z/OSMF Software Deployment Hands-On Lab

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Agenda

• Lab Objective
• z/OSMF Software Deployment Overview
• Lab Environment
• Lab Exercises
  1. Logon to z/OSMF and invoke Software Management
  2. View existing Software Instances, define a new software instance
  3. Deploy the MASTER SMP/E V3.6 WITH PTFS software instance to a new software instance
  4. Configure your deployment
  5. Create deployment jobs and review deployment summary
  6. Use ISPF to view deployment jobs
  7. Complete the deployment
  8. View the completed deployment
Lab Objective

- Use z/OSMF to deploy the master software instance containing SMP/E V3.6 with maintenance installed to a new software instance
- Gain familiarity in using the z/OSMF application
  - Some of the tasks performed in the Lab are to demonstrate z/OSMF and Software Management capabilities, and do not necessarily represent the most efficient way to use the application
- At any time you can use the Help facilities by clicking on the link in the upper right hand corner of the screen
- You are encouraged to follow the instructions provided, but you can choose your own objectives and configuration options when using the dialog
  - Please note that the closer you follow the instructions, the easier it will be to assist you if you go astray
  - The handout contains screen captures and guidance to lead you through the lab
- Please note: Do NOT use the Browser BACK button to go to the prior screen!!!
Software Deployment

- **Software Deployment is a z/OS Management Facility (z/OSMF) plug-in application**
  - Web-based application.
  - User interaction is via a browser on a workstation.
  - z/OSMF and Software Deployment (now called Software Management) will be active on one system in a sysplex, allowing access to shared DASD.
    - Locally, either on a single system or system-to-system within a sysplex.
    - Remotely, system-to-system across a network and multiple sysplexes.
Basic Deployment Operation Flow

1. Identify a Source Software Instance.
2. Check for missing requisites and possible regressions
3. Select the deployment objective
4. Create a Deployment that describes where the source data sets will be copied.
5. Generate Deployment Jobs.
6. Execute generated Jobs to copy the source and create (or replace) a target Software Instance.

Deployment Mapping Instructions

- Target Zone DB2V8T → DB2V9T
- Volume VOL81T → VOL91T
- DB2.V9 data sets → cataloged in ICFCAT,DB2.UCAT01

Software Instance
- SMPCSI Target and Dlib data sets

Target
- SMPCSI Target and Dlib data sets

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval
NO DASD is shared between SYSPLEX A, SYSPLEX B, and SYSPLEX C.
Lab SMP/E Environment

ZOSMF.SWDEPLOY.GLOBAL.CSI

GLOBAL CSI

- z/OS V1.12 CSI
- TGTZ12 (operating system)
- SMP/E V3.6 CSI
- TSMP36 (prior level)
- SMP/E V3.6 with PTFs CSI
- TSMP36P (Source)
- Deployment target SMP/E V3.6
- TSMP36N (Target)

MFUSRnn.SMPELAB.GLOBAL.CSI

GLOBAL CSI

- TARGET CSI
- TARGET
- DLIB CSI
- DLIB

SMP/E V3.6 with PTFs CSI
Step 1: Logon to z/OSMF and invoke Software Management
Starting the Lab – Log in to z/OSMF

• Launch the Mozilla Firefox browser
  • Note: If browser asks to add exception for certificate, do so
• Point Browser to z/OSMF – enter the following url
  • https://mvs1.centers.ihost.com:32208/zosmf/
  • Note: Ignore and close the warning message
    • IZUG809W Unsupported Web browser version or level found: "3.6.13 (.NET CLR 3.5.30729)". Some z/OSMF functions might not be available if you continue.
• Login with SHARE userid/pw as provided by the lab instructor.
  • Each workstation has been assigned a unique z/OS User ID
    • MFUSRnn (where nn is 01 - 20)
    • Password: to be provided
• Each User ID has been authorized to all the z/OSMF applications (Plug-ins)
• None of the users are authorized to log on TSO
To log in you will need a z/OS user ID that has been defined and enabled for z/OSMF (and the WebSphere® runtime environment)

Guidance is provided.

Secure connection to z/OS host

Secure authentication to z/OS host using regular z/OS User ID and password. Enter the user ID and password that you were given
IBM z/OS Management Facility provides a framework for managing various aspects of a z/OS system through a Web browser interface. By streamlining some traditional tasks and automating others, z/OSMF can help to simplify some areas of z/OS system management.

To learn more about z/OSMF, visit the links in the Learn More section.

To start managing your z/OS systems, select a task from the navigation area.

Learn More:
- What’s New
- z/OSMF tasks at a glance
- Getting started with z/OSMF
Click on Software Management

You can also click on About or a “Learn More” topic
Step 2: View existing Software Instances, define a Global zone, and a software instance
Software Management

Use this task to view details about your software inventory, including related products, features, FMIDs, data sets, deployments, and SYSMODs. Learn more.

**Software Instances**
Define your software to z/OSMF; deploy software; generate reports about your software.

**Products**
View a consolidated list of the products included in each software instance.

**Deployments**
Deploy a software instance, and manage existing deployments.

**Categories**
Create new categories for your software instances and deployments, and manage existing categories.

**Settings**
Select the time zone in which to display date and time data. Indicate whether to display or suppress information messages.

Click on Software Instances
You will see a list of software instances already defined

Source Software Instance for Lab deployment

Other Software Instance used to check dependencies

“Extra” Software Instance created from the Lab

Software Instance created for the Software Management Lab
Now, you’ll see how to add a software instance

After reading, click Actions, then Add...
A wizard will guide you through the steps to define this software instance.
Enter Software Instance Name
- Use your User ID
- Use underscore (“_”) instead of blanks
- Optionally enter a description

Note: This sample software instance is not used for the lab deployment. It is defined in the Lab to demonstrate how to use the wizard to define an existing software instance to z/OSMF.

After entering, click Next
Now, you see a list of SMP/E GLOBAL zone CSI data sets defined to z/OSMF Software Management. You will use the wizard to add a new CSI data set.
Click Actions, then Add...
Select Local

Then enter MFUSRnn.SMPELAB.GLOBAL.CSI

Optionally enter a description

Then click OK
See that the Global zone CSI on the local system was added to the table and is selected.

Then click Next.
Software Management went out the GLOBAL zone CSI data sets and identified possible target zones to be used in this software instance.

Select the target zone called “TARGET”

Then click Next
Software Management allows you to associate the software instance with a “Category” as a means of grouping software instance. In this lab you will NOT be using Categories.

So just click Next
Software Management allows you to associate one or more non-SMP/E managed data sets with the software instance. You will now associate a non-SMP/E managed data set with your software instance.

Click Actions, then Add...
Enter MFUSRnn.SPF.ISPPROF

Do NOT enter a volume

Then click OK
See that the non-SMP/E managed data set was added to the table.

Then click Next.
Software Management produces a summary of the software instance

After reviewing the summary, click Finish.
You will see a pop-up window stating that Software Management is retrieving product information for the new software instance.
This ends the portion of creating a software instance for Software Deployment. You won’t use this software instance that you just created in this Lab, but it’s good to know how to do it for your own deployments.

- You can click on the message ID for more details
- You can click on “Close All” to remove the messages
Step 3: Deploy the MASTER SMP/E V3.6 software instance to a new software instance
Click on Deployments
You are creating a new Deployment for the software instance here.

Click on Actions, and then New.
Here is a checklist of all the steps needed to create a new Deployment. You will progress through this checklist, one item at a time.

### Deployment Checklist

To deploy a software instance, complete the checklist below.

<table>
<thead>
<tr>
<th>Progress</th>
<th>Step</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Specify the properties for this deployment.</td>
</tr>
<tr>
<td></td>
<td>2. Select the software instance to deploy.</td>
</tr>
<tr>
<td></td>
<td>3. Select the objective for this deployment.</td>
</tr>
</tbody>
</table>
|          | 4. Check for missing SYSMODs.  
|          | • View missing SYSMOD reports. |
|          | 5. Configure this deployment. |
|          | 6. Define the job settings. z/OSMF creates the deployment summary and jobs.  
|          | • View the deployment summary.  
|          | • View the deployment jobs. |
|          | 7. Specify the properties for the target software instance. |

- Click on the Blue text “1. Specify the properties for this deployment”
- Do NOT click on the arrow
- Hitting Enter (or Ctrl) is NOT the same as clicking on the text
Enter the name for your Deployment
- Use your User ID
- Use underscore (“_”) instead of blanks
- For example, MFUSRnn_SW_Deployment_Exercise
- Optionally, enter a description

Then click OK
Now, you will say the “from” software instance you want to put in your Deployment.

Click on Select the software instance to deploy

Notice that you are automatically positioned at the next step in the checklist
For this Lab, you are going to deploy the software instance that has the product SMP/E V3.6 with PTFs.

**Select the MASTER_SMPE V3.6_WITH_PTFs software instance**

Then click **OK**
Now, you will say the system and the SMP/E CSI where you want to deploy your “from” software instance to.

Follow the checklist, Click on Select the objective for this deployment
Select Deployment Objective

This deployment will create a copy of the source software instance. The resulting copy is referred to as the target software instance. Indicate whether you will:

Objective:
- [ ] Create a new software instance and connect it to the following global zone CSI. Learn more...
- [ ] A new global zone CSI
- [ ] The source global zone CSI
- [ ] Another existing global zone CSI
- [ ] Replace an existing software instance, and connect the new instance to the existing instance’s global zone CSI. Learn more...

Select the system where the target software instance will reside.

- Target system:
  - LOCAL
  - Select...

Select “A New global zone CSI” (the default)

Select “LOCAL” for the Target System

Then click OK
You need to know if there will be any missing SYSMODs where you are deploying to. You’ll do that now.

Follow the checklist, Click on Check for missing SYSMODs

<table>
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<tr>
<td></td>
<td>4. Check for missing SYSMODs:</td>
</tr>
<tr>
<td></td>
<td>• View missing SYSMOD reports.</td>
</tr>
<tr>
<td></td>
<td>5. Configure this deployment.</td>
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<td></td>
<td>6. Define the job settings. z/OSMF creates the deployment summary and jobs.</td>
</tr>
<tr>
<td></td>
<td>• View the deployment summary.</td>
</tr>
<tr>
<td></td>
<td>• View the deployment jobs.</td>
</tr>
<tr>
<td></td>
<td>7. Specify the properties for the target software instance.</td>
</tr>
</tbody>
</table>
Check for Missing SYMOSDs

Welcome

Welcome

Use this wizard to generate reports that help you identify if you are missing any SYMOSDs in your source software instance or an

This wizard guides you through the following steps:

- Select the reports to generate, and select the software instances to include.
- Confirm that you received the latest HOLDDATA.
- Review your selections, and generate the reports.

After reading, click Next
Note: Both Requisite and Regression reports are optional, but recommended

After reading, click Next
You now have to select the software instances that share resources or will be used with the deployed software instance. To do that you will filter the list of software instances.

Click on Filter (under Name)
Enter “Master” to only display the *MASTER* software instances. Note: It does not have to be case sensitive. Then click OK.
Now, you will say for this deployment which software instances will share resources with the newly deployed software instance.

Select ONLY the following Software Instances:
- MASTER_SMPEV3.6_WITHOUT_PTFs
- MASTER_ZOSV1.12

Then scroll down to select software instances that Satisfies Dependencies.
Same thing, now for “Satisfies Dependencies”
Click on Filter (under Name)
Enter “Master” to only display the *MASTER* software instances
Note: It does not have to be case sensitive

Then click OK
Now, you will say for this deployment which software instances may have dependencies caused by the newly deployed software instance.

Select ONLY the following Software Instances:
- MASTER_SMPEV3.6_WITHOUT_PTFs
- MASTER_ZOSV1.12

Then click Next.
Select ONLY the MASTER_SMPEV3.6WITHOUT_PTFS software instance.

Then click Next.
You are picking the target zone of the software instance that you are going to deploy (SMP/E V3.6 with PTFs)...

1. Select the one target zone TSMP36P
2. Click on Actions, and then Select Zones
... to compare it to the target zone of what you are replacing with this deployment (SMP/E V3R6 without PTFs)

Select TSMP36

Then click OK
Once this is done, you’ll move on.

After reading, click Next
It’s important to read this, and follow what it says so that you have the latest HOLDDATA for the reports. Prior to the conference, IBM has already SMP/E received the HOLDDATA needed for the lab.

After reading, click Next
Review what you’ve specified for this Deployment.

After reading, click Finish (or Back to make changes)
Pop-up window to alert you that this might take a few minutes, and allow you to cancel
Your Missing SYSMOD report results are displayed. Keep in mind that this data was created for this Lab so that you could see data on all the different types of reports. It’s just an example.

After reviewing the missing requisites, click on Fix Categories

You identified that the software instance being deployed will share resources with z/OS V1.12. The display identifies required requisite fixes needed on the z/OS V1.12 system.

Don’t click close until you’ve opened all the tabs above
After reviewing the source software instance missing fixes, click on Shares Resources.

Missing requisite fixes for the source software instance are displayed.

Don’t click close until you’ve opened all the tabs above.
After reviewing the Shares Resources missing fixes, click on Satisfies Dependencies.

Missing requisite fixes for the two software instances that you identified will share resources with the target software instance are displayed.

Don’t click close until you’ve opened all the tabs above.
After reviewing the Satisfies Dependencies missing fixes, click on Regressed SYSMODs.

Missing requisite fixes for the software instances that you identified will run (and interact) on the same z/OS image with the target software instance are displayed.

Don’t click close until you’ve opened all the tabs above.
After reviewing the Regressed SYSMODS, click on HOLDDATA Delta

The display shows two USERMODs that were installed in the SMP/E V3.6 without PTFs software instance that are not installed on the source software instance being deployed (and therefore would be regressed).

Don’t click close until you’ve opened all the tabs above
The display shows two PTFs that have SYSTEM HOLDDATA.

Don’t click close until viewed the HOLDDATA
**SMOD Reports**

1, 2013 1:39:45 PM (Local)

- **Six Categories**: Regressed SYSMODs
- **HOLDDATA Delta**: found in the source software instance, but not in the prior-level instance. Determine which holds are critical for your installation. Then, select **View + HOLD DATA**.

**Instance**: MASTER_SMPEV3.6_WITH_PTFs on system LOCAL

**Instance**: MASTER_SMPEV3.6 WITHOUT PTFs on system LOCAL

<table>
<thead>
<tr>
<th>Reason ID</th>
<th>FMID</th>
<th>SYSMOD</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter</td>
<td>Filter</td>
<td>Filter</td>
<td></td>
</tr>
<tr>
<td>ACTION</td>
<td>HBCNC00</td>
<td>U0013</td>
<td></td>
</tr>
<tr>
<td>IPL</td>
<td>HBCND0B</td>
<td>UR5235</td>
<td></td>
</tr>
</tbody>
</table>

**Pop-up window**

Retrieving the ++HOLD statements. This request might take several minutes to complete.

**Cancel**

Pop-up window to alert you that this might take a few minutes, and allow you to cancel
HOLDDATA text is displayed, you can filter by Type, Reason ID, or FMID

Review entries and Click Close
View Missing SYMMD Reports

Last Generated: Jan 11, 2013 1:39:45 PM (Local)

Review the HOLDDATA found in the source software instance, but not in the prior-level instance. Determine which holds are critical for your installation. Then, ++HOLD DATA column.

Source software instance: MASTER_SMPEV3.6_WITH_PTF5 on system LOCAL
Prior-level software instance: MASTER_SMPEV3.6_WITHOUT_PTF5 on system LOCAL

**HOLDDATA**

<table>
<thead>
<tr>
<th>Type</th>
<th>Reason ID</th>
<th>FMID</th>
<th>SYSMOD</th>
<th>Messages</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSTEM</td>
<td>ACTION</td>
<td>HBCNX00</td>
<td>U001301</td>
<td></td>
</tr>
<tr>
<td>SYSTEM</td>
<td>IPL</td>
<td>HBCND0B</td>
<td>UR53091</td>
<td></td>
</tr>
</tbody>
</table>

Total: 2, Selected: 2

Click Close, you are done looking at the reports.
Step 4: Configure your deployment
Follow the checklist, Click on Configure this deployment

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<tr>
<td></td>
<td>• View the deployment jobs.</td>
</tr>
<tr>
<td></td>
<td>7. Specify the properties for the target software instance.</td>
</tr>
</tbody>
</table>
At this point you are going to specify the volume, data set names, catalog, and other information that Software Deployment handles for you. This is done with another series of steps.

Welcome

Use this wizard to configure the data set names, catalogs, volumes, mount points, and SMP/E zones to be used for the target software instance.

This wizard guides you through the following steps:

1. Indicate whether this deployment should copy the distribution zones and distribution libraries (DLIBs) that are associated with the target software instance.
2. Select the software instance to use as a model for configuring the target software instance.
3. Specify the SMP/E zone names to use.
4. Specify the data set names to use, and assign the data sets to a volume or storage class.
5. Assign each data set prefix to a catalog.
6. Ensure that the volumes and storage classes have enough space to store the target software instance.
7. Specify the mount point to use for each UNIX file system data set that will be included in the target software instance.

After reading, click Next
By default the distribution zones and libraries associated with the source software instance should be copied
For this Lab, select No to not copy DLIBs

Then click Next
Do you want to make this deployment look like the software instance it came from, or some other software instance? You can model the information so there is less to enter.

By default the source software instance is used as a model to configure the target software instance.

Review then click Next.
Pop-up window to alert you that this might take a few minutes, and allow you to cancel
Since your deployment objective is to create a new GLOBAL zone, you do NOT have to rename the target zone. However, you will as part of the lab.

Double click to make the Target Target zone an input field.
After double clicking the Target Target Zone name, change the target zone name to TSMP36N.

Then click Next
The list of data sets to be deployed is displayed. Please note that this list is dynamically built based on entries in the zones being deployed.

Click on Filter (under Target Volume)
You are going to put some data sets on a different volume for this deployment. Let's use a filter to find those data sets...

Enter SH PUB2

Then click OK
Click on Actions, and then Select All
Click on Actions, and then Modify
The list of selected data sets to be modified is displayed. You are moving some data sets from volume SHPUB2 to SHRESA.

Select Volume, rather than Storage Class

Then, change the volume to SHRESA

Once the changes have been made, click OK
The list of selected data sets was modified to reflect the target volume of SHRESA.

Click on 'Contains “SHPUB2”' (under Target Volume)
Now that you’ve changed the volume for some data sets, let’s change the volume for some other data sets. First, you’ve got to remove the filter you just set.

Click Clear Filters
Now, let’s add a new filter to find some different data sets.

Click on Filter (under Target Data Set Name)

Enter ZOSMF

Then click OK
You’ve found the data sets that you want to change.

1. Click on Actions, and then Select All
2. Then click on Actions, and then Modify
You are changing the data set names, as well as changing the volume on which they reside.

Add your Userid, MFUSRnn, as a third level qualifier

Change the volume to SHRESB

Once the changes have been made, click OK
That’s all the data set changes you’ll do for this Lab. Now, on to catalog information!

Click Next
Pop-up window to alert you that this might take a few minutes, and allow you to cancel.
The list of data set name prefixes (based on how you configured your deployment) are displayed

**SELECT SMPE36P**
You are not going to have Software Deployment catalog these data sets for this Lab. These data sets are the non-VSAM, non-zFS data sets. The VSAM and zFS data sets must be cataloged.

Click on Actions, and then Do Not Catalog Data Sets
Configure Deployment for MASTER_SMPEV3.6_WITH_PTFs

Catalogs

The Target Data Set Name Prefixes table lists the catalogs where target data sets with the data set name prefixes will be cataloged. Catalog the corresponding data sets.

Target Data Set Name Prefixes

<table>
<thead>
<tr>
<th>Prefix</th>
<th>New or Existing</th>
<th>Catalog the Data Sets?</th>
<th>Catalog Name</th>
<th>Catalog Type</th>
<th>Messages</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMPE36P</td>
<td>Existing</td>
<td>No</td>
<td></td>
<td></td>
<td>Filter</td>
</tr>
<tr>
<td>ZOSMF</td>
<td>Existing</td>
<td>Yes (Required)</td>
<td>UCATSHPROD</td>
<td>USER</td>
<td>Filter</td>
</tr>
</tbody>
</table>

Total: 2, Selected: 1

Click Next
Pop-up window to alert you that this might take a few minutes, and allow you to cancel.
The list of volumes (based on how you configured your deployment) are displayed

Select the SHRESA Volume
Let’s see how you could change some attributes of one of the volumes for this Deployment. Please note that these changes are NOT needed for this deployment.

Click on Actions, and then Modify.
The list of attributes of the selected volume is displayed allowing you to change the values, including the volume serial number.

1. Click Indirect
2. Then specify a symbol name, e.g., &MYRES
3. Then change the Planned threshold to 99
4. Finally, click OK
The table is updated to reflect the changes to SHRESA

Configure Deployment for MASTER_SMPEV3.6_WITH_PTFS

Volumes and Storage Classes

The Target Volumes and Target Storage Classes tables list the volumes or storage classes where each target data set or new user catalog will reside. Any action to modify them.

Target Volumes

<table>
<thead>
<tr>
<th>Volume</th>
<th>Total Capacity (MB)</th>
<th>Current Allocated Space (MB)</th>
<th>Current Allocated Space (%)</th>
<th>Messages Allocated Space After Deploy (MB)</th>
<th>Allocated Space After Deploy (%)</th>
<th>Allocated Space Delta (MB)</th>
<th>Planned Threshold (%)</th>
<th>Initialize Volume</th>
<th>Catalog Method</th>
<th>Indirect Catalog Entry Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHRESA</td>
<td>8514.06</td>
<td>6134.07</td>
<td>72</td>
<td>6220.09</td>
<td>73</td>
<td>80.02</td>
<td>99 No</td>
<td>Indirect</td>
<td>MYRES</td>
<td></td>
</tr>
<tr>
<td>SHRESB</td>
<td>8514.06</td>
<td>5428.98</td>
<td>64</td>
<td>5608.49</td>
<td>68</td>
<td>179.51</td>
<td>85 No</td>
<td>Direct</td>
<td>MYRES</td>
<td></td>
</tr>
</tbody>
</table>

Total: 2, Selected: 1

Target Storage Classes

Click Next
The list of mount points that will be used for the target software instance is displayed. You need to specify a new mount point for this Deployment.

Select `/sharelab/swdeploy/smpe36p`
Click on Actions, and then Modify Target Mount Point
1. Add a subdirectory with your Userid, MFUSRnn, e.g., /sharelab/swdeploy/mfusr01/smpe36p
2. Then click OK
The Deployment has been configured at this point!

Review then click Finish

<table>
<thead>
<tr>
<th>Target mount point</th>
<th>Target Data Set Name</th>
<th>Source mount point</th>
<th>Source Data Set Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>/sharelab/swdeploy/mfusr01/smpe38p</td>
<td>ZOSMF.SWDEPLOY.MFUSR01.SMPE38P.ZFS</td>
<td>/sharelab/swdeploy/smpe38p</td>
<td>ZOSMF.SWDEPLOY.SMPE38P.ZFS</td>
</tr>
</tbody>
</table>
Step 5: Create deployment jobs and review deployment summary
Follow the checklist,
Click on Define the job settings, ...

At this point, you’ll prepare to create the jobs for the Deployment.

<table>
<thead>
<tr>
<th>Progress</th>
<th>Step</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>1. Specify the properties for this deployment.</td>
</tr>
<tr>
<td>✓</td>
<td>2. Select the software instance to deploy.</td>
</tr>
<tr>
<td>✓</td>
<td>3. Select the objective for this deployment.</td>
</tr>
<tr>
<td>✓</td>
<td>4. Check for missing SYSMODs.</td>
</tr>
<tr>
<td></td>
<td>• View missing SYSMOD reports.</td>
</tr>
<tr>
<td>✓</td>
<td>5. Configure this deployment.</td>
</tr>
<tr>
<td>✂️</td>
<td>6. Define the job settings. z/OSMF creates the deployment summary and jobs.</td>
</tr>
<tr>
<td></td>
<td>• View the deployment summary.</td>
</tr>
<tr>
<td></td>
<td>• View the deployment jobs.</td>
</tr>
<tr>
<td></td>
<td>7. Specify the properties for the target software instance.</td>
</tr>
</tbody>
</table>
The first time in you will have to provide JOB card information

**Define Job Settings**

The data set name below will be used for the JCL jobs generated. Edit or accept the data set name and job card data.

- **JCL data set name:**
  
  `MFUSR01.DM.D130111.T162701.CNTL`

- **JOB statement:**

  ```
  //JOBNAME   JOB (ACCOUNT), 'NAME'
  /*
  /*
  /*
  ```
Specify JOB card information

Optionally change the low level qualifiers of the data set name. You must keep the HLQ as your assigned userid, or else you won’t have access to create the jobs for the Lab.

Then click OK
Pop-up window to alert you that this might take a few minutes, and allow you to cancel
You now have the deployment jobs created which represent all the information you’ve provided! You can look at all that information in the summary about this Deployment.

Follow the checklist, Click on View the deployment summary
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. Verify the Zone Name and Data Set Name of the CSIs
3. Click Volumes to advance

Don’t click OK until you’ve opened all the tabs above
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. Verify the Volumes
3. Click Data Sets to Delete to advance

Don’t click OK until you’ve opened all the tabs above
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. You can verify the data sets to delete. However, since you didn’t specify to initialize the volume, nor select to replace an existing software instance there are no data sets to delete.
3. Click Data Sets to Add to advance.

Don’t click OK until you’ve opened all the tabs above.
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. Verify the Data Sets being added
3. Click Data Sets to Replace to advance

Don’t click OK until you’ve opened all the tabs above
Results displayed – Data Sets to Replace

1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. Again, based on how this deployment was configured there are no data sets to be replaced.
3. Click Catalogs to advance.

Don’t click OK until you’ve opened all the tabs above.
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.

2. Verify that the existing User Catalog will be used.

3. Click Catalog Aliases to advance.

Don’t click OK until you’ve opened all the tabs above.
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. Again, based on how this deployment was configured there are no new catalog aliases.
3. Click Catalog Entries to Delete to advance.

Don’t click OK until you’ve opened all the tabs above.
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. Again, based on how this deployment was configured there are no catalog entries to delete
3. Click Catalog Entries to Add to advance

Don’t click OK until you’ve opened all the tabs above
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. Verify the data set names, catalog, and data set location for the CSI and zFS data sets
3. Click Catalog Entries to Update to advance

Don’t click OK until you’ve opened all the tabs above
1. The planned results of your deployment are displayed. At this point no updates have been made to the target system.
2. Again, based on how this deployment was configured there are no catalog entries to update.

---

Now it is OK to click OK.
You seen the summary of what will happen, now let’s look at the list of jobs that will do it.

Follow the checklist, Click on View the deployment jobs
Job (member) names and descriptions are displayed. Based on options that you used during your deployment configuration, you may have more jobs than what you see for this Lab.

Review the jobs then click OK.
Step 6: Use ISPF to view deployment jobs
**Deployment Checklist**

To deploy a software instance, complete the checklist.

<table>
<thead>
<tr>
<th>Progress</th>
<th>Step</th>
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<tr>
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</tr>
<tr>
<td>✔️</td>
<td>2. Select the software instance to deploy.</td>
</tr>
<tr>
<td>✔️</td>
<td>3. Select the objective for this deployment.</td>
</tr>
</tbody>
</table>
| ✔️       | 4. Check for missing SYSMODs.  
  - View missing SYSMODs. |
| ✔️       | 5. Configure this deployment. |
| ✔️       | 6. Define the job settings. z/OSMF creates the deployment summary and jobs.  
  - View the deployment summary.  
  - [View the deployment jobs.](#) |
| 🔄       | 7. Specify the properties for the target software instance. |

Click to expand the navigation bar
Now you would logon to TSO and submit the jobs. For this Lab you will use the z/OSMF ISPF interface only to look at the jobs.

Expand z/OS Classic Interfaces
Click on ISPF

Deployment Checklist
To deploy a software instance, complete the checklist.

<table>
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<td></td>
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<tr>
<td></td>
<td>• View the deployment summary.</td>
</tr>
<tr>
<td></td>
<td>• View the deployment jobs.</td>
</tr>
<tr>
<td>✔️</td>
<td>7. Specify the properties for the target software instance.</td>
</tr>
</tbody>
</table>
Enter SHARE as logon procedure

Enter SHR as account number

Then click OK

Note: You may not see this panel if another person used this Userid for a z/OSMF lab
The ISPF Primary Panel

1 - PRIMARY

OPTION  

-------------- SHARE ISPF 6.3 SCROLLABLE PRIMARY OPTION MENU -------------- S1

D  Alternate Dialog ===> CMD(???)
D2 Alternate Dialog ===> PANEL(???)

The time is 11:14 a.m. on Monday, January 21, 2013 (2013.021)

Your uid is mpish01  dsn prefix is mpish01  proc is share  sys is s1

0  SETTINGS   Specify ISPF parameters
1  VIEW       View source data or output listing
1P VIEW-OE    View/Browse files in the Open Edition file system
2  EDIT       Create or change source data
2P EDIT-OE    Edit files in the Open Edition file system
3  UTILITIES  Perform utility functions
3P ISHELL-OE  Open Edition ISPF shell
4  FOREGROUND Invoke language processors in foreground
5  BATCH      Submit job for language processing
6  COMMAND    Enter TSO command, CLIST, or REXX exec
7  DIALOG TEST Perform dialog testing
8  LM UTILITIES Perform library administrator utility functions
Enter 3.4, then hit Enter
Enter your User ID (MFUSRnn), then hit Enter
Specify V for View for your JCL data set name and hit enter
The jobs that were created by Software Deployment, along with a “read me” file.

Do **NOT** try and submit any of the deployment jobs. The Userids are not authorized to run some of them.
Specify S to select the first member and hit enter

Do NOT try and submit any of the deployment jobs. The Userids are not authorized to run some of them.
The “read me” member describes the list of jobs.

- Do NOT try and submit any of the deployment jobs. The Userids are not authorized to run some of them.

- Scroll up and down using these keys or F7 and F8.
When you are done viewing the deployment jobs, close the ISPF tab by clicking the X.
Step 7: Complete the deployment
1. For the lab you will assume that the jobs were run successfully
2. Follow the checklist, Click on Specify the properties for the target software instance
Pop-up window to ask you if you have completed running the deployment jobs.

To complete the lab, click OK.
By default the software instance name and description are copied from the source software instance. You will change them.
Enter the name for your Deployment
- Use your User ID
- Use underscore ("_") instead of blanks
- For example, MFUSR01_Target_SW_Instance
- Optionally, enter a description

Click OK

MFUSR01 Target software instance containing SMP/E V3.6 with PTFs, copied from the MASTER_SMPEV3.6_WITH_PTFs software instance. MFUSR01 has completed the Software Deployment Lab successfully!!!
See message that the software instance was added and that the software deployment is complete.

A pop-up window will inform you that z/OSMF is attempting to retrieve product information from the deployed SMP/E GLOBAL CSI. Since you didn’t actually run the deployment jobs, this will fail. You can let it complete and get the message on the next slide, or click Cancel to stop the operation.
A warning message is produced stating that z/OSMF could not find the deployed SMP/E GLOBAL CSI (because you weren’t allowed to run the jobs). The net effect is that some of the Software Management reports and views will not be available for the target software instance.
Step 8: View the completed deployment
The Deployment is complete, but you are not done yet with the Lab. Let’s view the Deployment after it is complete.

Select your deployment
Click on Actions, and then View
Results displayed

View MFUSR01_SW_Deployment_Exercise

- General
- Deployment Configuration
- Deployment Summary
- Deployment Jobs

Deployment name:
MFUSR01_SW_Deployment_Exercise

Deployment description:
z/OSMF Software Deployment Lab for user MFUSR01, deploying the MASTER_SMPEV3.6_WITH_PTFs software instance to a new software instance.

Categories:
There is no data to display.

Activity:
Completed

Source Software Instance

<table>
<thead>
<tr>
<th>Name</th>
<th>System</th>
<th>Description</th>
<th>Categories</th>
<th>Global Zone CSI</th>
<th>Target Zones</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTER_SMPEV3.6_WITH_PTFs</td>
<td>LOCAL</td>
<td>Source Software Instance for the z/OSMF Software Deployment Lab. This instance contains the SMP/E V3.6 product with PTFs.</td>
<td>There is no data to display.</td>
<td>ZOSMF.SWDEPLOY.GLOBAL.CSI</td>
<td>TSMP36P</td>
</tr>
</tbody>
</table>

Target Software Instance

<table>
<thead>
<tr>
<th>Name</th>
<th>System</th>
<th>Description</th>
<th>Categories</th>
<th>Global Zone CSI</th>
<th>Target Zones</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFUSR01_Target_SW_Instance</td>
<td>LOCAL</td>
<td>MFUSR01 Target software instance containing SMP/E V3.6 with PTFs, copied from the MASTER_SMPEV3.6_WITH_PTFs software instance.</td>
<td>There is no data to display.</td>
<td>ZOSMF.SWDEPLOY.MFUSR01.GLOBAL.CSI</td>
<td>TSMP36N</td>
</tr>
</tbody>
</table>

Click through each tab

Scroll up and down if desired

Once complete click Close
Thank You

Complete your sessions evaluation online at SHARE.org/SanFranciscoEval

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Additional Information

- z/OS Management Facility website
- IBM z/OS Management Facility education modules in IBM Education Assistant
  - [http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp](http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp)
    - Scroll down to z/OS Management Facility
- z/OS Hot Topics, Issue 21 and 23:
- IBM z/OS Management Facility Configuration Guide (SA38-0652)
  - Renamed from IBM z/OS Management Facility User's Guide in z/OSMF V1.12
- Program Directory for z/OS Management Facility (GI11-2886)
- IBM z/OS Management Facility License Information (GC52-1263)
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Hands-On Lab

Greg Daynes
IBM Corp.
gdaynes@us.ibm.com

Friday, February 8, 2013: 8:00 AM-9:00 AM
Union Square 23-24, Fourth Floor
Session12753