

z/OSMF Software Deployment User Experience



Mary Anne Matyaz

Base Technologies Inc, A CA Technologies Company, for U.S. Customs and Border Protection

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Our z/OSMF History

- Ordered z/OSMF via base tape in May 2010.
- Had a lot of fun installing, setting it up, mainly SAF and WAS issues.
- Ordered z/OSMF again with the z/OS 1.12 upgrade in September, 2010.
- This time it went better, but there was new functionality that needed to be implemented as well
- Ordered z/OSMF again with the z/OS 1.13 upgrade, went VERY smoothly!
- After checking out the rest of z/OS 1.13, came back to Software Deployment to check it out.



Our environment

- Two Sysplexes, basically Prod and Test. Prod is an 8 way and test is a three way.
- DASD and UCATs shared across all systems (yes, this causes a problem for PDSe's)
- We run a lot of ISV's. Top Secret, FDR, etc.
- I consider myself a novice z/OSMF user. Relatively speaking, I've probably done more than most, but still feel rather new at it. I'm also not a Websphere guru.



Our environment: Software levels

- z/OS is at 1.13, as of January. PUT level is 1110.
- We are currently migrating PUT 1112 through our lpars.
- We put maintenance on bi-monthly, two PUTs back, plus any applicable hipers or special request PTFs.



Our Clone Process – z/OS

- Our clone process is pretty simple. For the RES:
 - Full volume restore of the SMPE pack (ZOST0D) to the Res pack (SYSR21)
 - Allocate a new VVDS
 - Copy/rename the target CSI: MVSSMP.ZOSTOD.CSI to MVSSMP.SYSR21.CSI
 - //DISK1 DD UNIT=SYSDA,VOL=SER=ZOSG0D,DISP=SHR
 - //TAPE1 DD UNIT=SYSDA,VOL=SER=ZOSG0D,DISP=SHR
 - COPY TYPE=DSF, DSNENQ=NONE
 - S DSG=MVSSMP.ZOSTOD.CSI,NEWG=MVSSMP.SYSR21.CSI

• Copy the SMP zone in:

- DEL GLOBALZONE ZONEINDEX((SYSR21))
- ZONERENAME(ZOSTOD) TO(SYSR21) NEWDATASET(MVSSMP.SYSR21.CSI) .

• Edit the zone DDDEFS:

- SET BDY(SYSR21).
- ZONEEDIT DDDEF .
- CHANGE VOLUME(ZOST0D,SYSR21) .
- CHANGE PATH('/SERVZOS/ZOST0D'*,'/SYSR21'*).
- ENDZONEEDIT .
- There are some miscellaneous assemblies and copies, ROSCOE, OPS, Sysview, VPS assemblies (to SYS2.SYSR21.LINKLIB) and we copy some parmlib members (IPCS for Jes2 and MQ). We also update IPLtext.





Our Clone process: USS



- All of our SMPE ZFS's reside on one mod-54.
- Copy the ZFS/HFS datasets with rename:
 - COPY TYPE=DSF, DSNENQ=NONE, BYPASSSMS
 - SELECT DSG=OMVS.ZOST0D,NEWG=OMVS.SYSR21
- Mount the filesystems, do some chown/extattr/chmod's, linking: MOUNT FILESYSTEM('OMVS.SYSR21.ROOT') +
 - TYPE(ZFS) MODE(RDWR) SYSNAME(USCT) NOAUTOMOVE +
 - MOUNTPOINT('/SYSR21')
 - MOUNT FILESYSTEM('OMVS.SYSR21.SXMLHFS') +
 - TYPE(ZFS) MODE(RDWR) SYSNAME(USCT) NOAUTOMOVE +
 - MOUNTPOINT('/SYSR21/usr/lpp/ixm')
 - MOUNT FILESYSTEM('OMVS.SYSR21.SAOPROOT') +
 - TYPE(ZFS) MODE(RDWR) SYSNAME(USCT) NOAUTOMOVE +
 - MOUNTPOINT('/SYSR21/usr/lpp/Printsrv')





Our Clone Process: USS (continued)

- Some examples of the root updates:
 - 'symlink \$SYSNAME/etc '\$root'/etc'
 - 'unlink '\$root'/opt/dfslocal'
- Finally, we DSS copy some old HFS's over:
 - An old MQV6 that they won't get rid of
 - An old java for one application





Our clone process: Program Products

Usually each product has a \$BUILD job in its install library. This job FDR Copies selected datasets: SELECT DSN=CASMP.CA1V126.SP00.CTAPMENU, NEWNAME=TMS.V126SP00.CTAPMENU SELECT DSN=CASMP.CA1V126.SP00.CTAPLINK, NEWNAME=TMSSYS.V126SP00.CTAPLINK

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Software Deployment Function

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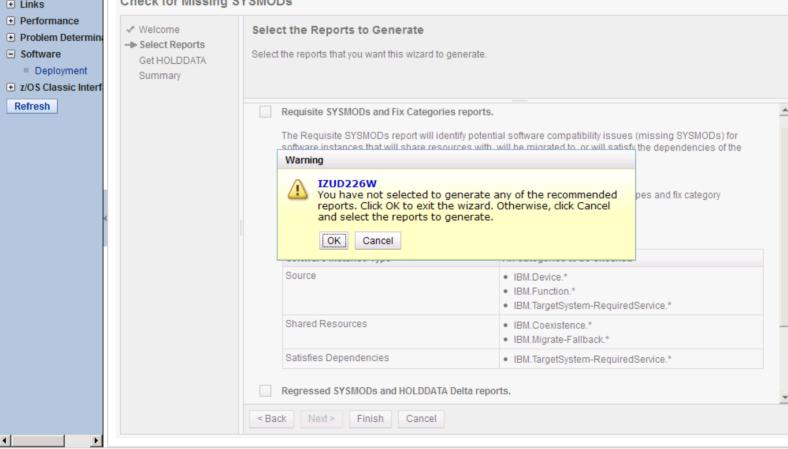
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What we do for missing fixes and holddata...



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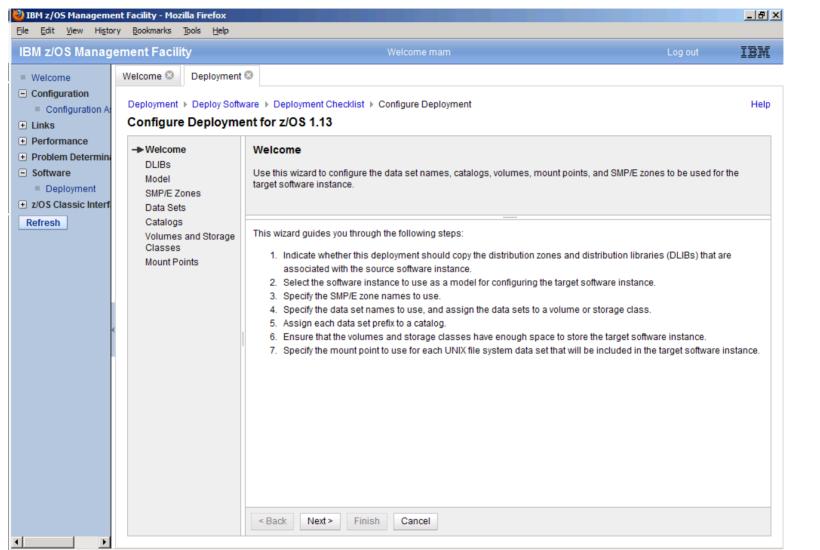
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• By the time we are cloning, we are far past the actual SMPE work. But a double check here doesn't hurt.

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IBM z/05 Management Facility - Mozilla Firefox _ 8 × File Edit View History Bookmarks Tools Help IBM z/OS Management Facility IBM Welcome 😣 Deployment 🛞 Welcome Configuration Deployment Deploy Software Deployment Checklist View Deployment Summary Help + Links View Deployment Summary Performance Problem Determination Review the changes that will occur on the target system when you submit the deployment jobs. Software Source software instance: z/OS 1.13 on system LOCAL Deployment Target system: LOCAL Deployment objective: Create new software instance, create new global zone z/OS Classic Interfaces Refresh SMP/E Zones Volumes Data Sets to Delete Data Sets to Add Data Sets to Replace Catalogs Catalog Aliases Catalog Entries To Delete Catalog Entries To Update Catalog Entries To Add Global Zone CSI: "MVSSMP.DK5022.ZOSG0D.CSI" on system "LOCAL" Zones to Add Zone Name Data Set Name Zone Type DK5022 MVSSMP.DK5022.ZOST0D.CSI TARGET • • OK



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IBM

Help

Problem Determination
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+ z/OS Classic Interfaces

Refresh

Review and submit the jobs created for this deployment. The jobs are stored in the specified partitioned data set.

Data set name: MAM.DM.D120201.T130121.CNTL Target system: LOCAL

Job Sequence Filter	Job Name Filter	Description Filter
1	IZUD01CP	Copy Data Sets: Copy the source software instance data sets to create the target software instance data sets in the location defined by the deployment configuration, using temporary and unique data set names.
2	IZUD02RN	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.
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.

Total: 3

OK

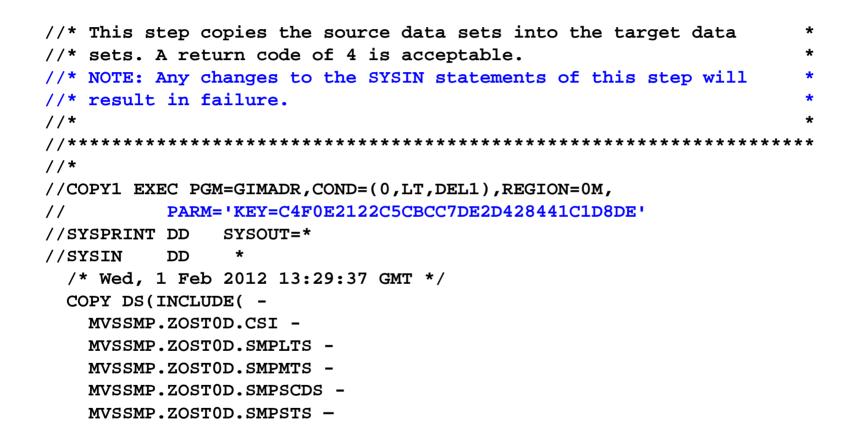




Jobs produced

- Ultimately the Software Deployment function creates three jobstreams:
 - IZUD01CP Copies the target zone SMP libraries, the zFS/HFS files, and the SYS1 target libraries to the new volume
 - IZUD02RN This job renames all the datasets to their proper names. (ie, SYS1.LPALIB.# to SYS1.LPALIB)
 - IZUD03UC This job does all the SMPE work. Defines a new Global CSI, does the zonerename, and changes all the dddefs.
 - And one readme file: IZUD00RM

userid.DM.Dyymmdd.Ttttttt.CNTL (IZUD01CP)







DSLIST

DSLIST - Data Sets on volume DK5022		Row 1 of 586
Command ===>		Scroll ===> CSR
Command - Enter "/" to select action	Message	Volume
MVSSMP.DK5022.ZOSG0D.CSI.DATA		DK5022
MVSSMP.DK5022.ZOSG0D.CSI.INDEX		DK5022
MVSSMP.DK5022.ZOST0D.CSI.DATA		DK5022
MVSSMP.DK5022.ZOST0D.CSI.INDEX		DK5022
MVSSMP.DK5022.ZOST0D.SMPLTS		DK5022
MVSSMP.DK5022.ZOST0D.SMPMTS		DK5022
MVSSMP.DK5022.ZOST0D.SMPSCDS		DK5022
MVSSMP.DK5022.ZOST0D.SMPSTS		DK5022
MVSSMP.DK5022.ZOST0D.SMPTLOG		DK5022
MVSSMP.DK5022.ZOST0D.SMPTLOGA		DK5022
OMVS.DK5022.JAVA31M1.DATA		DK5022
OMVS.DK5022.JAVA31V5.DATA		DK5022
OMVS.DK5022.JAVA64M1.DATA		DK5022
OMVS.DK5022.JAVA64V5.DATA		DK5022
OMVS.DK5022.MQROOT.DATA		DK5022
OMVS.DK5022.NETVIEW.DATA		DK5022



Lets IPL it...



- First IPL had a problem with no IPLTEXT. Ran it manually.
- Second IPL:

IMW005W WORKLOAD MANAGER (COMP/SCWLM) CATASTROPHIC FAILURE: WAIT STATE CODE WS/08C REASON CODE RSN/001 ENTRYPOINT EP/UNKNOWN REASON IS GENERIC/UNKNOWN WLM FAILURE NO ADDITIONAL WLM SPECIFIC INFORMATION

- We do some unnatural things with SYS1.IBM.PROCLIB and SYS1.PROCLIB, and they end up together in SYS1.PROCLIB.
- z/OSMF goes by the SMPE dddefs, so in his mind, SYS1.PROCLIB isn't there.
- Third IPL was the charm!

IBM z/OS Management Facility - Mozilla Firefox _ 8 × File Edit View History Bookmarks Tools Help IBM z/OS Management Facility IBM Technology - Connections - Result Welcome 😒 Deployment 🛞 Welcome Configuration Deployment > Deploy Software Help + Links **Deploy Software** Performance Problem Determination To deploy a software instance, define a new deployment. Software Deployments: Deployment Actions -+ z/OS Classic Interfaces Name Description Activity Categories Source Software Instance Source System Targ Filter Filter Filter Filter Filter Filter Filter Refresh OSS096 volume OSS096 LOCAL Warning DK553A LOCAL DK5 **IZUG1005W** CA1 Resource "DK5022 1.13" is currently being modified by user "MAM" . It was locked Jan 27, 2012 6:08:02 PM (GMT). You DK5022 1.13 I OCAL can perform one of the actions listed below. Open the resource in view mode Obtain the lock for the resource and open the resource in modify ۲ mode. Before obtaining the lock, check with the user to avoid disrupting their work. OK Cancel 4 Total: 4, Selected: 1 Refresh Last refresh: Feb 1, 2012 7:26:37 AM local time (Feb 1, 2012 12:26:37 PM GMT) Close



_ 8 × 🛂 IBM z/05 Management Facility - Mozilla Firefox File Edit View History Bookmarks Tools Help IBM z/OS Management Facility IBM Welcome 😣 Deployment 🛞 Welcome Configuration Deployment > Deploy Software > Deployment Checklist Help + Links **Deployment Checklist** Performance + Problem Determination -Messages 🙆 0 🛕 0 📑 2 Close All Software Feb 1, 2012 11:45:53 AM 🗙 **IZUD154I**: Target software instance "DK5022" was added or updated. Deployment Feb 1, 2012 11:45:53 AM 🗙 IZUD155I: Deployment "DK5022 1.13" is complete. + z/OS Classic Interfaces Refresh To deploy a software instance, complete the checklist. Checklist Progress Step 1. Specify the properties for this deployment. 1 1 Select the software instance to deploy. 3. Select the objective for this deployment. 1 4. Check for missing SYSMODs. 1 View missing SYSMOD reports. 5. Configure this deployment. 1 6. Define the job settings. z/OSMF creates the deployment summary and jobs. 1 · View the deployment summary. View the deployment jobs. 7. Specify the properties for the target software instance. \$ Close





Tips for z/OSMF Software Deployment

- Don't use the 'back' browser button...use z/osmf's button, 'cancel' or 'close'.
- Use the help button, it's actually quite helpful!





🕹 Help - IBM z/05 Management Facility - Mo	zilla Firefox
Search: GO Sea	r <u>ch scope:</u> All topics
Contents 👜 🕶 🚀 🖛 🚍	수 수 🏠 🏇 📥 🗖
🗄 伦 Welcome	Software > Deployment task > Deploying software
Getting started with z/OSMF	
🗄 🧇 Configuration	Canceling deployments
E 🛞 Links	
🗄 🧇 Performance	If you do not want to complete the entire deployment workflow, use the Cancel action provided in the Deployments
Problem Determination	table. Doing so cancels the deployment and unlocks the associated software instances. After you cancel a deployment, you
🗉 🗐 Software	can modify the corresponding software instances or use them in other deployments. You can, however, only view or remove
🖻 🚅 Deployment task	the canceled deployment.
Deploying software	
Enabling remote deployment	Procedure
🕀 🔛 Making changes on the target syste	
Defining new deployments	1. In the Deployments table, select the deployment to be canceled. The value in the Activity column must be <i>In</i>
Naming software instances and depl	progress. You can select multiple deployments.
Modifying and resuming deployment	2. There the Anti-energy and an extent of the Control And Structure with the site of the law of
Viewing deployments	2. From the Actions menu or context menu, select Cancel. A confirmation window is displayed.
Canceling deployments	3. Click OK to cancel the selected deployments. You cannot undo this action.
Removing deployments	
🗄 💷 Deploy Software page	Parent topic: Deploying software
Defining your software to z/OSMF	
Organizing your software and deployme	Related reference
Managing global zones	
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E ♥ z/05MF messages	
 E Solution Glossary of terms and abbreviations 	© Copyright IBM Corp. 2009, 2011. Build 20110930.
- • viewing information in the help system	
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Incidentals

- The batch jobs run program GIMADR to do the copies. This is apparently a 'version' of ADRDSSU. You cannot make any changes to the jcl or you get error:
- GIM70570S ** THIS JOB STEP WAS NOT GENERATED BY z/OSMF AND IS NOT AUTHORIZED TO RUN THE GIMADR UTILITY.
- Even if you are licensed for ADRDSSU.



Differences between our current process and the z/OSMF function



- We don't modify the DDDEFs for the runtime target zone. We will never do SMP work there.
- In other words, our SYSR21.CSI has dddefs pointing to ZOST0D. Maybe that is misleading...
- We do a full volume copy versus z/OSMF doing a dataset by dataset copy. This approach depends on the z/os serverpac setting things up properly.
- We do miscellaneous assemblies, copies, etc. It would be nice to have a spot for customized steps in the flow somewhere. At least for IPLTEXT.





What next?

- Maybe I should have started smaller, with a product rather than an operating system.
- So I decided to try CA1. (Hey, why not? It's just an SMPE product right?) Never mind that it's a different vendor...





CA1 Software Deployment

• Simple. Clean. And it worked the first time!



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Eile Edit View History Boo IBM z/OS Managemen	okmarks <u>T</u> ools <u>H</u> elp It Facility		Welcome mam			Log out	IBM	SHARE Technology - Connections - Results
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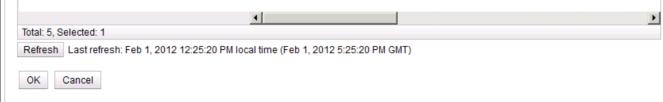
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~	2. <u>Select the software instance to deploy.</u>		
~	3. Select the objective for this deployment.		
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4	5. Configure this deployment.		
	 6. Define the job settings. z/OSMF creates the deployment summary and jobs. View the deployment summary. View the deployment jobs. 		
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		CASMP.CA1V128.SP00.CTAPEXEC	SYS003			CASMP.C/		
		CASMP.CA1V126.SP00.CTAPEZTM	SYS003			CASMP.C/		
		CASMP.CA1V126.SP00.CTAPEZTR	SYS003			CASMP.C/		
		CASMP.CA1V126.SP00.CTAPJCL	SYS003			CASMP.C/		
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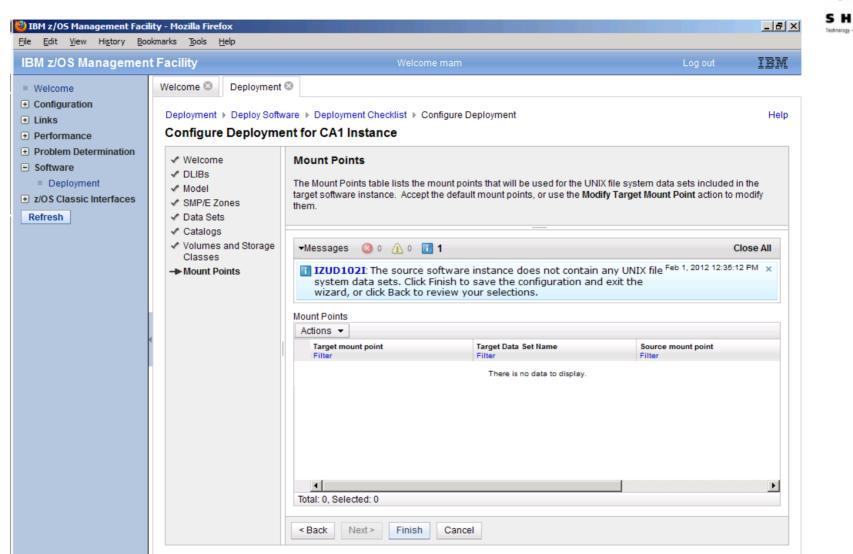


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7. Specify the properties for the target software instance.

4. Check for missing SYSMODs.

5. Configure this deployment.

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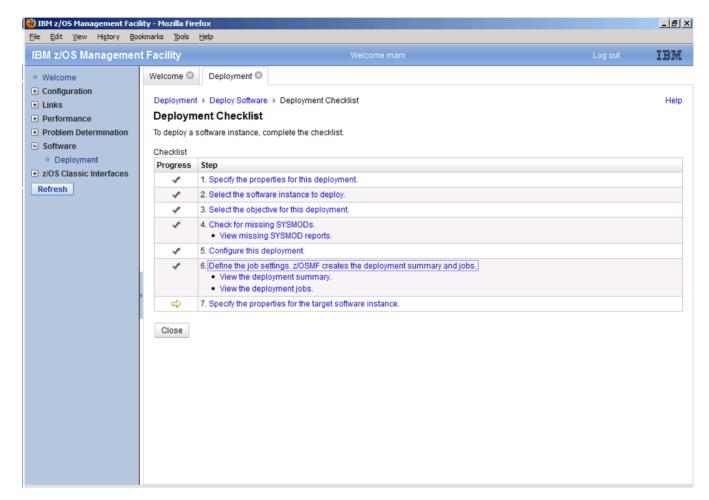
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The IZUD01CP job for CA1...



```
COPY DS(INCLUDE( -
CASMP.CA1V126.SP00.CSI -
)) -
RENAMEU( -
(CASMP.CA1V126.SP00.CSI, -
```

```
MAM.CA1V126.SP00.CSI) -
```

OADR744W (001)-MRPAM(01), NO VALID MEMBERS WERE FOUND FOR PDS DATA SET CASMP.CA1 V126.SP00.SMPLTS. ONLY THE DIRECTORY WILL BE UPDATED





The IZUD02RN job

LISTCAT -

ENTRY(MAM.CA1V126.SP00.CTAPCLS0.#)

IF LASTCC = 0 THEN DO

ALTER -

MAM.CA1V126.SP00.CTAPCLS0.# NEWNAME(MAM.CA1V126.SP00.CTAPCLS0) CATALOG(UCAT.VSYSU04)

END



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		Global Zone "MAM.CA1V1 Zones to Ado Zone Name	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name CAIT0	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			
		Global Zone "MAM.CA1V1 Zones to Ado Zone Name CAIT0	CSI: 26.SP00.CS 1	I" on system "LOCAL" Data Set Name	Zone Type	To Update			



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IBM z/OS Management Facility - Mozilla Firefox File Edit View History Bookmarks Tools Help IBM z/OS Management Facility Welcome 😣 Deployment 🛞 Welcome

Deployment

Deploy Software

Deployment Checklist Help **Deployment Checklist** Problem Determination -Messages 🔕 0 🕼 0 📑 2 Close All Feb 1, 2012 1:09:35 PM 🗙 II IZUD154I: Target software instance "CA1 MAM" was added or updated. Feb 1, 2012 1:09:35 PM 🗴 IZUD155I: Deployment "CA1" is complete. + z/OS Classic Interfaces To deploy a software instance, complete the checklist. Checklist Progress Step \$ 1. Specify the properties for this deployment. 2. Select the software instance to deploy. ~ 3. Select the objective for this deployment. \$ 4. Check for missing SYSMODs. ✓ View missing SYSMOD reports. 1 5. Configure this deployment. 6. Define the job settings. z/OSMF creates the deployment summary and jobs. 1 · View the deployment summary. View the deployment jobs. 7. Specify the properties for the target software instance. 1

Close

Configuration

+ Performance

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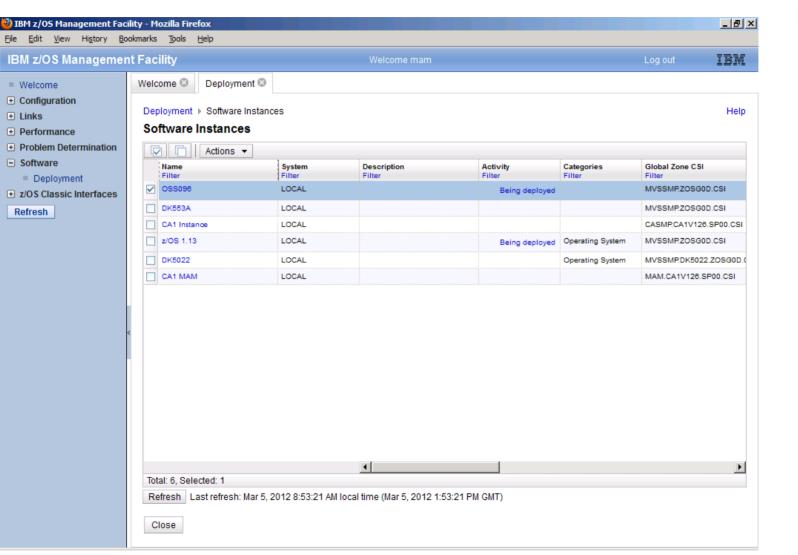
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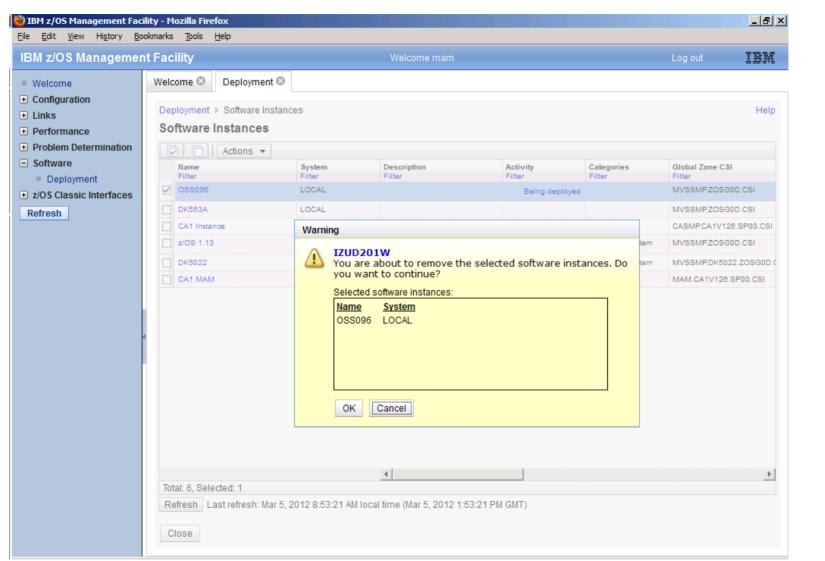
Differences

- On the Operating System deployment:
 - Full volume copy vs dataset-by-dataset
 - No opportunity to add IPLtext, oem assemblies, or miscellaneous jobs (chown and chmod). Though of course, you can run these outside of the deployment.
- On the software product deployment:
 - All SMPE target libs copied, vs just the ones we need. (Loadlibs, ISPF libs, option lib).
 - We catalog the datasets in all our LPAR mcat's.
- Maybe the answer is simply run z/OSMF software deployment, then run our extra jobs.





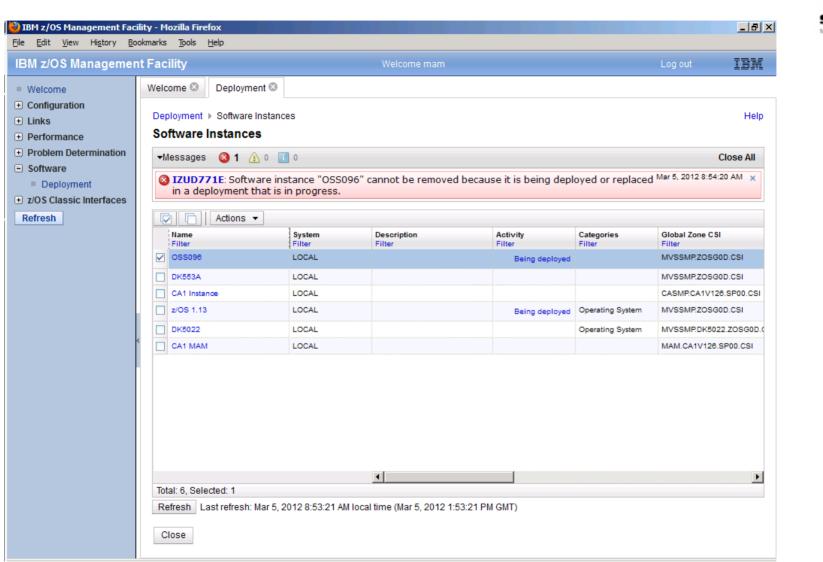






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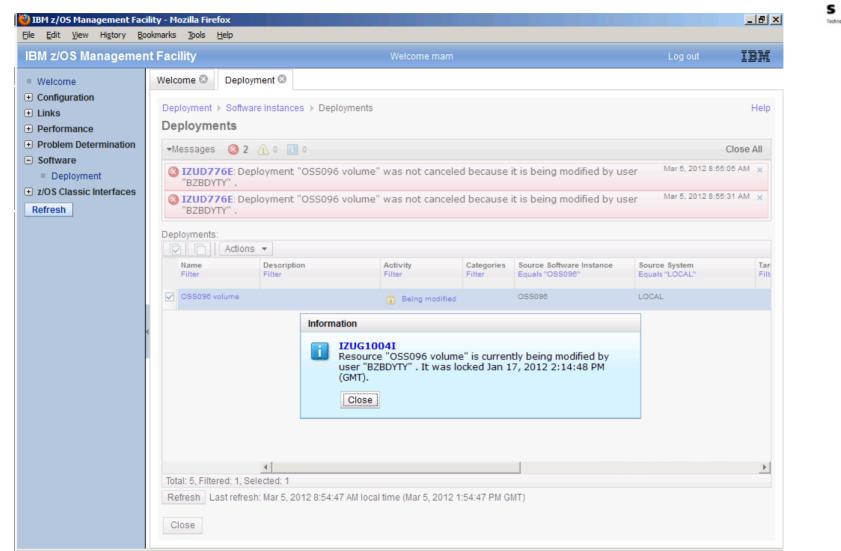


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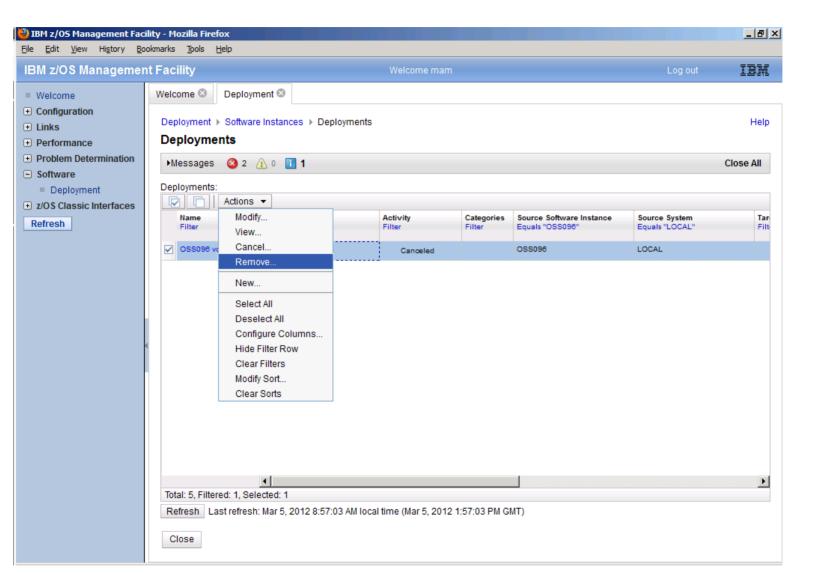




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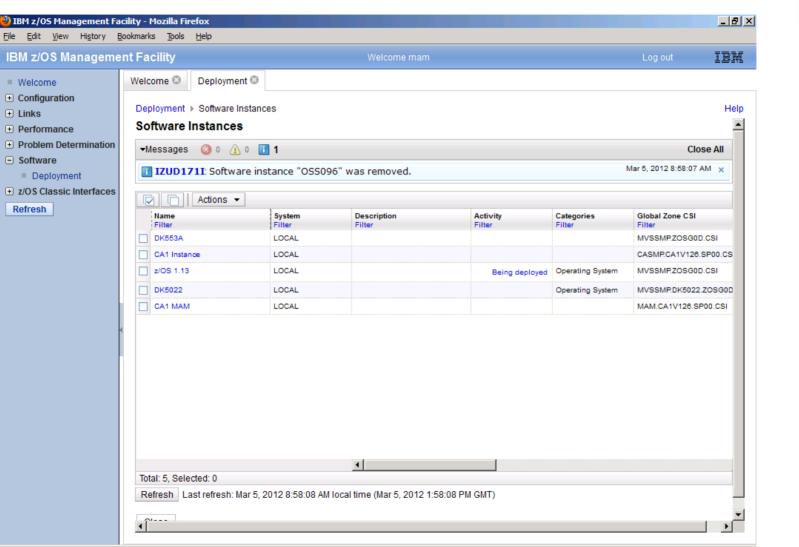




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Cancelling/Removing



- Must be unlocked, or obtain lock (obtain it by attempting to modify)
- Cancel
- Remove
- I think the IZUG1004I msg should give you the option to grab the lock, like IZUG1005W does.





Summary

- A very nice deployment application
- Great if yours is nonexistent or not perfected
- Ours is clean, simple, and straightforward
- For us, it's measuring 50 screens versus 2 batch jobs
 - That may lessen on the next deploy
- So we probably won't use this function.



Questions?





