z/OSMF Hands-on Labs – Choose Your Own

z/OS SDSF using z/OSMF
Abstract

z/OS Management Facility (z/OSMF) provides a web-based graphical interface for system programmers on z/OS. Attendees of this hands-on lab can try the z/OSMF SDSF task to see how it can help them monitor and control jobs and health checks. This session will be useful to systems programmers and their managers who will be using, or are considering using, z/OSMF.

The z/OSMF SDSF task was introduced in z/OSMF V2.1 with PTF UI15294.
Session objective

Gain experience with some basic function of z/OSMF SDSF

You will perform these tasks:

1. SDSF Settings
2. Select the SDSF task
3. Set common filters
4. View jobs
5. Configure a table
6. Switch views
7. Edit and resubmit JCL
8. Modify a property of a job
9. View the User Session Log
10. System command
11. Purge a job's output
12. Export a table
13. Browse a health check
Session objectives

Hints and Tips

• You can get assistance by clicking the Help links – there is always one near the top on the right side

• The closer that you follow the instructions, the easier it will be to assist you if you go astray

• Please note: Do NOT use the Browser BACK button to go to the prior screen!!!

• What you see may not exactly match the handout, as the workload varies
Introduction to z/OSMF SDSF

You can use the SDSF task of z/OSMF to:

- See key summary information about your sysplex
- Work with objects such as jobs and checks for IBM z/OS Health Checker
- Issue system commands.

z/OSMF SDSF:

- Communicates with z/OS System Display and Search Facility (SDSF)
- Is protected by z/OS SDSF security (SAF and ISFPRMxx)
- Shows data for the sysplex, or the JESplex for views showing JES data.

© Copyright IBM Corporation 2015
Login to z/OSMF

1. Launch the Mozilla Firefox browser
   • If the browser asks to add an exception for the certificate, do so.

2. Point the browser to this URL:
   https://mvs1.centers.ihost.com/zosmf/
   • Ignore and close the warning message
   • IZUG809W Unsupported Web browser version or level found…

3. Login with SHARE user ID and password provided by the lab instructor
   • Each workstation has been assigned a unique z/OS user ID
     • SHARAnn, or SHARBnn, or SHARClnn where nn is 01-30
     • Password to be provided
Before using the SDSF task the first time, you must specify SDSF settings

- Under z/OSMF Settings
Task 1. SDSF Settings – Perform these steps

1a. Expand z/OSMF Settings and select the SDSF Settings task

1b. Supply or verify the logon settings as shown. Logon proc: share
    Account: shr
    Region: 100000

1c. Click Save. There is no confirmation message. Go on to the next page.
    If you didn’t change any values, just go on to the next page.
Task 1. SDSF Settings

1d. Click the X to close the SDSF Settings tab
Task 2. Select the SDSF Task

2a. Expand Jobs and Resources, then select **SDSF**
Task 2. Select the SDSF Task

A pop-up shows the progress of starting the SDSF task
Task 2. Select the SDSF Task

2b. Click the control on the divider to let the SDSF task use the whole browser window
SDSF Overview Page - Introduction

- Summary information in graphical form
- List of views of jobs & checks plus a command line (scroll to see all)
- You will work with some of these sections later
Explore the Overview Page

Collapse and expand sections – click or

Choose text or icon views.

Scroll to see more…
Task 3. Set Common Filters

For the lab, a set of jobs have been submitted to populate the SDSF views. The jobs were submitted with user ID SHARA00. To explore the SDSF function, you will periodically be asked to change filters between that user ID and the user ID you are using.
Task 3. Set Common Filters

3a. Click the arrow ▶️ to expand Common Filters
Task 3. Set Common Filters

3b. Type new values:
   Job name: *
   Owner: shara00

3c. Click More to see additional filters
3d. Ensure that the values for System and Destination are *

3e. Click **Apply**. You might also want to click the arrow ▼ to collapse the section again. There is no confirmation for Apply. Go on to the next page.
Task 4. View Jobs

New task

4a. Click All Jobs to see jobs in any phase
Task 4. View Jobs – Elements

Summary information of jobs grouped by return code in graphical form

Scrollable table of jobs

Collapsible list of properties of a job
Task 5. Configure a Table – Add Max-RC column

5a. Click **View** to display a menu

5b. Click **Configure Columns**
Task 5. Configure a Table – Add Max-RC column

5c. Scroll to find Max-RC

Dialog shows available columns on the left and columns in the table on the right.
Task 5. Configure a Table – Add Max-RC column

5d. Click Max-RC

5e. Click Add

Use this later if you change your mind!
Task 5. Configure a Table – Add Max-RC column

5f. Click **Up** twice, to move Max-RC before Prty

5g. Click **OK**
Task 5. Configure a Table – Sort

5h. Click **JOBNAME** to sort using that column

Max-RC is now in the table
Task 5. Configure a Table – Sort

Job names are now sorted
Task 6. Switch to another view

New task

6a. Click the Overview tab
Task 6. Switch to another view

6b. Click Input Queue
Task 6. Switch to another view

Each view has its own tab

The view includes a graphic summary, table, and properties.
Task 7. Edit and resubmit JCL

For this exercise, start by returning to the All Jobs view.

7a. Click the All Jobs tab
Task 7. Edit and resubmit JCL

7b. Scroll the table to find the job we want to use, SAMPJOB
Task 7. Edit and resubmit JCL

7c. Click the SAMPJOB job name. If there is more than one SAMPJOB, pick either one.

This job has a JCL error

Hover the mouse pointer on the job name for a tip
Task 7. Edit and resubmit JCL

Tabs for job data sets, browse and edit JCL

Table of job data sets

Properties for a selected data set
Task 7. Edit and resubmit JCL

7d. Click the **Browse All** tab to browse job data sets
Task 7. Edit and resubmit JCL

All of the job’s data sets are shown in a scrollable, searchable window.

Find field

JCL error

© Copyright IBM Corporation 2015
Task 7. Edit and resubmit JCL

7e. Click the Edit JCL tab
Task 7. Edit and resubmit JCL

7f. Change DDD to DD to correct the JCL error.

7g. Click **Submit**.
Task 7. Edit and resubmit JCL

TSO messages are displayed in a pop-up

7h. Click Close
Task 7. Edit and resubmit JCL

7i. Click the All Jobs tab (to see the job you just submitted)
Task 7. Edit and resubmit JCL

Because you submitted the job, you need to change the Owner filter to your ID. Note that your ID is on the title bar.

7i. Expand Common Filters, change Owner to your user ID, then click Apply.
Task 7. Edit and resubmit JCL

The view is refreshed with jobs that you own

Here’s SAMPJOB

Better result!
Task 8. Modify a property of a job

8a. Go back to the Overview page. For this exercise, you’re going to modify a property on a different view.
Task 8. Modify a property of a job

8b. Click Held Output Queue
Task 8. Modify a property of a job

8c. Click the checkbox for SAMPJOB to select the job
Task 8. Modify a property of a job

Properties for the job are now shown

Properties are in groups, which you can expand and collapse

You can collapse the whole properties section by clicking here
Task 8. Modify a property of a job

8d. Click Edit properties
Task 8. Modify a property of a job

8e. Scroll down to the Prty property, or type Prty in the Filter field at the top of the Properties section.
Task 8. Modify a property of a job

8f. Type a new value, 145, in the Prty field
Task 8. Modify a property of a job

8h. Click Apply

8g. If the Apply button is not visible, scroll (using the outermost scroll bar)
Task 8. Modify a property of a job

Prty value has changed
Task 9. View the user session log

New task

9a. Return to the Overview page
Task 9. View the user session log

9b. Click **User Session Log**. (You may need to scroll to see the link.)
Task 9. View the user session log

Log for your session

JES2 command that was generated when you changed the Prty value

Messages issued in response
Task 10. System command

This page includes a command line for system commands. (So does the Overview page.)

10a. Type d a

10b. If a list of commands appears beneath the command line, click the entry for d a
Task 10. System command

10c. Click the Help with command syntax link
Task 10. System command

Help opens in a new browser window. You may need to bring it to the top.

List of topics to help you complete the command that you typed. Clicking any link under Command shows the syntax diagram.

Help with command syntax

Command: da

Help with command syntax found the following topics. Click the link for a command or book.

<table>
<thead>
<tr>
<th>Command</th>
<th>Topic</th>
<th>Book</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISPLAY A</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DISPLAY ALLOC.GRPLOCKS</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DISPLAY LOC.TGDEINFO</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DISPLAY OPTIONS</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DISPLAY APPC</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DISPLAY ASCH</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DISPLAY ASM</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DISPLAY AUTOLOG</td>
<td>Displaying system activity</td>
<td>z/OS Communications Server SNA Operation</td>
</tr>
<tr>
<td>DISPLAY AUTOR</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DISPLAY AXR</td>
<td>Displaying system activity</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DEVSEDEV parameter</td>
<td>Syntax</td>
<td>z/OS MVS System Commands</td>
</tr>
<tr>
<td>DUMP parameter</td>
<td>DUMP command</td>
<td>z/OS MVS System Commands</td>
</tr>
</tbody>
</table>
**Task 11. Purge a job’s output**

11a. Return to the SDSF window and click the Held Output Queue tab.
Task 11. Purge a job’s output

11b. Click **Actions**. You may see a list of recently used actions (**Purge Output**, here) or just **More Actions**…

11c. Click **More Actions**…
Task 11. Purge a job’s output

You can list all actions, or just those in a category

11d. Click Purge Output

11e. Click OK
Task 11. Purge a job’s output

11f. Click **OK** to confirm
Task 11. Purge a job’s output

SAMPJOB has been purged
Task 12. Export a table

For this exercise, we’ll use a different table, but you can export any table.

12a. Click Overview
Task 12. Export a table

12b. Click Active Jobs
Task 12. Export a table

The Active Jobs view includes a graphic summary, table and properties.

12c. Change the Owner to * and click **Apply** (to get more table data)
Task 12. Export a table

12d. Click File, and expand to see Export All Data

12e. Click Export All Data

Table now has all active jobs
Task 12. Export a table

You can save the comma-separated variable (CSV) file or open it with spreadsheet software.

12f. Your workstation for this lab may not have Excel or other spreadsheet software, but the next page in the presentation shows an example. This lab also shows an example of a file opened with Notepad. If you’re comfortable doing so and want to see your file, you can click **Save File**, use the resulting dialog to save the file, and then open it with the program of your choice.

Otherwise, click **Cancel** and go on to the next page.
Here is an example of a file opened in Excel.
Task 12. Export a table - Example

Here is an example of a file opened in Notepad.
Task 13. Browse a health check

New task

13a. Click **Overview** to return to the Overview page
Task 13. Browse a health check

13b. Click z/OS Health Checks
Task 13. Browse a health check

Like the others, this view includes a graphic summary, table and properties.
Task 13. Browse a health check

13c. Click a check name
Task 13. Browse a health check

Tabs for different views of the check

13d. Click the **Browse Check** tab

There is currently no history for this check
Task 13. Browse a health check

Browse window for the check’s output. Searchable and scrollable.

Find field
Want to try more?

- Filters in the table
  For quick filtering, type a value in the input field under the title. These filters take effect after the common filters. Try combining common and table filters.

- Find in Browse
  Type a value in the Find field, then press Enter.
  To limit your search, click Find options.
Want to try more? View the SYSLOG.

• To view the SYSLOG, you can browse the SYSLOG job from the All Jobs View, or *MASTER* from the Active Jobs view.
Thank you!

For more information, see:
- z/OSMF website:
  http://ibm.com/systems/z/os/zos/zosmf

- z/OSMF in the z/OS information center: