IBM z/OS Management Facility Hands-on Lab

Session: 13943 (Monday August 12, 2013)

Session 14315 (Friday August 16, 2013)

SHARE, Boston August 2013

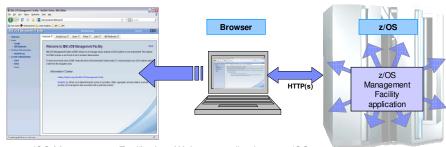
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Lab Agenda

- Brief overview of z/OSMF
- Start the hands on Lab Logon to z/OSMF
 Explore the different tasks in z/OSMF
- Lab 1 Incident Log
- Lab 2 z/OSMF ISPF, including Application Linking with Incident Log
- Lab 3 Workload Management
- Lab 4 System status
- Lab 5 Resource Monitoring
- Lab 6 Software Deployment
- Lab 7 Capacity Provisioning
- Optional Labs
 - Lab 7 Capacity Provisioning
 - Lab 8 Workload Management : Print Preview of Service Definition
 - Lab 9 Workload Management : View the History of a Service Definition
 - Lab 10 Workload Management : View the WLM Status of the Sysplex
 - Lab 11 Monitoring Desktops: Add new metrics to monitor

The Il for z/0	A z/OS Management Facili BM z/OS Management Facility is a new product OS that provides support for a modern, Web-	ιy	
	ser based management console for z/OS. release is z/OSMF 1.11, introduced with z/OS 1.11		
 Helps admir 	s system programmers to more easily manage and	🚱 🔄 C 🗙 🏠 🔳	Dels (He) (Majultanies):3000(anni) marchadres (2004) anarchadres (2004) BM
Mana needs	than just a graphical user interface, the z/OS gement Facility is intelligent, addressing the s of a diversified skilled workforce and mizing their productivity.	El/JacOS Linuxycount Fic • Welcome • Links • Google • ElM Robols • Problem Determination • Incident Log • Incident Log	Light Networking Light 122 Weich MI USER 0 Listed 0 Listed 0 Listed 0 Listed 0 Weich MI USER 0 Listed 0
	e System Programmers who are new to the frame productive more quickly by:	- Rates - Vaera	Information Center: Getting Same surge the 80x 200 Wanagement Facet Moder Los Allows to to determining the source of a protein: cobias accessas and send data to a service
	Providing a modern browser-based user interface that is more familiar to those new to the platform		anoder and manage the data associated with a savidpair problem
► E	Automating tasks, thus reducing the learning curve Embedding active user assistance in the UI (e.g., wizards that guide users through tasks, interactive troubleshooting aids).		
 Make 	e experienced System Programmers more uctive by:	Transferring data from vom Jon.com	<u>،</u> ۱۹
· • •	Making functions easier		
	z/OS Management Facility is optional for those who prefer traditional interfaces		
			IBM System
New Face	a of z/QS		77.2

z/OS application, browser access



- z/OS Management Facility is a Web 2.0 application on z/OS
 - Manages z/OS from z/OS
 - Browser communicates with z/OSMF via secure connection, anywhere, anytime
 - z/OSMF V1R11 is supported on z/OS V1R10 w/maint, z/OSV1R11, and above
 - z/OSMF V1R12 is supported on z/OS V1R12
 z/OSMF V1R13 is supported on z/OS V1R13

IBM Systems

IBM ±05 Management Fac		Welcome guest	IBM
User ID	Welcome ©		
Password or pass phrase	IBM Internal Use Only		
Wetome Unix Support Paylo Network Support Paylo Support Paylo Support Paylo Support Paylo Support Paylo Support Suppo	automating others, z/OSMF can help to simplify some areas of system mana	ds of a 2009, system through a Web browser interface. By streamlining some traditional lasks and pament and reduce the level of expertise needed for managing a system.	About
	Unauthorized access to this system is prohibited	IEI	

To access z/OSMF, you point your browser to the URL for the z/OSMF instance which is the host name, the port name and the context root for z/OSMF -this is the result

New Face of z/OS	
z/OSMF V1	R13
IBM z/OS Management Facilit	Configuration category
Welcome	Configuration Assistant for z/OS Communication Server application
- Configuration	 Simplified configuration and setup of TCP/IP policy-based networking functions
Configuration Assistant	•Links category
- Links	Links to resources - provides common launch point for accessing resources beyond z/OSMF
ShopzSeries	Performance category
Support for z/OS	
System z Redbooks	 <u>Capacity Provisioning (R13) (updated)</u>manage connections to CPMs, view reports for domain status, active configuration and active policy.
WSC Flashes & Techdocs	Resource Monitoring, System Status - provide integrated performance monitoring of
z/OS Basics Information Center	customer's enterprise
z/OS Home Page	Workload Manager Policy Editor application
z/OS Internet Library	 Facilitate the creation and editing of WLM service definitions, installation of WLM service
Performance	definitions, and activation of WLM service policies
 Capacity Provisioning Resource Monitoring 	Problem Determination category
 Resource Monitoring System Status 	
 Workload Management 	 Incident Log: provide a consolidated list of SVC Dump related problems, along with details and diagnostic data captured with each incident; facilitate sending the data for further diagnostics.
Problem Determination	•Software category (R13) (updated)
Incident Log	
Software	 Management: deployment of installed software simpler and safer, manage service levels and product levels
Software Management	•z/OS classic Interface category (R13)
z/OS Classic Interfaces	
ISPF	 ISPF Task integrate existing ISPF into z/OSMF to enable tasks from single interface and ability to launch to ISPF functions directly
z/OSMF Administration	•z/OSMF Administration category
Application Linking Manager	 z/OSMF authorization category z/OSMF authorization services for administrator:- dynamically add links to non-z/OSMF resources;
E Links	application linking manager(R13)
 z/OSMF Settings FTP Servers 	•z/OSMF Settings category (New!)
Systems	Store definitions for FTP destinations and systems
Refresh	Clore deminitions for FTF destinations and systems
Keiresi	
	IBM System

Once you log in with a valid userid, all functions that are configured and authorized for the userid are made available.

Starting the Lab – log in to z/OSMF

- Launch the Mozilla Firefox browser
 - Note: If browser asks to add exception for certificate, do so
- Point Browser to z/OSMF enter the url provided by the instructor
 - Note: Ignore and close the warning message
 - IZUG809W Unsupported Web browser version or level found: "3.6.13 (.NET CLR 3.5.30729)" . Some z/OSMF functions might not be available if you continue.
- View the Welcome page with the customized Logo

 view 'About' panel
 - Click top right on 'About'
 - See the details on build and service levels in the installed package.
 - Close the About panel (X on top right)
- Login with SHARE userid/pw as provided by the lab instructor.
 - See the Full Navigation list and welcome page
- Expand each category to see the tasks available

Lab 1: Incident log Lab

This lab consists of 5 tasks.

It is recommended that you execute these tasks in the order listed above. As you get familiar with the Incident Log, you will be able to work directly with the task you need to accomplish.

As with all the labs in this session, all the teams will be working with the same z/OSMF instance. Each team will be given a unique id to work with. However, you must remember that as you work with a given incident, that incident is also available to the other teams to work with. When you are working with updating an incident please make sure you work with the user defined incident assigned to your team to avoid confusing the other teams.

- 1. View all the incidents across all the systems in your sysplex
- 2. Customize your view of these incidents
- 3. View the details of an abend incident
- 4. FTP the diagnostic data captured for an incident to your service provider
- 5. View the status of the FTP for that incident

Optional tasks if you have time and interest

- 6. View FTP destinations
- 7. View firewall proxy

Task 1: View all the incidents across all the systems in your sysplex

Step 1: Expand the Problem Determination Category in the Left Navigation Tree

Step 2: Click on Incident Log

The first panel that opens is the main panel of the Incident Log. Here you will see a summary view of all the Incidents across all the systems in the sysplex. Take some time to scroll through and look at all the columns.

Note: It is possible that you do not see any incidents yet! See next task!

Welcome zosmfad	Log out	IBM.
Welcome x Incident Log Incident Log Incident Type Match: All filters Incident Type Description Date and Time (GMT) Filter Filter Past 3 days There is no data to display.	Log out Sysplex Filter	Help Syste Filter
	Welcome X Incident Log X Incident Log Incident Type V Description Filter Date and Time (GMT) Filter Past 3 days	Welcome × Incident Log Incident Log Incident Type ▼ Match: All filters Incident Type ▼ Description Date and Time (GMT) Sysplex Filter Filter

Task 2: Customize your view of these incidents

You have the ability to control what data you see in terms of configuring what columns are displayed and the order of those columns. You can also control the data you see, which is you can filter on different columns. You can also sort the columns to view the data in different sort orders. You can sort on up to 3 columns at a time!

Remember that all customizations are saved on a per user basis.

Step 1: Filter the columns

By default you will get all the incidents that have occurred in the last 3 days. You can change this.

Click on the filter displayed under a column header to change the filter. For this example, let us say we want to look at incidents from the last **150 days**.

Click on the Date and Time column filter. In the resulting dialog, change the days to 150 days and click OK

C Actions	Match: All f	lters	Click here			
Incident Type	Descriptio	n	Date and Ture (Gwrr,	Sysplex	System	Prob
Filter	Filter	P	ast 3 days	Filter	Filter	Filter
User Initiated	** MFUSR1	Modify Filters		SHARPLEX	S1	
User Initiated	** MFUSR1	riodity filters		SHARPLEX	S1	
User Initiated	** MFUSR1	Match:		SHARPLEX	S1	
User Initiated	** MFUSR1	All filters Match case		SHARPLEX	S1	
User Initiated	** MFUSR1			SHARPLEX	S1	1234
User Initiated	** MFUSR1	Columns: Filters		SHARPLEX	S1	
User Initiated	** MFUSR1	Incident Type		SHARPLEX	S1	
User Initiated	** MFUSR2	 Description Date and Time (GMT): Past 45 days Change 	ge to 150 days	SHARPLEX	S1	
			mit: Days			
		• Notes				
al: 8, Filtered: 8,		OK Cancel Help	<u> </u>			

You will now see Incidents from the last 150 days on your sysplex.

	In	cident Log			Column change 150days	ed to	
		Actions 🔻					
		Incident Type 🛛 🔻	Description	Date and Time (GM	Sysplex	System	Problem N
		Filter	Filter	Past 150 days	Filter	Filter	Filter
C		User Initiated	** MFUSR00 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jun 19, 2013 2:50:18 PM	SHARPLEX	S1	
		User Initiated	** MFUSR20 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 9:29:19 PM	SHARPLEX	S1	
		User Initiated	** MFUSR19 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 9:28:58 PM	SHARPLEX	S1	
		User Initiated	** MFUSR18 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 9:28:38 PM	SHARPLEX	S1	
		User Initiated	** MFUSR09 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 8:30:34 PM	SHARPLEX	S1	
)		User Initiated	** MFUSR08 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 8:29:50 PM	SHARPLEX	S1	
ľ		User Initiated	** MFUSR07 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 8:29:14 PM	SHARPLEX	S1	
		User Initiated	** MFUSR06 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 8:28:41 PM	SHARPLEX	S1	
		User Initiated	** MFUSR05 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 8:26:44 PM	SHARPLEX	S1	
-		User Initiated	** MFUSR05 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	May 8, 2013 8:25:00 PM	SHARPLEX	S1	

Step 2: Sort the columns

Click on the column header of the column you want to sort on. The first time you click on it, it will sort it in ascending order, the second time in descending order and the third time it will clear the sort. Try sorting in descending order on the Date and Time column. Notice the arrows that show up. Next try to sort on the Incident Description column. Now note the sort order numbers that show up on the column headers.

16M https://mvs1.centers.ihost.co	om: 32208/zosmf/			🚖 🔻 😋			۹ م	
M z/OS Management Facility	+							
BM z/OS Manag	ement Facility		Welcome r	mfusr01			Log out	IBN
elcome 🗙 Incident	Log X							
ncident Log	ſ	Column in Ascending order			Colu	umn in Desce er	ending	He
🔽 📄 🛛 Actions 🔻	Match: All filters	7)		\mathbf{a}			
Incident Type	Description		▲2	Date and Time (GMT		Sysplex	System	Pro
Filter	Filter			Past 45 days		Filter	Filter	Filter
User Initiated	** MFUSR13 - TEST DUM	P FOR USE WITH INCIDEN	LOG IVP **	Jan 19, 2013 1:38:29 F	PM	SHARPLEX	S1	
User Initiated	** MFUSR14 - TEST DUM	P FOR USE WITH INCIDENT	LOG IVP **	Jan 19, 2013 1:32:31 F	PM	SHARPLEX	S1	
User Initiated	** MFUSR15 - TEST DUM	P FOR USE WITH INCIDEN	LOG IVP **	Jan 19, 2013 1:31:55 F	PM	SHARPLEX	S1	
User Initiated	** MFUSR16 - TEST DUM	P FOR USE WITH INCIDENT	LOG IVP **	Jan 19, 2013 1:31:22 F	PM	SHARPLEX	S1	
User Initiated	** MFUSR17 - TEST DUM	P FOR USE WITH INCIDEN	LOG IVP **	Jan 19, 2013 1:30:39 F	PM	SHARPLEX	S1	1234
User Initiated	** MFUSR18 - TEST DUM	P FOR USE WITH INCIDEN	FLOG IVP **	Jan 19, 2013 1:29:57 F	PM	SHARPLEX	S1	
User Initiated	** MFUSR19 - TEST DUM	P FOR USE WITH INCIDEN	LOG IVP **	Jan 19, 2013 1:29:18 F	PM	SHARPLEX	S1	
User Initiated	** MFUSR20 - TEST DUM	P FOR USE WITH INCIDEN	LOG IVP **	Jan 19, 2013 1:28:21 F	PM	SHARPLEX	S1	
ABEND SOEC3	COMPON=WEBSPHERE COMPID=5655N0200,ISS ROUTINE BBOOOUTP	Z/OS, UER=BBORADMP,ABEND IN	N PC	Jan 17, 2013 2:54:15 A	M	SHARPLEX	S1	
ABEND S00D6	COMPON=WEBSPHERE COMPID=5655N0200,ISS NAME NOT KNOWN)	Z/OS, UER=BBORLEXT,ABEND IN	(MODULE	Jan 11, 2013 2:13:53 F	PM	SHARPLEX	S1	1234
ABEND SOEC3	COMPON=WEBSPHERE COMPID=5655N0200,ISS NAME NOT KNOWN)	Z/OS, UER=BBORLEXT,ABEND IN	(MODULE	Jan 11, 2013 2:13:53 F	M	SHARPLEX	S1	
ABEND S00C1	ZTT TIENDUMP SVCDUM 1,CAT=300DC7F8,JOB#=	IP DUMP FOR PROBLEM # 01000002		Jan 10, 2013 3:27:51 F	PM	SHARPLEX	S1	
ABEND S00C1	ZTT ZTTABND ABEND F PDW1,CAT=300DC7F8,JC			Jan 10, 2013 3:27:02 F	PM	SHARPLEX	S1	
				1				
Total: 13, Filtered: 1	3, Selected: 0							

Step 3: Rearrange the order of the columns as you would like to see it

M z/OS Manage	ement Facility +					
BM z/C	S Management Facilit	y Welcome	mfusr01		Log out	IBN
elcome ncide	x Incident Log x					Hel
	Actions Match: All filte	rs				
Incid		▲2	Date and Time (GMT)	▼1 Sysplex	System	Pro
Filter	Set Problem Number		Past 45 days	Filter	Filter	Filter
User	Add Notes	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:38:29 PM	SHARPLEX	S1	
User	Delete Incident	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:32:31 PM	SHARPLEX	S1	
User	Send Diagnostic Data	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:55 PM	SHARPLEX	S1	
User	View Diagnostic Details	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:22 PM	SHARPLEX	S1	
User		ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:30:39 PM	SHARPLEX	S1	1234
User		ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:29:57 PM	SHARPLEX	S1	
User	Allow Next Dump	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:29:18 PM	SHARPLEX	S1	
User	FTP Servers	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:28:21 PM	SHARPLEX	S1	
ABEN	FTP Profiles	SPHERE Z/OS,	Jan 17, 2013 2:54:15 AM	SHARPLEX	S1	
	Select All	D200, ISSUER=BBORADMP, ABEND IN PC				
		OUTP				
ABEN		3PHERE Z/OS, 200,ISSUER=BBORLEXT,ABEND IN (MODULE	Jan 11, 2013 2:13:53 PM	SHARPLEX	S1	1234,
	Configure Columns	WN)				
ABEN		SPHERE Z/OS,	Jan 11, 2013 2:13:53 PM	SHARPLEX	S1	
	Hide Filter Row	D200, ISSUER=BBORLEXT, ABEND IN (MODULE				
	Clear Filters		Ine 40, 0040 0-07-54 DM	CLIADDI EX	04	
ABEN	Modify Sort	SVCDUMP DUMP FOR PROBLEM # 8,JOB#=01000002	Jan 10, 2013 3:27:51 PM	SHARPLEX	51	
ABEN	Clear Sorts	BEND FOR	Jan 10, 2013 3:27:02 PM	SHARPLEX	S1	
	PDW1,CAT=30	0DC7F8,JOB#=01000001				
			•			
Total: 13	3, Filtered: 13, Selected: 0					

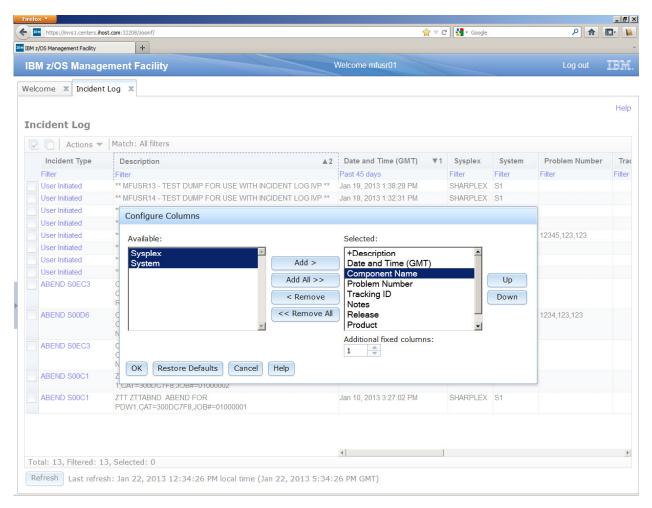
Assume you do not want to see the sysplex and system columns. Select them and click on the Remove button

M z/OS Management Facility	+					
3M z/OS Manag	ement Facility	Welcome mfusr01			Log out	IB)
elcome 🗙 Inciden	Log X					
ncident Log						He
Actions -	Match: All filters					
Incident Type	Description	2 Date and Time (GMT) ▼1	Sysplex	System	Problem Number	Т
Filter	Filter	Past 45 days	Filter	Filter	Filter	Filt
User Initiated	** MFUSR13 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **		SHARPLEX	S1		
User Initiated	** MFUSR14 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:32:31 PM	SHARPLEX	S1		
User Initiated	*					
User Initiated	Configure Columns					
User Initiated	* Available:	Selected:			12345,123,123	
User Initiated	*					
User Initiated	x Sysplex ▲ System Add >	+Description Date and Time (GMT)	-			
User Initiated	*	Problem Number				
ABEND SOEC3	Add All >>	Tracking ID		Up		
	Contraction of the second s	Notes		Down		
	< Remove A	Release Product			4004 400 400	
ABEND S00D6		Component Name			1234,123,123	
	N	Additional fixed columns:	<u> </u>			
	C					
ABEND S0EC3						
ABEND SOEC3		1				
	OK Restore Defaults Cancel Help	1				
ABEND SOEC3 ABEND SOOC1						
	OK Restore Defaults Cancel Help 1,CAT=300DC/F8,30B#=01000002 ZTT ZTTABND ABEND FOR	Jan 10, 2013 3:27:02 PM	SHARPLEX	S1		

z/OSMF Lab

Now let's say you want to see the 'Component Name' column next to the Date and Time column

Select the Component Name column and then click on the Up button, until it is in the position you want it.



Click the OK button. You now have only the columns you want displayed in the order you want them.

1 z/OS Management Facility	+				
3M z/OS Manag	jement Facility	Welcome mfusr01		Log out	IBM
lcome 🗙 Incider	nt Log 🗶				
			Colum	n moved	He
ncident Log					
🛛 📄 🛛 Actions 🤻	Match: All filters				
Incident Type	Description A2	Date and Time (GMT) ▼	1 Component Name	Problem Number	Track
Filter	Filter	Past 45 days	Filter	Filter	Filter
User Initiated	** MFUSR13 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:38:29 PM			
User Initiated	** MFUSR14 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:32:31 PM			
User Initiated	** MFUSR15 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:55 PM			
User Initiated	** MFUSR16 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:22 PM			
User Initiated	** MFUSR17 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:30:39 PM		12345,123,123	
User Initiated	** MFUSR18 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:29:57 PM			
User Initiated	** MFUSR19 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:29:18 PM			
User Initiated	** MFUSR20 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:28:21 PM			
ABEND S0EC3	COMPON=WEBSPHERE Z/OS, COMPID=5655N0200,ISSUER=BBORADMP,ABEND IN PC ROUTINE BBOOOUTP	Jan 17, 2013 2:54:15 AM			
ABEND S00D6	COMPON=WEBSPHERE Z/OS, COMPID=5655N0200,ISSUER=BBORLEXT,ABEND IN (MODULE NAME NOT KNOWN)	Jan 11, 2013 2:13:53 PM		1234,123,123	
ABEND S0EC3	COMPON=WEBSPHERE Z/OS, COMPID=5655N0200,ISSUER=BBORLEXT,ABEND IN (MODULE NAME NOT KNOWN)	Jan 11, 2013 2:13:53 PM			
ABEND S00C1	ZTT TIENDUMP SVCDUMP DUMP FOR PROBLEM # 1,CAT=300DC7F8,JOB#=01000002	Jan 10, 2013 3:27:51 PM			
ABEND S00C1	ZTT ZTTABND ABEND FOR PDW1,CAT=300DC7F8,JOB#=01000001	Jan 10, 2013 3:27:02 PM			
		•			

You have successfully customized your workspace! You are only viewing the columns you want, in the order you want, for a range of data that you filtered, in the sort order that you want.

Task 3: View the details of any given incident

Now that you've customized your workspace, let us dive deeper into an individual Incident:

a. **Step 1**: Select any incident of type ABEND. Click on the Incident Type column value or you can Right click on the incident and from the popup context menu, select View Diagnostics Details

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M z/0	OS Management Faci	ity +					
BI	M z/OS M	anagement Facility	Welcome	mfusr01		Log out	IBY
elc	come × Ir	ncident Log 🗙					
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V	Acti	ons 🔻 🛛 Match: All filters					
	Incident Ty	/pe Description	▲2	Date and Time (GMT)	₹1	Component Name	Proble
	Filter	Filter		Past 45 days		Filter	Filter
	User Initiated	d ** MFUSR13 - TE	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:38:29 PM			
	User Initiated	d ** MFUSR14 - TE	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:32:31 PM			
	User Initiated	d ** MFUSR15 - TE	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:55 PM			
	User Initiated	d ** MFUSR16 - TE	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:22 PM			
	User Initiated	d ** MFUSR17 - TE	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:30:39 PM			12345,1
	User Initiated	d ** MFUSR18 - TE	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:29:57 PM			
	User Initiated	d ** MFUSR19 - TE	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:29:18 PM			
	User Initiated	d ** MFUSR20 - TE	ST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:28:21 PM			
2	ABEND SOE	C3 COMPON=WEBS Set Tracking ID	SPHERE Z/OS, D0,ISSUER=BBORADMP,ABEND IN PC ITP	Jan 17, 2013 2:54:15 AM			
	ABEND SOC	Set Problem Number	HERE Z/OS.	Jan 11, 2013 2:13:53 PM			1234,12
	ADEND SU	Add Notes Delete Incident	00,ISSUER=BBORLEXT,ABEND IN (MODULE N)	Jan 11, 2013 2.13.33 PM			1234,12
	ABEND SOE	Send Diagnostic Data	JU, ISSUER=DOORLEAT, ADEIND IN (MODULE	Jan 11, 2013 2:13:53 PM			
	AREND SOL	View Diagnostic Details FTP Job Status	N) CDUMP DUMP FOR PROBLEM #	Jan 10, 2013 3:27:51 PM			
	ADEND SUC		IOB#=01000002	oan 10, 2013 5.27.31 PM			
	ABEND SOC		DC7F8,JOB#=01000001	Jan 10, 2013 3:27:02 PM			
				•			
Tot	tal: 13, Filte	ered: 13, Selected: 1					

Step 2: It brings up the View Diagnostic Details panel:

	32208/zosmf/		슻 ▽ C Soogle	۹ 🔒
/OS Management Facility	+			
M z/OS Manag	ement Facility	Welcome mfusr01		Log out
come 🗴 Incident	Log X			
ident Log 🕨 View [Diagnostic Details			
ew Diagnosti	c Details			
General Diagnos	stic Data			
iagnostic Data				
Data Type	Source	Sysplex	System	
SVC dump	SYS1.DUMP.D130117.T025415.S1.S00001	SHARPLEX	S1	
Error log	CEA.R00.CAC8364F.L7C5C8EA.X00.VEW	SHARPLEX	S1	
Operations log	CEA.Y00.CAC8364F.L7C5C8EA.X00.VEW	SHARPLEX	S1	
		SHARPLEX	S1	
Operations log Total: 3, Selected:	0			e deared
Operations log Total: 3, Selected: ou can attach up to				s cleared.
Operations log Total: 3, Selected: ou can attach up to ttachments	0			s cleared.
Operations log Total: 3, Selected: ou can attach up to ttachments	0			s cleared.
Operations log Total: 3, Selected: ou can attach up to ttachments New	0 o ten additional files to send with this incident. W Source			s cleared.
Operations log Total: 3, Selected: ou can attach up to ttachments New	0 ten additional files to send with this incident. W Source There is n	hen you close the panel,		s cleared.
Operations log Total: 3, Selected: ou can attach up to ttachments New Data Type Total: 0, Selected:	0 b ten additional files to send with this incident. W Source There is r 0	hen you close the panel,		s cleared.
Operations log Total: 3, Selected: ou can attach up to ttachments New Data Type	0 b ten additional files to send with this incident. W Source There is r 0	hen you close the panel,		s cleared.
Operations log Total: 3, Selected: ou can attach up to ttachments New Data Type Total: 0, Selected:	0 b ten additional files to send with this incident. W Source There is r 0	hen you close the panel,		s cleared.
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Operations log Total: 3, Selected: ou can attach up to ttachments New Data Type Total: 0, Selected:	0 b ten additional files to send with this incident. W Source There is r 0	hen you close the panel,		s cleared.

On this panel you can see all the pieces of diagnostic data that have automatically captured for this Incident by the backend instrumentation. Take some time to look at this.

Observe that you also have the ability to attach additional pieces of diagnostic data (for example a trace file)

Once you've finished with this tab, lets move on to the other tab - General

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ncident Log General tal	etails			Help
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General Diagnostic Da	ata			
Incident type: A	BEND			1
		COMPID=5655N0200,ISSUER=BBORADMP,ABEND IN PC ROUTINE BBOOOUTP		
	an 17, 2013 2:54:15 AM			
	HARPLEX			
System name: S	1			
Problem number:		Identify the problem number as an IBM PMR and verify the syntax.		
Tracking ID:				
Component name:				
Component ID: 5	655N0200			
z/OS release: V	1R13			
Product:				
	0EC3			
	4130007			
	BOOOUTP			
	BOOPCRT	OOUTP PIDS/5655N0200 AB/S0EC3 REXN/BBOOOUTP FI/98BCD04007FE0DC0A7CA0994		
	RC1/04130007 SUB1/SR#(
APAR search terms: B	BOOOUTP ABENDEC3 RSN0	4130007 5655N0200		
APAR release of z/OS: R	780			
Notes:				

Step 3: Click on the General tab on top

You can now see additional information about the Incident - for example, the CSECT, Load module and symptom string, as well as the APAR Search String.

Step 4: Done, return to the main summary panel of the Incident Log

Click on the Incident Log link in the breadcrumbs at the top of the page to return, or click on the OK button

Task 4: FTP the diagnostic data captured for an incident to your service provider

Step 1: Select an Incident. Use the user initiated incident that has your userid in the description

(Hint: you can also 'filter' the incidents for a Description with your Userid!)

Right click (or click on the Actions button) and then select 'Send Diagnostic Data'

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2 0	Actions 🔻	Match: All fil	ters					
Inci	dent Type	Descriptio	n 🔺 2	Date and Time (GMT)	▼1	Component Name	Problem Number	Track
Filter		Filter		Past 45 days		Filter	Filter	Filter
User	Initiated	** MFUSR13	- TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:38:29 PM				
User	Initiated	** MFUSR14	- TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:32:31 PM				
User	Initiated	** MFUSR15	- TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:55 PM				
User	nitiated	** MEUSR16	- TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:22 PM				
User	Set Tracking	ID	- TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:30:39 PM			12345,123,123	
User	Set Problem	Number	- TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:29:57 PM				
User	Add Notes		- TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:29:18 PM				
User	Delete Incide	nt	- TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:28:21 PM				
ABEN	Send Diagno:	stic Data	EBSPHERE Z/OS,	Jan 17, 2013 2:54:15 AM				
	View Diagnos		55N0200,ISSUER=BBORADMP,ABEND IN PC OOOUTP					
ABEN	FTP Job Stat		EBSPHERE Z/OS, 55N0200,ISSUER=BBORLEXT,ABEND IN (MODULE KNOWN)	Jan 11, 2013 2:13:53 PM			1234,123,123	
ABEN	ID S0EC3		VEBSPHERE Z/OS, 55N0200,ISSUER=BBORLEXT,ABEND IN (MODULE KNOWN)	Jan 11, 2013 2:13:53 PM				
ABEN	ID S00C1		MP SVCDUMP DUMP FOR PROBLEM # IC7F8,JOB#=01000002	Jan 10, 2013 3:27:51 PM				
ABEN	ID S00C1		ID ABEND FOR 300DC7F8,JOB#=01000001	Jan 10, 2013 3:27:02 PM				
				4				
otal· 1	3, Filtered: 13,	Selected: 1						

You will now be able to work with a wizard that will guide you through the steps to FTP the diagnostic data for that incident

Step 2: Welcome.

The first panel you see is the Welcome page. Notice that it has the steps you will be guided through on its left pane. It shows you what steps have been completed and which one is your current one

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IBM z/OS Management Fa	cility	Welcome mfusr01		Log out	IBM.
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Incident Log 🕨 Send Diagnostic D	Data				Help
Send Diagnostic Data					
Welcome Select FTP Server Specify Security Settings Select FTP Profile Define Job Settings	Welcome Use this wizard to pre a problem number.	pare and send diagnostic data to an FTP server. 1	Fo begin, review the selected diagno:	stic data and	enter
Review FTP Information	Incident				
	Incident Type	Description	Date and Time (GMT)		
	User Initiated	** MFUSR16 - TEST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:22 PM		
	Diagnostic Data to Ser	d			
	Data Type	Sysplex	System		
>	SVC dump	SHARPLEX	S1		
	Error log	SHARPLEX	S1		
	Operations log		S1		
	Error log summary	Problem number 12345.123.123	S1		
	<pre>* Problem number: 12345,123,123 < Back Next ></pre>	Identify the problem number as an IBM	I PMR and verify the syntax.		

The welcome page has the details about the Incident you are working with, plus it lists the pieces of diagnostic data that is going to be sent.

It also shows you the problem number associated with the Incident. If the incident does not have one already associated, it allows you to set one here itself. Go ahead and fill in one if it does not already exist.

For this exercise, you can enter 12345,123,123 as the problem number, and select the IBM PMR option.

The problem number is required to help identify the FTP-ed files at the destination.

Click on next once you are done.

Step 3: Select FTP Destination:

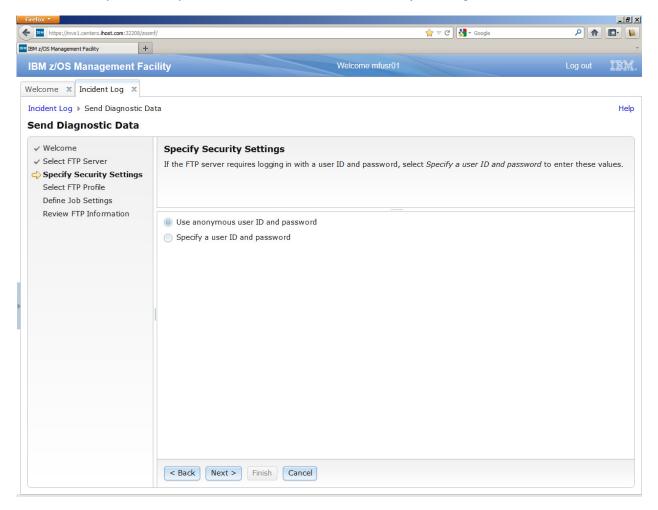
The next page in the wizard allows you to select where you want to send these files/datasets.

For this exercise, select the first one in the list and click on Next .

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Specify Security Settings						
Select FTP Profile						
Define Job Settings						
Review FTP Information						
	A	ctions 🔻				
		Name	Activity	Host	Path Name	
		Filter	Filter	Filter	Filter	
		IBM-ecurep-mvs		ftp.ecurep.ibm.com	/toibm/mvs	
	0	IBM-ecurep-tivoli		ftp.ecurep.ibm.com	/toibm/tivoli	
	0	IBM-testcase-mvs		testcase.boulder.ibm.com	/toibm/mvs	
	0	IBM-testcase-tivoli		testcase.boulder.ibm.com	/toibm/tivoli	
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	Т	tal: 5, Selected: 1				
			2013 2:42:24 PM lo	cal time (Jan 22, 2013 7:42:24 PM	GMT)	

Step 4: Specify Security Settings:

This is where you can enter the userid/password needed to access the FTP Destination server you selected in the previous step. In this exercise, we will use the anonymous sign on.

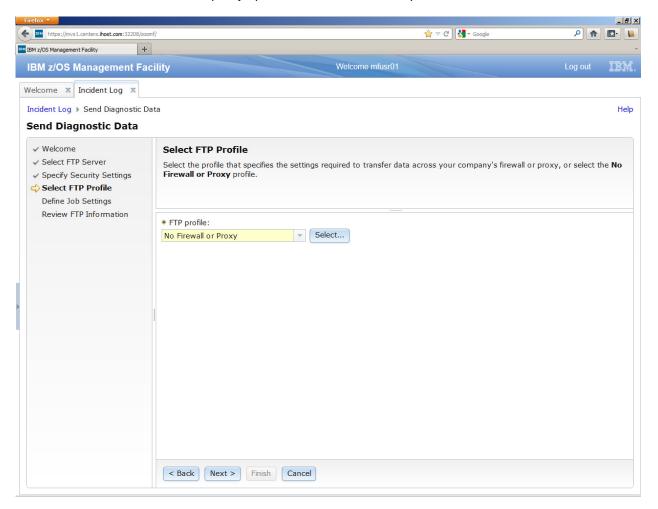


Click on Next to move on.

Step 5: Select FTP Profile

This is where you can specify your firewall or proxy information if needed. In this exercise, we do not have a firewall.

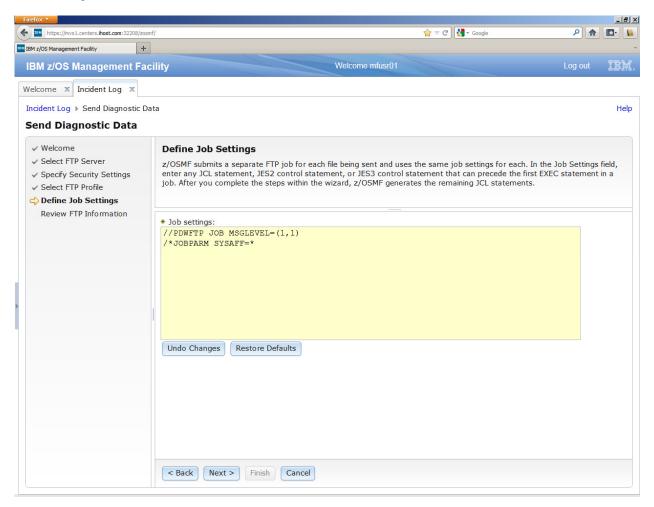
Make sure that the No firewall or proxy option is selected in the drop down.



Click on Next.

Step 6: Define Job Settings

At this stage you have the ability to edit/specify the job card information for the FTP Job that is being built in the background.



You can make changes if you'd like. The default entries will work for our lab session, so you can also just click on Next

Step 7: Review FTP Information

The wizard has walked you through collecting all the information needed to FTP the diagnostic data to your service provider. This page allows you to review all the data that you have provided. If you want to change any value, you can click the Edit JCL button to make changes. Note: We do not recommend changing the JCL.

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Select FTP Server			hanges, return to the appropr	iate panel by clicking Back . Whe	en you are ready to send
 Specify Security Settings Select FTP Profile 	the data, click Fin	ish.			
✓ Define Job Settings					
Review FTP Information	Diagnostic Data:	SVC dump	SHARPLEX S1		
	Blaghobile Bata.	Error log	SHARPLEX S1		
		Operations log Error log summary	SHARPLEX S1 SHARPLEX S1		
	Problem number:	12345,123,123 Is n	ot IBM PMR number		
	FTP server:	Name:	IBM-ecurep-mvs		
		Host: Path name:	ftp.ecurep.ibm.com /toibm/mvs		
		Port number:			
	Transfer method:	FTP			
	Security settings:	User ID: Password:	anonymous *****		
	FTP profile:				
	FTP profile:	Name: Firewall host:	No Firewall or Proxy		
		Firewall port: FTP.DATA file name:			
		TCPIP.DATA file nam	e:		
	View JCL Edi	t JCL			
	< Back Next	> Finish Cance			

Once you are okay with the values displayed, you are ready to finish.

Before that you do have the option to view the JCL that was generated based on your input. Click on the View JCL button if you'd like to take a look at the JCL built.

When you are ready to submit the FTP jobs, click on Finish (note your instructor might ask you not to!). This will submit jobs to ftp the selected pieces of diagnostic data over to the selected FTP Destination.

Step 8: FTP Jobs submitted

Once you click on the Finish button in the above step, z/OSMF will submit the jobs. You will get a confirmation window.

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✓ Select FTP Server ✓ Specify Security Settings		view the FTP infor data, click Finis h		nges, return to the approp	priate panel by clicking Back	. When you are ready to send
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	FT	IZUP650I		B07626) has been submitted.	The v	
		Close				
	<	Back Next >	Finish Cancel			

Click on Close. It will bring you back to wherever you invoked the Send wizard from.

Task 5: View the Job Status for the FTP jobs submitted

Step 1: Right click on the Incident you had just sent. Select the FTP Job Status from the context menu

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Us	er Initiated		** MFUSR13 - TE	EST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:38:29 PM				
Us	er Initiated		** MFUSR14 - TE	EST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:32:31 PM				
Us	er Initiated		** MFUSR15 - TE	EST DUMP FOR USE WITH INCIDENT LOG IVP **	Jan 19, 2013 1:31:55 PM				
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AB	BEND SOOC	51	ZTT ZTTABND A PDW1,CAT=300	ABEND FOR IDC7F8,JOB#=01000001	Jan 10, 2013 3:27:02 PM				
					4[
Total	13. Filter	ed: 13.	Selected: 1						

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Step 2: FTP Job Status panel

This page shows you the job status for all the FTP jobs submitted for this incident.

Note you can click on the Refresh button to update the status of the jobs.

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P Job Status				
Actions 🔻				
Data Type	Source	Status	FTP Server Host	FTP Server Pat
Filter	Filter	Filter	Filter	Filter
Error log summary	CEA.S00.CACB4872.C02C62E8.X00.VEV	Send in progress	ftp.ecurep.ibm.com	/toibm/mvs
Operations log	CEA.Y00.CACB4872.C02C62E8.X00.VEV	Send in progress	ftp.ecurep.ibm.com	/toibm/mvs
Error log	CEA.R00.CACB4872.C02C62E8.X00.VEV	/ Failed. The diagnostic data was not gathered.	ftp.ecurep.ibm.com	/toibm/mvs
SVC dump	SYS1.DUMP.D130119.T133122.S1.S0000	Failed. An error occurred with the FTP client.	ftp.ecurep.ibm.com	/toibm/mvs
		•		
otal: 4, Selected: 0				

Click on Incident Log in the breadcrumb to get back to where you came from.

Note: If a log snapshot does not have any entries, the job might fail

Lab 2: z/OSMF ISPF, including Application Linking with Incident Log

Task 1. Starting with the ISPF task

Expand the z/OS Classic Interfaces category from the Navigation tree. Click on the ISPF task

The settings panel will come up. Set logon procedure to SHARTEST Set Acct number to SHR

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 Welcome Configuration Links Performance Problem Determination Software z/OS Classic interfaces ISPF z/OSMF Settings Refresh 	Welcome X ISP	insert on z/OSMF ISPF User Settings All settings take effect when you start (or restart) ISPF. Color selections also take effect at the next z/OSMF ISPF page refresh. ✓ show settings dialog with every logon. Logon procedure: SHARTEST Region size souco (kilobytes): souco Account number: SHR User group: Profile sharing: On Screen size columns: 160 Screen size columns: 160 Screen size columns: 160 Core page: United States (1047, 697) Laguage: Dot ISPF to z/OSMF ISPF. ZOSMF ISPF to z/OSMF ISPF. ZOSMF for stree start sample blue text s Sample pink text sample pink text s Sample pink text sample pink text s	Settin	gs Help

Make sure all settings are correct - notice color selection,

See the check box on top that will not open settings panel every time. If changes need to be made at a later time, can click on 'settings' on top right

Click OK after entering the new values.

z/OSMF Lab

The ISPF main panel is now displayed. Note that if this has been customized for your installation, your customized panel comes up. Play around with some of the features.

Note specifically the point and shoot feature, support for PF keys, paging arrows, horizontal and vertical split icons, help, existing toolbars and TSO messages

IBM z/OS Management Facility		
IBM 2/OS Management Facility Welcome Configuration Links Performance Problem Determination Software USOS Classic Interfaces ISPF USOSMF Settings Refresh	Welcome x Resource Mon x Indent Log x ISPF x 1-PRIMARY x OPTION ->	Log out IEM.

Task 2: Split screen and multiple panesClick on F2=Split. A new tab is opened inside the ISPF task tab

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Now click on the horizontal split icon on the top right:



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Now click on the vertical split icon on top right

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Make the bottom pane the current panel by placing cursor in it and click on vertical split icon; notice another panel

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Notice the horizontal or vertical split icons are now greyed out - max 4 panes allowed

Drag and drop the tab from bottom right pane to top pane. Close the empty pane

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Now the split icons are active again

Play around to get maximum 8 tabs and 4 panes

Sizing panes Move the horizontal bar between panes up or down - Note only one horizontal bar Move the vertical bars between panes left or right - note individual vertical bars

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Close the windows and tabs that you are no longer interested in

Task 3: View TSO Messages

-To View TSO messages, click on top right where it says TSO messages

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You can see the running history of TSO messages. It keeps the last 1000 lines from your session. Click on OK to close.

Task 4: z/OSMF Application Linking : Launching into ISPF from the Incident Log

Browse a diagnostic data element automatically captured for an incident

You can browse the logs captured for an Incident. z/OSMF ISPF Browse is used for this, so this feature only will work if your installation has setup and configured z/OSMF ISPF.

Step 1: Select an incident and View its Diagnostic Data Elements. Refer to Incident Log Task 3, but stay on the View Diagnostic Details tab. Select the Incident which has your userid in its description. In the Diagnostic Details panel, you will see the diagnostic data elements captured for that Incident.

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M z/OS Management Facility Welcome mfusr01 Log out come Incident Log cident Log > View Diagnostic Details ew Diagnostic Details General Diagnostic Data Data element - hyperlink System SVC dump SYS1 DUMPD130117.T025415 St SP SVC dump SYS1 DUMPD130117.T025415 St SP SVC dump SYS1 DUMPD130117.T025415 St SP SVC dump CEA R00.CAC8364FL7C5C8EA X00 VEW SHARPLEX S1 Centrolog CEA N00.CAC8364FL7C5C8EA X00 VEW SHARPLEX S1 Operations log CEA Y00.CAC8364FL7C5C8EA X00 VEW SHARPLEX S1 Operations log CEA Y00.CAC8364FL7C5C8EA X00 VEW SHARPLEX S1 Over can attach up to ten additional files to send with this incident. When you close the panel, the Attachments table is cleared. Wew Data Type Data Type Source There is no data to display. Total: 0, Selected: 0 Send Send View Status	https://mvs1.centers.ihost.com	n:32208/zosmf/			🚖 ⊽ 😋 🚼 ▼ Google	۹ 🗈
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Note the Source name of the data element. It is a hyperlink. Let's browse the Operation Log snapshot. Click on the Source name to browse that data element.

You will see that it opens ISPF browse in context for you. Note: If you do not already have a z/OSMF ISPF session running, you will get prompted for the TSO Sign-on parameters.

If you do have a z/OSMF ISPF session running, z/OSMF ISPF preserves your existing ISPF window and open a new window for you, after prompting you.

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In both cases, you will ultimately find yourself using ISPF Browse on the diagnostic data element that you had clicked on from the Incident Log!!

LAB 3: z/OSMF Workload Management Lab

The lab consists of 4 main tasks that you should execute in the listed sequence:

- 1. Launching the Workload Management Task
- 2. View list of all Service Definitions
- 3. Creating a copy of an existing Service Definition
- 4. Fixing of a best practice Warning Indication for a Service Definition

This Lab focuses on the policy editing, review, and maintenance functions provided by the z/OSMF Workload Management task. Functions to install service definitions and activate service policies are also available, but not part of the Lab.

All Lab teams use the same z/OSMF instance. The z/OSMF Workload Management Task provides a service definition repository that is shared by all z/OSMF users. To prevent conflicts with other Lab teams each Lab team has to use a different service definition for task 4 and 8. Therefore, you have to specify in task 3 a unique service definition name. The service definition name should be 'WLMPRxx'. Substitute xx with your Lab userid suffix

If the descriptions and screen captures in this manual refer to service definition 'WLMPROD' your service definition 'WLMPRxx' is meant.

Task 1: Launching the Workload Management Task

Open the workload management task by selecting 'Performance' \rightarrow 'Workload Management' in the navigation tree.

The first panel that opens is the 'Workload Management' task tab displaying the 'Overview' panel listing the major tasks:

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og out TRW
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Task 2: View list of all Service Definitions

In the 'Overview' tab, press the 'Service Definitions' link. The following tab will be opened:

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Overview Service Definit	ions X					
Service Definitions	1					Search
Name	Description	Activity	Sysplex	Messages	Last Modified (GMT)	
Filter	Filter	Filter	Filter	Filter	Filter	
SHARPLEX	WLM Policy for Share Systems			🗥 Warning	Nov 3, 2000 8:38:35 PM	1
WLMPROD	WLMPROD to use for z/OSMF lab			Warning	Jul 16, 2012 3:24:48 PM	1
WLMTEST	WLMTEST to use for z/OSMF lab			Information	Jul 16, 2012 3:25:14 PM	1
↓ Total: 3, Selected: 0						

The table lists all service definitions in the policy repository integrated in z/OSMF. The service definitions are shared between all z/OSMF users. Hence, you may notice changes of the panel which are caused by other users. Your table may show different service definitions than in the screen shot. Scroll right to view additional properties

Task 3: Creating a copy of an existing Service Definition

In this task we will create your own copy of an existing service definition. That copy will then be used in the following tasks.

To create a copy of service definition 'WLMPROD' check the checkbox for service definition 'WLMPROD'. Then select in the 'Actions' menu the action 'Copy'.

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WLMT	View Service Definition	INTEST to use for 2/OSIVIE lab			Information	Jul 16, 2012 3:25:14 PM
	View Messages					
	View History					
	Print Preview					
	Install and Activate					
		_				
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•						
	Selected: 1					

A new tab opens with the following content:

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z/OS Management Facility +			
M z/OS Management Facility	Welcome mfusr01		Log out
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Workload Management			Help
Overview Service Definitions X Copy WLMPROD X			
Service Definitio		Dotes	Switch To 🔻
Service definition ame:			Â
WLMPR01			
Description: WLMPROD to use for z/OSMF lab			
Functionality level: 019			
Service Coefficients			
* Central processing unit (CPU): 1.0			
* Input and output channel (IOC): 0.5			
Main storage occupancy (MSO): 0.0000			
* Service request block (SRB): 1.0			<u>-</u>
OK Apply Reset Cancel			

Click with the left mouse button in the field 'Service definition name:' and change the name to WLMPRxx. Substitute xx with your Lab team number that you find on the first page of this manual.

Press OK to save the copy of the service definition with the new name WLMPRxx in the Service Definitions table.

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	WLMPROD		WLMPROD to use for z/OSMF lab			A Warning	Jul 16, 2012 3:24:48 F	
	WLMTEST		WLMTEST to use for z/OSMF lab			Information	Jul 16, 2012 3:25:14 F	M
То	۱ tal: 4, Selected: 1							

Note: If the descriptions and screen captures in the following sections of this manual refer to service definition 'WLMPROD' your copy of that service definition with the name 'WLMPRxx' is meant.

Task 4: Fixing of a best practice Warning Indication for a Service Definition

Warning messages exist for service definition 'WLMPRxx'. We will now check the warning message and fix the issue. In order to accomplish that, we open the service definition in a tab, navigate to the service definition item for which a warning message exists, and edit the service definition to fix the issue.

To open the service definition, click on the link in the 'Messages' column for the service definition with name 'WLMPRxx':

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SHARPLEX	WLM Policy for Share Systems			🗥 Warning	Nov 3, 2000 8:38:35 F	PM
WLMPR01	WLMPROD to use for z/OSMF lab			A Warning	Jan 22, 2013 9:34:41	PM
WLMPROD	WLMPROD to use for z/OSMF lab			🗥 Warning	Jul 16, 2012 3:24:48	PM
WLMTEST	WLMTEST to use for z/OSMF lab			Information	Jul 16, 2012 3:25:14 I	PM
.						

A new tab opens	with the title	'View WLMPRxx':
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Workload Man	New tab WLMPR01	Welcome mfusr01	Notes Service E Filter	Log out			
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Workload Man	greater than 90% have been specified.						
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and when to re	Manager (WLM) can use performance assign alias addresses to parallel acce rity management and Enable dynamic	ess volumes. To enable these capabilit		Service Options			
STOREC3, ST	OATCH0" combines transactions runnin OREC4, ELPMAX, ELPMIN, ELPAR" . mance data to be reported.						
	BATCH2" combines transactions runnin BPID" . Heterogeneous report classes			ss "BATCH2"			

A service definition consists of different sections. Each of the sections is displayed in one panel. You can watch one panel at a time in the opened tab and you can switch between the panels via the 'Switch to' menu. The panel that is currently displayed shows all best practice messages for service definition 'WLMPRxx': one warning message and three informational messages.

In order to navigate to the service class period referenced by the warning message click on the link 'Velocity of Service Class "AK1" in the Messages table. The following panel is displayed:

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Messages				Search
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IZUW952W Velocity goals greater than 90% have be		been specified. Velocity goals in that range might force a to address delays which cannot be removed.	z/OS <u>Velocity of Ser</u>	rvice Class "AK1"
12UW9511	and when to reassign alias addresses	use performance goals to determine when to adjust I/O p s to parallel access volumes. To enable these capabilities Enable dynamic alias management to Yes.		ns
		nsactions running in multiple service classes: "BTCHDEF PMIN, ELPAR" . Heterogeneous report classes can caus orted.		"BATCH0"
12UW960I		nsactions running in multiple service classes: "DB2BPI4, s report classes can cause incorrect performance data to		"BATCH2"
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The panel shows a tree table with all service classes in the service definition. The rows with the +/- icon represent service class items. The nested rows represent the periods of the service classes. The service class period with the warning message is already expanded. The warning message is displayed if you hover with the mouse cursor over the warning icon in the table cell.

To fix the issue correlated with the warning message we will change the Velocity Goal of the service class period to a value lower than 90. First, we have to switch from view mode to modify mode via the action 'Editable Version of Service Definition' in the 'Switch To' menu:

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The service definition is now editable. Editable table cells have an additional border around the value in the table cell:

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In order to change the Velocity Goal of the service class period with the warning indication double click on the table cell with the warning icon, then type in value 85 and press <Enter>. The warning icon is no longer shown:

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Press the 'OK' button to save the modified service definition and to close the 'Modify WLMPROD' tab:

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WLMTEST	WLMTEST to use for z/OSMF lab			Information	Jul 16, 2012 3:25:14 PM	mfusr15		
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Notice that the 'Service Definitions' table shows no longer a warning indication for service definition 'WLMPRxx' since just informational messages exist for the service definition.

Lab 4: System Status

1. View the Performance status of the sysplex(es) being monitored

- a. From the Performance category select -> System status
- b. View fields
 - The Performance Index Status column is a quick indicator for the sysplex health. For each sysplex, the performance index by service class period metric is evaluated. If service classes periods are found, that have the PI > 1 and the importance of 1 or 2, the indicator is red. This means, there's some important workload which is not meeting the goals. If there are periods with PI > 1, but they have importance of 3 or bigger, the indicator is yellow. Otherwise it's green (that is, all service class periods meet their goals and have PI <= 1).
 - ii. In the last two columns, some WLM information about the sysplex is displayed.

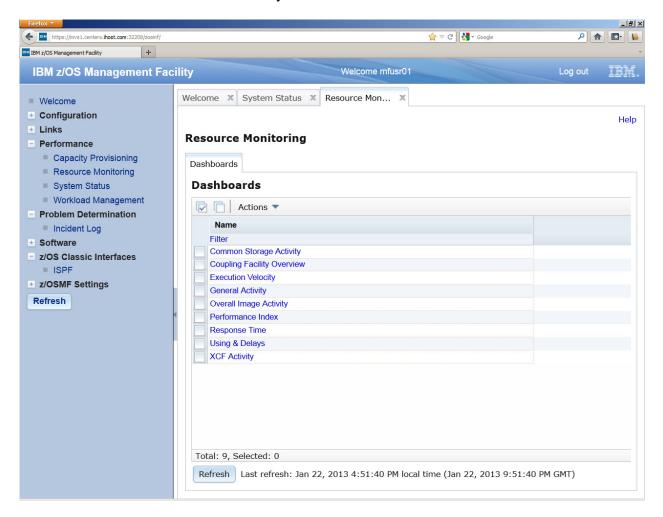
Note: From the SHARE Lab system, only one sysplex can be monitored. Typically you can add other sysplexes or Linux systems to be monitored.

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Lab 5: Resource Monitoring

Task 1: View the performance metrics

- a. From the Performance category select -> Resource Monitoring,
- b. See the default metrics that are pre-defined,
- c. Select Execution Velocity and from Actions drop down, select 'Open'
- d. Take the default sysplex 'LOCALPLEX' when prompted
- e. View the execution velocity metrics



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Task 2: Add new metrics to monitor

- a. From Resource Monitoring task, Actions -> NEWb. From New Desktop panel , from Actions pull down, select Add Metric

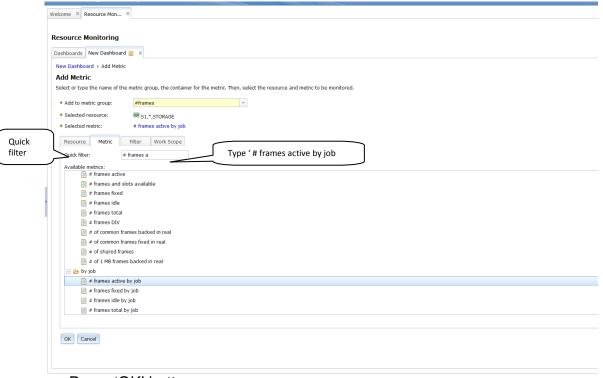
Hint: if something is not clear, click on 'Help' on top right of every panel!!

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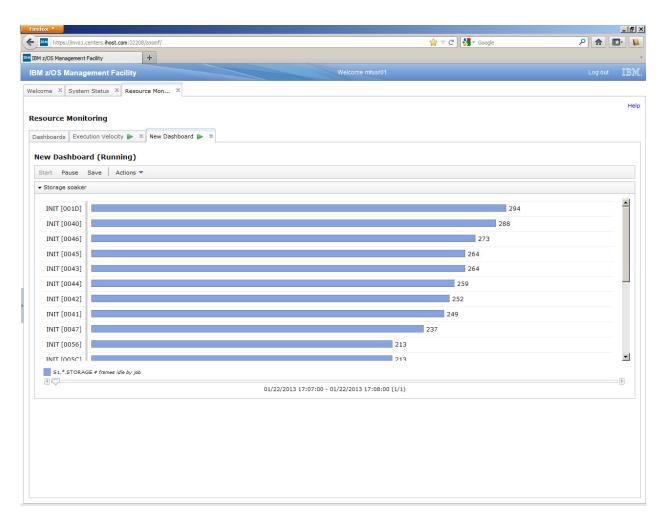
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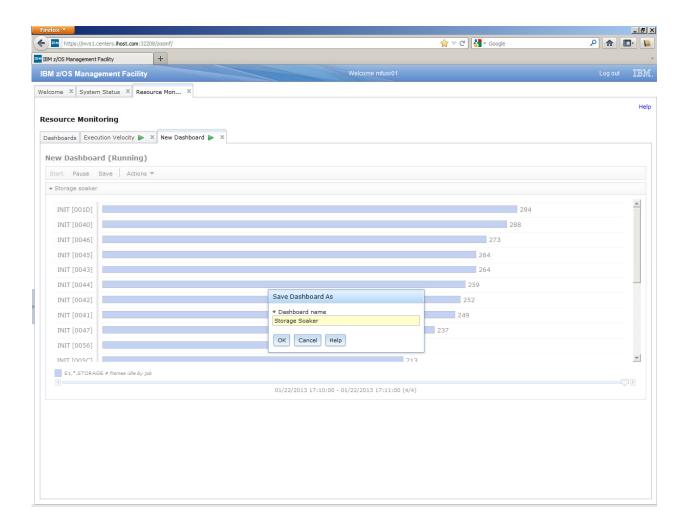
Go to Metric tab – use quick filter for '# frames by job' -> select - # frames active by job



Press 'OK' button



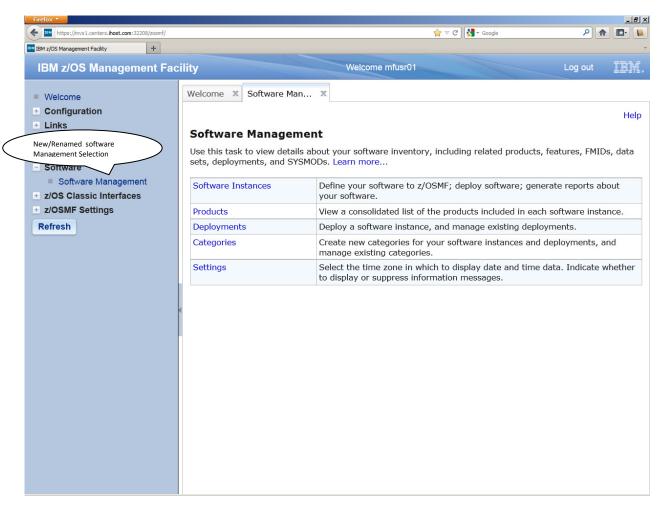
From New Dashboard click on 'Save' Type name 'Storage soaker' into field and press OK button Storage soaker is added to the Resource Monitoring task



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Lab 6: Software Management

To invoke the Software Management task, click on Software Management from the Software category on the navigation tree.



The Software Management task, previously named the Deployment task, contains the software deployment functions along with additional software management functions. The Software Management task helps you streamline the software management process by providing a centralized location that you can use to manage your z/OS software.

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Please attend Software Management Lab for detail information.

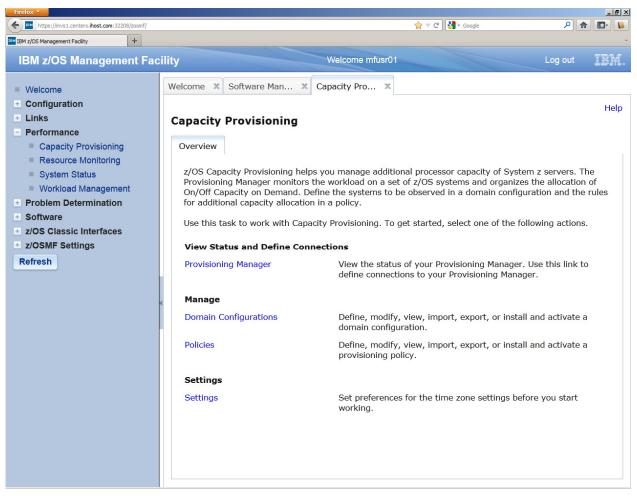
Optional Labs:

Lab 7: Capacity Provisioning

Summary:

This lab shows you how to connect to a Provisioning Manager and to display reports about the active configuration and active policy.

Click Performance – Capacity Provisioning



If not already done, create a connection to your Provisioning Manager (follow optional steps in section Task 1) and use this connection to view one of the following reports (see section Task 2):

- 1. Domain status report
- 2. Active configuration report

3. Active policy report

Task 1– View Status of Provisioning Manager

Click on Provisioning Manager

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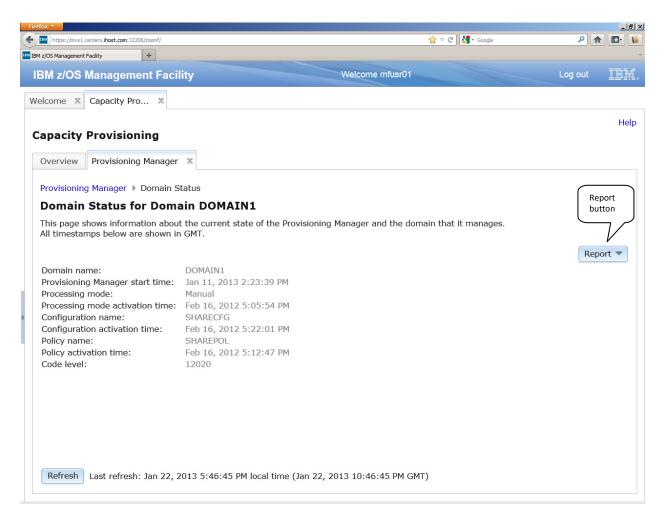
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Task 2 – View reports about your Provisioning Manager

- 1. To view the domain status report, click on the link **Same system as z/OSMF** in the *Connections* table.
- 2. Right click Same system as z/OSMF, *Select view domain status, Select domain for domain report* window opens. Select the domain you want to retrieve the reports for and click **OK**.

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3. The *Domain Status* page opens and shows a quick overview of the configuration of your domain.



- 4. A click on the **Refresh** button lets you update the data.
- 5. On the top right corner, you can see the *Report* button. It allows you to change the report for the same domain. Click on it and select the **Active Configuration** menu item to switch to the active configuration report.

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6. The *Active Configuration* page is shown and you can view details about the active configuration.

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7. To show details about one of the CPCs or systems, use the name link of a CPC or system to open it. Click on the name of the first CPC to open the *CPC Details* page.

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- 8. Click on the **Close** button to go back to the *Active Configuration* page.
- 9. Use again the *Report* button and click on the **Active Policy** menu item.

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10. The Active Policy page is opened and shows the active policy in a tree representation.

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11. To view more details for a policy element, click on its type link and the *Policy Element Details* page is opened. Click on the first **Processor Limit** in the maximum provisioning scope to open the details page for it.

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Workload manager: These are optional tasks that can be performed if there is time and interest.

- 1. Print Preview of Service Definition (optional)
- 2. View the History of a Service Definition (optional)
- 3. View the WLM Status in the Sysplex (optional)

Lab 8: Print Preview of Service Definition

The Print Preview panel displays a service definition or service policy in one panel. The service definition / service policy can be printed.

In the Service Definitions tab select the row with service definition 'WLMPRxx'. Right click to open the context menu and select 'Print Preview'.

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A tab opens with the 'Print Preview' panel for the service definition:

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z/OS Work	load Manager Service Definition Wi	LMPROD			-
Service defini	ition name: WLMPROD				
Description:	WLMPROD to use for z/OSMF lab				
Functionality	level: 019				
Service Parar	neters				
Service coeffi	cients: CPU: 1, IOC: 0.5, MSO:	: 0, SRB: 1			
	iority management: Yes				
Enable dynam	nic alias management: No				
Guest Platfor	m Management Provider (GPMP) Settings				
Enable dynam	nic GPMP management on each system in the ho	ost sysplex: No			
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Name	Details				1
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Use the scrollbar on the right side of the panel and check how the print preview is structured.

Press the 'Filter' link to open the 'Filter Formatted Service Definition' dialog:

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Service defini	ition name:	Selection		
Description: Functionality	lovels	Service parameters		
Functionality	level.	Resource groups		
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Service coeffi	icients:	Report classes		
	riority manage	Classification groups		
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		Resources		
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		Yes		
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Name	Details	OK Cancel Help		
CPMAV	Descriptio	n. osca tor capit revisioning		
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z/OSMF Lab

Check 'Selection', then check the checkboxes 'Service parameter', 'Resource groups', 'Workloads', 'Service Policies', 'Report Classes', 'Classifications'. Press 'OK'. Use the scrollbar to review the displayed elements. Notice that only the service definition items you selected in the filter dialog are displayed.

Open the 'Switch To' menu and select 'NSHIFT':

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	Prir	nt Filter Switch To 💌
	Formatted Service	e Definition WLMPROD
z/OS Workload Manager Service Definition WLMPROD	Formatted Service	
Service definition name: WLMPROD	Formatted Service	e Policy WLMSTTAV
Description: WLMPROD to use for z/OSMF lab		
Functionality level: 019		
Service Parameters		
Service coefficients: CPU: 1, IOC: 0.5, MSO: 0, SRB: 1		
Enable I/O priority management: Yes		
Enable dynamic alias management: No		
Guest Platform Management Provider (GPMP) Settings		
Enable dynamic GPMP management on each system in the host sysplex: No		
Excluded systems:		
Resource Groups		
Name Details		
CPMAV Description: Used for Cap.Provisioning Last Modified (GMT): Jun 22, 2007 3:07:44 PM		

The panel shows now the service definition with the applied service class overrides and resource group overrides of service policy 'NSHIFT':

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Service policy	/ name:	NSHIFT			-
Description:		Night shift			
Service defin	ition name:	WLMPROD			
Description:		WLMPROD to use for z/OSMF lab			
Functionality	level:	019			
Service Para	meters				
Service coeff	icients:	CPU: 1, IOC: 0.5, MSO: 0, S	RB: 1		
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Enable dynar	nic CDMD ma	nagement on each system in the host sy	colox: No		
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Press the 'Print' link in the upper right corner of the panel. A new web browser tab or window opens with the same content:

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You may print the service definition / service policy by pressing the 'Send to Printer' link. (Note: will not work for this lab. FYI only)

Close the 'Print Service Definition' web browser tab by clicking the X in the tab header.

Close the 'Print Preview' tab by clicking the X in the tab header.

Lab 9: Workload management: View the History of a Service Definition

The History panel displays the operation history for a service definition.

In the 'Service Definition' tab select service definition 'WLMPRxx'. Right click to open the context menu for 'WLMPRxx' and select 'View History':

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WLMPRO WLMTES	View Convict	e Definition	to use for z/OSMF lab			Warning	Jul 16, 2012 3:24:48 PM Jul 16, 2012 3:25:14 PM	mfusr15 mfusr15	
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The history panel displaying the operation history of the service definition is opened in a new tab:

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The service definition history shows the operations you have performed so far on the service definition 'WLMPRxx'.

Lab 10: View the WLM Status of the Sysplex

The WLM status of the Sysplex can be viewed.

If not already displayed, switch to the 'Overview' tab by clicking on the tab header. Then, click the link 'WLM Status'. The 'Status for Sysplex' tab opens:

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	51	SHAREPUL	JUI 16, 2012 2:18:22 PIVI	Active	Inactive	25	

The 'Status for Sysplex' panel shows the Active Service Policy in the Sysplex and on each system in the Sysplex as well as the service definition installed in the WLM couple data set.

Press the X in the tab header to close the 'Status for Sysplex' panel.

Lab 11 – Monitoring Desktops: Add additional metrics to dashboard

The scenario repeats steps b to e from the previous lab for adding a metric for the 2nd metric:

- a. From the list of Dashboards in the Resource Monitoring home page, open the dashboard you had created in the previous Lab. (the 'Storage soaker').
- b. From Actions pull down, select Add Metric
- c. Set metric group (as the metric group already exists, you can use the drop-down list) # frames
- d. resource in tab below select/expand first image, select storage
- e. go to Metric tab use quick filter for '# frames by job' -> select # frames **fixed** by job
- f. see the desktop Save/ or action drop down

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	ZFS [003A]	Add Metric 106000	
	BBNS001 [0098]	Delete Metric or Group	
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