Manage your Workloads and Performance with z/OSMF

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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

**No-charge product**
IBM z/OS Management Facility …

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/OS Management Facility uses industry standards, such as Java™, DOJO, and CIM
- Can exploit zIIP and zAAP engines, parts of z/OSMF use:
  - The z/OS CIM Server, Java
  - Workloads eligible for zAAP, or zIIP (with the zAAP on zIIP capability introduced with z/OS R11)
z/OSMF V1.13 SPE

- z/OSMF V1.13 got enhanced by a set of APARs in December 2012:
  - z/OSMF Framework (APAR PM74502)
    - including Browser Currency
  - z/OSMF WLM and z/OSMF RM (APARs PM74508, PM74517)
    - Application Linking and Launch in Context between Workload Management Task, System Status Task and Resource Monitoring Task
  - Capacity Provisioning Task (APAR PM74519)
    - Create, edit, and activate domain configurations and capacity provisioning policies
  - Software Management Task (APAR PM73833)
  - Incident Log (APAR PM74518)
  - ISPF Application (APAR PM74507)

The z/OSMF Workload Management Management Task
z/OSMF Workload Management Functions

• Policy editor
  • Simplified creation and editing of WLM service definitions
    • 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 service definitions
    • Direct navigation between policy elements
    • Filtering, sorting, and search functions
  • Serialization of the editing of the installed service definition

• Policy repository
  • WLM service definitions are stored in a repository integrated in the z/OSMF file system
  • Service definitions 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
z/OSMF Workload Management Functions (cont.)

- Installation of service definitions and activation of service 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 service definition, interrupt the editing to activate a service policy, and then continue with the editing without losing the context
- z/OSMF Workload Management synchronizes automatically with z/OS WLM
# z/OSMF Workload Management – Some Benefits

<table>
<thead>
<tr>
<th><strong>Optimization of a service definition based on best-practices</strong></th>
<th><strong>Without WLM Policy Editor</strong> <strong>using WLM Administrative Application</strong></th>
<th><strong>With WLM Policy Editor</strong> <strong>in z/OSMF</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Check the best-practice hints the GUI displays for policy elements. If required, modify the policy elements correspondingly.</td>
<td>Minutes (or hours when done initially)</td>
</tr>
<tr>
<td><strong>Hours (or days when done initially)</strong></td>
<td><strong>Minutes (or hours when done initially)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Review of service definitions for daily changes, migration, consolidation</strong></td>
<td>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.</td>
<td>Open a service definition from the service definition repository. Navigate through it using links. Filter and sort policy elements in the tables.</td>
</tr>
<tr>
<td><strong>5-10 minutes until review can start</strong></td>
<td><strong>Seconds until review can start</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Transfer policy elements from a test service definition to a production service definition</strong></td>
<td>Print out the test service definition and update the production service definition by typing in the changes.</td>
<td>Open the test and production service definition simultaneously and copy over the changed policy elements via copy&amp;paste operations.</td>
</tr>
<tr>
<td><strong>Up to several minutes per policy element</strong></td>
<td><strong>Seconds per policy element</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

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**SHARE in San Francisco 2013**
z/OSMF Workload Management Task Overview

- **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 WLM Status**: 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

Store all service definitions in one repository

Click to view, edit, print, install a service definition
Service Definition Editing

- 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

- 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.

Use filtering and sorting to find the data you are interested in.
Printing of Service Definitions and Service Policies

- 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
Service Definition Installation and Service Policy Activation

- 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 WLM Status

- The View WLM Status task displays
  - The active service policy
  - The WLM status on the systems in the sysplex
  - The installed service definition
- The WLM Status panel comprises the information provided by the MVS console command D WLM, SYSTEMS
- Information may be automatically refreshed
  - Check checkbox to automatically refresh data
Fine-grained Authorization (V1.13)

- 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’.
WLM Component Environment Overview

- **z/OSMF**
  - Import
  - Export

- **CIM Server**
  - Install
  - Extract
  - Upload, Backup
  - Download
  - Read
  - Write

- **WLM CIM Provider**
  - WLM Policy XML

- **WLM CDS**
  - Batch Install
  - Install
  - Extract

- **WLM Policy XML**

- **WLM Administrative Application**
  - Read
  - Write

- **MVS Console**

- **User's workstation**
  - z/OS system in Sysplex running z/OSMF

Syntec: Connecting Minds

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z/OSMF Resource Monitoring
IBM z/OSMF Resource Monitoring

Infrastructure

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

**System Status Task**

Enterprise-wide Health check

Automatic refresh
Resource Monitoring – Sysplex Definitions

Enterprise-wide Connections to RMF Distributed Data Server (DDS)

<table>
<thead>
<tr>
<th>Resource</th>
<th>Filter</th>
<th>Activity</th>
<th>Performance Index Status</th>
<th>Related Service Definition</th>
<th>Active WLM Policy</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRDPLEX</td>
<td>z/OS</td>
<td>Connected</td>
<td>✓ PI &lt;= 1 for all periods</td>
<td>WLMCPOS1</td>
<td>CPOPOL#1</td>
</tr>
<tr>
<td>LOCALPLEX</td>
<td>z/OS</td>
<td>Connected</td>
<td>✓ PI &lt;= 1 for all periods</td>
<td>WLMPROD</td>
<td>DSHIFT</td>
</tr>
<tr>
<td>SYSPLEX</td>
<td>z/OS</td>
<td>Connected</td>
<td>✓ PI &lt;= 1 for all periods</td>
<td>SYSTES2</td>
<td>STANDARD</td>
</tr>
</tbody>
</table>

LOCALPLEX is preconfigured

One DDS connection per line
Resource Monitoring – Sysplex Definitions

Add a new Entry
Resource Monitoring – Sysplex Definitions

Add a new Entry

Welcome | System Status
---|---

System Status ▶ Add Entry

Add Entry

* Resource name:
  PRODPLEX

* Host name or IP address:
  myhost1.us.ibm.com

* Target system type:
  z/OS (GPMSERVE)

* Port:
  8803

OK Cancel

- z/OS (GPMSERVE)
- AIX (GPM4CIM)
- Linux on System x (GPM4CIM)
- Linux on System z (GPM4CIM)
- Linux (rmfpms)
IBM z/OSMF Resource Monitoring ...

Resource Monitoring Task: Monitoring Dashboards
Resource Monitoring – Monitoring Dashboards

Predefined Dashboards
Resource Monitoring – Monitoring Dashboards

**Predefined Dashboards**

<table>
<thead>
<tr>
<th>Resource Monitoring</th>
<th>Dashboards</th>
<th>Common Storage Activity</th>
<th>![Dashboard Image]</th>
</tr>
</thead>
</table>

**Common Storage Activity (Running)**

<table>
<thead>
<tr>
<th>System</th>
<th>CSA &amp; ECSA</th>
<th>SQA &amp; ESQA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZMF2</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>ZMF1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ZMF4</td>
<td>6</td>
<td>14</td>
</tr>
</tbody>
</table>

**Resource Attributes:**

- Name of logical partition: ZMF2
- WLM Vary CPU management enabled: YES
- WLM LPAR Weight management enabled: NO
- AAP honor priority: YES
- IIP honor priority: YES
- Capacity Group Name: N/A

**CSA (Jobs)**

<table>
<thead>
<tr>
<th>Job</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZMF2.“MASTER” [0001]</td>
<td>2</td>
</tr>
<tr>
<td>ZMF3.“MASTER” [0001]</td>
<td>2</td>
</tr>
</tbody>
</table>

**SQA (Jobs)**

<table>
<thead>
<tr>
<th>Job</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZMF4.“MASTER” [0001]</td>
<td>4</td>
</tr>
<tr>
<td>ZMF2.“MASTER” [0001]</td>
<td>4</td>
</tr>
</tbody>
</table>
Resource Monitoring – Monitoring Dashboards

New Dashboard

Add Metric

Select or type the name of the metric group, the container for the metric. Then, select the resource and metric to be monitored.

- Add to metric group: # frames active by job
- Selected resource: ZMF2.*, STORAGE
- Selected metric: Make selection on Metric tab

Available resources:

- LOCALPLEX, SYSPLEX
  - ZMF1, MVS_IMAGE
  - ZMF2, MVS_IMAGE
    - ZMF2.*, I/O_SUBSYSTEM
    - ZMF2.*, PROCESSOR
- ZMF2.*, STORAGE
  - ZMF2.*, ENQUEUE
  - ZMF2.*, OPERATOR
  - ZMF2.*, SW_SUBSYSTEMS
- ZMF4, MVS_IMAGE
- ZMF3, MVS_IMAGE
- ZMF5, MVS_IMAGE
- CF01, COUPLING_FACILITY
- 163CF, CPC
Resource Monitoring – Monitoring Dashboards

New Dashboard

Add Metric

Select or type the name of the metric group, the container for the metric. Then, select the resource and metric to be monitored.

- Add to metric group: 
- Selected resource: ZMF2,*,STORAGE
- Selected metric: # frames active by job

Available metrics:

- # frames active by job
- # frames fixed by job
Resource Monitoring – Monitoring Dashboards

New Dashboard

Add Metric

Select or type the name of the metric group, the container for the metric. Then, select the resource and metric to be monitored.

* Add to metric group: # frames active by job
* Selected resource: ZMFZ, STORAGE
* Selected metric: # frames active by job

Filter Pattern

Available resource names:
- MASTER
- ALLOCAS
- ANTAS000
- ANTMN
- APFC
- ASCH
- ASCHINT
- AUXMON
- AXR
- AXPO3
- BRFOMNR

Sorting

Sort by:
Value descending

Filters

Lower threshold: 1000
Upper threshold: 

Maximum number of resources to display: 20

Highest values
New Dashboard

Add Metric
Select or type the name of the metric group, the container for the metric. Then, select the resource and metric to be monitored.

- Add to metric group: # frames active by job
- Selected resource: ZMF2,* STORAGE
- Selected metric: # frames active by job

Filter scope:
- WLM service class

Filter for:
- SYSSTC
Resource Monitoring – Monitoring Dashboards

New Dashboard

New Dashboard (Running)

<table>
<thead>
<tr>
<th># frames active by job</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMFGAT [005E]</td>
<td>17956</td>
</tr>
<tr>
<td>DFSZFS [001A]</td>
<td>10335</td>
</tr>
<tr>
<td>RMF [006E]</td>
<td>6729</td>
</tr>
<tr>
<td>VLF [0026]</td>
<td>4094</td>
</tr>
<tr>
<td>LLA [0025]</td>
<td>2790</td>
</tr>
<tr>
<td>JES2 [002A]</td>
<td>2077</td>
</tr>
<tr>
<td>CFZCIM [006D]</td>
<td>1729</td>
</tr>
<tr>
<td>NET [005D]</td>
<td>1028</td>
</tr>
</tbody>
</table>

Save Dashboard As

* Dashboard name
Storage Soaker

OK | Cancel | Help

02/07/2013 08:24:00 - 02/07/2013 08:25:00 (1/1)
# Resource Monitoring – Monitoring Dashboards

## New Dashboard

<table>
<thead>
<tr>
<th>Name</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Storage Activity</td>
<td></td>
</tr>
<tr>
<td>Coupling Facility Overview</td>
<td></td>
</tr>
<tr>
<td>Execution Velocity</td>
<td></td>
</tr>
<tr>
<td>General Activity</td>
<td></td>
</tr>
<tr>
<td>Overall Image Activity</td>
<td></td>
</tr>
<tr>
<td>Performance Index</td>
<td></td>
</tr>
<tr>
<td>Response Time</td>
<td></td>
</tr>
<tr>
<td>Storage Scaler</td>
<td></td>
</tr>
<tr>
<td>Using &amp; Delays</td>
<td></td>
</tr>
<tr>
<td>XCF Activity</td>
<td></td>
</tr>
</tbody>
</table>
RMF XP – Component Overview

- RMF Generic CIM Client
- RMF Distributed Data Server
- GPM4CIM
- z/OS USS
- RMF Monitor III
- z/OS
- RMF Sysplex Data Server
- GPMSERVE
- z/OSMF Resource Monitoring
- RMF Monitor III
- Linux
- AIX
- RMF Generic CIM Client
- RMF Distributed Data Server
- GPM4CIM
- z/OS USS
- RMF XP
RMF XP – Invocation

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

```plaintext
//GPM4CIM  PROC OS=X
//STEP1   EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
        //PARM='PGM /usr/lpp/gpm/bin/gpm4cim cfg=/etc/gpm/gpm4&OS..cfg'
//STDENV  DD   PATH='/etc/gpm/gpm4cim.env'
//STDOUT  DD   PATH='/var/gpm/logs/gpm4cim&OS..out',
        //PATHOPTS=(OWRONLY,OCREAT,O_TRUNC),
        //PATHMODE=(SIRUSR,SIWUSR,SIRGRP)
//STDERR  DD   PATH='/var/gpm/logs/gpm4cim&OS..trc',
        //PATHOPTS=(OWRONLY,OCREAT,O_TRUNC),
        //PATHMODE=(SIRUSR,SIWUSR,SIRGRP)
//SYSPRINT DD   SYSOUT=*           
//SYSOUT   DD   SYSOUT=*           
//         PEND
```
RMF XP – z/OSMF Integration

z/OS & AIX (Running)

TCB+SRB by job

- ZMF3.RMFGAT [005C] 1
- ZMF4.RMFGAT [002E] 1
- ZMF5.RMFGAT [0068] 0.9
- ZMF2.RMFGAT [005E] 0.9
- ZMF1.RMFGAT [005F] 0.9
- ZMF3.WLM [000A] 0.2
- ZMF1.BBOS001 [006E] 0.2
- ZMF1.BBOS001S [0073] 0.2
- ZMF5.BBOS001S [006B] 0.2
- ZMF5.WLM [000A] 0.2
- ZMF1.WLM [000A] 0.2

CPU by process

- p5rmf2.topasrec[3932324] 5.099469e+11
- p6rmf2.cimserver[5045432] 2.045384e+11
- p6rmf1.cimserver[6584754] 1.475561e+11
- pbxrmf1.12949288 8.9292e+10
- p6rmf2.getty[2097350] 1.576237e+10
- p6rmf1.getty[4259988] 1.395935e+10
- p6rmf2.java[4784296] 9.517429e+09
- p6rmf1.java[3801226] 7.905521e+09
- tmcc-123-131.7012596 6.869992e+09
- p6rmf2.syncdf[1245310] 4.058761e+09

02/07/2013 08:31:00 - 02/07/2013 08:32:00 (2/2)

02/07/2013 08:30:00 - 02/07/2013 08:32:00 (1/1)
Linking Workload Management with Resource Monitoring
Application Linking with Workload Management and Resource Monitoring

- The definitions of Workload Management determine the performance behavior of the systems.
- Resource Monitoring visualizes the performance behavior.
- Link z/OSMF WLM and RM to each other:
  - When working with WLM service definitions
    → Jump to Resource Monitoring to visualize the resulting performance.
  - When noticing conspicuous performance behavior in Resource Monitoring
    → Jump to Workload Management to look at the service definition.
- Performance metrics can be viewed more easily in context with the active service definition/policy and vice versa.
Scenario: Start with Workload Management

Workload Management

Use this task to manage z/OS Workload Manager (WLM) service definitions. To get started, select one of the following actions. Learn more...

**Overview**

**Manage**

<table>
<thead>
<tr>
<th>Service Definitions</th>
<th>Define, modify, view, copy, import, export, print, or install a service definition.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Policies for Sysplex</td>
<td>Activate or view one of the service policies that is defined in the installed service definition.</td>
</tr>
<tr>
<td>Settings</td>
<td>Set preferences for messages, service definition history, couple data set, and sysplex. Verify the code page and time zone settings before you start working.</td>
</tr>
</tbody>
</table>

**View**

| WLM Status | View the status of WLM on each system in the sysplex. View details about the installed service definition and the active service policy. |
From WLM Status Link to System Status Task

Workload Management

WLM Status for Sysplex ZMF1PLEX from System ZMF2

Active Service Policy: View performance of active policy
Name: STANDARD
Description: BB default policy 1
Activated: Jan 23, 2013 3:14:59 PM GMT
Activated by: jbau from system ZMF2
Related service definition: DEFAULT
Functionality level: 4
Installed: Jan 29, 2013 3:14:59 PM GMT
Installed by: jbau from system ZMF2

Systems: View performance of systems

<table>
<thead>
<tr>
<th>Name</th>
<th>Used Service Policy</th>
<th>Activated (GMT)</th>
<th>WLM Status</th>
<th>GPMP Status</th>
<th>WLM Version Level</th>
<th>CD Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZMF1</td>
<td>STANDARD</td>
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Total: 5

Installed Service Definition
Name: DEFAULT
Description: BB default WLM policy - test
Installed: Jan 29, 2013 3:14:59 PM GMT
Installed by: jbau from system ZMF2

# System Status

Use this page to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this page to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Resource Monitoring task.

## Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>System Type</th>
<th>Connectivity</th>
<th>Performance Index Status</th>
<th>Related Service Definition</th>
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<tr>
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Total: 4, Selected: 1

- Refresh
- Last refresh: Jan 30, 2013 11:18:00 AM local time (Jan 30, 2013 10:18:00 AM GMT)
**Links from System Status**

Use this page to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this page to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Resource Monitoring task.

**Resources**

<table>
<thead>
<tr>
<th>Resource</th>
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</table>

**Actions**

- Modify Entry
- Remove Entry
- View
  - Performance Index Details
  - Active WLM Service Definition
  - Active WLM Policy
  - WLM Status

Total: 4, Selected: 1

Automatic refresh
Links from System Status

System Status
Use this page to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this page to define the target systems for the sysplexes and ATX or Linux system complexes that you want to monitor in the Resource Monitoring task.

Resources

- LOCALPLEX
- SCLPLEX
- SYSPLEX
- IRDPLEX

Performance Index Details
- Active WLM Service Definition
- Active WLM Policy
- WLM Status

Resource Monitoring
- Dashboards
- Performance Index - LOCALPLEX

Performance Index - LOCALPLEX (Running)

- PRDTSO.1
- STCCMD.1
- PRDTSO.1

Total: 4, Selected: 1

Automatic refresh
Links from System Status

System Status

Use this page to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this page to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Resource Monitoring task.

Resources

<table>
<thead>
<tr>
<th>Resource</th>
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<th>Connectivity</th>
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</table>

Resource Monitoring

Workload Management

Service Definition Details

- Service definition name: DEFAULT
- Description: DB default WLM policy - test
- Functionality level: 004

This service definition is installed and policy STANDARD is active.
Links from System Status

System Status
Use this page to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this page to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Resource Monitoring task.

Resources

- LOCALPLEX
- SCLMPLX
- SYSPLEX
- IRDPLEX

Actions
- Modify Entry
- Remove Entry
- View Performance Index Details

Resource Monitoring

Workload Management

Overview
- WLM Status
- View DEFAULT

Service Policies > Properties: This service definition is installed and policy STANDARD is active

Properties for Active Service Policy
- Service policy name: STANDARD
- Description: BB default policy 1

Service Class Overrides
- Resource Group Overrides

Service Class | Period | Importance | Duration | Goal Type
--- | --- | --- | --- | ---
Filter | Filter | Filter | Filter | Filter
## Links from System Status

Use this page to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this page to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Resource Monitoring task.

### Resources

<table>
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<th>Resource</th>
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### Resource Monitoring

**Active WLM Service Definition**
- Active WLM Policy
- WLM Status

**Workload Management**

**Overview**

**WLM Status**

**WLM Status for Sysplex ZMF1PLEX from System ZMF2**

- **Active Service Policy**
  - Name: STANDARD
  - Description: BB default policy 1
  - Activated: Jan 29, 2013 3:14:59 PM GMT
  - Activated by: jbou from system ZMF2
  - Related service definition: DEFAULT
  - Functionality level: 4
  - Installed: Jan 29, 2013 3:14:59 PM GMT
  - Installed by: jbou from system ZMF2

- **Response Goal**
- **Resource Usage**
- **Service Classes**
- **System Resource**

**Workload Management**

- **Overview**
- **WLM Status**

---

**Welcome**

**Workload Management**

**System Status**

**Help**

---

**in San Francisco 2013**
### Link from WLM Status to Service Class Metrics

#### Workload Management

**Overview**

**WLM Status**

**WLM Status for Sysplex ZMF1PLEX from System ZMF2**

- **Active Service Policy**: [View performance of active policy]
- **Name**: STANDARD
- **Description**: BB default policy 1
- **Activated**: Jan 29, 2013 3:14:59 PM GMT
- **Activated by**: jbsau from system ZMF2
- **Related service definition**: DEFAULT
- **Functionality level**: 4
- **Installed**: Jan 29, 2013 3:14:59 PM GMT
- **Installed by**: jbsau from system ZMF2

#### Systems (View performance of systems)

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- **Total**: 5

#### Installed Service Definition

- **Name**: DEFAULT
- **Description**: BB default WLM policy - test
- **Installed**: Jan 29, 2013 3:14:59 PM GMT
- **Installed by**: jbsau from system ZMF2

Dashboard with WLM Service Class Metrics

Resource Monitoring

WLM Service Class - LOCALPLEX (Running)

Performance Index
- STCCMD: 0.56
- HOTTSO: 0.5

Execution Velocity
- STCCMD: 71
- IRLM: 40
- OMVS: 20
- OMVS: 30

Response Time
- HOTTSO: 0.015
- TSOODD: 0
- TSOODD: 0

Percentile Response Time
- HOTTSO: 100
- TSOODD: 95
- TSOMED: 90
- TSOREG: N/A

Date Range: 01/30/2013 11:24:00 - 01/30/2013 11:25:00 (3/3)
Link to WLM Service Class Definition
Service Class in Workload Management

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<th>Velocity Goal Filter</th>
<th>CPU Critical Filter</th>
<th>Resource Group Filter</th>
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Switch to Edit Mode

Workload Management

This service definition is installed and policy STANDARD is active.

Service Classes

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<th>Name</th>
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<th>Import Filter</th>
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Total: 62, Selected: 1

Notes

Switch To

Service Definition Details
Service Policies
Workloads
Service Classes
Resource Groups
Report Classes
Classification Groups
Classifications
Application Environments
Resources
Scheduling Environments
Messages

Editable Version of Service Definition
Switch to Edit Mode

Message IZUW989W is introduced with APAR PM74925, available now.
Switch to Related Workload

Workload Management

Service Classes

- Expanding and collapsing options
- View Cross References
  - Resource Group REGTSO
  - Workload TSO
- Other options: New Period, Cut to Clipboard, Copy to Clipboard, Paste Periods, Move Periods, Delete, etc.

Table view: Tree

- Type, Response Time Goal (in hundreds of ticks)
- Percent Goal Filter
- Velocity Goal Filter
- CPU Critical Filter
- Resource Group Filter
- Workload Filter

Search

- Total: 62, Select
- Reapply Filter
- OK, Apply

Notes

Switch To
## Workloads

### Workload Management

This service definition is installed and policy STANDARD is active

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Messages</th>
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<td>Unix System Services</td>
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Total: 6, Selected: 1

Reapply Filter and Sort

OK  Apply  Reset  Cancel
Link to Workload Metrics
Dashboard with WLM Workload Metrics


Resource Monitoring

Dashboards: WLM Service Class - LOCALPLEX: X WLM Workload - LOCALPLEX: X

WLM Workload - LOCALPLEX (Running)

- Execution Velocity
  - STC: 100
  - SYSTEM: 90
  - BATCH: 0
  - OMVS: 0
  - TSO: 0

- Response Time
  - SYSTEM: 0.019
    - OMVS: 0
    - BATCH: 0
    - TSO: 0
    - STC: 0

LOCALPLEX/IXPLEX: Execution velocity by WLM workload
01/30/2013 13:47:00 - 01/30/2013 13:48:00 (1/1)

LOCALPLEX/IXPLEX: response time by WLM workload
01/30/2013 13:47:00 - 01/30/2013 13:48:00 (1/1)
The user can customize dashboards opened by Application Linking and save them to the Dashboards list.

- In the future, the Dashboard can be opened directly in Resource Monitoring, using the Dashboards list.
- Similar application linking events will use the saved dashboard.
Conditions for Linking between WLM and RM

- In the Workload Management task, the “View Performance …” actions and links are only available if the service definition in the View/Modify tab is currently activated in the sysplex.
- In the System Status task, the WLM related “View” actions (and corresponding links) are only available if the selected resource is the z/OS sysplex where z/OSMF is running in (local sysplex).
- In a monitoring dashboard, the context menu icon is only visible if the performance data is retrieved from the local sysplex and the chart is related to WLM definitions, i.e.,
  - The resources in the chart are WLM service classes, service class periods, report classes, or workloads.
  or
  - The metric is filtered by a workscope of a WLM service class, service class period, report class, or workload.
    (Example: “% using by MVS image [BATCH,S]”, where “[BATCH,S]” means: filtered by workscope of service class “BATCH”)

2013 60
The z/OSMF Capacity Provisioning Task
**IBM z/OS Management Facility Capacity Provisioning Task**

- With z/OSMF R13 APAR PM74519 the Capacity Provisioning Task can be used as a replacement of the Capacity Provisioning Control Center.
- View the domain status, active configuration and active policy
- Full editing capability for Policies and Domain Configurations
- Import/Export functionality
- Install and Activate functionality
- Copy/Paste support
  - Whole policies or domain configurations
  - Single elements
- No installation on local workstation required
- Multi User support
Provision Manager Reports in z/OSMF
Domain Configuration Editing in z/OSMF
Policy Editing in z/OSMF
Policy Editing Guided by Messages

Policy ATSHARE

A provisioning policy contains a set of provisioning rules that define the time periods in which additional capacity is provisioned. The maximum processor scope restricts the scope of the systems on which Capacity Provisioning is applied. The policy name is ATSHARE.

Messages

- Processor limit "CPC88"

ATSHARE → Rule1 → CPC88

Processor Limit CPC88

Define a processor limit for a CPC. A processor for the CPC through all the containers is activated.

- CPC:
  - CPC88
- Max. MSU:
  - 700
- Max. zAAP processors:
  - 1
- Max. zIIP processors:
  - 1

Complete your session evaluation online at SHARE.org/SanFranciscoEval
Navigation between Edit Elements

IBM z/OS Management Facility

Capacity Provisioning

ATSHARE → RULE221
Rule RULE221

Define a provisioning rule that is activated by the conditions:

- Rule name: RULE221
- Default status: Enabled

Processor Scope: Conditions

Actions:
- CPC
- CPC88
- PSE

Switch to...

Click on a policy element in the policy outline below to switch it.

Policy outline:

- Policy ATSHARE
  - Rule RULE22
    - Condition COND33
    - Condition COND77
      - Workload condition WCOND99
  - Rule RULE221
    - Condition COND331
    - Condition COND771
      - Workload condition WCOND991

Close
Import and Installation

Import Policy from Domain

Select a connection, then a domain and then the policy you want to import.

The field "Connection" shows all connections that are defined in the Provisioning Manager tab.

* Connection: boeird6:5988 (HTTP)
* Domain: FCTRS
* Policy: ROLLPI2

- Import
  - Import with new name

- Replace existing policy with same name

OK Cancel Help

Install Policy

Select a connection and then a domain you want to install the policy to.

Verify that the policy to be installed is correct.

Policy: ATSHARE
Description: Capacity Provisioning Demo Policy for San Francisco Share
Last modified: Jan 18, 2013 11:32:53 AM
Modified by: bossuda

The field "Connection" shows all connections that are defined in the Provisioning Manager tab.

* Connection: boeird6:5988 (HTTP)
* Domain: FCTRS

[Activate policy immediately after successful installation]

OK Cancel Help
WLM, RMF, CPM Sessions

• 12792: **Remote RMF Report Access – Hands-on Lab**
  Juergen Baumann
  Monday 02/04, 3:00-4:00 PM, Union Square 23-24, Fourth Floor

• 13088: **Workload Management Update for z/OS V1.13 and V1.12**
  Brad D. Snyder
  Tuesday 02/05, 4:30-5:30 PM, Yosemite C, Ballroom Level

• 13099: **Capacity Provisioning Update for z/OS V1.13 and V1.12**
  Juergen Baumann,
  Wednesday 02/06, 6:00-7:00 PM, Yosemite C, Ballroom Level

• 13089: **RMF: The Latest and Greatest**
  Brad D. Snyder
  Thursday 02/07, 8:00-9:00 AM, Yosemite C, Ballroom Level

• 13090: **z/OS Workload Manager: What Are You Thinking**
  Brad D. Snyder
  Thursday 02/07, 4:30-5:30 PM, Yosemite B, Ballroom Level
<table>
<thead>
<tr>
<th>ID</th>
<th>Day</th>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>13059</td>
<td>2/5</td>
<td>9:30 – 10:30</td>
<td>z/OSMF What is it? And why would I want it?</td>
<td>Anuja Deedwaniya</td>
<td>Franciscan B, Ballroom Level</td>
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<td>13052</td>
<td>2/5</td>
<td>12:15 – 1:15</td>
<td>Engaging Users and Reducing Complexity: z/OSMF Project Usability Discussion</td>
<td>Toshiba Burns-Johnson</td>
<td>Franciscan B, Ballroom Level</td>
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<td>13061</td>
<td>2/6</td>
<td>1:30 – 2:30</td>
<td>z/OSMF Advanced Functionality</td>
<td>Anuja Deedwaniya</td>
<td>Franciscan B, Ballroom Level</td>
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<td>13048</td>
<td>2/6</td>
<td>6:00 – 7:00</td>
<td>z/OSMF Roundtable</td>
<td>Anuja Deedwaniya</td>
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<td>13099</td>
<td>2/6</td>
<td>6:00 – 7:00</td>
<td>Capacity Provisioning Update for z/OS 1.13 and 1.12</td>
<td>Juergen Baumann</td>
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<tr>
<td>13082</td>
<td>2/7</td>
<td>8:00 – 9:00</td>
<td>New z/OSMF Software Management Capabilities</td>
<td>Greg Daynes</td>
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<td>13089</td>
<td>2/7</td>
<td>8:00 – 9:00</td>
<td>RMF: The Latest and Greatest</td>
<td>Brad Snyder</td>
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<td>13100</td>
<td>2/7</td>
<td>9:30 – 10:30</td>
<td>Manage your Workloads and Performance with z/OSMF</td>
<td>Juergen Baumann</td>
<td>Yosemite C, Ballroom Level</td>
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<td>12752</td>
<td>2/7</td>
<td>11:00 – 12:00</td>
<td>z/OSMF Hands-On Lab</td>
<td>Anuja Deedwaniya</td>
<td>Union Square 23-24, Fourth Floor</td>
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| 13040 | 2/7 | 4:30 – 5:30      | z/OSMF User Experience                                               | Doug Henry (US Bank)  
Mary Anne Matyaz (U.S. Customs)  
Anuja Deedwaniya(IBM)           | Imperial A, Ballroom Level                                               |
| 12753 | 2/8 | 8:00 – 9:00      | z/OSMF Software Deployment Hands-on Lab                             | Marna Walle  
Greg Daynes                                                              | Union Square 23-24, Fourth Floor |
| 13070 | 2/8 | 8:00 – 9:00      | z/OSMF Software Management Hands-on Lab                             | Greg Daynes                                                               | Union Square 23-24, Fourth Floor |
Thank You
Closing Slide –
Manage your Workloads and Performance with z/OSMF

Juergen Baumann
IBM Corporation

Thursday, February 7, 2013
Session 13100

baumannj@de.ibm.com