

Introduction:

This lab is an introduction to using the z/OSMF Workflow function. You will acquire a workflow (the z/OS V2.3 Migration Workflow), create a workflow, assign steps to different users, read notification messages, accept the assignment of a step, perform or skip a step, and provide feedback on a migration action (and the overall release migration).

Our lab environment:

Be aware, you are running on z/OS V2.3 system and "performing" a z/OS V2.3 migration. It is meant to show you how to do a Workflow in general (and how you could use the z/OS V2.3 Migration Workflow in particular!).

There might be some health checks to run for a V2.3 migration, that are not available on our V2.3 system or receive an exception. That is fine, and is just to show you what a health check failure might look like during a Workflow. The object of this lab is to teach you to feel comfortable doing a z/OSMF Workflow.

Exercise instructions

Here is a high level overview of the instructions that we will do in this lab exercise:

- ____1. "Pretend" to download the z/OSMF z/OS V2.3 migration workflow from the web.
- ____2. Logon to z/OSMF. Enter into the Workflow function.
- ____3. Create a z/OS V2.3 migration workflow within z/OSMF.
- _____4. Look at some of the z/OSMF workflow functions.
- ____ 5. Assign steps (migration actions) to different users.
- ____6. Accept the assignment of a step (migration action).
- ____7. Perform a step (migration action).
- ____8. Skip several steps (migration actions) at once.
- ____9. Provide feedback on the entire release migration.

1. "Pretend" to download the z/OSMF z/OS V2.3 migration workflow

In this step, we will download the "as is" web deliverable from the internet. This will teach you how to acquire a Workflow. For this lab, the Workflow is already acquired on our lab system for you. This step is only if you want to know how to acquire the z/OS release migration workflow when you return to your shop.

The z/OS V2.3 Migration Workflow has been provided on github. Here's how to find it:

- a. Go to https://github.com/IBM/IBM-Z-zOS, and then click on the <u>"zOS-Workflow</u>" folder, and then the <u>"zOS V2.3 Migration Workflow</u>" folder.
- b. If you were back in your shop and needed to acquire this workflow, you would download three highlighted files: HC_rexx.txt, discovery.txt, and either z/OS Migration from V2.1 to V2.3-Level2.0.xml or z/OS Migration from V2.2 to V2.3-Level2.0.xml corresponding on which z/OS release you are coming from.

This repository Search	Pull requests	Issues	Marketplace	Gist			+	🕅
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IBM z/OS V2.3 Migra	ation W	orkfl	ow					
Introducing another advancement in z/OS	migration assis	stance!						

Note about z/OS V2.3 Migration Workflow! At your shop, you will need at least z/OSMF V2.1 to run the z/OS V2.3 Migration Workflow.

It's easy to download a file from github. You simply click on a file to open it. Then click on "Raw" :

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This opens the file completely and allows you to right click, and "Save As". You do this for all three files, then upload them to your z/OS system into a file system as binary, putting them all in the same directory of z/OS UNIX.



Step 2: Logon to z/OSMF.

In this step, we will now go into z/OSMF to use the Workflow function. For this lab, we are using a z/OSMF V2.3 system. It looks slightly different than z/OSMF V2.1, but the same functions are present on both systems.

- a. Go to https://mvs1.centers.ihost.com/zosmf/ on Firefox or IE. Accept any risks.
- b. Using the userid you were given (SHARAnn, SHARBnn, or SHARCnn) and the password, logon to z/OSMF. This is a secure connection to a z/OS host. 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 (outside of the z/OS V2.3 migration workflow files you just downloaded to the workstation).
- c. Click on Log in". Do no click on "Desktop Interface", so that your screens will match this handout.



Enter into the Workflow function.

d. Click on "Workflows".



e. This brings you into the main Workflow screen. You can see there are already some workflows created from this screen. You will be creating your own workflow for this lab. Click on the little arrow head to close the panel on the left, so you have more visible space.

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3. Create a z/OS V2.3 migration workflow within z/OSMF.

In this step, we will create a specific workflow based on the supplied workflow already found on the lab system.

a. Click on the Actions drop-down, then click on "Create Workflow..."

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b. Carefully enter in the location of the XML workflow file that you have uploaded on the z/OSMF system, where it says "Workflow definition file:". You only need to specify the XML file, as that one will pull in the other two files. The Workflow definition file for this lab is found here (carefully enter the spaces!!):

/shareuser/mwalle/lab/zOS Migration from V2.2 to V2.3-Level2.0.xml

- c. For "System:", on the dropdown, select "SHARPLEX.S1", which is the only choice. Leave "Workflow variable input file:" blank.
- d. Then click "Next >". ("Leaving Workflow variable input file" blank.)

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Name the workflow and identify the system.

At this point, we'll provide some information about this workflow.

- e. Name your workflow: type a meaningful name under "Workflow name: " of whatever you want, but please put your userid in the name so we know which workflows to remove later. You must name your workflow. (A suggested name: *SHARAxx* Migration Workflow Lab for zOS V2.3, where *SHARAxx* is your designated userid.)
- f. Decide who you want the owner to be: type the owner's name on "Owner user id:". Usually the owner would be the one that created the workflow, but you can make it some other user if you like. For this lab, keep it your assigned user ID. You must have an owner.
- g. Comments: put anything you wish here, or leave it blank.
- h. Click "Finish" at this point. You might have to scroll a little to see the "Finish" box at the bottom of the window.

An Advanced Point! See the little checkbox "Assign all steps to owner user ID"? This is a very handy way of assigning all the steps (migration actions) initially to the owner. By doing this you immediately put all the steps into a "Ready" state for performing. Otherwise, you would have to assign steps, and have them accepted, to have them "Ready". We are going to not check this box, so you can see more of the entire process.

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4. Looking at the workflow overall.

There are some things to notice at this point:

- a. There are 223 steps (migration actions) in this workflow.
- b. You have completed 0% of them: 0 of 223 steps.
- c. There are five steps, of which three contain migration actions. This may be confusing, as there are sub-steps that count as steps in that 223 total. (Also, you'll see later that a non-migration action also counts as a step!). These three major steps correspond *exactly* to the three chapters in the z/OS V2.3 Migration book, along with the first step to help you tailor or Workflow for what is in use on the system (discovery), and the fifth step being the overall instructions for sending your feedback back to IBM.
- d. These five steps are in a state of "Unassigned", meaning that no one has been tasked with doing them yet.
- e. Notes and History: you can put any notes on this entire workflow here. Perhaps information on the entire schedule of this migration, or something else that is appropriate to make at the entire workflow level. Under History, you can see the history of this workflow: when it was created, who created it, etc.



Let's look to see where the actual migration actions are!

- f. Untwist (click on the +) for "Chapter 3: Migration from z/OS V2R2".
- g. Untwist "BCP migration actions".
- h. Untwist "BCP actions to perform before installing z/OS V2R3".
- i. Notice that when there is a solid block (no more twists, or +), this is an actual migration action. These are called "leaf steps" and are the steps that are performed in a Workflow.

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Let's now look at how an actual migration action for z/OS V2.3 looks like in the Workflow:

- j. Make sure "Chapter 3: Migration from z/OS V2R2" is still untwisted.
- k. Scroll down to "Communications Server migration actions", which is step 4.4.
- I. Untwist "Communications Server actions to perform before installing z/OS V2R2", which is step 4.4.1.
- m. Click on the blue part "**IP services: Migrate from SMTP and sendmail**", which is step 4.4.1.2, to open it up. (Notice how the untwists are numbered, as you go deeper.)

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Notice the eight tabs across the top of this migration action:

- n. General: This is where the actual migration documentation can be found. *Exactly* what is in the book for documentation can be found under this tab.
- o. Details: this is unused for the z/OS V2.3 migration workflow. If one migration action had a dependency on another migration action, it would be put here. For this workflow, though, no dependencies have been added.
- p. Dependencies: If there were dependencies in this step, they would be described here. For our sample Workflow, there are Dependencies that you can see before you try to Perform this step.

- q. Notes: This is where you can put whatever notes you want to about this migration action. Type away, this is your spot!
- r. Perform: This is currently grayed out, meaning that we can't Perform the migration action at this time. That is because we haven't assigned it to anyone yet.
- s. Status: This is grayed out also, because we haven't Performed this migration action yet. For some migration actions (specifically, ones that do not invoke health checks), this folder is not used. For those migration actions that do invoke health checks, this is where the health check output will be found.
- t. Input Variables: We don't use this for the z/OS Migration Workflow, but variables which are provided to the step would be shown here.
- u. Feedback. We DO use this for the z/OS Migration Workflow! This is where you can provide your feedback to IBM, if you wish, on how this step went.

Read what is under the General tab, scrolling to the bottom. This is the *exact* same template and words that is are in the z/OS V2.3 Migration book.

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	z/OS V2R2 was the last release that supported the SMTPD NJE: Mail Gateway and sendmail mail transports.
4	If you use the SMTPD NJE Gateway to send mail, migrate to the CSSMTP SMTP NJE Mail Gateway to send mail.
	 If you use the z/OS UNIX sendmail command, SMTPD, or the sendmail client to send mail, a compatible subset of sendmail function is provided by the ne z/OS sendmail to CSSMTP bridge (sendmail bridge) and CSSMTP.
	 No replacement function is provided by z/OS Communications Server for receiving mail for delivery to local TSO/E or z/OS UNIX System Services user mailboxes or for forwarding mail to other destinations.
	As of V2R3, the following migration health checks are removed:
	ZOSMIGV2R2_NEXT_CS_SENDMAILCLIEN
	ZOSMIGV2R2_NEXT_CS_SENDMAILDAEMN
	• ZOSMIGV2R2_NEXT_CS_SEN/MAILMSA
	Close #4v

v. Click on Close.

5. Assigning a step (migration action).

We now know the basic layout of what the z/OS Migration Workflow looks like. Let's get to the real work – assigning those migration actions to get them performed. You can assign a group of migration actions (say, all the Communications Server migration actions), or individual migration actions to a z/OSMF user. You select which steps to assign based on what steps are checked – a higher level step (which would include all the sub-steps), or on the smallest sub-step itself. The idea is the same. We will assign all the Communications Server migration actions to a lucky person (ourselves) in this lab.

You should be back on the panel where the steps are shown:

- a. Scroll down until you find "Communications migration actions", step 4.4. You will notice that the state of these steps is "Unassigned".
- b. Click on the empty check box for step 4.4. This will select all the steps in the Communications Server section of this workflow, which contains 19 steps for Communications Server to migrate from z/OS V2.2 to V2.3. You can see how many steps are selected by the "Total Selected" just about the "Return to Workflows" button.

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	4.4.1.2	IP services: Migrate from		No			

c. With only the "Communications Server migration actions" selected, under the Actions pull-down, go to "Assignment and Ownership", then select "Add Assignees... ".

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This is an interface you are probably familiar with.

- d. Click on userid in the list (SHARAnn, for instance), and if you wish, you can click on another userid. These people you add will be assigned to this migration action (step). If you don't see your userid on the list...then add it! (Actions -> Add... -> then for SAF User ID, type your SHARAnn userid and "OK". Now, it should appear on the list.). We are assigning to two people, so you can learn how to accept a migration action (step) assigned to you.
- e. Click on the "Add >" button, and see that two people have been added to the yellow box on the right.
- f. Type a friendly note, if you want, and then click on "OK". If you left the "Send z/OSMF notifications to assignees..." box checked, these people will be notified they have something to do. The Notification is sent.

elected Steps			<u> </u>
ailable assignees		₩ ₩	5e * Assignees to be added:
A ms *		Add >	mwalle z/OSMF Administrator
filter applied		Add All >>	
#5d	Туре	< Remove	
	Filter	<< Remove All	
mwalle	SAF user ID		
keithm	SAF user ID		
shara19	SAF user ID		
shara20	SAF user ID		
z/OS Security Administra	tor z/OSMF role		
z/OSMF Administrator	z/OSMF role		
Fotal: 7 Selected: 2		#5f	

- g. Now you are back into the workflow. Keep untwisting the "Communications Server migration action" items until you can see the final steps. Scroll to the right and look for the "Assignee" column.
- h. Under "Assignees" you can see the migration actions for all of Communications Server have been assigned to you and the z/OS Administrator (or just you, depending on who you assigned it to). (You might have to expand the left hand side to see Notifications, since we collapsed it before.)
- i. Notice also that the State is now "Assigned" on *all* this element's migration actions (steps), because we selected the entire element of Communications Server's parent step.
- j. Notice also that on the left side under "Notifications", there are notifications which means that something is waiting for us to look at.



6. Accepting a step (migration action).

"Assigned" isn't enough to perform the migration action (step). You must also have the migration action **Accepted** by the assignee. We are going to temporarily leave the Workflow section in order to accept our assignment of the Communications Server migration actions.

You should at this point see that '**Notifications(nn)**' has appeared on your screen. If you don't see it, try to click "Refresh", or you can logoff and logon back to z/OSMF. The lab system sometimes loses connectivity at a conference and you may have to re-establish your identity in order to see the Notification.

- a. Click on "Notifications(nn)".
- b. Click the blue highlighted Description. (If the click doesn't work on your browser, do a right mouse click, then "Go To Task".) This will bring you back into the workflow where you have steps assigned to you. Once you click on the notification, it will not show up as "Notifications(nn)" anymore. It will have just "Notifications" (without the (nn)) indicating that you have seen new messages. You can delete a notification if you wish in Notifications, by just selecting the item(s), then Actions pull-down -> Delete.

IBM z/OS Mani er#6	a		Welcome mwalle	• Ø • IBk
= Welcome	velcome 🗙 Notifications (🗴			
Notifications (41)				
Workflow Editor				ł
Workflows	Notifications (41)			
Configuration	Actions 👻 🖓 Inbox 👻 🖄 New	\wedge		Searc
Jobs and Resources	. No filter applied			
Links				
Performance	Description Filter #6b		To Filter	Time Filter
Problem Determination				
Software	One or more steps in workflow "SHARAxx Migratio Lab for zOS V2.3" have been assigned to you.	Workflows	mwalle, z/OSMF Administrator	Jul 20, 2017, 7:48:44 PN
z/OS Classic Interfac	The prerequisite steps are completed for step "Update	Workflows	mwalle	Jun 29, 2017, 11:04:21 A
z/OSMF Administratic z/OSMF Settings	database templates" in workflow "ESP Copy - Customer Level V2.2 to V2.3". This step is now ready to be performed.	WORKHOWS		oun 20, 2011, 110 1121
Refresh	The prerequisite steps are completed for step "Check for duplicate class names" in workflow "ESP Copy - Customer Level V2.2 to V2.3" . This step is now ready to be performed.	C Workflows	mwalle	Jun 29, 2017, 11:04:20 /
	The prerequisite steps are completed for step "Accommodate the removal of default passwords on RACF commands" in workflow "ESP Copy - Customer Level V2.2 to V2.3" . This step is now ready to be performed.	C Workflows	mwalle	Jun 29, 2017, 11:04:20
	The prerequisite steps are completed for step "Check for previously defined classes HBRADMIN, HBRCONN, or HBRCMD" in workflow "ESP Copy - Customer Level V2.2 to V2.3" . This step is now ready to be performed.	C Workflows	mwalle	Jun 29, 2017, 11:04:19
	The prerequisite steps are completed for step "SDSF: Modify programs that post-process SDSF panels" in workflow "ESP Copy - Customer Level V2.2 to V2.3". This step is now ready to be performed.	C Workflows	mwalle	Jun 29, 2017, 11:04:19
	The prerequisite steps are completed for step "SDSF: Use dynamic statements for ISFPARMS to avoid reassembly" in workflow "ESP Copy - Customer Level V2.2 to V2.3". This step is now ready to be performed.	C Workflows	mwalle	Jun 29, 2017, 11:04:18
	4			•
	Total: 41 Selected: o Refresh Last refresh: Jul 21, 2017, 11:25:42 AM loca	Il time (Jul 21, 2017, 3:25:42 F	PM GMT)	

We are put back in the workflow (which we got to by way of the Notifications selection).

Let's see how to find what was assigned to our userid. Scroll to the right to find the "Assignees" column, and click on "Filter".

(You can collapse the left hand side again for more space.)

							Welcom	e mwalle	- 0 -	IBM.
Welc	ome 🗙 Not	ifications (🗙	Workflows	×						
Vorkt	flows ▶ SHARA	x Migration Work	 flow Lab for zO	S V2.3						He
ына	RAxx Migra	tion Workflo	w Lab for z	OS V2.3						
										Notes Histo
eozm Perce	ription: 1100_v2r3 ent complete: 0%	Owner: mwalle Steps co 0 of 223		System: SHARPLEX.LOCAL Status: In Progress			ot be called by an ss (Learn More):	other workflow	\sim	
	tions -								/ /-	Search
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-	State	No.	Title		Calle	Automated	Owner	Skill	Assignees	
	Filter	Filter	Filter		Filter	Filter	Filter	Categ Filter	Filter	
	Unassigned	1	Discover z	/OS features in use		Yes				
	Unassigned	2		Migration: Introduction						
	Unassigned	3		General migration actions for nigrating to z/OS V2R3						
	In Progress	4		Migration from z/OS V2R2						
	Unassigned	5	Provide fee migration e	edback to IBM on your experience		No				
						4				

Then, under the "Assignees" blank area on the right, type your userid (SHARAnn, SHARBnn, SHARCnn), to filter on migration actions that are assigned to you, and then click on "Filter".

Description:	Owner:	System:	Is Callable:
e0zm100_v2r3 Percent comple	mwalle	SHARPLEX.LOCAL	Cannot be called by another workflow
Workflow Steps	Build Filter		
Actions -	Match All rules -	Match case	
State Filter	Rules		
Unassigne	Assignees	▼ contains	mwalle 🔹 🛁 🛨
Unassigne			
Unassigne			
In Prog			
Unassigne			
			Filter Clear Close

- c. You should see only the migration actions (steps) that are assigned to you because of the filter. We are going to accept *all* the Communications Server migration actions that were assigned to our userid. Check the one box called "Communications Server migration actions", step 4.4 (which indirectly selects all the sub-steps).
- d. Then click on the "Actions" drop-down, then "Accept". If "Accept" is grayed out, you have not selected any steps, so verify that all the Communications Server steps have a check on them.

	Notifications (×	Workflows ×						
	ARAxx Migration Workfl							H
								🖲 Notes His
Description: 02m100_v2r3 Percent complet 0%	e: Steps cor 0 of 223	nplete:	System: SHARPLEX.LOCAL Statur			ot be called by an is (Learn More):	other workflow	N
Actions -			6d					Searc
Propertie	'S		ou					ocare
Accept	\checkmark		\leq	Calle Filter	Automated Filter	Owner Filter	Skill Categ Filter	Assignees contains "mwalle"
#6C Res Changy	ete Is d Workflow		gration from z/OS V2R2					
FeedBac	ent And Ownership		unications Server actions to n before installing z/OS					
Expand Collapse	I Steps Assigned to Me	EZ	Services: EZZ6044I and Z6045I descriptor codes changed		No			mwalle, z/OSMF Administrator
Stop Aut	omation		services: Migrate from ITP and sendmail		No			mwalle, z/OSMF Administrator
Configure		cor	Services: Replace nfiguration of additional P/IP legacy device types		No			mwalle, z/OSMF Administrator
-	er Row				•			•

e. You can make a comment when you accept these steps, then click on OK.



You might need to scroll back down the Communications Server steps, but your filter should still be active, showing just your assigned steps. These steps (migration actions) for Communications Server which were assigned and accepted, and are "Not Ready" to be performed. Why?

		-	kflow Lab for zOS V2.3							
SHAF	RAXX Migratio	1 Workflo	w Lab for zOS V	2.3					613)	
Percen	otion: 00_v2r3 tt complete: 0% www.Steps	Owner mwalle Steps o 0 of 22	:omplete: S	ystem: HARPLEX.LOCAL tatus: □ In Progress			t be called by another (Learn More):	r workflo		es ⊢
	ons -									Sea
<u>.</u> +	20 of 307 items sh	own. Clea	r filter							
	t ate Iter	No. Filter	Title Filter		Calle Filter	Automated Filter	Owner Filter	Skill Categ Filter	Assignees contains "mwalle"	
	Not Ready	4.4.1.1	EZZ60	vices: EZZ6044I and 045I descriptor codes anged		No	mwalle		mwalle, z/OSMF Admir	nistrato
~	Not Ready	4.4.1.2		vices: Migrate from and sendmail		No	mwalle		mwalle, z/OSMF Admin	nistrato
	Not Ready	4.4.1.3	config	vices: Replace uration of additional P legacy device types		No	mwalle		mwalle, z/OSMF Admir	nistrato
	Not Ready			vices: Use alternate file er program		No	mwalle		mwalle, z/OSMF Admir	histrato

Click on the step, and go into the "Dependencies" tab...that is because a dependency in our Workflow has not been completed.

Current Valu

This discovery step is a new step added into the z/OS V2.3 Migration Workflow. It is there to help you "skip" unnecessary migration actions that you don't need to do on this system.

What should you do? By yourself (with no screen shots, as you should be able to do this on your own by now):

1. Go back to all the steps in the Workflow. An easy way to do that is to click on the Workflow name "breadcrumb" at the top, highlighted below:

Workflows

SHARAxx Migration Workflow Lab for zOS V2.3

- 2. Assign yourself Step 1 "**Discovery z/OS features to use**" (you'll have to "Clear" the Filter to see it, since it's not assigned yet and you had the filter on before),
- 3. Accept it. You should see the state as Ready then.

	State Filter	No. Filter	Title Filter	Calle Filter	Automated Filter	Owner Filter	Skill Categ Filter	Assignees Filter
~	Ready	1	Discover z/OS features in use		Yes	mwalle		mwalle
	Unassigned	2	Chapter 1. Migration: Introduction					

- 4. Click on Step 1 "Discover z/OS features in use" so that we can Perform it.
- 5. Go to the Perform tab inside the step. Read the instructions for what will be done for this discovery task. Then click Next>.

Properties for Workflow Step 1. Discover z/OS features in use General Details Dependencies Notes Perform Status Input Variables Feedback Review Instructions Edit Output File Path Create JOB statement Review JCL To proceed with the guided path through creating and executing the REXX on SHARPLEX.LOCAL, click Next. Or, you can choose to bypass this step. If so, first review and confirm that the instructions below have been done. Then, click Finish to mark the step complete. Instructions: Instructions: This step of the workflow will determine which z/OS priced features are currently enabled on the running system. Using this information (which you control with your IFAPRDxx parmilb member/), associated steps with DISABLED features will be marked as Skipped. The objective of this step is to automatically reduce the number of non-applicable migration steps that you need to review. Review the output of this step to see which priced features were determined to be disabled on this system, and to see which steps have had their state changed. If you determine that you later want to perform those steps that were marked as Skipped, you can change the status and perform those steps, after they have been as	Workflows > SHARAxx Migration W	orkflow Lab for zOS V2.	3 1. Discover z/OS fe	atures in use		Help
Review Instructions Edit Output File Path Create JOB statement Review JCL Submit and Save JCL Instructions: This step of the workflow will determine which z/OS priced features are currently enabled on the running system. Using this artiformation (which you control with your IFAPRDxx parmilib member), associated steps with DISABLED features will be marked as Skipped. The objective of this step to see which priced features were determined to be disabled on this system, and to see which steps have had their state changed. If you determine that you later want to perform those steps that were marked as Skipped, you can change the status and perform	Properties for Workflow St	ep 1. Discover z/	OS features in use)		
Edit Output File Path Create JOB statement Review JCL Submit and Save JCL To proceed with the guided path through creating and executing the REXX on SHARPLEX.LOCAL, click Next. Or, you can choose to bypass this step. If so, first review and confirm that the instructions below have been done. Then, click Finish to mark the step complete. Instructions: Instructions: This step of the workflow will determine which z/OS priced features are currently enabled on the running system. Using this information (which you control with your IFAPRDxx parmlib member), associated steps with DISABLED features will be marked as Skipped. The objective of this step to see which priced features were determined to be disabled on this system, and to see which steps have had their state changed. If you determine that you later want to perform those steps that were marked as Skipped, you can change the status and perform	General Details Depend	dencies Notes	Perform Status	Input Variables	Feedback	
< Back Next > Save Finish Cancel	Edit Output File Path Create JOB statement Review JCL	To proceed with the proceed with the proceed with the process this step. I complete. Instructions: This step of the work information (which as Skipped. The of review. Review the output steps have had the process the process of the	rkflow will determine whit you control with your IFA ojective of this step is to a of this step to see which it state changed.	irm that the instruction	es are currently er es are currently er ver), associated si he number of non determined to be o ere marked as Sk	nabled on the running system. Using this teps with DISABLED features will be marked -applicable migration steps that you need to disabled on this system, and to see which kipped, you can change the status and perform

6. You will have to fill in where discovery needs to store its findings, to be used by the later parts of the workflow. Use the /tmp directory on this system, *but make sure you insert your own userid for the file name, and do not add a "new" directory.* If everyone uses the same /tmp file, we will all overlay each other's information.

Insert your userid, and then click Next>. Verify your name is something like this: /tmp/mwalle_migration_inputfile.txt

rkflows SHARAXX M Seneral Details						Feedback	
 Review Instructions Edit Output File Pa Create JOB statem Review JCL Submit and Save J0 	ath This is	Dutp the	Path h for the outp	but file path.	·		
	Spec	ut File Path: ify output file p/mwalle_mi	path here gration_inputf	ile.txt]	
					-		
		< Back	Ne	xt >	Save	Finish	Cancel

7. You need to supply a job card so that the discovery program can run. You can just take the default. Click Next>.

General Details Review Instructions Edit Output File Path Create JOB statement Review JCL Submit and Save JCL	t Specifi	statement JC	L:List variable	s for substitut		Feedback	OB statement.
 Edit Output File Path Create JOB statement Review JCL 	t Specify * JOB	fy the JOB stat	L:List variable	s for substitut		efault or define a new J	OB statement.
	//12		(ACCTINFO)		tion	_	
	1		MSGLEVEL=		MSGCLASS=0, ION=0M,NOTIFY=1	MWALLE	
	Apply	updates to: I steps in workt is step 'Discov	flow 'SHAF	ation V.	/orkflow Lab for zOS	3 V2.3'.	

8. Moving along, review the JCL if you like, and then click Next>.

General	Details	Dependencies	Notes	Perform	Status	Input Variables	Feedback	
 Review Ir Edit Outp Create JC Review J Submit ar 	ut File Pat)B stateme	h Review ent	w JCL the genera	ated JCL, then (click Next to	proceed. Optionally,	you can edit the J	CL. To do so, click the
		// /*JOB //*** //* //* //* //SYS //* //SYS //* //SYS	PARM SYS/ ********* ER EXI PRINT DD IN DD	AFF=S1	(1,1),REG ********* IEBGENER *******	ION=0M,NOTIFY=MI ***************** - ****************		*********

9. Almost done...click Finish to submit the discovery job.

General Details	Dependenc	ies Notes	Perform	Status	Input Variables	Feedback	
 Review Instructio Edit Output File F Create JOB state Review JCL Submit and Sav 	Path Si	ubmit and Sa		or save it, ar	id then click Finish .		
		Save JCL	(file. Specify th	e full path, in	cluding the file name	e:	
	I		set. Specify an rial (if the data			nember name if applica	ible:
			the file or mem		already.		

- 10. When the job completes, you can look on the Status tab at the output. If you look at the bottom of the SYSTSPRT tab, you can see that this lab system doesn't have all the priced features of z/OS enabled. Therefore, if we aren't running them, the steps for those features can be skipped. This makes our Workflow smaller! Look at a couple of fields here after you return to all the steps in the Workflow:
 - a. The Discovery step has been Completed, and
 - b. the skipped steps are automatically marked as done at the top!

·υρ	•								
Wor	KIOWS IN SHARAXX M	ligration Work	low Lab for zOS V2.3						
SH	ARAxx Migratio	n Workflov	v Lab for zOS V2.3						
Description: Owner: e0zm100_v2r3 mwalle Percent complete: Steps complete: 5% 13 of 223				Is Callable: Cannot be called by another workflow Access (Learn More): Public				Note	
Wor	kflow Steps								
A	ctions 👻								ę
÷.+	 No filter applied 								
	State Filter	No. Filter			Automated Filter	Owner Filter	Skill Categ Filter	Assignees Filter	
~	Complete	1	Discover z/OS features in use		Yes	mwalle		mwalle	
	Unassigned	2	+ Chapter 1. Migration: Introduction						
	Unassigned	2	Chanter 2. General migration actions for						

11. Close the step.

7. Performing a step (migration action).

Let's recap: you've defined a migration workflow to a system, you've assigned migration actions to lucky folks, you've got the migration action assignments accepted (for the Communications Server migration actions), you've run discovery to skip some migration actions automatically, and now you need to perform the migration actions. Although the migration action may require a lot of work to perform, it is very easy within the z/OSMF workflow to say it's been done and keep track of it.

Another benefit of using z/OSMF Workflows to help with your z/OS Migration is that you can run associated health checks directly from the z/OS V2.3 Migration Workflow.

Performing a migration action step in a Workflow is very much like repeating what you did for performing the discovery step.

At this point in time, you are going to be a little on your own to perform a migration action step. We'll list the exact activities to do, but you should be able at this point to perform a Workflow step pretty much by yourself. See the screen shots above, if you need to. But, it really is quite intuitive after you've already done one...now you know how to do them all!

- 1. Select the Communications Server step 4.4.1.10 "IP services: Accommodate the removal of SMS as a default VTAM VIT trace option". Notice that is it is now "Ready", because you Performed the dependency discovery step above.
- 2. Read the "General" tab. This is exactly what is in the z/OS V2.3 Migration book. Notice how it has a Related Health Check? We are going to be running that health check in a bit.
- 3. Go to the "Dependencies" tab. This is where you can indeed see that the dependency (for Step 1) has been successfully completed.
- 4. Go to the "Perform" tab. This is where you will be running the health check from the Workflow.
 - a. Review the instructions in the mini-wizard. You can see here which check will run, and how it will affect the state of the step after it runs. Click on Next>.
 - b. Here's the jobcard it will use. You can just use the defaults. Click on Next>.
 - c. Review the JCL. You don't need to change it. Click on Next>.
 - d. To Submit the JCL, just click on Finish>. The job is then submitted.
 - e. Look through the Status tabs. Did the job fail?
 - i. If so, why? Was it something you could fix by editing the JCL quickly, like a JECL or stray commenting error that accidently was inserted if you happened to edit the JCL?
 - ii. To fix the JCL quickly, you go back into the Perform tab, and use the <Back button to edit the JCL and re-submit it.

- iii. Did the health check run? (Hint: Status tab, then SYSTSPRNT at the bottom.)
 - 1. If yes, then the step will be Complete.
 - 2. If not, then the step will be in Error. Look at the health check output from the Status tab (SYSTSPRT and SYSOUT specifically) for the reason why.
 - a. If the check was not found (SYSOUT has "No matches found" which sometimes happens), it means that you might need to install PTFs on your system so that the check is available. Remember, not all checks are available on all levels of z/OS, so check the General tab to see if you are running on a z/OS level that contains this check. (This is something I know would be a very nice future enhancement!) If the check is trying to run on a level of z/OS that doesn't contain it, the only thing you can do today to get the step completed is to select the step and do an override (described below).
 - b. If the check fails because what it was validating wasn't set correctly (SYSOUT has STATUS: EXCEPTION-xxx)...then you've got to look at that and decide what to do? Do you want to fix the problem so the health check will succeed? What do you do today when a health check fails on this system?
- f. When you are done getting the JCL run or given up on it, click Close to return to the steps of the Workflow.
 - i. Fyi: If your step is Failed, and you want to force the state to Completed you can. When the step check, go to Actions->Override Complete. This will then make the state "Complete-Override".
- g. Now, you should be on the list of steps in the Workflow. With step 4.4.1.10 "IP services: Accommodate the removal of SMS as a default VTAM VIT trace option" (the step we just completed, or overridden, or failed) checked, click on Actions-> Feedback. This is where you will provide to IBM any feedback you wish. This is completely optional. You control when the feedback is sent to IBM, and you can edit it before you send it. Answer the questions however you thought, and then click on Submit. Then OK and Close.
- h. If you want to give an overall review of the z/OS V2.3 Migration Workflow, then Perform step 5 "**Provide feedback to IBM on your migration** experience".
- i. When you want to collect all the feedback for all the steps that have feedback, go back out to the main Workflow pages (with all the Workflows on the system shown). You can use the breadcrumb called "Workflows" at

the top of the Workflow:

Workflows > SHARAXX N	Migration Workflow Lab for z	OS V2.3
SHARAxx Migratio	n Workflow Lab for	zOS V2.3
Description: e0zm100_v2r3 Percent complete: 20%	Owner: mwalle Steps complete: 47 of 223	System: SHARPLEX.LOCA Status: In Progress
Workflow Steps		
Actions -		
>>> No filter applied		

j. Check the Workflow that you want to provide feedback on. Then click on Actions->Generate Feedback Summary. You can see all the feedback for all the steps that have submitted them. From here you, can export it for sending to IBM. You can Notify the step owners to provide the feedback.

orkflows								н	
nplifies tasks through guided step-ba	sed workflows, and pro	vides administrative	functions for	assigning workflo	ow responsibilities a	and tracking pr	ogress.		
Actions - Active -	_							Search	
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	rna's update to the ∨2 rkflow.	.1 to V2.2 Migration	1.1	IBM	💣 Public	sharb29	SHARPLEX.LOCAL		
Stop Automation Generate Feedback Summary	rm100_v2r3		1.0 IBM		💣 Public	mwalle	SHARPLEX.L	ARPLEX.LOCAL	
Create New Based on Existing Reactivate			1.0	IBM	Restricted	mwalle	SHARPLEX.LOCAL		
Update Workflow Steps	:m100_v2r3		1.1	IBM	💣 Public	mwalle	SHARPLEX.L	OCAL	
Create Workflow Customize JOB Statement	:m100_v2r3		1.0	IBM	💣 Public	mwalle	SHARPLEX.LOCAL		
	:3m110		1.0	IBM	💣 Public	shara20	SHARPLEX.LO	OCAL	
Select All	:3m110		1.0	IBM	💣 Public	shara20	SHARPLEX.L	OCAL	
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Hide Filter Row Clear Sorts	:m100_v2r3		2.0	IBM	💣 Public	mwalle	SHARPLEX.L	OCAL	
Clear Search									
	C								

8. Skipping steps

Although this Workflow has a lot of steps, we expect that not every migration action (step) applies to you. For that reason, you will probably be Skipping steps in the workflow after you have reviewed them.

To skip steps, it's very easy. It's very much like Assigning steps, which you've already done. For this lab, let's skip all the zEC12/zBC12 migration actions (assuming that everyone is running on a newer server!).

1. Before doing anything, make sure you Filter in the Assignee column is cleared. It

Assignees	
Filter	

should look like this:

- 2. Making your way through the twisties in the Workflow, find step 3.2.8 "Migrate to an IBM zEnterprise EC12 or zEnterprise BC12 server".
- **3.** Click on the 3.2.8 step, which is the "parent" step for all the sub-steps below which detail the zEC12/BC12 migration actions. This implicitly selects all the sub-steps.

Unassigned	3.2.8	Higrate to an IBM zEnterprise EC12 or IBM zEnterprise BC12 server server Server			

- **4.** Now, click under Actions-> Skip. Give a reason for skipping these steps, and then click OK.
- **5.** In one action, you've just skipped 5 migration actions (steps). Notice how the "Steps Complete" at the top of the Workflow reflect this change in state.

Exercise review and wrap-up

By completion of this lab, you now know how to:

- ____1. Download the z/OSMF z/OS V2.3 Migration Workflow files from github. You know where to find it, and which files to download. You know to transfer it in BINARY to a file system on your z/OSMF system. Make sure you transfer as RAW!
- ____2. Logon to z/OSMF. Enter into the Workflow function. You know what the Notification function is, and how to use it.
- ____ 3. Create a z/OS V2.3 migration workflow within z/OSMF.
- 4. Look at some of the z/OSMF workflow functions, and generally how to maneuver around a workflow. Understanding the concept of states and steps (and sub-steps). Understand what the tabs for a step (z/OS migration action) are, and how they are used.
- ____ 5. Assign steps (migration actions) to different users.
- ___6. Accept the assignment of a step (migration action).
- ___7. Perform a step (migration action).
- ____8. Provide feedback for a specific migration, and how to provide feedback for the entire release, if you like.
- ___ 9. Skip several steps (migration actions) at once.

End of exercise

You can delete your lab workflow if you want. On the Workflows main panel, select the Workflow and then Actions-> Delete.