



z/OSMF Hands-On Labs

- Choose Your Own Topic –

**Using the z/OS installation Strategy
Install a Portable Software Instance(PSI)**

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Abstract:

You hopefully have heard about the z/OS Installation Strategy? This is an undertaking that is across the entire z/OS industry (with strong participation from both IBM and ISVs) to provide a common installation and packaging method that you use from z/OSMF.

This self-directed lab will take you through each step needed to install a Portable Software Instance, PSI, from the point of view of a z/OS customer.

So, you've bought a great new product called "The Box III" from Hooli! You've acquired the file (somehow, possibly via GIMGTPKG), and if necessary, also un-archived it into your z/OS UNIX file system (if you received it as a single pax archive file). What's next? A very simple deployment with z/OSMF Software Management.

What level of z/OSMF do you need to package or install a PSI? Ensure you have the appropriate z/OSMF Software Management support installed:

- z/OSMF V2.2 with PTF UI44516 , or
- z/OSMF V2.1 with PTF UI42018

Note: Subsequent enhancements are being made to z/OSMF Software Management all the time. To find them, just use the SMP/E FIXCAT IBM.DrivingSystem-RequiredService.

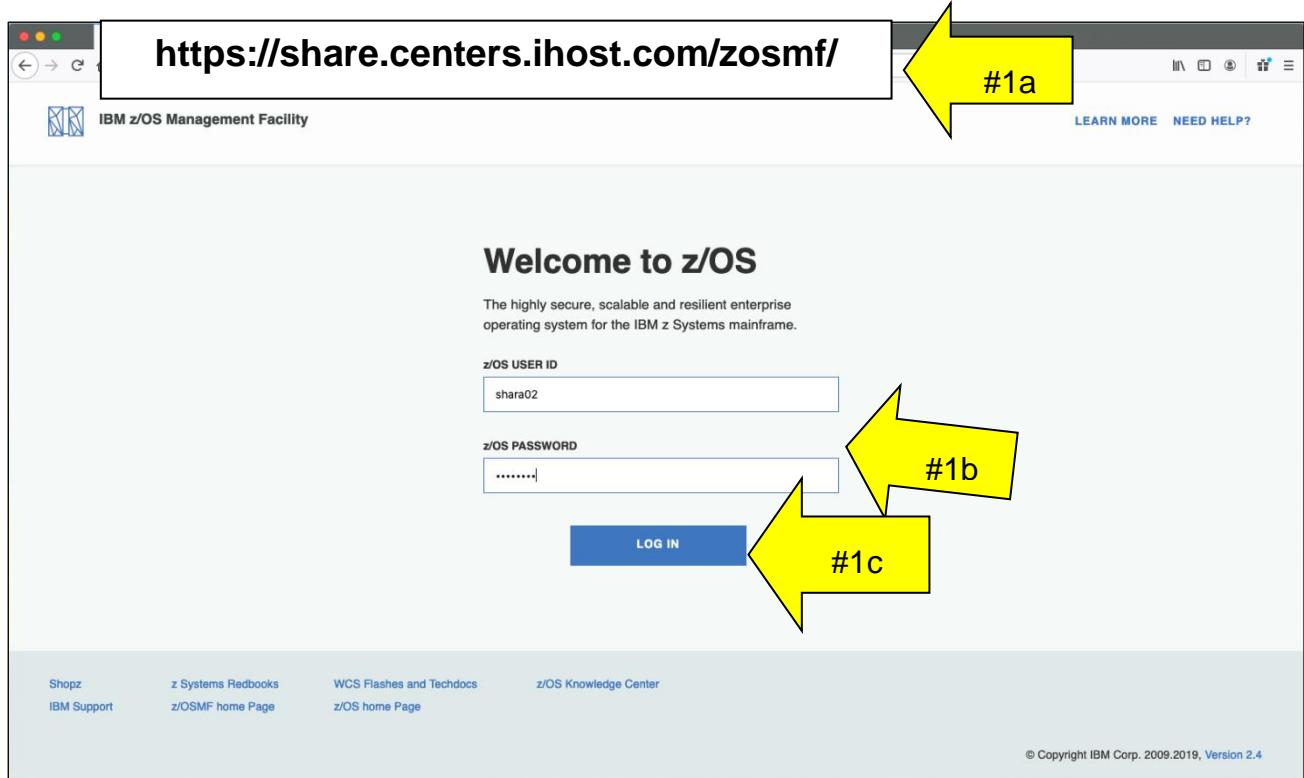
When you follow this self-directed lab, here is a high-level overview of what you will learn:

1. Logon to z/OSMF with your supplied lab id and password.
2. z/OS Customer view: install a PSI provided from a software vendor using z/OSMF Software Management's deployment task.

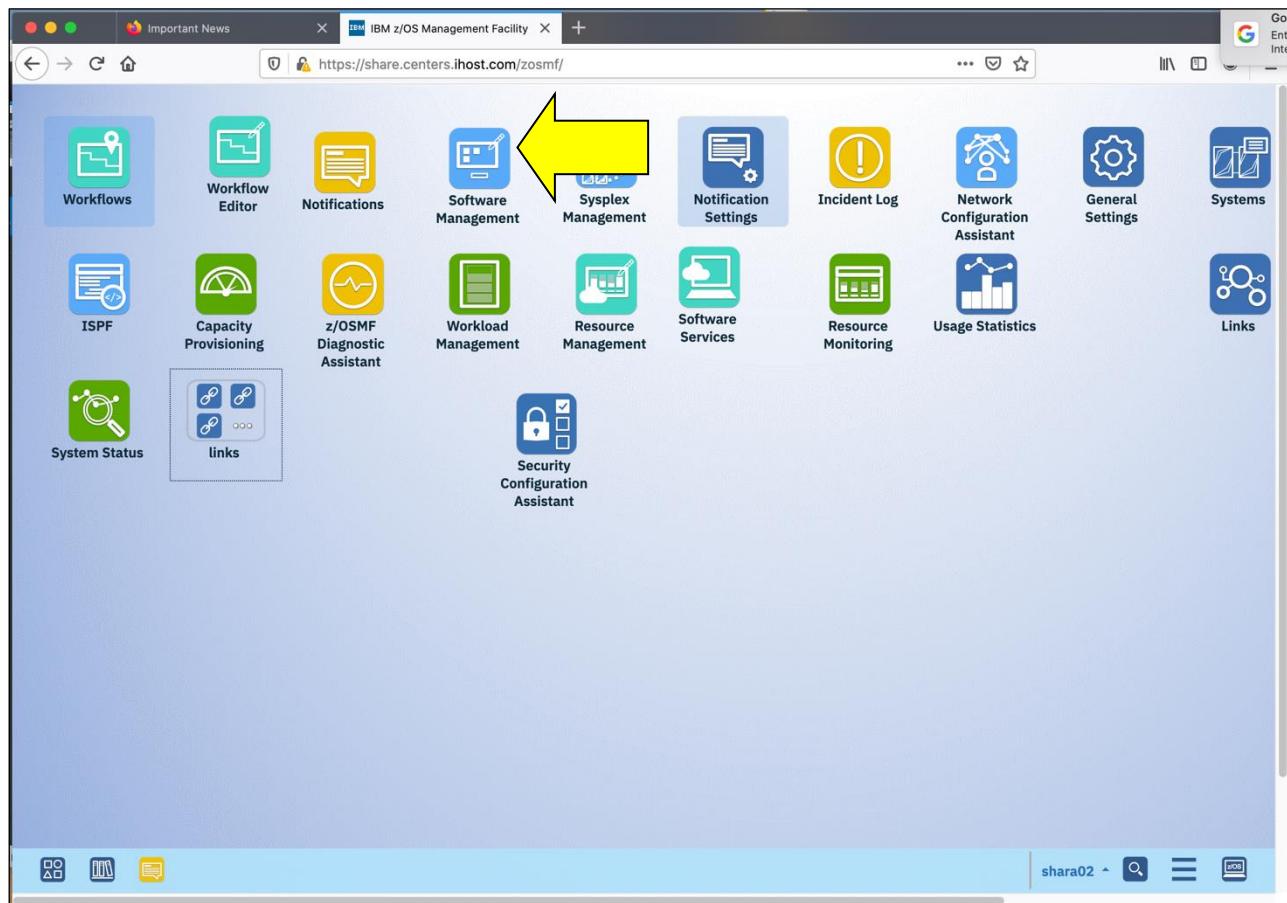
Logon to z/OSMF

In this step, we will now go into z/OSMF to use the Workflow Editor function. For this lab, we are using a z/OSMF 3.1 system.

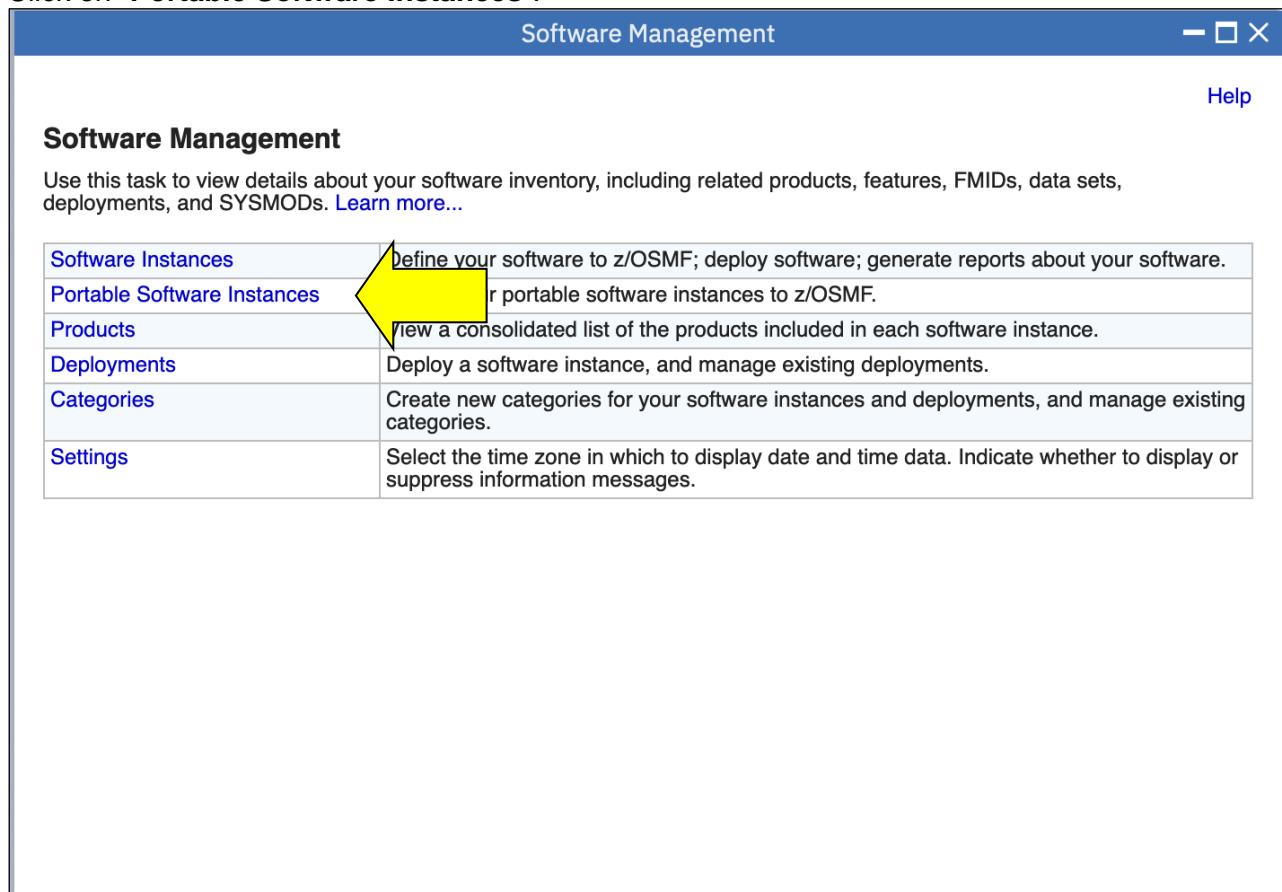
- a. Go to <https://share.centers.ihost.com/zosmf/> on the Firefox or IE web browser. (If you want to follow this lab on your own system, that is fine. Just note some of the samples we use you will need to supply yourself, using the Appendix to find those samples.).
- b. Using the userid you were given (SHARAnn, SHARBnn, or SHARCnn) and the password, logon to z/OSMF. The userid you were given is a regular z/OS userid on this system and has been given access to z/OSMF. There is *no* z/OSMF code on this workstation, all executables (except the web browser) is on the z/OS system.
- c. Click on “LOG IN”.



Click on “Software Management”.



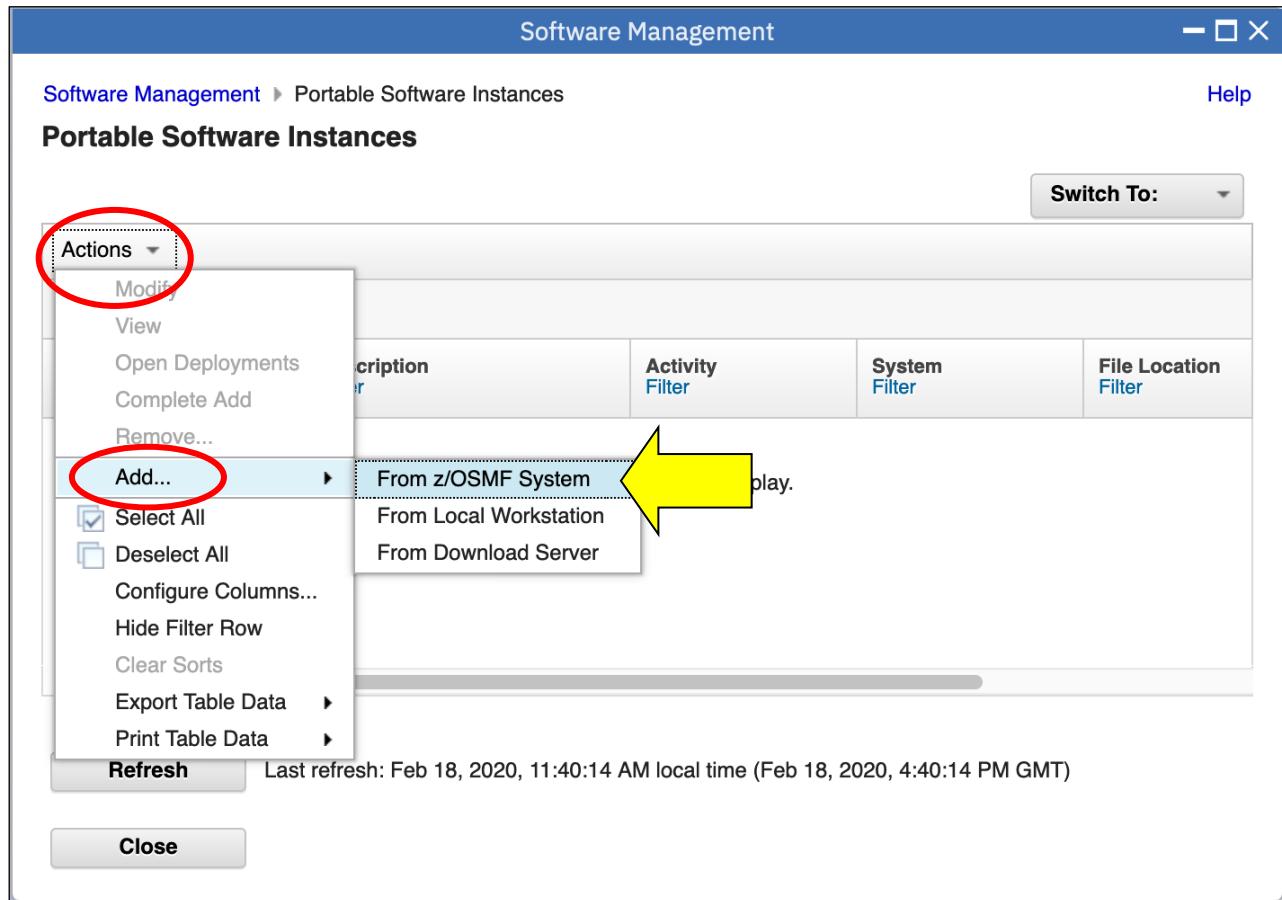
Click on “Portable Software Instances”.



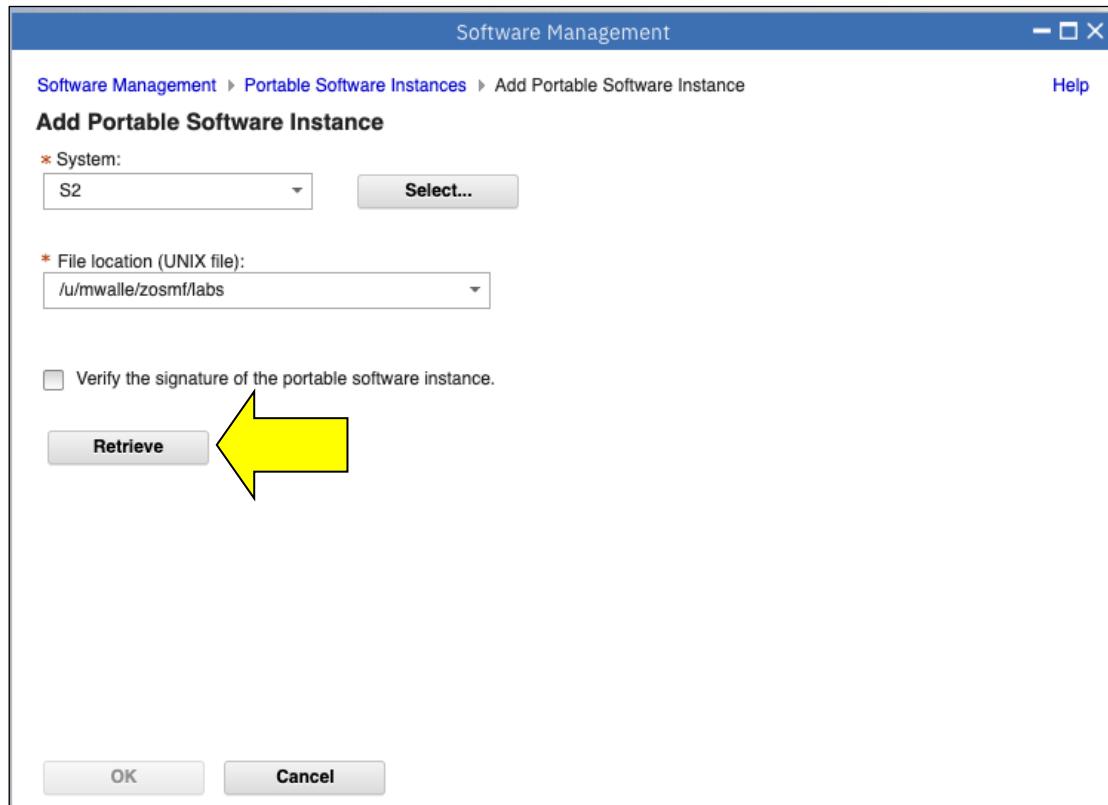
This is where all the Portable Software Instances (PSI) on this system can be found.

Now we will add a PSI (portable software instance) to the inventory for installing.

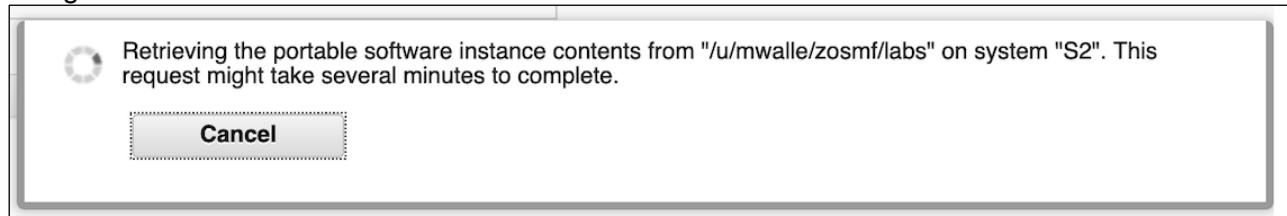
Go to **Actions -> Add -> From z/OSMF system**. You are going to add your PSI to the inventory for installing.



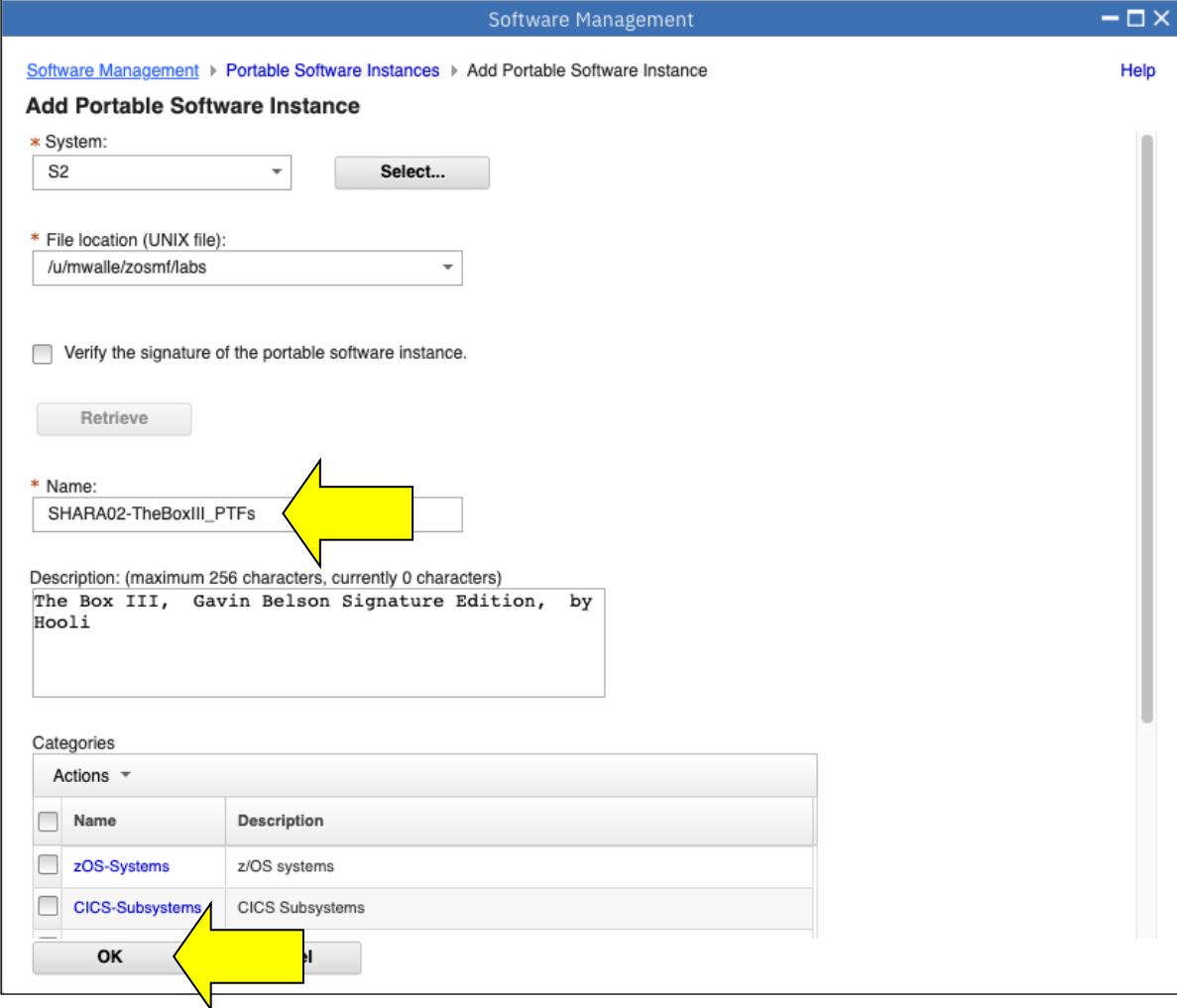
On the next screen, select the **System** as **S2** (there might be another choice, so make sure you select **S2**) and then provide the z/OS UNIX location **/u/mwalle/zosmf/labs**
Click on **Retrieve**.



It might take a moment or two:



When it has been successfully retrieved, you'll see some information (that the product was packaged with) in the PSI. Add your USERID to the Name. Click on **OK**.



Software Management

Software Management > Portable Software Instances > Add Portable Software Instance

Add Portable Software Instance

* System: S2 Select...

* File location (UNIX file): /u/mwalle/zosmf/labs

Verify the signature of the portable software instance.

Retrieve

* Name: SHARA02-TheBoxIII_PTFs

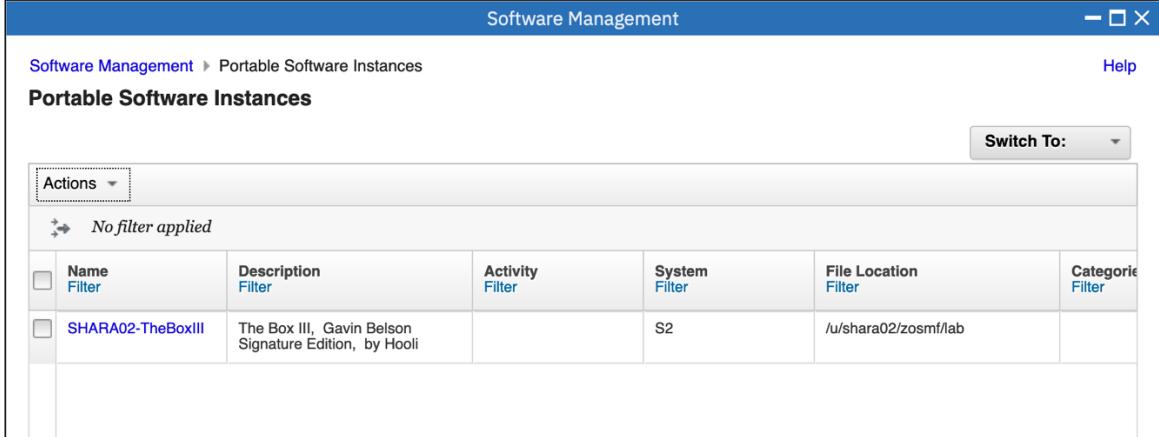
Description: (maximum 256 characters, currently 0 characters)
The Box III, Gavin Belson Signature Edition, by Hooli

Categories

Actions		
	Name	Description
<input type="checkbox"/>	zOS-Systems	z/OS systems
<input type="checkbox"/>	CICS-Subsystems	CICS Subsystems

OK

Your PSI is ready to be installed!



Software Management

Software Management > Portable Software Instances

Portable Software Instances

Actions

No filter applied

Name Filter	Description Filter	Activity Filter	System Filter	File Location Filter	Categories Filter
SHARA02-TheBoxIII	The Box III, Gavin Belson Signature Edition, by Hooli		S2	/u/shara02/zosmf/lab	

Switch To:

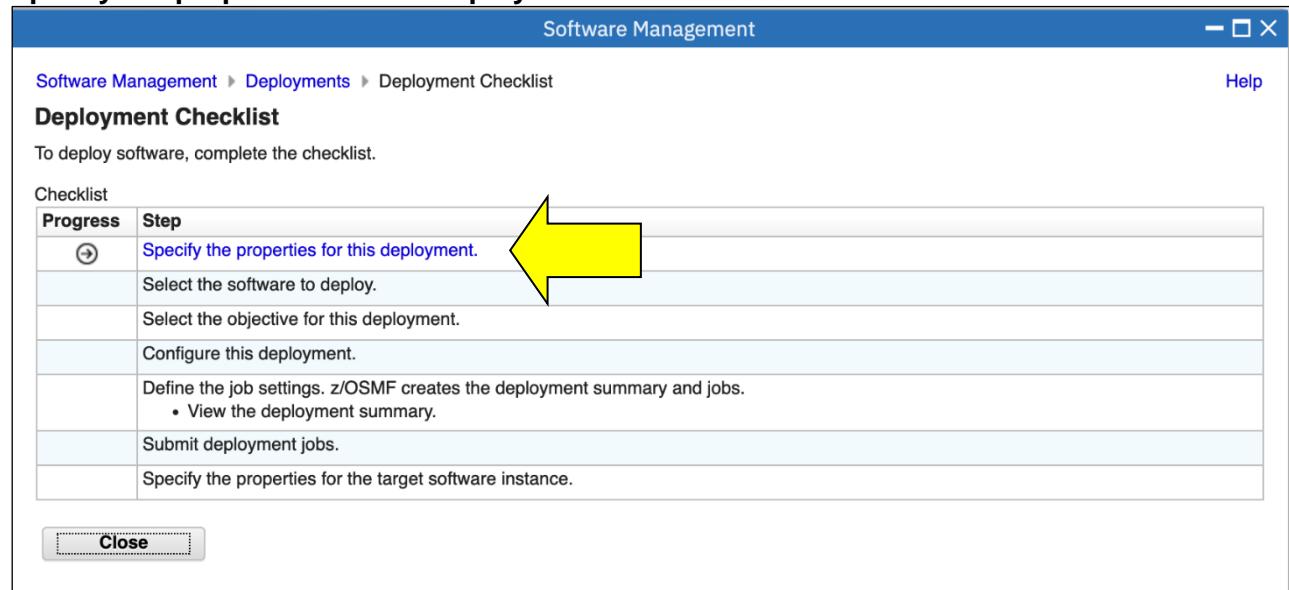
Let's get the install (deployment) started. On the far right, click on the **Switch To:** drop down and select **Deployments**.

The screenshot shows the 'Software Management' application window. In the top right corner, there is a 'Switch To:' dropdown menu. A red oval highlights the 'Deployments' option in this menu. A yellow arrow points from the text in the previous step to this 'Deployments' option.

You are now in the Deployment section, and you are going to install ("deploy") that portable software instance onto your system. This Deployment function is rather old in z/OSMF, so you might be familiar with it already. From the **Actions** drop-down, select **New**.

The screenshot shows the 'Software Management' application window with the 'Deployments' screen selected. On the left, there is an 'Actions' dropdown menu. A yellow arrow points to the 'New...' option in this menu. The main area displays a table with columns for Description, Activity Filter, Categories Filter, Source Software Filter, and Source System Filter. A message at the bottom states 'There is no data to display.'

You have the mini-wizard for deploying (installing) the software instance. Select the first option, **Specify the properties for this deployment.**



Fill in what you want to call the deployment. You have to pick a name that is unique since you can't have duplication deployment names. Perhaps put your assigned userid in the deployment name to make it unique. Click **OK**.

Software Management

Software Management > Deployments > Deployment Checklist > Specify Deployment Properties

Specify Deployment Properties

Enter a name and optional description for this deployment.

* Name:
SHARA02TheBoxIII

Description: (maximum 256 characters, currently 40 characters)
The installation of The Box III by Hooli

Categories

Name Filter	Description Filter	Activity Filter	Last Modified (Local) Filter	Modified By Filter	Locked (Loc Filter)
There is no data to display.					

Total: 0 Selected: 0

Refresh Last refresh: Feb 18, 2020, 1:11:37 PM local time (Feb 18, 2020, 6:11:37 PM GMT)

OK

Then progressing through the mini-wizard, select the next step: **Select the software to deploy**.

Software Management

Software Management > Deployments > Deployment Checklist

Deployment Checklist

To deploy software, complete the checklist.

Checklist

Progress	Step
○	Specify the properties for this deployment.
○	Select the software to deploy.
	Select the objective for this deployment.
	Configure this deployment.
	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none"> View the deployment summary.
	Submit deployment jobs.
	Specify the properties for the target software instance.

Close

You want to select the **Portable Software Instance** you just received (the name you used when you added the Portable Software Instance above!). Then Select **OK** to continue. Then proceed with **Select the objective for this deployment.**

Select Software

Select the type of software to deploy:

Software Instance Portable Software Instance

Portable Software Instances

Name Filter	Description Filter	Activity Filter	System Filter	File Location Filter	Category Filter
<input type="radio"/> SHARA05-TheBoxIII_PTFs	The Box III, Gavin Belson Signature Edition, by Hooli	Being deployed	S2	/u/mwalle/zosmf/labs	
<input type="radio"/> SHARA09-TheBoxIII_PTFs	The Box III, Gavin Belson Signature Edition, by Hooli	Being deployed	S2	/u/mwalle/zosmf/labs	
<input type="radio"/> TheBoxIII_PTFs	The Box III, Gavin Belson Signature Edition, by Hooli		S2	/u/mwalle/zosmf/labs	
<input checked="" type="radio"/> SHARA02-TheBoxIII_PTFs	The Box III, Gavin Belson Signature Edition, by Hooli		S2	/u/mwalle/zosmf/labs	

Total: 5 Selected: 1

Last refresh: Feb 24, 2023, 5:16:02 PM local time (Feb 24, 2023, 10:16:02 PM GMT)

Refresh **OK**

Then progressing through the mini-wizard, select the next step: **Select the objective for this deployment.**

Deployment Checklist

To deploy software, complete the checklist.

Checklist

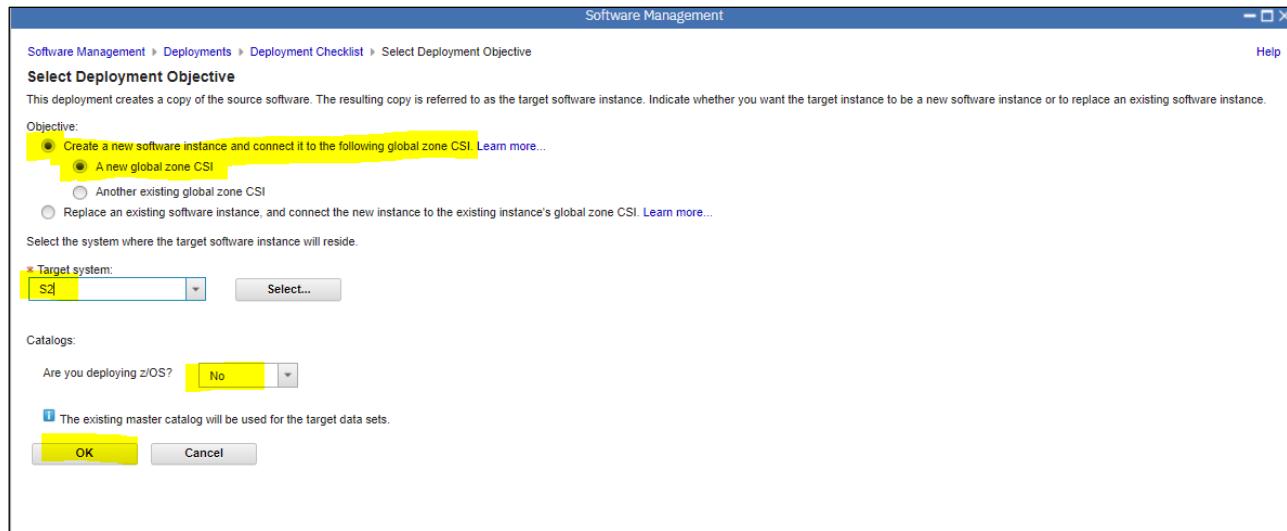
Progress	Step
	Specify the properties for this deployment.
	Select the software to deploy.
	Select the objective for this deployment.
	Check for missing SYSMODs. <ul style="list-style-type: none"> View missing SYSMOD reports.
	Configure this deployment.
	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none"> View the deployment summary.
	Submit deployment jobs.
	Perform workflows.
	Specify the properties for the target software instance.

Close

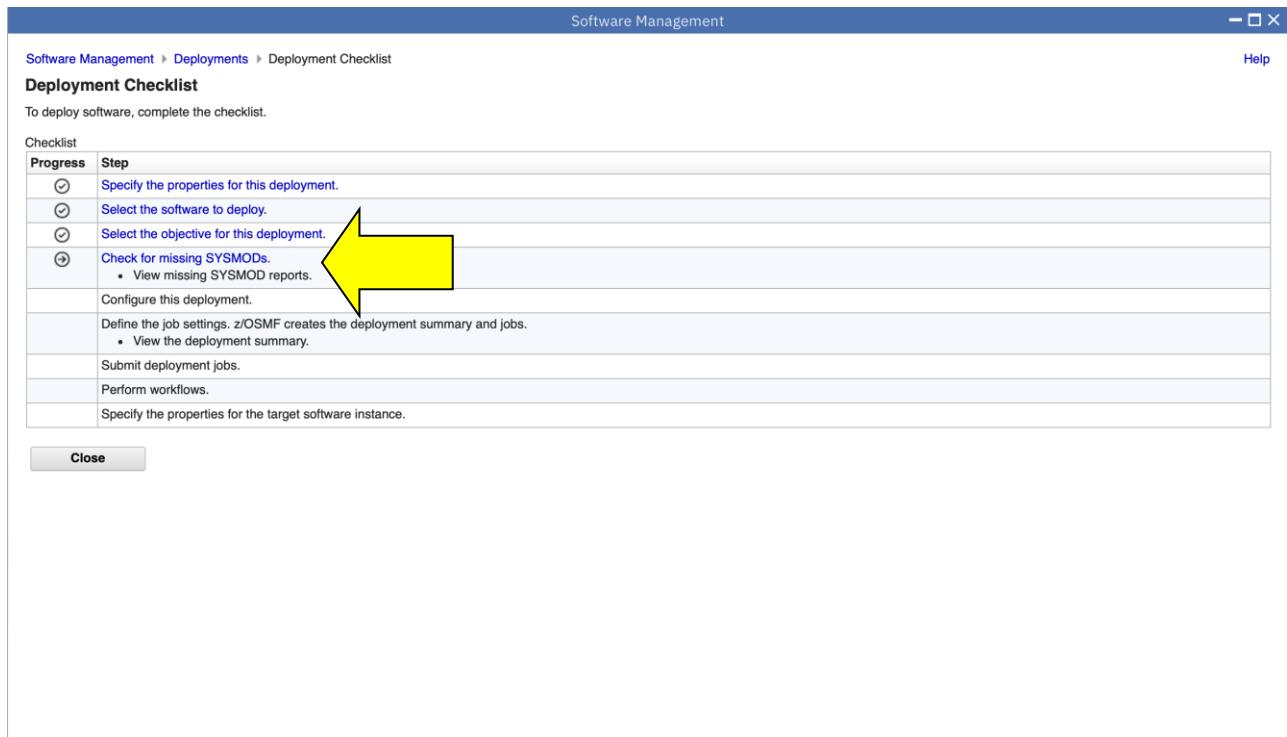
You are a customer, and you need to install this PSI. Select that you want to **Create a new software instance**, with **A new global zone CSI**, on your **S2** system.

This is not a z/OS order, so indicate that you are not deploying z/OS (where new master catalogs might be involved).

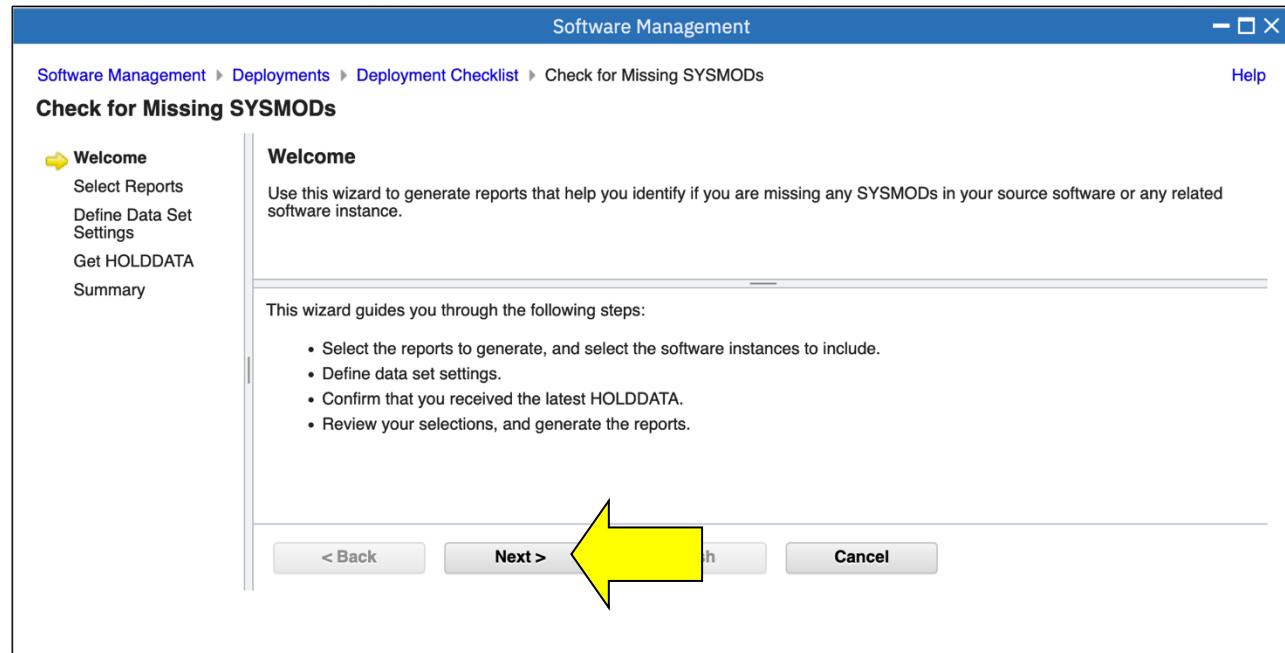
Then OK.



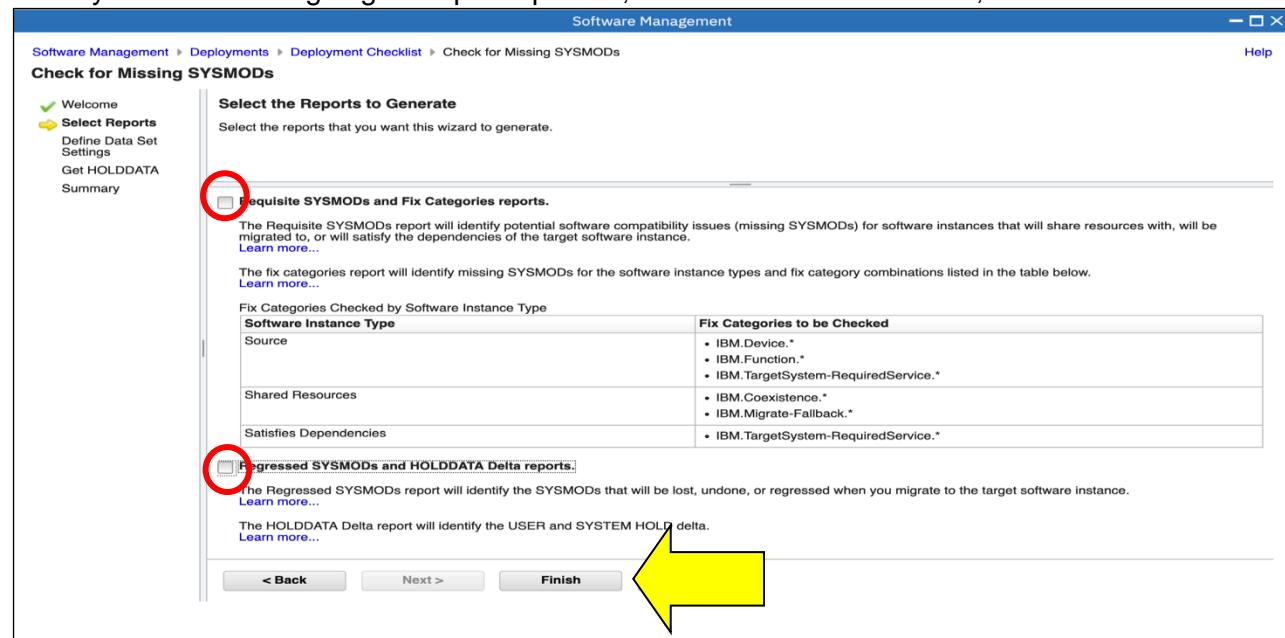
Continue on by clicking on **Check for missing SYSMODs** on the mini-wizard.



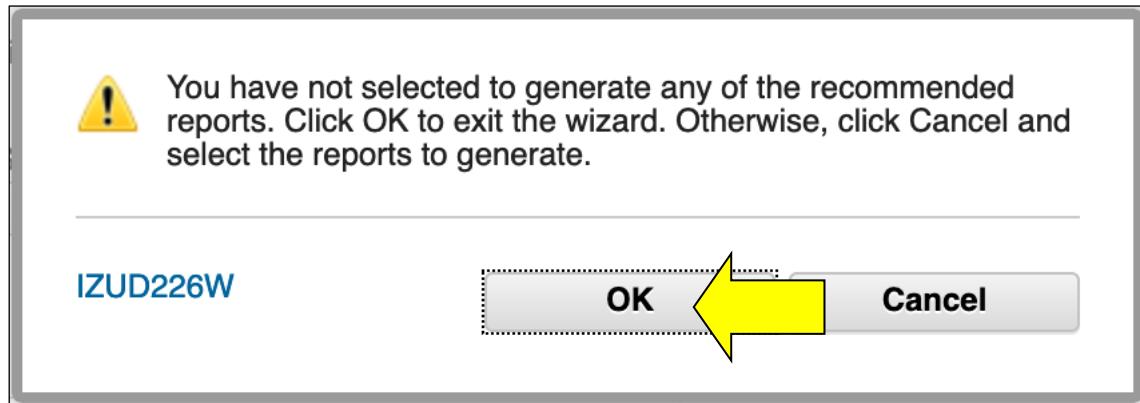
We are going to move through this older function very quickly, since it is not unique for PSI installations. Do note, however, what you are doing at each step during the deployment. Click on **Next**.



This is where you can run various SMP/E reports to see if any dependencies are missing or regressions would happen between this software instance and other software instances you already have. We are going to skip this portion, so uncheck the two boxes, and click on **Finish**.



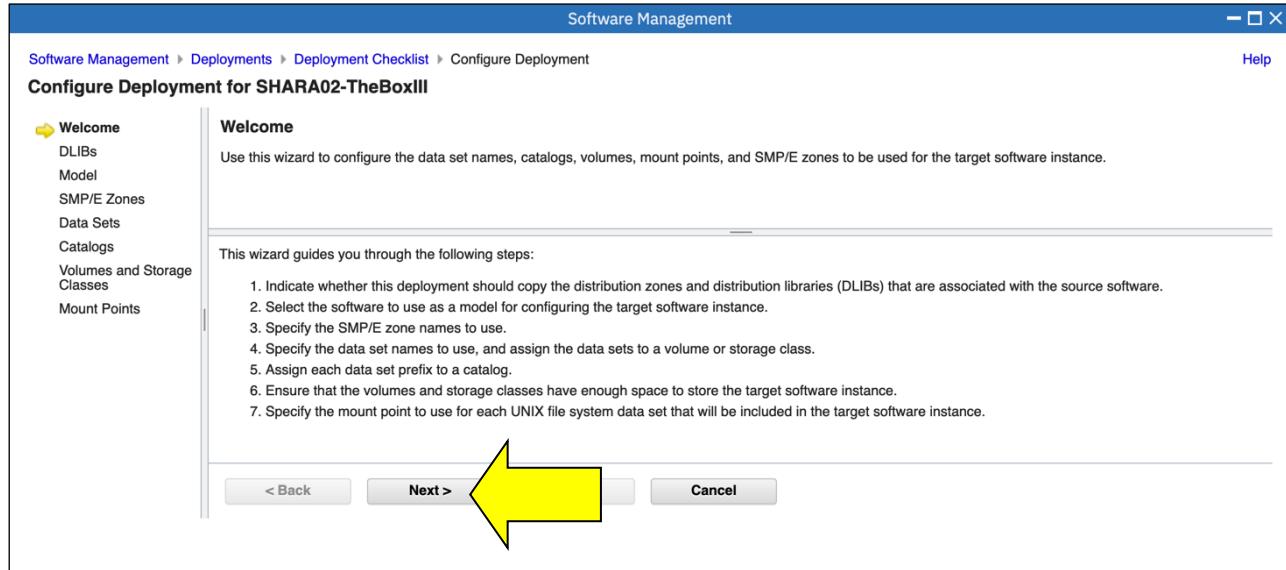
We understand that it is not recommended to skip the dependency and regression reports, so click **OK**.



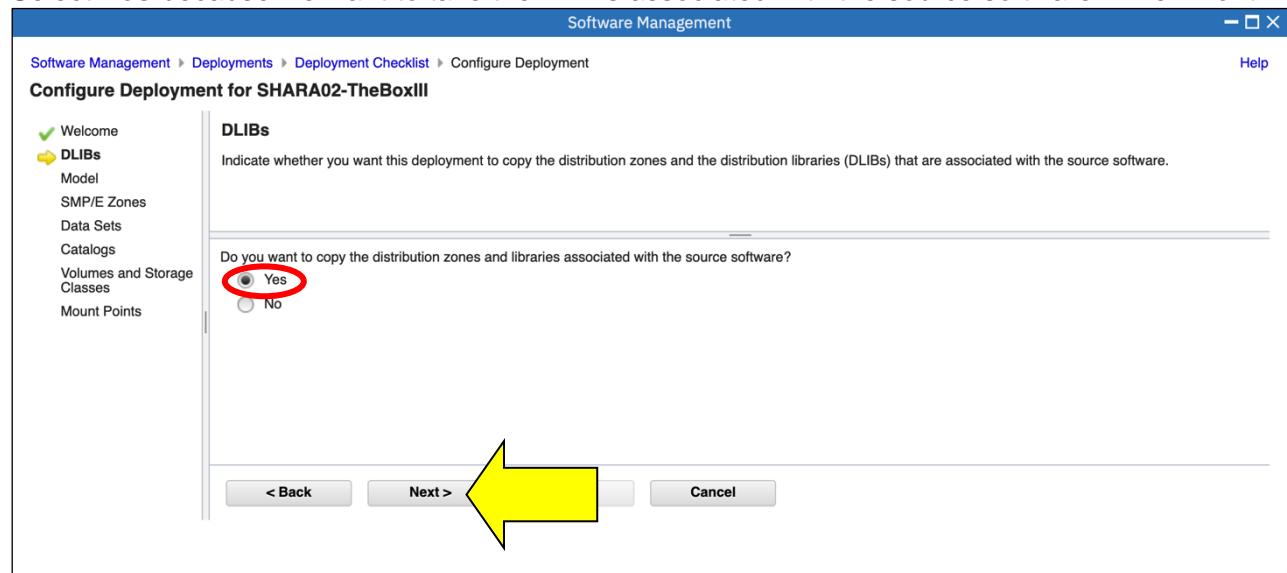
Then back on the mini-wizard, select the next step: **Configure this deployment**.

Checklist	Step
Progress	Step
(1)	Specify the properties for this deployment.
(2)	Select the software to deploy.
(3)	Select the objective for this deployment.
(4)	Check for missing SYSMODs. <ul style="list-style-type: none">• View missing SYSMOD reports.
(5)	Configure this deployment. Define the job settings. z/OSMF creates the deployment, and jobs. <ul style="list-style-type: none">• View the deployment summary.
	Submit deployment jobs.
	Perform workflows.
	Specify the properties for the target software instance.

This is where you can do a lot of customization for how you want this PSI installed! After reading through all the items that we are going to (briefly) go through, click **Next>**.



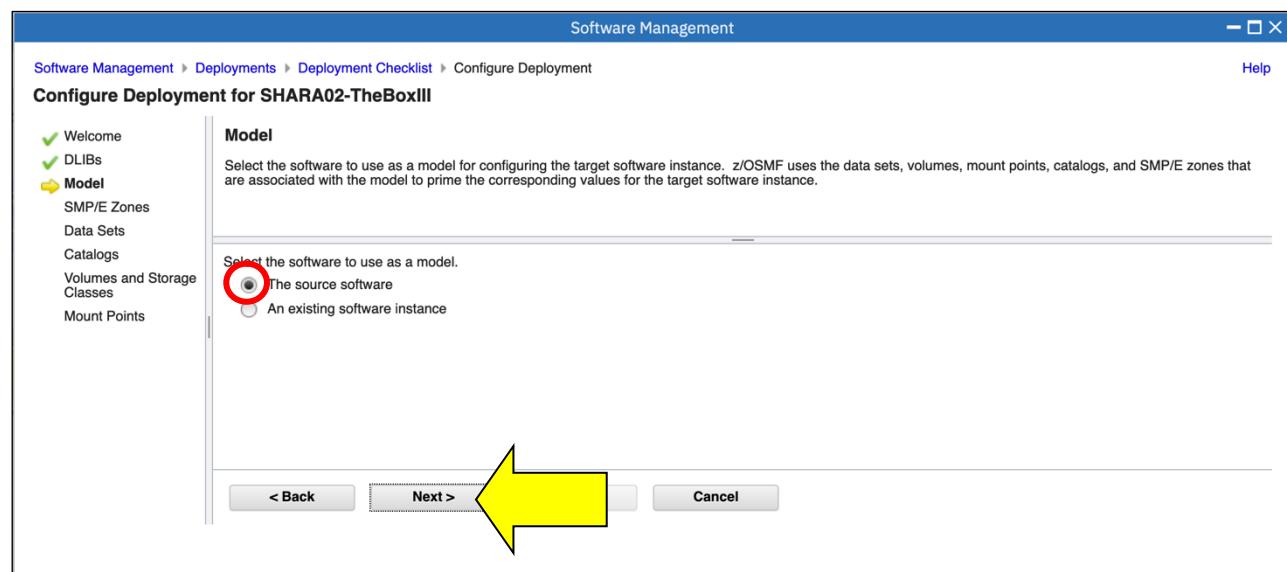
Select **Yes** because we want to take the DLIBs associated with the source software. Then **Next>**



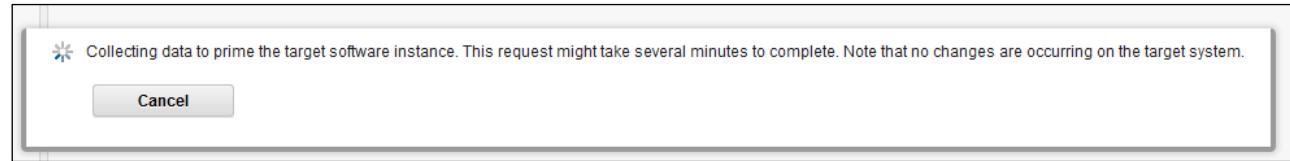
Assuming that this is the first time we've ever installed this product, we are going to model this deployment on what was sent to us.

Let's pause here a bit: when you are installing a product you already have (like the z/OS V2.5 operating system), it really is best to model after a prior level of z/OS (like V2.3 or V2.4). This is where you would do that. This saves a lot of time, as the data set placement and names you have in place for the older z/OS release, can be brought forward to the newer z/OS release.

For this lab, though, just select **The source software**, then click **Next>**.



Wait just a bit:



To show how easy it is to decide your own target and dlib zones names, enter something new here. Then click **Next>**.

Software Management > Deployments > Deployment Checklist > Configure Deployment

Configure Deployment for SHARA02-TheBoxIII

Help

SMP/E Zones

The Zones table lists the names that will be used for the SMP/E zones included in the target software instance. Accept the default names, or modify the values. To modify the data in a table cell, double click an editable cell, or select it and press Enter. To exit an editable cell and preserve your changes, click outside of the cell or press Enter.

Zones

Actions ▾

No filter applied

Target Zone Filter	Target DLIB Zone Filter	Messages Filter	Source Target Zone Filter	Source DLIB Zone Filter
MYTARG	MYDLIB		TGT	DLIB

< Back Next > Cancel

A large yellow arrow points from the 'Next >' button at the bottom left of the table to the 'Next >' button at the bottom right of the page.

This is where you could spend a lot of time customizing the names and placements of data sets in your environment. Notice something interesting here: this PSI contains both SMP/E and non-SMP/E data sets, proving that the PSI doesn't care what it contains, and can handle both SMP/E and non-SMP/E data sets just fine. Of course, it doesn't even need to contain any SMP/E installed products if the ISV didn't want to package their product with SMP/E.

The screenshot shows the Software Management interface with the following navigation path: Software Management > Deployments > Deployment Checklist > Configure Deployment. The main title is "Configure Deployment for SHARA02-TheBoxIII_PTFs". On the left, there is a sidebar with a checklist of completed steps: Welcome, DLIBs, Model, SMP/E Zones, and Data Sets (which is currently selected). Below the checklist are links for Catalogs, Volumes and Storage Classes, and Mount Points.

The main content area is titled "Data Sets" and contains a table with the following data:

Target Data Set Name Filter	Target Volume Filter	Data Set Category Filter	Data Set Type Filter	Tracks Filter	Messages Filter	Source Data Set Name Filter	Source Filter
CB.OSHOOLI.AHOOBIN		Dlib	PDS	4		CB.OSHOOLI.AHOOBIN	SL8D3
CB.OSHOOLI.AHOOLMOD		Dlib	PDS	7		CB.OSHOOLI.AHOOLMOD	SL300
CB.OSHOOLI.GLOBAL.CSI		Global, Dlib, Target, SMP/E	VSAM	2		CB.OSHOOLI.GLOBAL.CSI	SL340
CB.OSHOOLI.SHOOLMOD		Target	PDS	7		CB.OSHOOLI.SHOOLMOD	SL8B2
CB.OSHOOLI.SMPLOG		Global, Dlib, Target, SMP/E	SEQ	4		CB.OSHOOLI.SMPLOG	SL731
CB.OSHOOLI.SMPPTS		Global, Dlib, Target, SMP/E	PDS	4		CB.OSHOOLI.SMPPTS	SL8E0
CB.OSHOOLI.SMPSCDS		Target, SMP/E	PDS	4		CB.OSHOOLI.SMPSCDS	SL743
CB.OSHOOLI.WORKFLOW		Workflow	PDSE	6		CB.OSHOOLI.WORKFLOW	SL743
CB.OSHOOLI.ZFS	VSMPD1	Target	ZFS	15		CB.OSHOOLI.ZFS	VSMPO

Total: 9 Selected: 0

At the bottom of the table are buttons for < Back, Next >, Save, Finish, and Cancel.

You will need to change the Target Volume for all the datasets listed. Click on the upper left checkbox to select all the data sets, then Click **Action -> Modify**.

Software Management

Software Management > Deployments > Deployment Checklist > Configure Deployment

Configure Deployment for SHARA02-TheBoxIII_PTFs

Data Sets

The Data Sets table lists the names, volumes, and storage classes that will be used for the data sets included in the target software instance, the Modify action to modify them.

	Target Volume Filter	Data Set Category Filter	Data Set Type Filter	Tracks Filter	Messa Filter
	Dlib	PDS	4		
	Dlib	PDS	7		
	Global, Dlib, Target, SMP/E	VSAM	2		
<input checked="" type="checkbox"/> CB.OSHOOLI.SHOOLOD	Target	PDS	7		
<input checked="" type="checkbox"/> CB.OSHOOLI.SMPLOG	Global, Dlib, Target, SMP/E	SEQ	4		
<input checked="" type="checkbox"/> CB.OSHOOLI.SMPPTS	Global, Dlib, Target, SMP/E	PDS	4		
<input checked="" type="checkbox"/> CB.OSHOOLI.SMPSCDS	Target, SMP/E	PDS	4		
<input checked="" type="checkbox"/> CB.OSHOOLI.WORKFLOW	Workflow	PDSE	6		
<input checked="" type="checkbox"/> CB.OSHOOLI.ZFS	VSMPD1	Target	ZFS	15	

Total: 9 Selected: 9

< Back Next > Save Finish Cancel

You can change the HLQ (and volume) of all these data sets very quickly.

Change the **To:** from **CB.OSHOOLI** to **<your_userid>.HOOOLI** You might need to change to a different HLQ, if someone else had done this lab before, and has selected the same HLQ as you. Just pick something with your userid in it, and “HOOOLI” so we know what we can clean up on the system.

Select **Storage class** and enter **TSOPPOOL** for the type, then click **OK**.

The screenshot shows the 'Software Management' interface for modifying data sets. In the 'Modify Data Sets' section, the 'From:' field is set to 'CB.OSHOOLI' and the 'To:' field is set to 'SHARA02.HOOOLI'. Under 'Specify SMS-managed options', the 'SMS-managed' radio button is selected. In the 'Selected Data Sets' table, nine data sets are listed with their target storage classes:

Target Data Set Name	Target Volume	Target Storage Class	Messages	Is Merged	Data Set Category	Data Set Type	Tracks	RECFM	Targ
CB.OSHOOLI.AHOOLBIN		STANDARD			Dlib	PDS	4	FB	
CB.OSHOOLI.AHOOLMOD		STANDARD			Dlib	PDS	7	U	
CB.OSHOOLI.GLOBAL.CSI		STANDARD			Global, Dlib, Target, SMP/E	VSAM	2		
CB.OSHOOLI.SHOOLMOD		STANDARD			Target	PDS	7	U	
CB.OSHOOLI.SMPLOG		STANDARD			Global, Dlib, Target,	SEQ	4	VB	

Total: 9 Selected: 9

OK Cancel

If you wanted to investigate more functions like renaming or moving data sets, select the data set(s) and then do **Actions->Modify**. To move through this lab quickly, though, we won't show that. It is pretty intuitive once you select the data set. Spend time on this option if you like. Click on **Next>** when you are done.

The screenshot shows the 'Configure Deployment for SHARA02-TheBoxIII_PTFs' screen under the 'Data Sets' section. The left sidebar includes options like Welcome, DLIBs, Model, SMP/E Zones, Data Sets (selected), Catalogs, Volumes and Storage Classes, and Mount Points. The main area displays a table of Data Sets with columns for Target Volume, Target Storage Class, Messages, Is Merged, Data Set Category, and Data Set Type. A context menu is open over the first row, with 'Modify' highlighted and circled in red. A yellow arrow points from the bottom right towards the 'Actions' menu.

	Target Volume	Target Storage Class	Messages	Is Merged	Data Set Category	Data Set Type
SHARA02.HOOLI.SHPOOLWUD	TSOPOOL				Dlib	PDS
SHARA02.HOOLI.SMPLOG	TSOPOOL				Dlib	PDS
SHARA02.HOOLI.SMPPTS	TSOPOOL				Global, Dlib, Target, SMP/E	VSAM
	TSOPOOL				Global, Dlib, Target, SMP/E	Target
	TSOPOOL				Global, Dlib, Target, SMP/E	SEQ
	TSOPOOL				Global, Dlib, Target, SMP/E	PDS

Here is where you would ensure the cataloging is as desired. If you want to investigate, just select your Prefix, and then **Actions ->** and what you'd like to do.

Click **Next >** to continue.

The screenshot shows the 'Configure Deployment for SHARA02-TheBoxIII' screen under the 'Catalogs' section. The left sidebar includes Welcome, DLIBs, Model, SMP/E Zones, Data Sets, Catalogs (selected), Catalogs, Volumes and Storage Classes, and Mount Points. The main area displays a table of Target Data Set Name Prefixes with columns for Catalog Data Sets, Catalog the Data Sets?, Catalog Name, Catalog Type, and Messages. A context menu is open over the first row, with 'Select All' highlighted and circled in red. A yellow arrow points from the bottom right towards the 'Actions' menu.

	Catalog Data Sets	Catalog the Data Sets?	Catalog Name	Catalog Type	Messages
SHARA02.HOOLI.SHMASTER.CAT	Do Not Catalog Data Sets	Yes (Required)	CATALOG.SHMASTER.CAT	MASTER	

Next up is Volumes and Storage Classes. Since we updated this in the **Data Sets** step, this product will use Storage Classes. You could change volumes or Storage Classes here if you wanted. Keep going. Click **Next>**.

The screenshot shows the 'Configure Deployment for SHARA02-TheBoxIII' page under 'Software Management'. On the left, a sidebar lists completed steps: Welcome, DLIBs, Model, SMP/E Zones, Data Sets, Catalogs, and Volumes and Storage Classes (which is currently selected). Below that are Mount Points and a 'Help' link.

Volumes and Storage Classes

The 'Target Volumes' section displays a table with columns: Volume Filter, Total Capacity (MB) Filter, Current Allocated Space (MB) Filter, Current Allocated Space (%) Filter, Messages Filter, Allocated Space After Deployment (MB) Filter, Allocated Space After Deployment (%) Filter, Allocated Space Delta (MB) Filter, Planned Threshold (%) Filter, Initialize Volume Filter, Catalog Method Filter, and Indi Ent Filter. A message below the table states: 'There is no data to display.'

Target Storage Classes

The 'Target Storage Classes' section displays a table with columns: Storage Class Filter and Space Required (MB) Filter. One row is shown: SHARE with a value of 1.36. A 'Refresh' button is available at the bottom of this section.

At the bottom of the page are buttons for '< Back', 'Next >', and 'Cancel'. A large yellow arrow points from the bottom center towards the 'Next >' button.

We are now at the last configurable change to do for the deployment: **Mount Points**. Select the mount point listed, click **Actions -> Modify Target Mount Point**.

The screenshot shows the 'Configure Deployment for SHARA02-TheBoxIII' screen under the 'Mount Points' section. The left sidebar has a tree view with 'Mount Points' selected. The main area displays a table of mount points. A yellow arrow points to the 'Actions' dropdown menu, which is open and shows the 'Modify Target Mount Point' option highlighted.

Target Data Set Name Filter	Source mount point Filter	Source Data Set Name Filter
IBMSUSR6.HOOLI.ZFS	/u/ibmsusr6/hooli	IBMSUSR6.HOOLI.ZFS

Change the To: to /u/<yourid>/hooli, and click OK.

The screenshot shows the 'Modify Target Mount Point' dialog box. It has fields for 'From' (set to /u/shara02/hooli) and 'To' (set to /u/shara02/hooli). Below is a table of selected mount points. A yellow arrow points to the 'OK' button.

Target mount point	Target Data Set Name	Source mount point	Source Data Set Name
/u/shara02/hooli	SHARA02.HOOLI.ZFS	/u/wallen/hooli	CB.OSHOOLI.ZFS

Then on the next screen click **Finish**.

Software Management > Deployments > Deployment Checklist > Configure Deployment

Configure Deployment for SHARA02-TheBoxIII_PTFs

Mount Points

The Mount Points table lists the mount points that will be used for the UNIX file system data sets included in the target software instance. Accept the default mount points, or use the **Modify Target Mount Point** action to modify them.

Target mount point	Target Data Set Name	Source mount point	Source Data Set Name
/u/shara02/hooli	SHARA02.HOOLI.ZFS	/u/wallen/hooli	CB.OSHOOLI.ZFS

Total: 1 Selected: 1

< Back Next > Save Finish

Back on the Deployment Checklist, we are moving right along. Click on **Define the job settings. z/OSMF creates the deployment summary and jobs.**

Software Management > Deployments > Deployment Checklist

Deployment Checklist

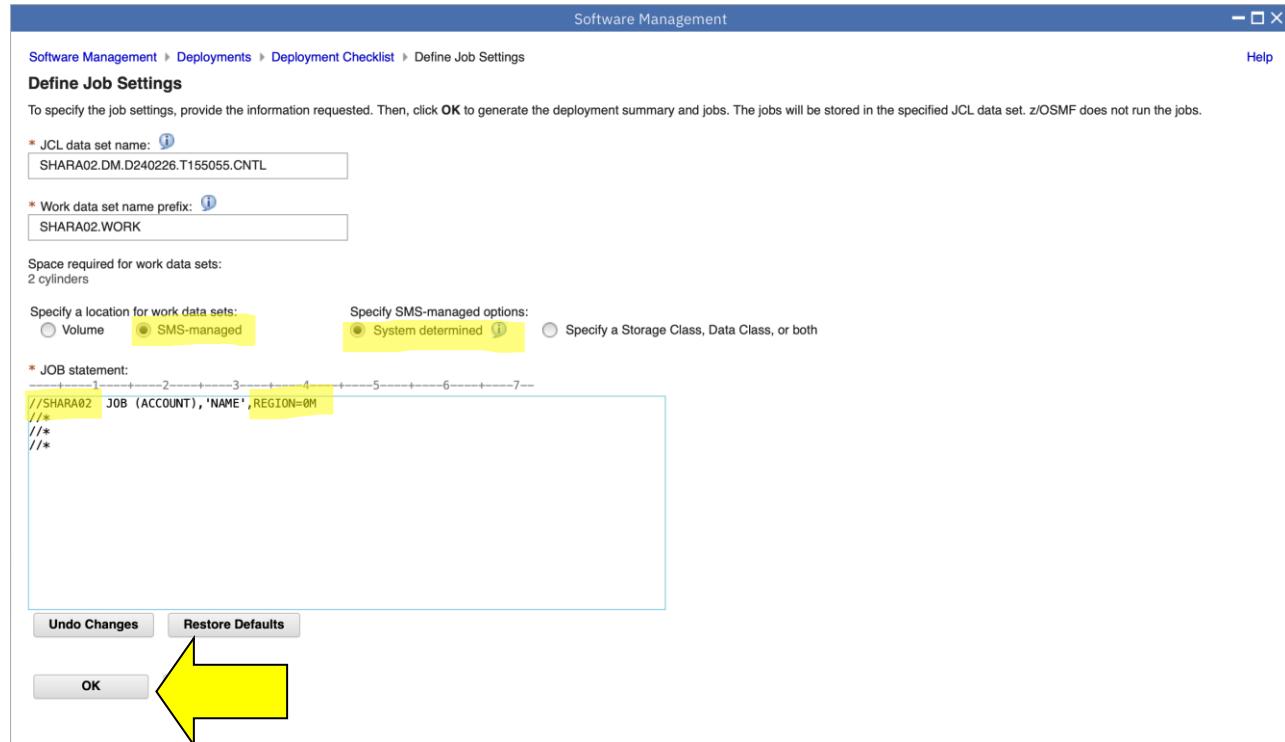
To deploy software, complete the checklist.

Checklist	Step
Progress	Specify the properties for this deployment.
Progress	Select the software to deploy.
Progress	Select the objective for this deployment.
Progress	Check for missing SYSMODs. <ul style="list-style-type: none"> View missing SYSMOD reports.
Progress	Configure this deployment.
Progress	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none"> View the deployment summary.
	Submit deployment jobs.
	Perform workflows.
	Specify the properties for the target software instance.

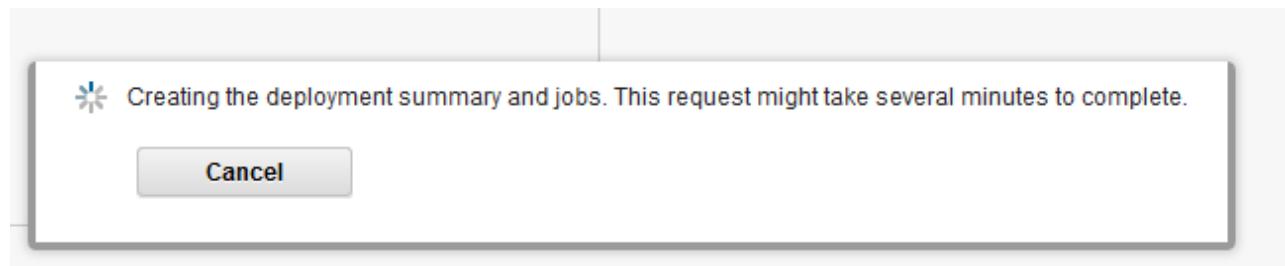
Close

The deployment process we just went through will create a series of jobs to run. You can indicate where you want the jobs stored, and the JOB statement to use. You will also need some temporary space and you can indicate that here. Use “**System determined**” to show that we’ll just let the DFSMSsms ACS routines handle where to put this temporary space

For now, update the **JOBNAME** and ensure you have **REGION=0M** then click on **OK**.



Jobs are created:



Back on the Deployment Checklist, click on **Submit deployment jobs**.

Progress	Step
<input checked="" type="checkbox"/>	Specify the properties for this deployment.
<input checked="" type="checkbox"/>	Select the software to deploy.
<input checked="" type="checkbox"/>	Select the objective for this deployment.
<input checked="" type="checkbox"/>	Check for missing SYSMODs. <ul style="list-style-type: none"> • View missing SYSMOD reports.
<input checked="" type="checkbox"/>	Configure this deployment.
<input checked="" type="checkbox"/>	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none"> • View the deployment summary.
<input checked="" type="checkbox"/>	Submit deployment jobs.
	Perform workflows.
	Specify the properties for the target software instance.

Close

In the deployment window, select the first job, and click **Actions -> Submit Job**. You can read the description of what each of the jobs will do.

Click Refresh, eventually the Status will move to complete.

Submit Deployment Jobs																									
Review the jobs created for this deployment, and submit the jobs in sequential order. When all the jobs are complete, click Close to proceed to the next step in the deployment checklist.																									
JCL data set name: SHARA02.DM.D200220.T123856.CNTL Target system: S2																									
Jobs																									
Actions ▾ <ul style="list-style-type: none"> View Submit Job (selected) Purge... Cancel... Override Complete <input checked="" type="checkbox"/> Select All <input type="checkbox"/> Deselect All Configure Columns... Hide Filter Row Clear Sorts Export Table Data ▾ Print Table Data ▾ 	<table border="1"> <thead> <tr> <th></th> <th>System Filter</th> <th>Status Filter</th> <th>Messages Filter</th> <th>Job Name Filter</th> </tr> </thead> <tbody> <tr> <td>Unzip Data Sets: Extract the target software instance data sets from the portable software instance archive files, into the location defined by the deployment configuration, using temporary and unique data set names.</td> <td>S2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their desired names defined by the deployment configuration, and update catalog entries for the data sets as needed.</td> <td>S2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Update CSI Data Sets: Update the entries within the SMP/E CSI data sets to reflect the target software instance zone names, data set names and locations, and UNIX directory prefixes.</td> <td>S2</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Total: 3 Selected: 1</p> <p>Refresh Last refresh: Feb 20, 2020, 12:56:26 PM local time (Feb 20, 2020, 5:56:26 PM GMT)</p> <p>Close</p>						System Filter	Status Filter	Messages Filter	Job Name Filter	Unzip Data Sets: Extract the target software instance data sets from the portable software instance archive files, into the location defined by the deployment configuration, using temporary and unique data set names.	S2				Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their desired names defined by the deployment configuration, and update catalog entries for the data sets as needed.	S2				Update CSI Data Sets: Update the entries within the SMP/E CSI data sets to reflect the target software instance zone names, data set names and locations, and UNIX directory prefixes.	S2			
	System Filter	Status Filter	Messages Filter	Job Name Filter																					
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Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their desired names defined by the deployment configuration, and update catalog entries for the data sets as needed.	S2																								
Update CSI Data Sets: Update the entries within the SMP/E CSI data sets to reflect the target software instance zone names, data set names and locations, and UNIX directory prefixes.	S2																								

To see the Job output, select the job, click **Actions -> View -> Job Output**.

Software Management

Software Management > Deployments > Deployment Checklist > Submit Deployment Jobs

Submit Deployment Jobs

Messages 0 0 1

Job "SHARA02P" (JOB14763) has been submitted. IZUD786I Feb 20, 2020, 12:58:53 PM

Review the jobs created for this deployment, and submit the jobs in sequential order. When all the jobs are complete, click **Close** to proceed to the next step in the deployment checklist.

JCL data set name: SHARA02.DM.D200220.T123856.CNTL
Target system: S2

Jobs

Actions	View	JCL	Job Output	System Filter	Status Filter	Messages Filter	Job Name Filter
<input checked="" type="checkbox"/> Select All <input type="checkbox"/> Deselect All <input type="checkbox"/> Configure Columns... <input type="checkbox"/> Hide Filter Row <input type="checkbox"/> Clear Sorts <input type="checkbox"/> Export Table Data <input type="checkbox"/> Print Table Data	<input type="button" value="Refresh"/> Last refresh: Feb 20, 2020, 12:59:24 PM local time (Feb 20, 2020, 5:59:24 PM GMT)	Unzip Data Sets: Extract the target software instance data sets from the portable software instance archive files, into the location defined by the deployment configuration, using temporary and unique data set names. Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their desired names defined by the deployment configuration, and update catalog entries for the data sets as needed.					
		S2	Complete				SHARA02P

Actions

View > JCL > Job Output

Close

When you're done you can click **Close**.

Software Management

Software Management > Deployments > Deployment Checklist > Submit Deployment Jobs > View Job Output

View Job Output

Name: SHARA02 ID: JOB30480 Class: A Status: Complete Return code: CC 0000

JESMSGGL	JESJCL	JESYSMSG	SYSPRINT	STDOUT	SYSPRINT	STDOUT	SMPOUT	SYSPRINT	STDOUT	STDERR	SYSPRINT
DD name:	Step name:	Procedure step name:	Dataset ID:	Class:	Record count:	Byte count:					
JESMSGGL	JES2		2	A	31	2603					

Output (2.54 of 2.54 KB shown)

```

1 J E S 2 J O B L O G — S Y S T E M S 2 — N O D E N 1
0
15.57.54 JOB30480 ----- MONDAY, 26 FEB 2024 -----
15.57.54 JOB30480 IRR101 USERID SHARA02 IS ASSIGNED TO THIS JOB.
15.57.54 JOB30480 IC700011 SHARA02 LAST ACCESS AT 13:28:58 ON MONDAY, FEBRUARY 26, 2024
15.57.54 JOB30480 SHASP373 SHARA02 STARTED - INIT 1 - CLASS A - SYS S2
15.57.55 JOB30480 -
15.57.55 JOB30480 --TIMINGS (MINS.)-- ----PAGING COUNTS----
15.57.55 JOB30480 -JOBNAME STEPNAM PROCSTEP RC EXCP CPU SRB CLOCK SERV PG PAGE SWAP VIO SWAPS STEPNO
15.57.55 JOB30480 -SHARA02 DELCATDS 00 .00 .00 .01 145 0 0 0 0 0 0 0 1
15.57.55 JOB30480 -SHARA02 PREPARE 00 56 .00 .00 124 0 0 0 0 0 0 0 2
15.57.56 JOB30480 -SHARA02 DEFZFS 00 27 .00 .00 184 0 0 0 0 0 0 0 3
15.57.59 JOB30480 -SHARA02 MOUNT 00 58 .00 .00 114 0 0 0 0 0 0 0 4
15.57.59 JOB30480 IKJ562281 DATA SET SHARA02.HOOL1.AHOLBLIN.# NOT IN CATALOG OR CATALOG CAN NOT BE ACCESSED
15.57.59 JOB30480 IKJ562281 DATA SET SHARA02.HOOL1.AHOOLMD.# NOT IN CATALOG OR CATALOG CAN NOT BE ACCESSED
15.58.01 JOB30480 IKJ562281 DATA SET SHARA02.HOOL1.SHOOLMD.# NOT IN CATALOG OR CATALOG CAN NOT BE ACCESSED
15.58.01 JOB30480 IKJ562281 DATA SET SHARA02.HOOL1.SMPLOG.# NOT IN CATALOG OR CATALOG CAN NOT BE ACCESSED
15.58.01 JOB30480 IKJ562281 DATA SET SHARA02.HOOL1.SMPPTS.# NOT IN CATALOG OR CATALOG CAN NOT BE ACCESSED
15.58.02 JOB30480 IKJ562281 DATA SET SHARA02.HOOL1.SMPSCDS.# NOT IN CATALOG OR CATALOG CAN NOT BE ACCESSED
15.58.02 JOB30480 IKJ562281 DATA SET SHARA02.HOOL1.WORKFLOW.# NOT IN CATALOG OR CATALOG CAN NOT BE ACCESSED
15.58.04 JOB30480 -SHARA02 GIMUNZIP 00 4197 .00 .08 4711 0 0 0 0 0 0 0 5
15.58.04 JOB30480 -SHARA02 UNMOUNT 00 63 .00 .00 136 0 0 0 0 0 0 0 6
15.58.05 JOB30480 -SHARA02 DELZFS 00 21 .00 .01 160 0 0 0 0 0 0 0 7
15.58.05 JOB30480 -SHARA02 ENDED. NAME=NAME TOTAL CPU TIME=.00 TOTAL ELAPSED TIME=.17
15.58.05 JOB30480 $HASP395 SHARA02 ENDED - RC=0000
0----- JES2 JOB STATISTICS -----
- 26 FEB 2024 JOB EXECUTION DATE
- 201 CARDS READ

```

Refresh Close

Go ahead and submit the other 2 Jobs. Click **Close** when you have completed all three jobs.

Software Management > Deployments > Deployment Checklist > Submit Deployment Jobs

Submit Deployment Jobs

Review the jobs created for this deployment, and submit the jobs in sequential order. When all the jobs are complete, click **Close** to proceed to the next step in the deployment checklist.

JCL data set name: SHARA02.DM.D240226.T155055.CNTL
Target system: S2

Jobs

Sequence	JCL Data Set Member Name	Description	System	Status	Messages	Job Name	Job
<input type="checkbox"/> Filter	<input type="checkbox"/> Filter	<input type="checkbox"/> Filter	<input type="checkbox"/> Filter	<input type="checkbox"/> Filter	<input type="checkbox"/> Filter	<input type="checkbox"/> Filter	<input type="checkbox"/> Filter
1	IZUD01UZ	Unzip Data Sets: Extract the target software instance data sets from the portable software instance archive files, into the location defined by the deployment configuration, using temporary and unique data set names.	S2	<input checked="" type="checkbox"/> Complete		SHARA02	JC
2	IZUD02RN	Rename Data Sets: Rename the target software instance data sets from their temporary and unique names to their true names defined by the deployment configuration, and update catalog entries for the data sets as needed.	S2	<input checked="" type="checkbox"/> Complete		SHARA02	JC
3	IZUD03UC	Update CSI Data Sets: Update the entries within the SMP/E CSI data sets to reflect the target software instance zone names, data set names and locations, and UNIX directory prefixes.	S2	<input checked="" type="checkbox"/> Complete		SHARA02	JC

Total: 3 Selected: 0

Refresh Last refresh: Feb 26, 2024, 4:35:09 PM local time (Feb 26, 2024, 9:35:09 PM GMT)

Close

Back on the Deployment Checklist, click on **Perform workflows**.

Software Management > Deployments > Deployment Checklist

Deployment Checklist

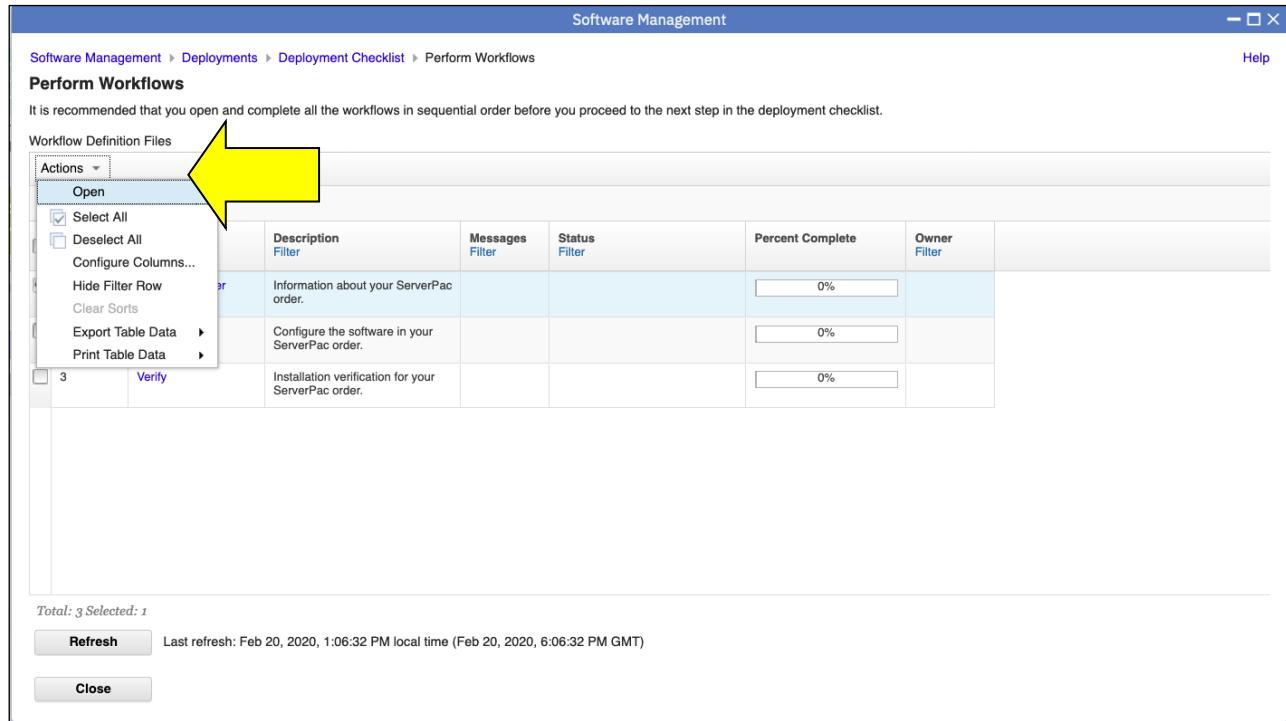
To deploy software, complete the checklist.

Checklist

Progress	Step
<input checked="" type="radio"/>	Specify the properties for this deployment.
<input checked="" type="radio"/>	Select the software to deploy.
<input checked="" type="radio"/>	Select the objective for this deployment.
<input checked="" type="radio"/>	Check for missing SYSMODs. <ul style="list-style-type: none"> View missing SYMOD reports.
<input checked="" type="radio"/>	Configure this deployment.
<input checked="" type="radio"/>	Define the job settings. z/OSMF creates the deployment summary and jobs. <ul style="list-style-type: none"> View the deployment summary.
<input checked="" type="radio"/>	Submit deployment jobs.
<input checked="" type="radio"/>	Perform workflows.
	Specify the properties for the target software instance.

Close

In the Perform Workflow window, you will see there are 3 workflows. Select the first workflow, About your order, and click **Actions -> Open**

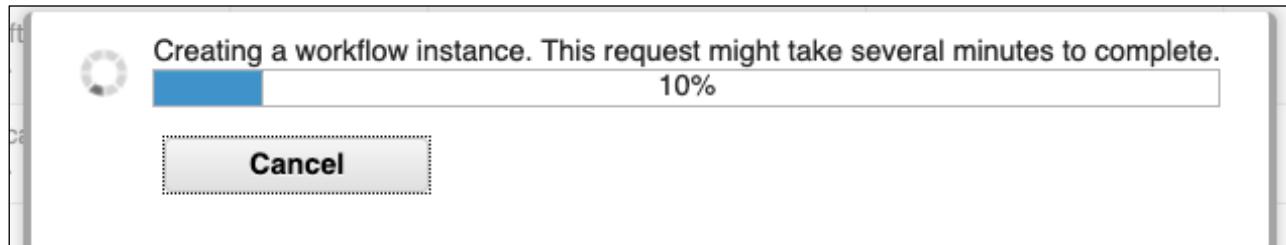


The screenshot shows the 'Perform Workflows' page in the Software Management application. The page title is 'Software Management > Deployments > Deployment Checklist > Perform Workflows'. It displays three workflow items in a table:

Workflow Definition Files	Description	Messages	Status	Percent Complete	Owner
Information about your ServerPac order.			0%		
Configure the software in your ServerPac order.			0%		
Installation verification for your ServerPac order.			0%		

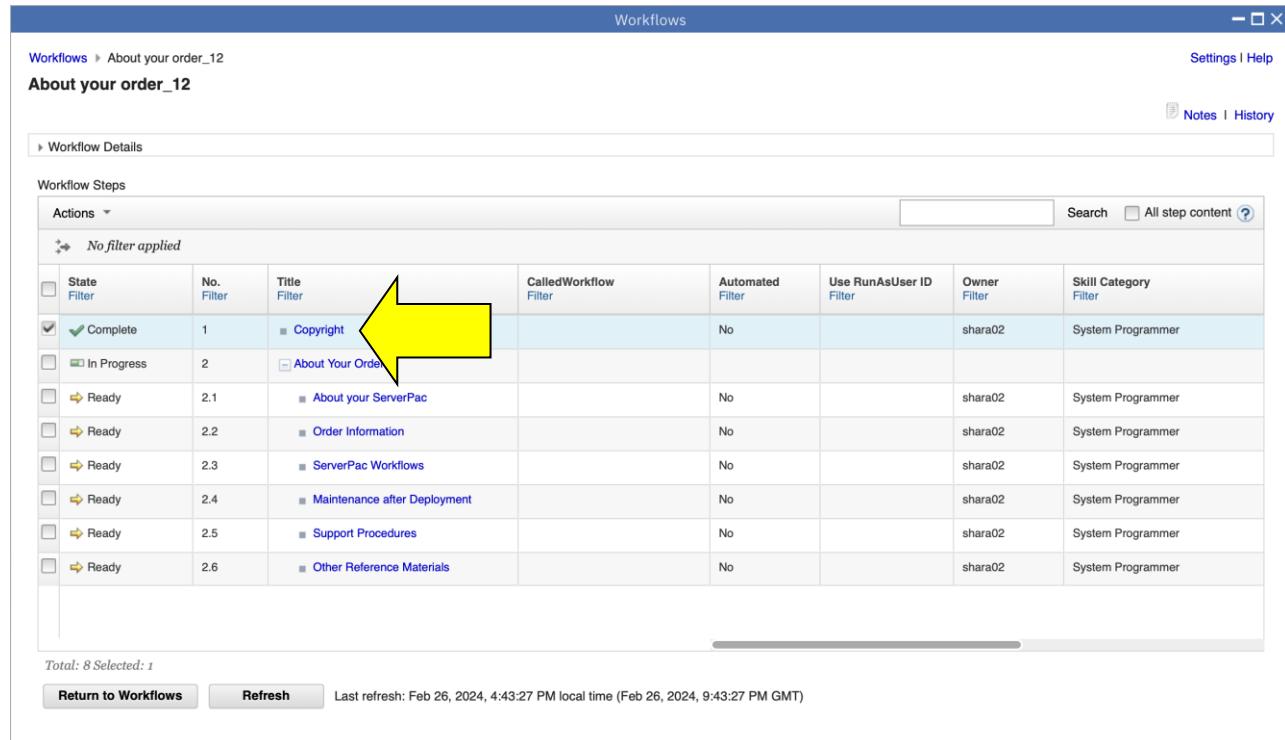
A yellow arrow points to the 'Actions' dropdown menu for the first workflow, 'Information about your ServerPac order'. The menu options include: Actions, Open, Select All, Deselect All, Configure Columns..., Hide Filter Row, Clear Sorts, Export Table Data, and Print Table Data. The 'Open' option is highlighted. At the bottom of the page, there are buttons for Refresh, Last refresh: Feb 20, 2020, 1:06:32 PM local time (Feb 20, 2020, 6:06:32 PM GMT), and Close.

This action will create the workflow “About your order”. Once created, it will bring you into that workflow, in another window.



In the Workflow, **About your order**, You will see two steps, **Copyright** (a Leaf Step) and **About Your Order** (A Parent Step), and if you click on the + next to **About Your Order**, you will see several additional leaf steps.

To perform the step, select the step, then click on the title, (example click on **Copyright**)



The screenshot shows the 'Workflows' application interface. The title bar says 'Workflows' and the page title is 'About your order_12'. The main area is titled 'Workflow Steps' and contains a table with columns: State Filter, No. Filter, Title Filter, CalledWorkflow Filter, Automated Filter, Use RunAsUser ID Filter, Owner Filter, and Skill Category Filter. There are 8 rows in the table. Row 1 is selected and highlighted in blue, showing 'Complete' status, '1' as the number, and 'Copyright' as the title. A yellow arrow points to the 'Copyright' title. Row 2 shows 'In Progress' status, '2' as the number, and 'About Your Order' as the title, with a '+' sign indicating it's a parent step. Rows 3 through 8 show various 'Ready' statuses and titles like 'About your ServerPac', 'Order Information', etc., each preceded by a '+' sign. At the bottom left, it says 'Total: 8 Selected: 1'. At the bottom center, there are 'Return to Workflows' and 'Refresh' buttons, and the text 'Last refresh: Feb 26, 2024, 4:43:27 PM local time (Feb 26, 2024, 9:43:27 PM GMT)'.

Action	No. Filter	Title Filter	CalledWorkflow Filter	Automated Filter	Use RunAsUser ID Filter	Owner Filter	Skill Category Filter
<input checked="" type="checkbox"/> Complete	1	Copyright		No		shara02	System Programmer
<input type="checkbox"/> In Progress	2	+ About Your Order					
<input type="checkbox"/> Ready	2.1	+ About your ServerPac		No		shara02	System Programmer
<input type="checkbox"/> Ready	2.2	+ Order Information		No		shara02	System Programmer
<input type="checkbox"/> Ready	2.3	+ ServerPac Workflows		No		shara02	System Programmer
<input type="checkbox"/> Ready	2.4	+ Maintenance after Deployment		No		shara02	System Programmer
<input type="checkbox"/> Ready	2.5	+ Support Procedures		No		shara02	System Programmer
<input type="checkbox"/> Ready	2.6	+ Other Reference Materials		No		shara02	System Programmer

Total: 8 Selected: 1

[Return to Workflows](#) [Refresh](#) Last refresh: Feb 26, 2024, 4:43:27 PM local time (Feb 26, 2024, 9:43:27 PM GMT)

The **Copyright** is informational only, go ahead and click on the different tabs. When you get to **Perform**, click on **Finish**.

The rest of the steps in this workflow are also informational. Complete each step until all the steps are complete.

<input type="checkbox"/> State Filter	No. Filter	Title Filter	CalledWorkflow Filter	Automated Filter	Use RunAsUser ID Filter	Owner Filter	Skill Category Filter
<input checked="" type="checkbox"/>	1	Copyright		No		shara02	System Programmer
<input checked="" type="checkbox"/>	2	About Your Order					
<input checked="" type="checkbox"/>	2.1	About your ServerPac		No		shara02	System Programmer
<input checked="" type="checkbox"/>	2.2	Order Information		No		shara02	System Programmer
<input checked="" type="checkbox"/>	2.3	ServerPac Workflows		No		shara02	System Programmer
<input checked="" type="checkbox"/>	2.4	Maintenance after Deployment		No		shara02	System Programmer
<input checked="" type="checkbox"/>	2.5	Support Procedures		No		shara02	System Programmer
<input checked="" type="checkbox"/>	2.6	Other Reference Materials		No		shara02	System Programmer

Total: 8 Selected: 1

[Return to Workflows](#) [Refresh](#) Last refresh: Feb 26, 2024, 4:48:12 PM local time (Feb 26, 2024, 9:48:12 PM GMT)

You can click on **Return to Workflows** when you are ready to go back to your deployment tasks in z/OSMF Software Management from Workflows.

Go back to **Software Management** window, **Perform Workflow** and click **Refresh**, you will see that the About your order step will be marked Complete.

Software Management

Software Management > Deployments > Deployment Checklist > Perform Workflows

Perform Workflows

It is recommended that you open and complete all the workflows in sequential order before you proceed to the next step in the deployment checklist.

Workflow Definition Files

Action	Sequence	Name	Description	Messages	Status	Percent Complete	Owner
<input type="checkbox"/>	1	About your order	Information about your ServerPac order.		<input checked="" type="checkbox"/> Complete	100%	shara02
<input type="checkbox"/>	2	Configuration	Configure the software in your ServerPac order.			0%	
<input type="checkbox"/>	3	Verify	Installation verification for your ServerPac order.			0%	

Total: 3 Selected: 0

Refresh Close

2020, 1:42:31 PM local time (Feb 20, 2020, 6:42:31 PM GMT)

Complete all three workflows if you feel like it. (Note: Some steps will have JCL jobs to run) and click **Close** when you don't want to do more Workflow tasks...

Software Management

Software Management > Portable Software Instances > Deployments > Deployment Checklist > Perform Workflows

Perform Workflows

It is recommended that you open and complete all the workflows in sequential order before you proceed to the next step in the deployment checklist.

Workflow Definition Files

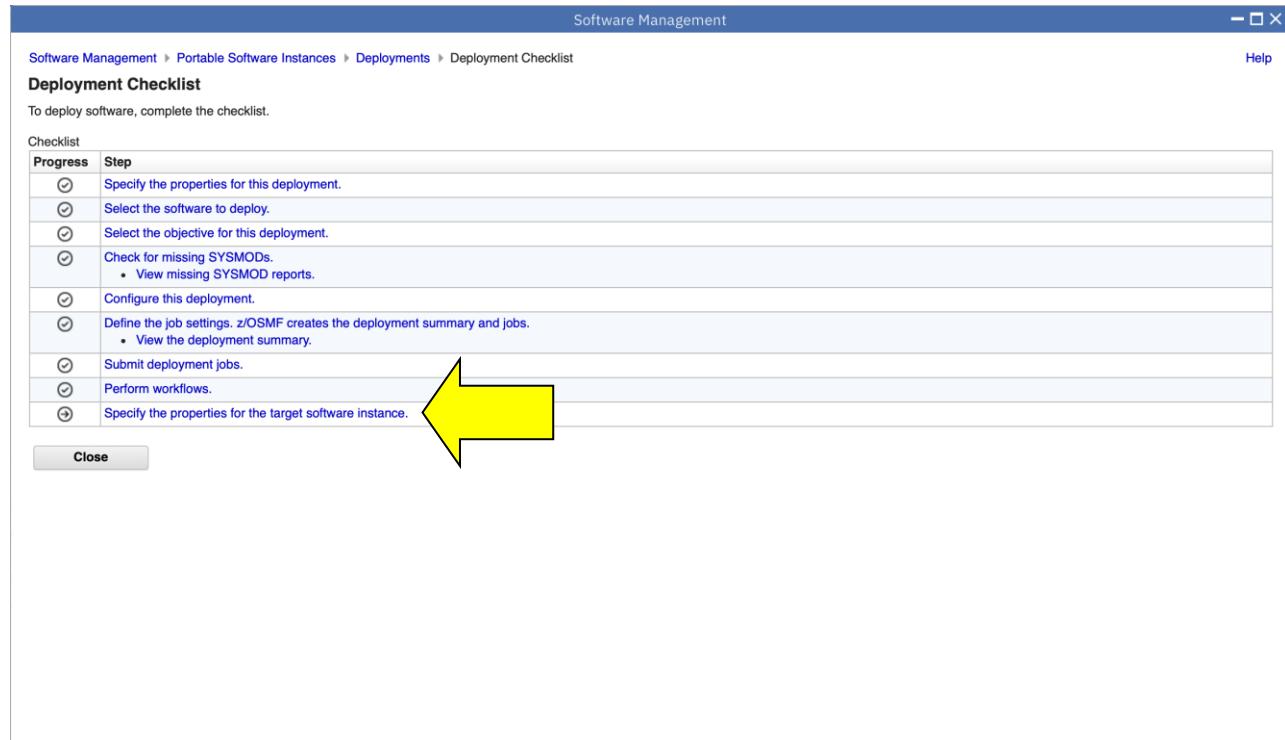
Action	Sequence	Name	Description	Messages	Status	Percent Complete	System	Owner
<input type="checkbox"/>	1	About your order_12	Information about your ServerPac order.		<input checked="" type="checkbox"/> Complete	100%	S2	shara02
<input type="checkbox"/>	2	Configuration_7	Configure the software in your ServerPac order.		<input checked="" type="checkbox"/> Complete	100%	S2	shara02
<input type="checkbox"/>	3	Verify_7	Installation verification for your ServerPac order.		<input checked="" type="checkbox"/> Complete	100%	S2	shara02

Total: 3 Selected: 0

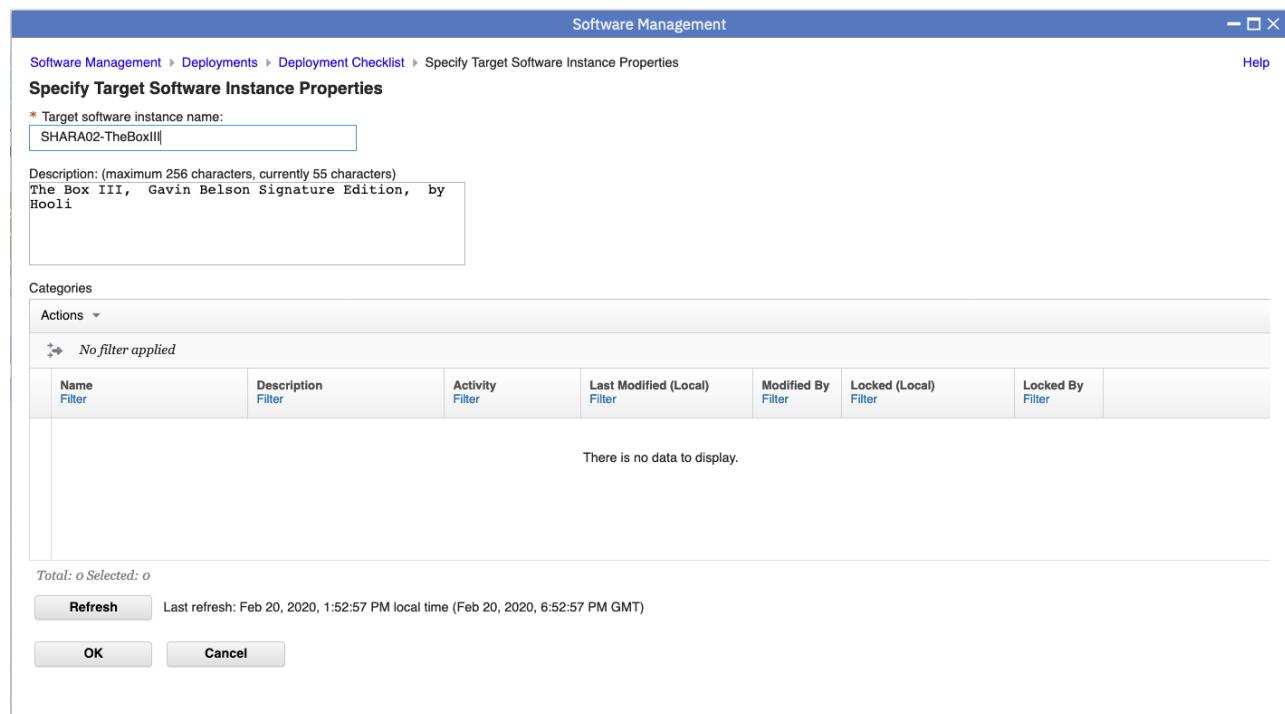
Refresh Close

Last Refresh: Feb 26, 2024, 4:53:02 PM local time (Feb 26, 2024, 9:53:02 PM GMT)

Back on the Deployment Checklist, click on **Specify the properties for the target software instance.**



Now that you have this product install, you could give it another software instance name, for instance <your_userid>-TheBoxIII_PTFs_Install Click OK.



Congratulations!! You have just deployed a Portable Software Instance. You should will now get 3 messages. You can **Close** out of this window.

The product, feature, and FMID information for software instance "SHARA02-TheBoxIII" on system "S2" was retrieved.	IZUD164I Feb 20, 2020, 1:54:40 PM	X
Deployment "SHARA02TheBoxIII" is complete.	IZUD155Feb 20, 2020, 1:54:38 PM	X
Target software instance "SHARA02-TheBoxIII" was added or updated.	IZUD154Feb 20, 2020, 1:54:38 PM	X

Clean up

After you've done all the poking around that you like on this deployment, it would be nice of you to delete your deployment you just made to keep unnecessary deployments cleaned off the system. Click on **Deployments**, select your own deployment, then **Actions -> Remove**. (Make sure to check to delete the workflow instances associated with the selected deployment)

From the Software Management window, go back to the **Portable Software Instances**, select your PSI and click **Actions -> Remove**.

Thank you for being a good user on our system!