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Manage your Workloads and Performance with z/OSMF

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Friday, March 4, 2011 Session 8859



z/OS Management Facility



- The IBM z/OS Management Facility provides a Web-browser based management console for z/OS.
- Helps system programmers to more easily manage and administer z/OS by simplifying day to day operations and administration.
- More than just a graphical user interface, the z/OS Management Facility provides real value
 - Automated tasks can help reduce the learning curve and improve productivity
 - Embedded active user assistance (such as wizards) guides you through tasks and helps provide simplified operations





IBM z/OSMF Management Facility



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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



IBM z/OSMF Management Facility ...

Industry standards



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eligible for

7AAP

- z/OS Management Facility is based on industry standards
- Parts of z/OS Management Facility, such as Incident Log and WLM Policy Editor (R12) use JAVA and CIM

Browser

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zIIP

(R11)

IBM z/OSMF Management Facility ...

Applications / R12 plugins

IBM z/OS Management Facility File Edit View History Bookmarks > - C - 🗙 🏠 🌔 IBM z/OS Management Fac Welcome Configuration Configuration Assistant Links Shopz Series Support for z/OS System z Redbooks WSC Flashes z/OS Basics Information Center z/OS Home Page z/OS Internet Library Performance Sysplex Status Monitoring Desktops Workload Management Problem Determination Incident Log z/OSMF Administration Links Roles Users Refresh Done

- Configuration category
 - Configuration Assistant for z/OS Communication Server Simplified configuration and setup of TCP/IP policy-based networking functions (with z/OS V1.11)
- Links Links to resources provides common launch point for non-z/OSMF resources
- Performance category (with z/OS V1.12)
 - Sysplex status single view of sysplex performance
 - Monitor desktops dynamic real time metrics for system performance, customizable for correlations
 - Workload Manager Policy Editor -- Simplified creation, editing, installation, and activation of WLM service definitions and policies
- Problem Determination category
 - Incident Log -- Simplified capture, packaging, and sending of SVC dump diagnostic data. (Available with z/OS V1.10)
- **z/OSMF Administration** Authorization services, add users, define roles, add links.





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Integrated Help Facility













The z/OSMF Workload Management Task



Functions

S H A R E

- Policy editor
 - Simplified creation and editing of WLM policies
 - The elements of a service definition are displayed in tabular form
 - Service definition elements are created or edited directly in tables
 - The creation and editing of WLM service definitions is supported by best practice checks
 - Support for review and investigation of WLM policies
 - Direct navigation between policy elements
 - Filtering, sorting, and search functions
 - Serialization of the editing of the active service definition
- Policy repository
 - WLM policies are stored in a repository integrated in the z/OSMF file system
 - Policies can be exported to the local workstation or a host data set as well as imported from a file or a host data set
 - Policies or best-practice recommendations can be printed for further study
 - Integrated operation history makes manual tracking superfluous



Functions (cont.)



- Installation and activation of WLM policies
- Monitoring of the WLM status in the sysplex
 - WLM status report is automatically updated if the WLM status on the systems changes
- Administration and operation tasks can be performed simultaneously
 - Simplified migration: Policy elements can be copied from one service definition to another
 - Simplified operation: User can start to edit a policy, interrupt the editing to activate a policy, and then continue with the editing without loosing the context
- z/OSMF Workload Management synchronizes automatically with z/OS WLM



Some Benefits



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	Without WLM Policy Editor** using WLM Administrative Application	With WLM Policy Editor** in z/OSMF
Optimization of a service definition based on best- practices	Read through WLM-related manuals and identify best-practices. Print out the service definition and investigate it with respect to proposed best- practices. If required, modify the policy elements correspondingly.	Check the best-practice hints the GUI displays for policy elements. If required, modify the policy elements correspondingly.
	Hours (or days when done initially)	Minutes (or hours when done initially)
Review of service definitions for daily changes, migration,	To get an overview of a service definition you have to print it to a data set, download the data set, and print it out or feed it into the Service Definition Formatter tool to filter and sort policy elements.	Open a service definition from the service definition repository. Navigate through it using links. Filter and sort policy elements in the tables.
consolidation	5-10 minutes until review can start	Seconds until review can start
Transfer policy elements from a test service definition to a	Print out the test service definition and update the production service definition by typing in the changes.	Open the test and production service definition simultaneously and copy over the changed policy elements via copy&paste operations.
production service definition	Up to several minutes per policy element	Seconds per policy element

** Based on IBM laboratory results, your results may vary



Workload Management Task Integration in z/OSMF

- The Workload Management task is displayed in the Performance category of the Navigation tree
- The Workload Management task is displayed on the Roles Properties panel and can be assigned to the roles z/OSMF Administrator, z/OSMF User, z/OSMF Authenticated Guest
 - By default the Workload Management task is assigned to the role z/OSMF Administrator
 - The Workload Management plugin shows up on the About page with version information







Workload Management Task Overview



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- Manage Service
 Definitions: Create,
 modify, import, export,
 print, install service
 definitions
- Manage Service Policies for Sysplex:

Activate or view the service policies in the service definition that is currently installed in the WLM couple data set

Manage Settings:

Specify history length, codepage, user preferences

• View Status for Sysplex: Displays information about the service definition installed in the WLM couple data set and the service policy active in the sysplex.



Service Definition Repository



- Integrated repository for service definitions
- Service definitions can be
 - Imported
 - Exported
 - Printed
 - Viewed or edited
 - Created or Copied
 - Installed on the sysplex
- Indications
 - If service definition is installed and active
 - If service definitions are being viewed or edited
 - If messages exist for a service definition



Editing Service Definitions



- Simplified creation, modification and review of service definitions
 - Policy elements are presented in tables
 - Tables can be filtered and sorted
 - Direct editing of policy elements within tables
 - Best-practice hints are displayed automatically while specifying policy elements
 - Several service definitions can be opened simultaneously
 - Cut, Copy, Paste of policy elements between service definitions



Service Definition History



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- A history is provided for each service definition listing the activities performed on the service definition
- A service definition history contains edit, install, activate, import, export activities
- The history displays for each activity timestamp and user
- The user can customize how long the history is kept

	Latest Headlines	IBM 🔜 IBM			
I z/OS Management	Facility	W	I to a fill a viscou and a sorting) OU	it IB)
elcome	Welcome 🛛 🛛 W	/orkload Man 🛛	Use filtering and sorting		
nks erformance	Workload N	lanagement	the data you are interes	ted in	н
Workload Management	Overview Se	rvice Definitions 🛽 History Sampdef 🕲			
OSMF Administration	History for	Sampdof			
	Data from past 3				
		3 monuns			
	Actions - Sysplex	Action	Date and Time (GMT)	User ID	
	Filter	Filter	Filter	Filter	
	WLMMPLEX	Install in WLM couple data set	Feb 14 2010 1:52:01 AM	wirag	^
	WLMMPLEX	Activate service policy COPY	Feb 14 2010 1:52:03 AM	wirag	
	WLMMPLEX	Install in WLM couple data set	Feb 14 2010 1:53:51 AM	wirag	
	WLMMPLEX	Activate service policy COPY	Feb 14 2010 1:53:53 AM	wirag	
	WLMMPLEX	Install in WLM couple data set	Feb 14 2010 1:56:27 AM	wirag	
	WLMMPLEX	Activate service policy COPY	Feb 14 2010 1:56:28 AM	wirag	
	WLMMPLEX	Install in WLM couple data set	Feb 14 2010 2:03:11 AM	wirag	
	WLMMPLEX	Activate service policy WLMPOL	Feb 14 2010 2:03:12 AM	wirag	
	WLMMPLEX	Install in WLM couple data set	Feb 15 2010 12:03:12 PM	swirag	
	WLMMPLEX	Activate service policy COPY	Feb 15 2010 12:03:13 PM	swirag	
	WLMMPLEX	Install in WLM couple data set	Feb 16 2010 1:21:29 PM	wirag	
	WLMMPLEX	Install in WLM couple data set	Feb 17 2010 11:21:44 AM	wirag	
	WLMMPLEX	Activate service policy COPY	Feb 17 2010 11:21:44 AM	wirag	
	WLMMPLEX	Install in WLM couple data set	Feb 22 2010 2:28:31 PM	wirag	
	WLMMPLEX	Install in WLM couple data set	Feb 24 2010 12:43:10 PM	wirag	
	WLMMPLEX	Activate service policy COPY	Feb 24 2010 12:43:10 PM	wirag	
	WLMMPLEX	Install in WLM couple data set	Feb 28 2010 11:05:19 PM	wirag	
	WLMMPLEX	Activate service policy COPY	Feb 28 2010 11:05:20 PM	wirag	III
	WLMMPLEX	Install in WLM couple data set	Feb 28 2010 11:44:30 PM	wirag	
	WLMMPLEX	Activate service policy WLMPOL	Feb 28 2010 11:44:30 PM	wirag	
		Modify	Mar 1 2010 3:23:31 PM	wirag	~
	Total: 62				
	Refresh Last	t refresh: Mar 1, 2010 4:23:53 PM local time	(Mar 1 2010 3:23:53 PM GMT)		

Printing Service Definitions



 Before printing, a Print Preview function enables to

- filter service definition elements
- apply service policies
- Hints, warnings can also be printed
- Besides printing, the Print Preview panel is well suited to get a general idea of a service definition



Installing Service Definitions



- A wizard enables to install and activate a service definition
 - 1. Review properties of currently installed service definition and the one that is going to be installed
 - 2. Select service policy to be activated
 - 3. Review summary of install and activate that will be done and trigger it
- If a backup data set has been specified in the Settings, a copy of the installed service definition is stored in that data set





Manage Service Policies



 The Manage Service Policies task enables to

- View or print the service policies of the installed service definition
- Activate a service policy of the installed service definition
- The Manage Service Policies panel displays the state of the service policies in the installed service definition



View Sysplex Status



- The View Sysplex
 Status task displays
 - The active service policy
 - The WLM status on the systems in the sysplex
 - The installed service definition
- The Sysplex Status panel comprises the information provided by the MVS console command D WLM, SYSTEMS
- Information may be automatically refreshed



Settings



- Specify how long to keep the service definition history
- Specify if consistency checking with the WLM couple data set should be performed
- Specify the code page for the sysplex
- Specify a backup sequential data set name for the sysplex
 - Name may contain variables &&TIME&&, &&USER&& which are replaced with the current time and logon userid
- Specify if confirmation messages should be displayed (user-specific setting)



WLM Component Environment Overview



Preview V1.13 – Fine-grained Authorization*

- Separate authorization levels for
 - Viewing of service definitions, service policies, and WLM status
 - Installation and activation of service policies
 - Modification of service definitions
- In repository authorization mode the WLM authorization of roles is controlled by three tasks on the Roles panel:
 - Workload Management
 - Workload Management Install
 - Workload Management Modify
- In SAF authorization mode the WLM authorization of roles is controlled via the SAF resource names:
 - ZOSMF.WORKLOAD_MANAGEMENT.WORKLOAD_MANAGEMENT.VIEW
 - ZOSMF.WORKLOAD_MANAGEMENT.WORKLOAD_MANAGEMENT.INSTALL
 - ZOSMF.WORKLOAD_MANAGEMENT.WORKLOAD_MANAGEMENT.MODIFY
- To enable a role to launch the Workload Management task it is not sufficient to provide authorization for 'installation' or 'modification'; in addition the role has to be authorized for 'viewing'.



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* All statements regarding IBM future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

Welcome
Workload Man...
Roles
Workload Man... Roles > Properties for z/OSME User Properties for z/OSMF User Role z/OSMF Use Description (maximum 100 characters) User can perform any tasks that are not defined as z/OSMF administration tasks Tasks: ± 🗹 Links 🖻 🕢 Performance Workload Management - invoke Workload Management and view service definitions, service policies, and WLM status Workload Management Install - install and activate service definitions Workload Management Modify - modify service definitions Users with this role: No users OK Restore Defaults Cancel

Preview V1.13 – Persisting of Settings*



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Filter Formatted Service Definition

Service parameters

Resource groups Workloads Service policies

Report classes Classification groups

Classifications Application environments

Display:

Selection

• Settings of a user are persisted between sessions

- Sorting/filtering/configuration of (tree)-table columns
- Recently used data set names during import/export of service definitions
- Selections in Print Preview Filter dialog
- Selections in Export to Local Workstation dialog

Import Service Definition from Host Data Set	Export Service Definition to Local Workst Export Entire service definition as an XML file Entire service definition as separate C Selected service definition elements a	SV files			n and modification details for the service	e definition elements?
To import a service definition from system BR87Z6MK.boo the sequential host data set in which the service definition in XML format. * Host data set name: BWIR.WLMSVD.POLICY1.XML BWIR.WLMSVD.POLICY12.XML BWIR.WLMSVD.POLICY13.XML	S_	Workload Manag		8	Notes	Help Switch To 👻
* Name Description: OK Cancel Help	Classification groups Application environments Scheduling environments Resources	Filter Fil ASAHIWL w SODA T	scription	Messages Filter	Last Modified (GMT) Dates from Feb 20 2002 3:00:00 PM Mar 4, 2002 10:44:22 AM Mar 4, 2002 11:35:18 AM Mar 4, 2002 11:35:56 AM	Search Modified By Filter ibmuser ibmuser ibmuser



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z/OSMF Resource Monitoring



IBM z/OSMF Resource Monitoring



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Infrastructure



- Browser connects to z/OSMF
- z/OSMF Resource Monitoring can connect to all systems where the RMF Distributed Data Server (DDS) is running



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Resource Monitoring – Sysplex Status Task













Add a new Entry

	sources	7 /			
	Resource	Connectivity	Performance Index Status	Related Service Definition	Active WLM Policy
	LOCALPLEX	Connected	I <= 1 for all periods	SD2047XA	WLMPOL
)	SCLMPLEX	Connected	💟 PI <= 1 for all periods	Default	STANDARD
)	SYSDPLEX	Connected	💟 PI <= 1 for all periods	SD2047XA	WLMPOL





Add a new Entry

Welcome 😂	Sysplex Status 😂
Sysplex State	us ▶ Add Entry
Add Entr	У
* Resource n	ame:
PRODPLEX	
* Host name	or IP address:
myhost1.us.i	
* Port:	
8803	•
 Operating s 	ystem:
z/OS	
OK Car	incel z/OS, zLinux or xLinux





Add a new Entry

A	ctions 💌				
	Resource	Connectivity	 Performance Index Status 	Related Service Definition	Active WLM Policy
С	LOCALPLEX	Connected	VI <= 1 for all periods	SD2047XA	WLMPOL
0	SCLMPLEX	Connected	A PI > 1 for unimportant periods	Default	STANDARD
0	SYSDPLEX	Connected	💟 PI <= 1 for all periods	SD2047XA	WLMPOL
•	PRODPLEX	Connected	🛜 PI <= 1 for all periods	SD2047XA	WLMPOL



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At a Glance



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Predefined Desktops

IBM z/OS Management Facility IBM Welcome 🕲 Monitoring D., 😒 Welcome Configuration Configuration Assistant About + Links Welcome to IBM z/OS Management Facility Performance Monitoring Desktops IBM z/OS Management Facility (z/OSMF) allows you to manage various aspects of a z/OS system through a Web browser interface. By streamlining some traditional tasks and automating others, z/OSMF can help to simplify some areas of system management and reduce the Svsplex Status level of expertise needed for managing a system. Workload Management Problem Determination To learn more about using z/OSMF, review the links in the Information Center section. Incident Log z/OSMF Administration To start managing your z/OS systems, select a task from the navigation area. Links Roles Information Center: Users What's New: Provides a summary of the major functional enhancements in this release of z/OSMF. Refresh Using z/OSMF: Provides information to help you get started using z/OSMF. Includes topics on logging in, navigating, using tables, and performing other common actions. Configuration: Provides a guided interface for configuring TCP/IP policy-based networking functions. Links: Provides a common launch point for accessing resources beyond z/OSMF Performance: Provides the control point for managing and monitoring the performance of the workloads in your installation. This includes tools for managing z/OS Workload Manager (WLM) service definitions and setting guidelines for WLM to use when allocating resources. Problem Determination: Provides a consolidated list of problems, along with the details and the diagnostic data captured and saved with each problem. It also facilitates sending the diagnostic data for further diagnosis. z/OSMF Administration: Provides the tasks for defining z/OSMF users and roles and adding links to external sites.





Predefined Desktops

IBM z/OS Management Facility IBM Welcome 🛛 Monitoring D... 🛇 Welcome Configuration Monitoring Desktops Help Configuration Assistant + Links Desktops Performance Monitoring Desktops Desktops Sysplex Status Actions -Workload Management Name Problem Determination Common Storage Activity Incident Log z/OSMF Administration Coupling Facility Overview Links Execution Velocity Roles General Activity Users Overall Image Activity Refresh Performance Index Response Time Storage Bhbe Using & Delays XCF Activity Total: 10 Refresh Last refresh: Jul 27, 2010 12:02:19 PM local time (Jul 27, 2010 10:02:19 AM GMT)





Predefined Desktops

IBM z/OS Management Facility IBM Welcome 🛛 Monitoring D... 🕄 Welcome Configuration Monitoring Desktops Help Configuration Assistant **±** Links Desktops Performance Desktops Monitoring Desktops Sysplex Status Actions -Workload Management Name Problem Determination • Common Storage Activity Incident Log Coupling Facility Overview z/OSMF Administration Links Execution Velocity Roles General Activity Users Overall Image Activity Refresh Performance Index Response Time Storage Bhbe Using & Delays XCF Activity Total: 10 Refresh Last refresh: Jul 27, 2010 12:02:19 PM local time (Jul 27, 2010 10:02:19 AM GMT)





Predefined Desktops

IBM z/OS Management Facility IBM Welcome 🛛 Monitoring D... 🕄 Welcome Configuration Monitoring Desktops Help Configuration Assistant **±** Links Desktops Performance Desktops Monitoring Desktops Sysplex Status Actions -Workload Management Open Problem Determination Open in New Tab or Window Incident Log Delete.. z/OSMF Administration Links New... Roles General Activity Users Overall Image Activity Refresh Performance Index Response Time Storage Bhbe Using & Delays XCF Activity Total: 10 Last refresh: Jul 27, 2010 12:02:19 PM local time (Jul 27, 2010 10:02:19 AM GMT) Refresh





Predefined Desktops






Predefined Desktops

IBM z/OS Management Facility IBM Welcome S Monitoring D... S Welcome Configuration Monitoring Desktops Help Configuration Assistant + Links Common Storage Activity 🍉 🖾 Desktops - Performance Common Storage Activity (Running) Monitoring Desktops Start Pause Save Actions -Sysplex Status Workload Management ▼ CSA & ECSA (Systems) SQA & ESQA (Systems) Problem Determination ~ ~ Incident Log 17 SYSD SYSD 28 11 - z/OSMF Administration Resource Attributes: ,SYSF,MVS_IMAGE Links 15 SYSF Roles 25 SYSF Name of logical partition: V Users WLM Vary CPU management enabled: YES Refresh SYSDPLEX, SYSPLEX % CSA utilization by MVS ima WLM LPAR Weight management enabled: NO ilization by MVS image SYSDPLEX.SYSPLEX % ECSA utilization by MVS im AAP honor priority: YES tilization by MVS image IIP honor priority: YES - -4 = 07/27/2010 15:56:00 - 07/27/2010 SYSF 0 - 07/27/2010 15:57:00 (11/11) MVS System Name: SMF ID: SYSF OS Type: z/OS 1.12.0 - CSA (Jobs) OS Version: SP7.1.2 ^ SYSE.*MASTER* [0001] Close Help SYSD.*MASTER* SYSD.*MASTER* [0001] SYSF.*MASTER* SYSF.*MASTER* V V SYSDPLEX, SYSPLEX % CSA utilization by job SYSDPLEX, SYSPLEX % SQA utilization by job - + 07/27/2010 15:56:00 - 07/27/2010 15:57:00 (11/11) 07/27/2010 15:56:00 - 07/27/2010 15:57:00 (11/11)



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New Desktop

IBM z/OS Management Facility	/	Welcome bhbe	Log out	IBM
IBM z/OS Management Facility Welcome Configuration Configuration Assistant Configuration Assistant Configuration Assistant Configuration Assistant Configuration Assistant Configuration Configuratio	Welcome Monitoring D Monitoring Desktops Desktops Desktops Actions Open Open in New Tab or Window Delete New General Activity Overall Image Activity Performance Index Response Time Storage Bhbe Using & Delays XCF Activity	Welcome bhbe	Log out	Help
	Total: 10 Refresh Last refresh: Jul 27, 2010 12:02:	:19 PM local time (Jul 27, 2010 10:02:19 AM GMT)		



New Desktop

IBM z/OS Management Facility	/	Welcome bhbe	Log out	IBM
IBM z/OS Management Facility Welcome Configuration Configuration Assistant Links Performance Monitoring Desktops Sysplex Status Workload Management Problem Determination Incident Log Z/OSMF Administration Links Roles Users Refresh	Welcome Monitoring D Monitoring Desktops Desktops New Desktop (Paused)	your installation, add a metric to the desktop. To do so, selec		Help





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IBM z/OS Management Facility	Welcome bhbe	Log out	IBM
Welcome Configuration Configuration Assistant Links Performance	Welcome Monitoring D Monitoring Desktops Desktops New Desktop		Help
 Monitoring Desktops Sysplex Status Workload Management Problem Determination Incident Log z/OSMF Administration Links Roles Users Refresh 	* Selected metric:		
	Wallacter ANT* DB2* CONSOLE *MASTER* ALLOCAS ANT* DB2* CONSOLE *MASTER* ANTMAIN APPC ASCH Copy >> ASCHINT AUXMON AXR AXR04 bucce Filters Lower threshold: Upper threshold: 1000 to Maximum number of resources to display: 20 Highest values		
	OK Cancel		~



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New Desktop

IBM z/OS Management Facility IBM Welcome 🛛 Monitoring D... 🕄 Welcome Configuration Monitoring Desktops Help Configuration Assistant + Links Desktops New Desktop 🔲 🖾 Performance # frames active by job * Selected metric: ~ Monitoring Desktops Work Scope Resource Metric Filter Sysplex Status Workload Management Filter scope: Problem Determination -WLM service class Incident Log * Filter for: z/OSMF Administration SYSSTC • Links Roles Users Refresh OK Cancel Y





New Desktop

IBM z/OS Management Facility IBM Welcome 🛛 Monitoring D... 🛇 Welcome Configuration Monitoring Desktops Help Configuration Assistant **±** Links Desktops New Desktop 🍉 😣 Performance New Desktop (Running) Monitoring Desktops Start Pause Save Actions -Sysplex Status Workload Management ▼ # frames active by job Problem Determination ~ Incident Log OMVS 103000 z/OSMF Administration [000F] Links RMFGAT 45076 Roles [003C] Users RMF [001F] 26963 Refresh SMSVSAM 24677 [0009] **MVSNFSCS** 11531 [0027] GPMSERVE 10545 [006B] GRS [0007] 10352 DFSZFS 10004 [001B] ~ SYSF,*,STORAGE # frames active by job 07/27/2010 17:36:00 - 07/27/2010 17:37:00 (1/1)



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IBM z/OS Management Facility IBM Welcome 🛛 Monitoring D... 🛇 Welcome Configuration Monitoring Desktops Help Configuration Assistant + Links Desktops New Desktop 🍉 🛽 Performance New Desktop (Running) Monitoring Desktops Sysplex Status Start Pause Save Actions -Workload Management Problem Determination Incident Log OMVS 103000 [000F] z/OSMF Administration Links RMFGAT 45076 Roles [003C] Users RMF [001F] 26963 Refresh Save Desktop As SMSVSAM 24677 [0009] * Desktop name Storage Soaker **MVSNFSCS** 11531 [0027] Help 0K Cancel GPMSERVE 10545 [006B] GRS [0007] 10352 DFSZFS 10004 [001B] Y SYSF,*,STORAGE # frames active by job 4 07/27/2010 17:42:00 - 07/27/2010 17:43:00 (7/7)



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z/OS and Linux







recimology - connections -



Preview V1.13 – z/OSMF Ensemble Performance Monitoring*



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- Started Task: SYS1.PROCLIB(GPM4CIM)
- Runs in USS Environment via BPXBATCH
- Multiple instances can run in parallel: one STC per platform
 - S GPM4CIM.GPM4A
 - S GPM4CIM.GPM4X
 - S GPM4CIM.GPM4Z





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Preview V1.13 – z/OSMF Ensemble Performance Monitoring*



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