

z/OSMF Hands-On Labs

- Choose Your Own Topic –

**Using the z/OS installation Strategy
Creating 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 create a portable software nstance (PSI).

So, your company Hooli has developed a great new product called “The Box IIII”! You now would like to package this product up as a Portable Software Instance so you can distribute it to you customers. What’s next? A very simple creation of a PSI using z/OSMF Software Management.

What level of z/OSMF do you need to package 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. Create a PSI of a software product using z/OSMF Software Management’s Software Instances and Portable Software Instances tasks.

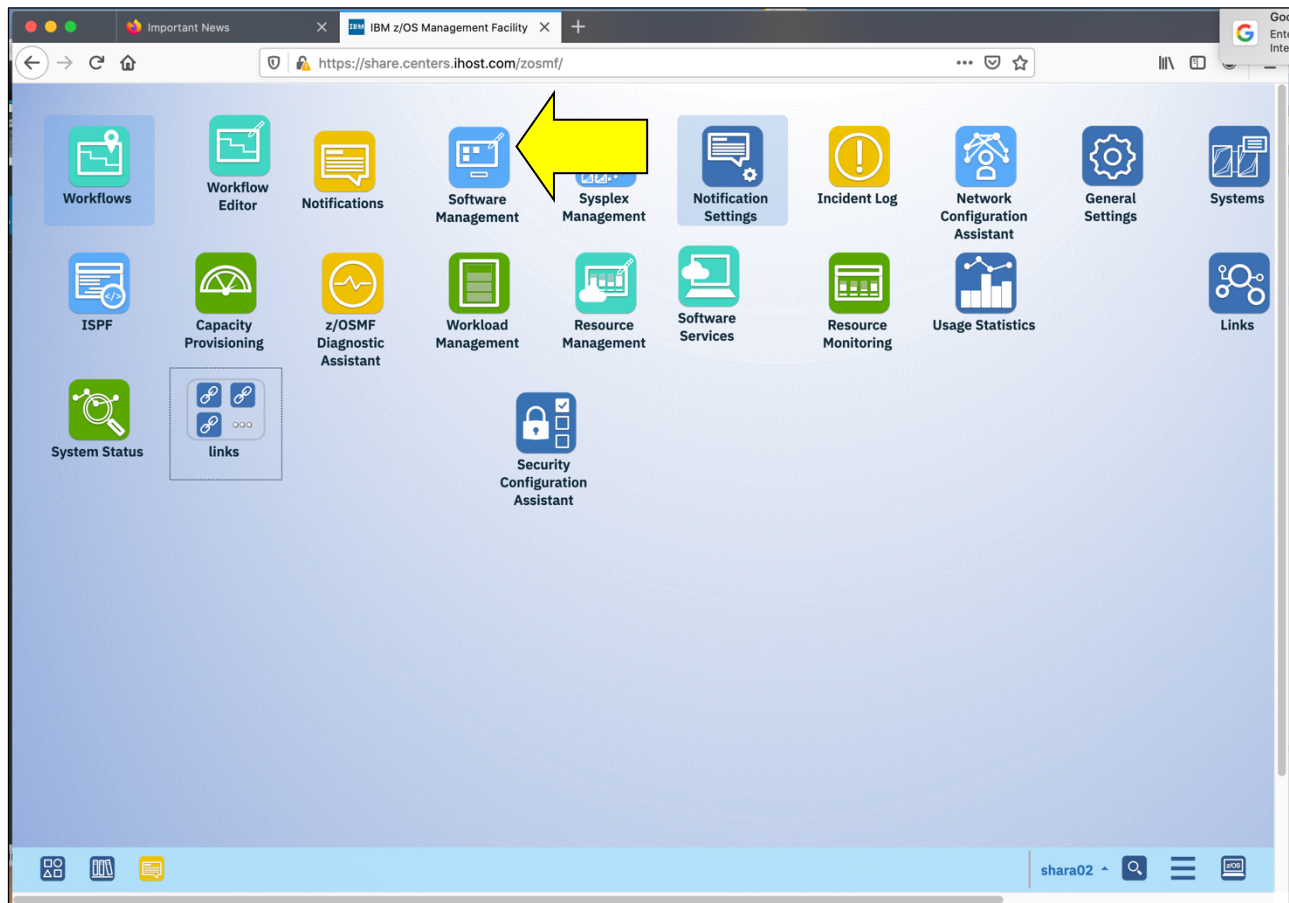
Logon to z/OSMF.

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 V2.5 system.

- 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.).
- 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) are on the z/OS system.
- Click on “LOG IN”.

The screenshot shows the z/OSMF login interface in a web browser. The address bar contains the URL <https://share.centers.ihost.com/zosmf/>, which is highlighted by a yellow arrow labeled #1a. The page title is "IBM z/OS Management Facility". The main heading is "Welcome to z/OS", followed by the text "The highly secure, scalable and resilient enterprise operating system for the IBM z Systems mainframe." Below this, there are two input fields: "z/OS USER ID" with the value "shara02" and "z/OS PASSWORD" with masked characters ".....". A yellow arrow labeled #1b points to the password field. Below the password field is a blue "LOG IN" button, which is highlighted by a yellow arrow labeled #1c. The footer contains links for "Shopz", "IBM Support", "z Systems Redbooks", "z/OSMF home Page", "WCS Flashes and Techdocs", "z/OS home Page", and "z/OS Knowledge Center". The copyright notice at the bottom right is "© Copyright IBM Corp. 2009.2019, Version 2.4".

Click on “**Software Management**”.



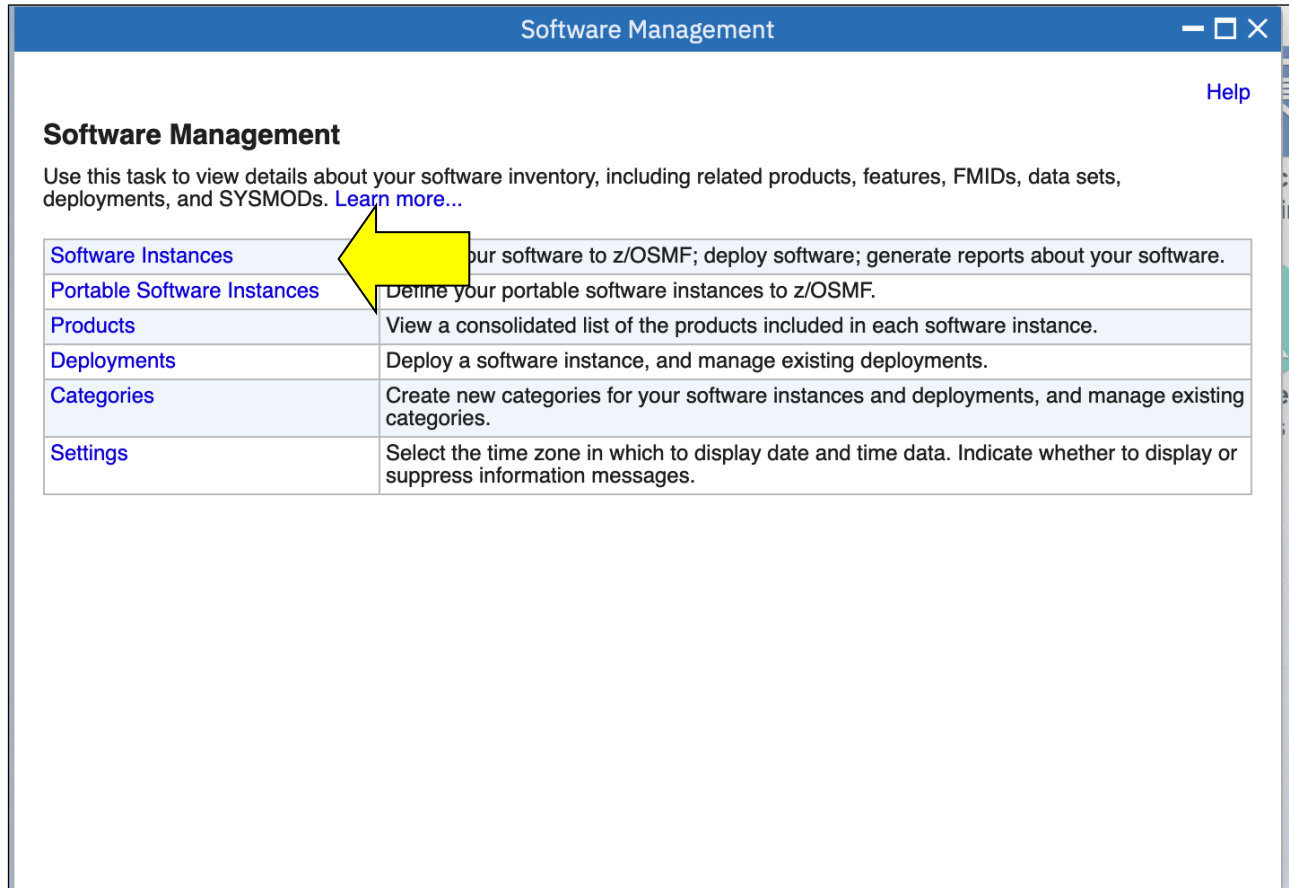
Role of the Software Vendor: define a Portable Software Instance

First, let's see how anyone, including z/OS software vendor, could provide the product we described before. There are two portions of defining a Portable Software instance:

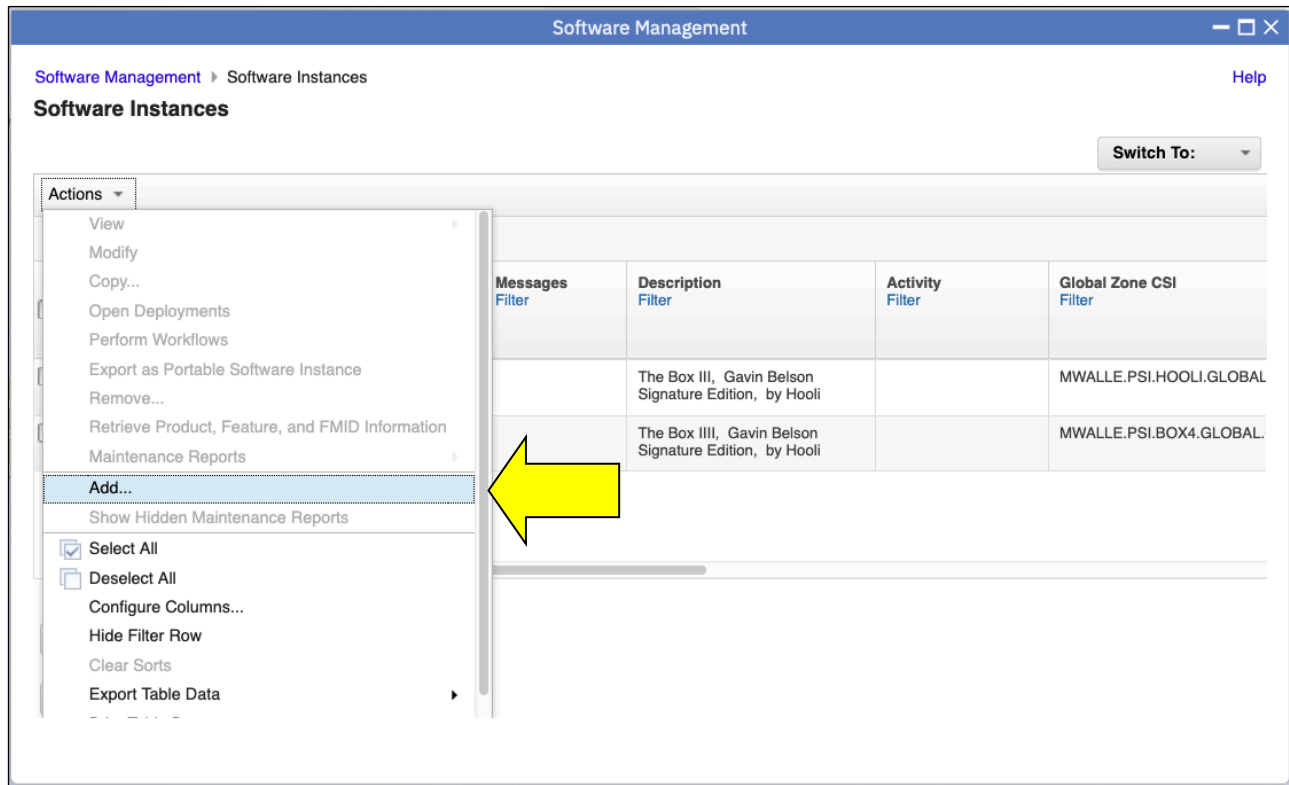
- 1) Creating a Software Instance, and
- 2) Taking that Software Instance and making it ("exporting") a Portable Software Instance.

We will now go through the creation of a Software Instance

Click on **"Software Instances"**.



You will probably see many Software Instance already on the system. You want to create a new one. Click on **Actions-> Add**.



The screenshot shows the 'Software Management' window. The breadcrumb navigation indicates 'Software Management > Software Instances'. The 'Software Instances' title is at the top left, and a 'Help' link is at the top right. A 'Switch To:' dropdown is located in the top right corner of the main content area. On the left, an 'Actions' dropdown menu is open, listing various actions. The 'Add...' option is highlighted with a blue background. A large yellow arrow points from the 'Add...' option to the table on the right. The table has four columns: 'Messages Filter', 'Description Filter', 'Activity Filter', and 'Global Zone CSI Filter'. It contains two rows of data.

Messages Filter	Description Filter	Activity Filter	Global Zone CSI Filter
	The Box III, Gavin Belson Signature Edition, by Hooli		MWALLE.PSI.HOOLI.GLOBAL
	The Box III, Gavin Belson Signature Edition, by Hooli		MWALLE.PSI.BOX4.GLOBAL

Now, we have to provide some details for our Software Instance. You can see the mini-wizard on the left; the steps we need to go through. Provide the following information:

- **Name:** use the userid you are logged onto z/OSMF with, and **-PSI-V1R1**. For instance, if you were logged on with SHARA02, your **Name** would be **SHARA02-PSI-V1R1**. We are putting the V1R1 to indicate the release level of this product.
- **Description:** give whatever description you like, to describe this product (Software Instance).
- Click **Next>** to continue.

The screenshot shows the 'Software Management' window with the 'Add Software Instance' wizard. The left sidebar lists the steps: Welcome, Name and Description (selected), System and Global Zone, Categories, Non-SMP/E Managed Data Sets, Products and Features, and Summary. The main area is titled 'Name and Description' and contains the instruction 'Enter the name and description of the software instance.' Below this are two text input fields. The first field, labeled '* Name:', contains the text 'SHARA02-PSI-V1R1'. The second field, labeled 'Description: (maximum 256 characters, currently 68 characters)', contains the text 'My Portable Software Instance to show the z/OS Installation Strategy'. At the bottom of the wizard are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. A large yellow arrow points to the 'Next >' button.

- This is where you say what system contains the contents of your Software Instance. We are using the same system we are logged onto for this lab, so select **S2** from the System pull-down.
- We need to add the name of the SMP/E CSI we have installed into. Everyone has to enter **MWALLE.PSI.BOX4.GLOBAL.CSI** here, because that is where the SMP/E-installed portion of our product has been installed for this lab. All lab user IDs have read access to this data set.
- Continue on with **Next>**

The screenshot shows the 'Software Management' application window. The breadcrumb trail is 'Software Management > Software Instances > Add Software Instance'. The 'Add Software Instance' dialog is open, showing a sidebar with navigation options: 'Welcome', 'Name and Description' (checked), 'System and Global Zone' (selected), 'Categories', 'Non-SMP/E Managed Data Sets', 'Products and Features', and 'Summary'. The main area is titled 'System and Global Zone' and contains the instruction: 'Select the system and the global zone CSI associated with the product set. If the software instance being defined is not managed by SMP/E select **No Global Zone**.' There are two dropdown menus: '* System:' with 'S2' selected, and '* Global Zone CSI (Learn more...):' with 'MWALLE.PSI.BOX4.GLOBAL.CSI' selected. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. A large yellow arrow points to the 'Next >' button.

- This is where you can say which zones you want of the CSI. We want to include all the zones, so select the box next to Target.
- Then click **Next>** .

Software Management

Software Management

Software Instances

Add Software Instance

Help

Add Software Instance

Welcome

✓ Name and Description

✓ System and Global Zone

➡ Target Zones

Categories

Non-SMP/E Managed Data Sets

Products and Features

Summary

Target Zones

Select the target zones that describe the target libraries associated with the product set.

Target Zones

Actions

No filter applied

<input checked="" type="checkbox"/>	Name Filter	Description Filter	Messages Filter	Related DLIB Zone Filter	CSI Data Set Filter
<input checked="" type="checkbox"/>	TGT			DLIB	MWALLE.PSI.BOX4.GLOBAL.CS

Total: 1 Selected: 1

Refresh

Last refresh: Feb 21, 2020, 2:31:47 PM local time (Feb 21, 2020, 7:31:47 PM GMT)

< Back

Next >

Cancel

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- The next screen is for a Category, if we wanted to specify one. We aren't going to use a Category for this lab, just click on **Next>**.

Software Management

Software Management > Software Instances > Add Software Instance

Help

Add Software Instance

Welcome

- ✓ Name and Description
- ✓ System and Global Zone
- ✓ Target Zones
- ➔ **Categories**
- Non-SMP/E Managed Data Sets
- Products and Features
- Summary

Categories

A category is a string or label used to organize and group software instances and deployments. A category might denote a system, subsystem, software vendor, software life cycle state, business function, or geographic location. Select one or more categories to assign to the software instance.

Categories

Actions ▾

+ No filter applied

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

Total: 0 Selected: 0

Refresh Last refresh: Feb 21, 2020, 2:33:41 PM local time (Feb 21, 2020, 7:33:41 PM GMT)

< Back **Next >** Cancel

- Now, we get to the part we have to add the non-SMP/E product to our Software Instance if we had one. Let's assume that our product deliverable has no non-SMP/E data sets. For this lab we Click on **Next>**.

Software Management

Software Management > Software Instances > Add Software Instance

Help

Add Software Instance

Welcome

- ✓ Name and Description
- ✓ System and Global Zone
- ✓ Target Zones
- ✓ Categories
- ➔ **Non-SMP/E Managed Data Sets**
- Products and Features
- Summary

Non-SMP/E Managed Data Sets

z/OSMF automatically includes a data set in the software instance if it is updated by SMP/E and is associated with the software in the software instance. If you have a data set that is not updated by SMP/E but is associated with the software in the software instance, such as a procedure library, configuration file, or vendor product, use the Add action to explicitly add it to the software instance.

Data Sets

Actions ▾

+ No filter applied

Name Filter	Volume Filter
There is no data to display.	

Total: 0 Selected: 0

< Back **Next >** Cancel

- The next section is to identify and products and features associated product. You could add information here if you like, for customers to know about this product. Let's give put some information there. Click on **Actions -> Add**. Add any information you'd like, including Features (with an **Actions -> Add**) – **remembering to select them**.

The screenshot shows a web interface for 'Software Management'. The breadcrumb trail is 'Software Management > Software Instances > Add Software Instance > Add Product And Features'. The main heading is 'Add Product And Features'. Under the heading, there are two radio buttons for 'Add product by:'. The first is 'Defining a new product:' which is selected. The second is 'Selecting existing defined products:'. Below this, there is a text field for 'Product name:' containing 'The Box III Product'. To the right of this is a text field for 'Product ID:' containing '1234-566'. Below the product name field is a text field for 'Release:' containing 'V1.0'. To the right of this is a dropdown menu for 'Vendor:' with 'Hooli Software' selected. Below the release field is a date field for 'General availability date:' containing '2/22/2022'. To the right of this is a section for 'End of service:' with three radio buttons: 'Unknown' (selected), 'Not announced', and 'Date:'. Below the date field is a text field for 'Additional Product Information(URL):' containing 'https://www.hooli.com/boxIII'. Below the URL field is a section for 'Features:' with a dropdown menu set to 'Actions'. Below this is a list of features with checkboxes: 'Feature' (checked), 'Awesome Product Capability for a Smarter Planet' (checked), and 'Another Awesome Product Capability to Amaze' (checked). At the bottom of the form are 'OK' and 'Cancel' buttons.

- Click on **OK**.

- Select the Product, and click on **Next>**

Software Management

Software Management > Software Instances > Add Software Instance

Help

Add Software Instance

Welcome

✓ Name and Description

✓ System and Global Zone

✓ Target Zones

✓ Categories

✓ Non-SMP/E Managed Data Sets

➡ Products and Features

✓ Summary

Products and Features

Optionally Identify any products and features associated with the Non-SMP/E managed data sets.

Products and Features

Actions | Table view: Tree

No filter applied

Product/Feature Filter	Release Filter	Product ID Filter	Vendor Filter	Activity Filter	SMP/E Managed Filter	General Availability Filter
✓ + The Box III Product		1234-566	Hooli Software		No	Feb 22, 2022

Total: 3 Selected: 3

< Back

Next >

Finish

Cancel

Does everything look good on your Summary page?

We are almost done packaging up our Software Instance, with the exception of our Workflows... This screen summarizes the contents of our package. You can browse through it. You'll see the SMP/E portion of our product (only the Global CSI), and the non-SMP/E portion of our product (the six data sets we added). Click **Finish** and we are done!

Software Management

Software Management > Software Instances > Add Software Instance

Help

Add Software Instance

- Welcome
- ✓ Name and Description
- ✓ System and Global Zone
- ✓ Target Zones
- ✓ Categories
- ✓ Non-SMP/E Managed Data Sets
- ✓ Products and Features
- ➡ **Summary**

Summary

Review your selections. To make changes, return to the appropriate page by clicking **Back**. When you are ready to create the software instance, click **Finish**.

Name:
SHARA02-PSI-V1R1

Description:
My Portable Software Instance to show the z/OS Installation Strategy

Global Zone CSI Data Set:
MWALLE.PSI.BOX4.GLOBAL.CSI on system S2

Target Zones:
TGT

< Back Next > **Finish**

You will now see your Software Instance. We still need to add our Workflows that we are shipping to aid in the setting up of our product. Select your Software Instance and click **Actions->Modify**.

The screenshot shows the 'Software Management' console with the 'Software Instances' page. A message bar at the top indicates that product, feature, and FMID information for software instance 'SHARA02-PSI-V1R1' on system 'S2' was retrieved. Below the message bar, there is a table with columns: Messages, Description, Activity, Global Zone CSI, and Target Zones. The table contains three rows of data. A yellow arrow points to the 'Modify' option in the 'Actions' dropdown menu.

Messages	Description	Activity	Global Zone CSI	Target Zones
	The Box III, Gavin Belson Signature Edition, by Hooli		MWALLE.PSI.HOOLI.GLOBAL.CSI	MYTGT
	The Box III, Gavin Belson Signature Edition, by Hooli		MWALLE.PSI.BOX4.GLOBAL.CSI	TGT
	My Portable Software Instance to show the z/OS Installation Strategy		MWALLE.PSI.BOX4.GLOBAL.CSI	TGT

Click on the **Workflows** tab.

The screenshot shows the 'Modify SHARA02-PSI-V1R1' page in the 'Software Management' console. The 'Workflows' tab is selected, and a yellow arrow points to it. The page displays a table for 'Workflow Definition Files' with columns: Sequence, Name, Description, SMP/E Element Type / Name, and Data set or UNIX file. The table is currently empty, and a message 'There is no data to display.' is shown. At the bottom, there are buttons for 'OK', 'Reset', and 'Cancel'.

Sequence	Name	Description	SMP/E Element Type / Name	Data set or UNIX file
----------	------	-------------	---------------------------	-----------------------

Total: 0 Selected: 0

Now we want to add our Workflow dataset to the Software Instance. Click on **Actions->Add**.

The screenshot shows the 'Software Management' console window. The breadcrumb trail is 'Software Management > Software Instances > Modify Software Instance'. The page title is 'Modify SHARA02-PSI-V1R1'. There are four tabs: 'General', 'System and Zones', 'Non-SMP/E Managed Data Sets', and 'Products'. The 'Workflows' tab is selected. Below the tabs is a section titled 'Workflow Definition Files'. It contains a table with columns: 'Description', 'SMP/E Element Type / Name', and 'Data set or UNIX file'. The table is currently empty, with the text 'There is no data to display.' below it. An 'Actions' dropdown menu is open, showing options: 'Modify', 'Remove...', 'Add...', 'Select All', 'Deselect All', 'Configure Columns...', 'Hide Filter Row', 'Clear Sorts', 'Export Table Data', and 'Print Table Data'. A yellow arrow points to the 'Add...' option. At the bottom of the console, there are 'OK', 'Reset', and 'Cancel' buttons. The status bar at the bottom left says 'Total: 0 Selected: 0'.

Here we will give a Name, Description, and location of our workflows. You can give any Name and Description for your workflows. Select Must Perform on z/OSMF Host System **Yes**.

For the location of the workflow definition file, select **No** for Is defined file SMP/E managed.

For the data set name use: **MWALLE.PSI.BOX4.WORKFLOW(HOOLWELC)** for the **1** Sequence.

Click on **OK**. Then continue to add more workflows.

Add **MWALLE.PSI.BOX4.WORKFLOW(HOOLSETU)** for **2** Sequence.

Then add **MWALLE.PSI.BOX4.WORKFLOW(HOOLIVP)** for **3** Sequence

These three workflows represent a Welcome workflow, a configuration workflow for setting up the product, and a verification program after the product has been activated.

Software Management

Software Management > Software Instances > Modify Software Instance > Add Workflow

Add Workflow

Sequence
1

*Name:
The Box 4 Workflow

Description:
Workflows to set up the product The Box 4

Must Perform on z/OSMF Host System:
☒ Yes ☐ No

Location of workflow definition file
Is definition file SMP/E managed:
☐ Yes ☒ No

*Partitioned data set member, sequential data set, or UML
MWALLE.PSI.BOX4.WORKFLOW(HOOLWELC)

OK Cancel

Make sure you have selected all the workflows you want to include (3 of them) to our Software Instance. Click on **OK**.

Software Management

Software Management » Software Instances » Modify Software Instance

Help

Modify SHARA02-PSI-V1R1

GeneralSystem and ZonesNon-SMP/E Managed Data SetsProductsWorkflows

Workflow Definition Files

Actions

No filter applied

<input checked="" type="checkbox"/>	Sequence Filter	Name Filter	Description Filter	Must Perform On z/OSMF Host System Filter	SMP/E Element Type / Name Filter	Data set or UNIX file Filter
<input checked="" type="checkbox"/>	1	The Box 4 Workflow	Workflows to set up the product The Box 4	Yes		MWALLE.PSI.BOX4.WORKFLOW(HOOLWELC)
<input checked="" type="checkbox"/>	2	The Box 4 Workflow Setup	Workflow used to set up the product for The Box 4 configuration.	Yes		MWALLE.PSI.BOX4.WORKFLOW(HOOLSETU)
<input checked="" type="checkbox"/>	3	The Box 4 Workflow IVP	Verification workflow for The Box 4	Yes		MWALLE.PSI.BOX4.WORKFLOW(HOOLIVP)

Total: 3 Selected: 3

OKResetCancel

Let's recap: we packaged a product into a Software Instance that contained the contents we desired. This isn't new and creating Software Instances is a very old function in z/OSMF Software Management. Now, let's get to the newer part specifically...taking that Software Instance and making it a **Portable Software Instance (PSI)**.

We need to make the PSI so that we can distribute it to our paying customers, and they can use this great new product our company (Hooli) has produced.

The PSI is a package that can be acquired by our paying customers and stored into z/OSMF for installation. Creating a PSI is very easy, once you've got your Software Instance defined!

On the Software Instances main screen (where all the system's Software Instances have been defined), select your Software Instance (called something like **SHARA02-PSI-V1R1**), and then **Actions -> Export as Portable Software Instance**.

The screenshot shows the 'Software Management' window with the 'Software Instances' tab selected. A table lists several software instances. The 'Actions' menu is open, and the 'Export as Portable Software Instance' option is highlighted with a yellow arrow. The table has columns for Messages, Description, Activity, Global Zone CSI, Target Zones, and C&S. The selected instance is 'My Portable Software Instance to show the z/OS Installation Strategy'.

Messages	Description	Activity	Global Zone CSI	Target Zones	C&S
	The Box III, Gavin Belson Signature Edition, by Hooli		MWALLE.PSI.HOOLI.GLOBAL.CSI	MYTGT	
	The Box III, Gavin Belson Signature Edition, by Hooli		MWALLE.PSI.BOX4.GLOBAL.CSI	TGT	
	My Portable Software Instance to show the z/OS Installation Strategy		MWALLE.PSI.BOX4.GLOBAL.CSI	TGT	

You need to provide some information. Say:

- **Yes**, for exporting the distribution zones and libraries. We definitely want our customers to have all the complete SMP/E installation information.
- a location where the PSI will be stored. This location will be filled in by default, however that default will not work on our lab system. Change the UNIX directory to be **/u/<your user id>/SHARA02-PSI-V1R1** , updating the **purple** part with the lower case of your assigned userid. This is case sensitive.
- The JCL data set name default should be fine. This is the location where the export JCL will be saved, in case you want to see it later.
- If not already there, add, **REGION=0M** to the end of the JOB statement.
- Click **Next>**.

Software Management

Software Management > Software Instances > Export as Portable Software Instance

Export as Portable Software Instance

Export Properties
Review
Export Jobs

Export Properties

Specify the properties used for the export to a portable software instance of the selected software instance.

System:
S2

Do you want the export to copy the distribution zones and libraries associated with the source software?
☒ Yes
☐ No

* UNIX directory:
/u/shara02/SHARA02-PSI-V1R1

* JCL data set name:
SHARA02.DM.D220720.T171657.CNTL

* Work data set name prefix:
SHARA02.WORK

Specify a location for work data sets:
☐ Storage class ☐ Volume ☒ System determined

* JOB statement:
//SHARA02P JOB (ACCOUNT), 'NAME', REGION=0M
//*

< Back Next > Finish Cancel

Do you want the export to copy the distribution zones and libraries associated with the source software?

Retrieving information about the data sets included in the selected software instance. This request might take several minutes to complete.

10%

Cancel

/u/shara02/SHARA02-PSI-V1R1

You should then see several review tabs. Click through each one...this is what will be put into your PSI. You can see that there is both SMP/E Zones, Data Sets (including the workflow), and since we do not have a z/OS UNIX file system that section will be blank. Just what we wanted! Notice, PSIs can include any type of data set: file system, VSAM, PDS, PDSE, sequential ...

Click **Next>**.

Software Management

Software Management > Software Instances > Export as Portable Software Instance

Export as Portable Software Instance

Export Properties
Review
Export Jobs

Review

Review the summary of the contents for the software instance that will be exported.

SMP/E Zones Data Sets UNIX Data Sets

Global Zone CSI Data Set: MWALLE.PSI.BOX4.GLOBAL.CSI on system S2

Zones to Export

Actions

No filter applied

Zone Name Filter	Data Set Name Filter	Type Filter
TGT	MWALLE.PSI.BOX4.GLOBAL.CSI	TARGET
DLIB	MWALLE.PSI.BOX4.GLOBAL.CSI	DLIB

< Back Next > Finish Cancel

You can now see the JCL that will do the export to the PSI. You can browse it if you like, by clicking on the blue job name:

Software Management

Software Management

Software Instances

Export as Portable Software Instance

Help

Export as Portable Software Instance

Export Properties

Review

Export Jobs

Export Jobs

Review the jobs created for this export, and submit the jobs in sequential order. When all the jobs are complete, click Finish.

JCL data set name: SHARA02.DM.D200221.T150526.CNTL

System: S2

Jobs

Actions

No filter applied

Sequence Filter	JCL Data Set Member Name Filter	Description Filter	System Filter	Status Filter	M Fil
<input checked="" type="checkbox"/> 1	IZUD01EX	Export Software Instance: Create portable archives for each data set in the software instance.	S2		

Total: 1 Selected: 1

Refresh

Last refresh: Feb 21, 2020, 3:14:25 PM local time (Feb 21, 2020, 8:14:25 PM GMT)

< Back

Next >

Save

Finish

Cancel

With the job selected do **Actions -> Submit job**. Once submitted you will get a message that the job has been submitted.

Job "SHARA02P" (JOB14897) has been submitted.

IZUD786I Feb 21, 2020, 3:17:18 PM

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Give the job about a minute to run, then Click on **Refresh**. When completed successfully, you can look at the output by using **Actions -> View -> Job output**. You should have all rc=0's.

Software Management > Software Instances > Export as Portable Software Instance

Export as Portable Software Instance

- ✓ Export Properties
- ✓ Review
- 🔧 Export Jobs

Export Jobs

Review the jobs created for this export, and submit the jobs in sequential order. When all the jobs are complete, click Finish.

▼ Messages 0 0 1

Job "SHARA02P" (JOB05166) has been submitted. IZUD786I Feb 23, 2022, 8:06:07 PM

JCL data set name: SHARA02.DM.D220223.T200339.CNTL
System: S2

No filter applied

Sequence Filter	JCL Data Set Member Name Filter	Description Filter	System Filter	Status Filter	Messages Filter
<input type="checkbox"/>	1	IZUD01EX	Export Software Instance: Create portable archives for each data set in the software instance.	S2	Complete

Total: 1 Selected: 0

Refresh Last refresh: Feb 23, 2022, 8:06:25 PM local time (Feb 24, 2022, 1:06:25 AM GMT)

< Back Next > Save Finish Cancel

Software Management

Software Management
> Software Instances
> Export as Portable Software Instance
> View Job Output

View Job Output

Name: SHARA02P

ID: JOB05166

Class: A

Status: Complete

Return code: CC 0000

JESMSG LG

JESJCL

JESYSMSG

STDOUT

STDOUT

SYSPRINT

STDOUT

SYSPRINT

STDOUT

SMPOUT

SYSPRINT

DD name: JESMSG LG

Step name: JES2

Procedure step name:

Dataset ID: 2

Class: A

Record count: 26

Byte count: 2049

Output (2.00 of 2.00 KB shown)

```

1
0
JES2 JOB LOG -- SYSTEM S2 -- NODE N1
0
20.06.06 JOB05166 ---- WEDNESDAY, 23 FEB 2022 ----
20.06.06 JOB05166 IRR010I USERID SHARA02 IS ASSIGNED TO THIS JOB.
20.06.06 JOB05166 ICH70001I SHARA02 LAST ACCESS AT 18:55:28 ON WEDNESDAY, FEBRUARY 23, 2022
20.06.06 JOB05166 $HASP373 SHARA02P STARTED - INIT 1 - CLASS A - SYS S2
20.06.06 JOB05166 -
20.06.06 JOB05166 --TIMINGS (MINS.)--
20.06.06 JOB05166 -JOBNAME STEPNAME PROCSTEP RC EXCP CPU SRB CLOCK SERV PG PAGE SWAP VIO SWAPS STEPNO
20.06.06 JOB05166 -SHARA02P PREPODIR 00 61 .00 .00 .00 213 0 0 0 0 0 1
20.06.07 JOB05166 -SHARA02P PREPARE 00 61 .00 .00 .00 171 0 0 0 0 0 2
20.06.07 JOB05166 -SHARA02P DEFZFS 00 50 .00 .00 .00 326 0 0 0 0 0 3
20.06.11 JOB05166 -SHARA02P MOUNT 00 63 .00 .00 .06 182 0 0 0 0 0 4
20.06.11 JOB05166 -SHARA02P COPYDF 00 81 .00 .00 .00 249 0 0 0 0 0 5
20.06.12 JOB05166 -SHARA02P STRIPBL 00 60 .00 .00 .01 178 0 0 0 0 0 6
20.06.14 JOB05166 -SHARA02P GIMZIP 00 3133 .00 .00 .04 4961 0 0 0 0 0 7
20.06.15 JOB05166 -SHARA02P UNMOUNT 00 66 .00 .00 .01 172 0 0 0 0 0 8
20.06.16 JOB05166 -SHARA02P DELZFS 00 37 .00 .00 .01 286 0 0 0 0 0 9
20.06.16 JOB05166 -SHARA02P ENDED. NAME-NAME TOTAL CPU TIME= .00 TOTAL ELAPSED TIME= .16
20.06.16 JOB05166 $HASP395 SHARA02P ENDED - RC=0000
0----- JES2 JOB STATISTICS -----
- 23 FEB 2022 JOB EXECUTION DATE
- 220 CARDS READ
- 772 SYSOUT PRINT RECORDS
- 0 SYSOUT PUNCH RECORDS
- 64 SYSOUT SPOOL KBYTES
- 0.16 MINUTES EXECUTION TIME

```

Refresh

Finish would be available to click. If your job completed successfully, you would find your PSI located in `/u/userid/USERID-PSI-V1R1`.

If you click on the little magnifying glass in the very low right hand corner, and fill in your path name, you can see the package:

Data Set and File Search				
/ u / shara02 / SHARA02-PSI-V1R1				
/u/shara02/SHARA02-PSI-V1R1				
Go				
Results(11) Items per page: 100 1 - 11 of 11				
Name	Mode	Owner/Group	Size	
<input type="checkbox"/> IZUD00DF.json	- rwxrwxr-x	SHARA02/LAB003AA	5417	
<input type="checkbox"/> S0002.MWALLE.PSI.BOX4.AHOOLBIN.pax.Z	- rwxrwxr-x	SHARA02/LAB003AA	32256	
<input type="checkbox"/> S0003.MWALLE.PSI.BOX4.AHOOLMOD.pax.Z	- rwxrwxr-x	SHARA02/LAB003AA	32256	
<input type="checkbox"/> S0004.MWALLE.PSI.BOX4.GLOBAL.CSI.pax.Z	- rwxrwxr-x	SHARA02/LAB003AA	32256	
<input type="checkbox"/> S0005.MWALLE.PSI.BOX4.SHOOLMOD.pax.Z	- rwxrwxr-x	SHARA02/LAB003AA	32256	
<input type="checkbox"/> S0006.MWALLE.PSI.BOX4.SMPLOG.pax.Z	- rwxrwxr-x	SHARA02/LAB003AA	32256	
<input type="checkbox"/> S0007.MWALLE.PSI.BOX4.SMPPTS.pax.Z	- rwxrwxr-x	SHARA02/LAB003AA	32256	
<input type="checkbox"/> S0008.MWALLE.PSI.BOX4.SMPSCDS.pax.Z	- rwxrwxr-x	SHARA02/LAB003AA	32256	
<input type="checkbox"/> S0009.MWALLE.PSI.BOX4.WORKFLOW.pax.Z	- rwxrwxr-x	SHARA02/LAB003AA	32256	

We are now ready to send our product to paying customers and have them install it with z/OSMF.

Clean up

After you've done all the poking around that you like, it would be nice of you to delete your Software Instance and your Portable Software Instance to keep unnecessary SI's and PSI's cleaned off the system.

From the Software Management window, go back to Software Instances and click on your own SI, then click **Actions -> Remove**.

From the Software Management window, go back to the Portable Software Instances, select your PSI and click **Actions -> Remove**. (Note: If your job failed *expected* you will not see your PSI)

Thank you for being a good user on our system!