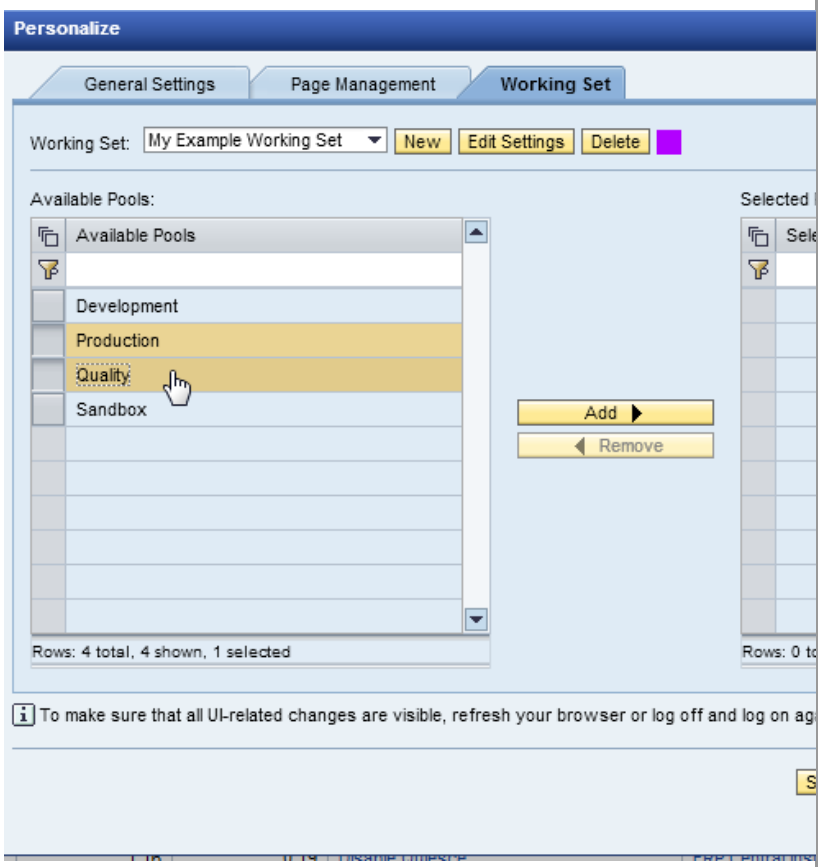
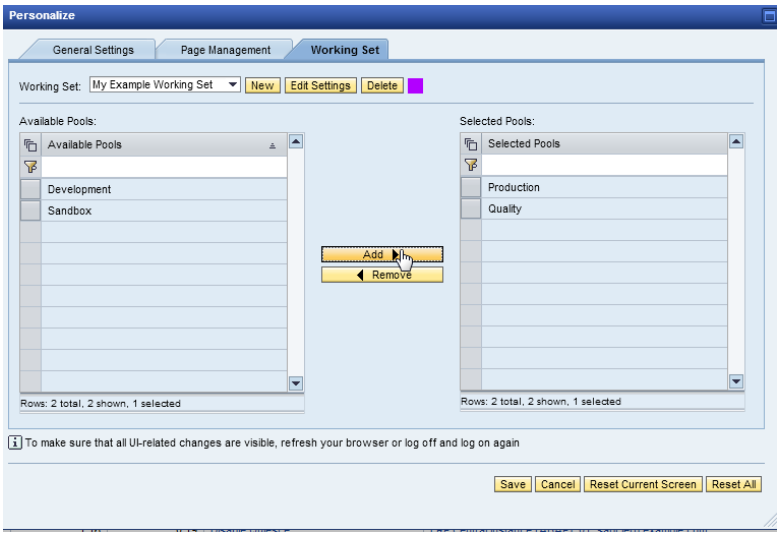


3. To create a new working set, choose *New*.



4. Enter a name for the new working set.
5. Choose a Color Assignment.
6. Choose *OK*.

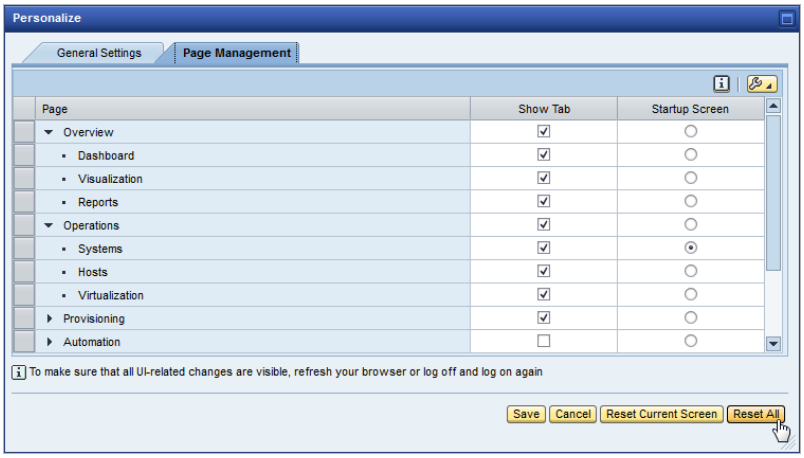


7. Select one or more lines in the Available Pools table 8. Choose *Add*.	
9. To save your settings, choose *Save*.	

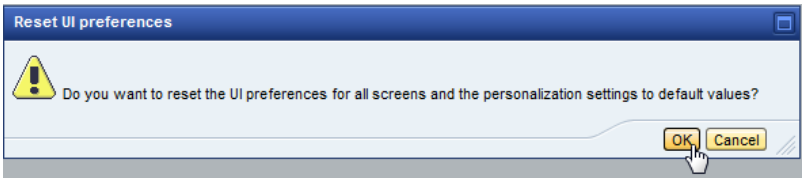
13.4 Reset Personalization [optional]

Optional step: If you like to reset the UI preferences, do the following:

1. In the Main menu in the top-right corner of the screen, choose *Trial Administrator* → *Personalize*.
2. Navigate to *Page Management* tab.
3. Choose *Reset All*.



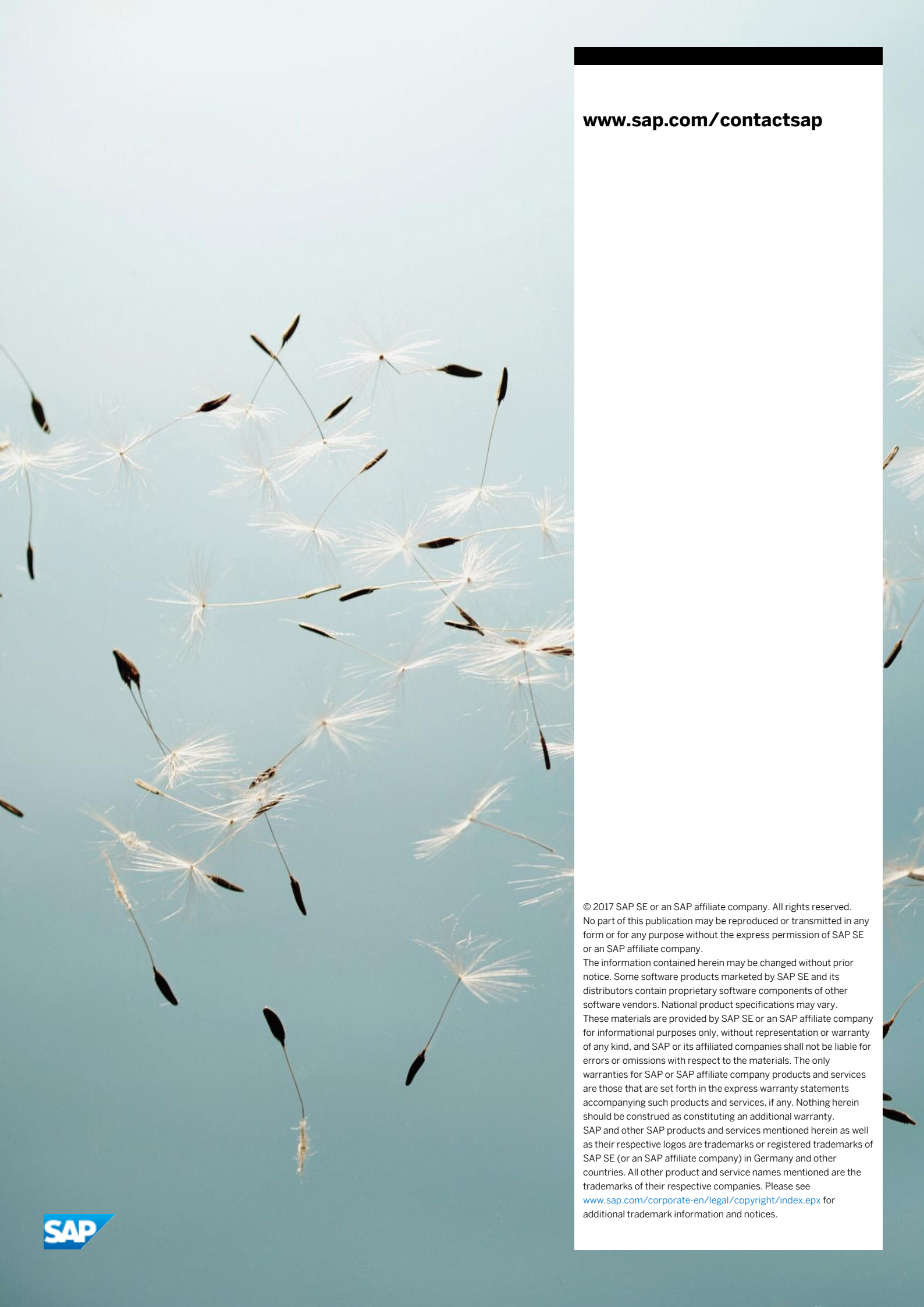
4. To confirm your changes, choose *OK*.
5. Refresh your browser session by pressing F5 for changes to take effect.



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