
**z/OSMF labs:
A smorgasbord of goodies to try out!**

z/OS Operator Consoles



TechU

2019 IBM Systems
Technical University

IBM

Abstract:

The z/OS Management Facility (z/OSMF) provides a web-based graphical interface for system programmers on z/OS. This hand on lab will give an opportunity to learn about the functions and features in z/OSMF first hand. Attendees can navigate through the z/OS Operator Consoles task to see system messages and to issue system commands.

This session will be useful to systems programmers and their managers who will be using (or are considering using) the z/OS Management Facility.

Introduction to z/OS Operator Consoles:

The z/OS Operator Consoles task lets you work with z/OS consoles. You can view system messages and issue system commands. The systems that you can work with are defined with the Systems task of the z/OSMF Settings category.

You can see a graphic summary of message activity. With Knowledge Center for z/OS (KC4Z), the z/OS Operator Consoles task lets you quickly see documentation for a message by hovering the mouse pointer on a message that is displayed on the console view.

Key features of the z/OS Operator Consoles Task

With the z/OS Operator Consoles task, you can:

- **Use the Overview tab to see the sysplexes and systems that are available for the z/OS Operator Consoles function.**
- **View system messages for a system or a sysplex.** The Console Summary Viewer provides a graphical view of activity. Each bar in the graph represents a unit of time, so higher bars represent more activity. The colors in the bars reflect the colors of the messages that are displayed in the console. Hover the mouse pointer over the summary view to display additional information for that unit of time.
- **Issue system commands** Type a system command, or select a command from your command history. The command is issued to the local system, which is indicated in the text for the command line. To issue a command to another system, use a ROUTE command. Click Submit or press Enter, then get command response from web browser.
- **Retrieve historic messages from OPERLOG or SYSLOG.**
- **Quickly see documentation for a message with Knowledge Center for z/OS (KC4Z).**

z/OS Operator Consoles Lab

This lab consists of 6 tasks.

1. Log on to z/OSMF
2. Complete setup
3. Start Console, and open console panel
4. View system messages for a system or a sysplex
5. Message bar and message association
6. Hide/Show summary view
7. Enter system commands
8. Lock/Resume console
9. Search with keywords
10. Filter with some conditions

-
11. Retrieve historic messages from SYSLOG
 12. Display message help
 13. Stop console

It is recommended that you execute these tasks in the order listed above. As you get familiar with the z/OS Operator Consoles, 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 System. Each team will be given a unique id to work with, please make sure you work with the user id assigned to your team to avoid confusing the other teams.

Notes:

Do NOT use the Browser BACK button to go to the prior screen.

1. Logon to zOSMF

Step 1: 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 following url**
 - <https://mvs1.centers.ihost.com/zosmf/>
 - 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.
- **Login with SHARE userid/pw as provided by the lab instructor**
 - Each workstation has been assigned a unique z/OS User ID
 - SHARAnn (where nn is 01 - 20)
 - Password: to be provided
- **Each User ID has been authorized to all the z/OSMF applications (Plug-ins)**

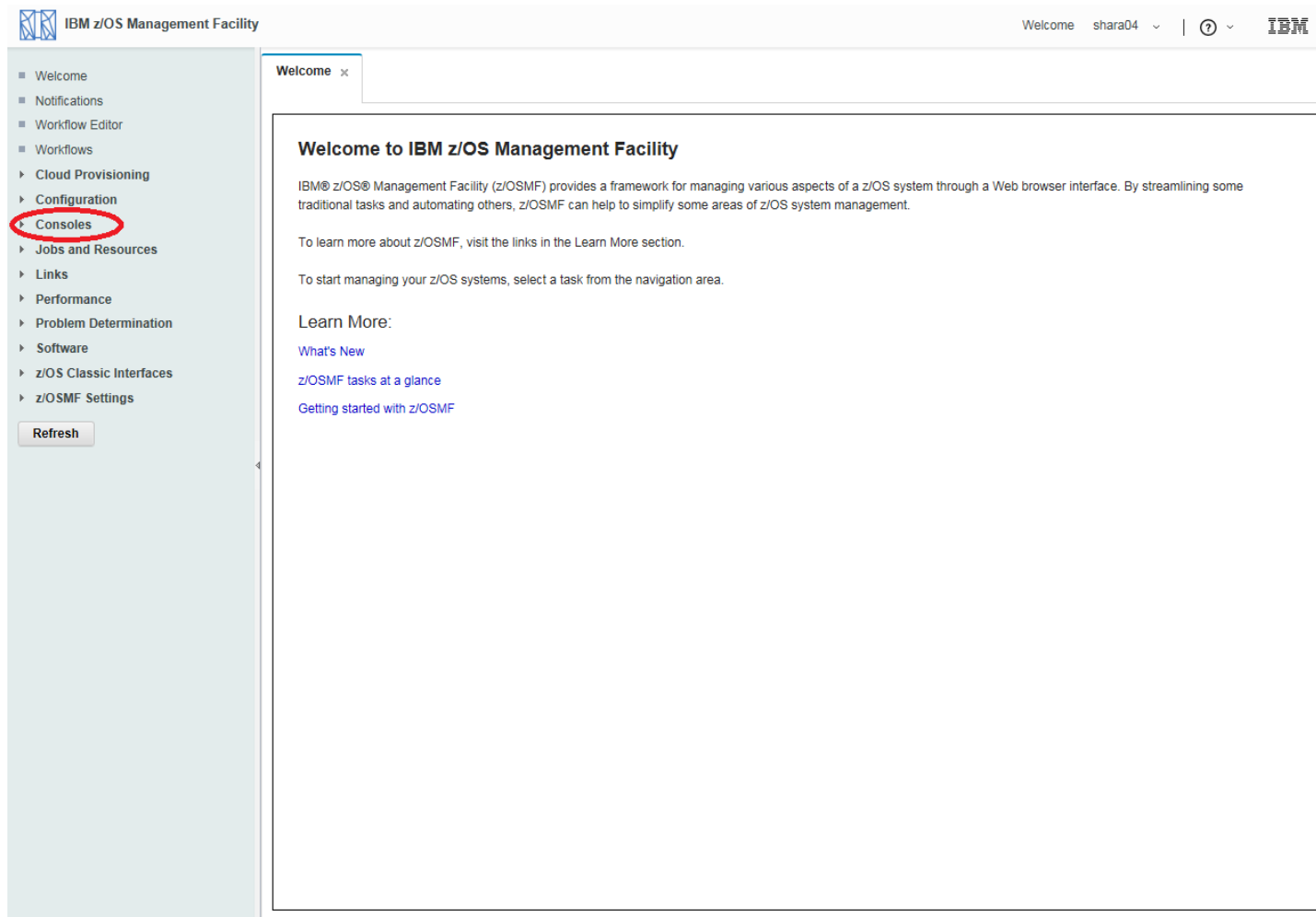
© Copyright IBM Corporation 2014

4

Note: All screen captures in the handout show the ID SHARA20, your browser will be slightly different to reflect the User ID that you were given.

2. Complete setup

Step 2a: Expand the Consoles Category in the Left Navigation Tree



The screenshot shows the IBM z/OS Management Facility web interface. The left navigation tree is expanded to show the 'Consoles' category, which is circled in red. The main content area displays a welcome message and links for learning more.

IBM z/OS Management Facility Welcome shara04

- Welcome
- Notifications
- Workflow Editor
- Workflows
- Cloud Provisioning
- Configuration
- Consoles**
- Jobs and Resources
- Links
- Performance
- Problem Determination
- Software
- z/OS Classic Interfaces
- z/OSMF Settings

Refresh

Welcome x

Welcome to IBM z/OS Management Facility

IBM® z/OS® Management Facility (z/OSMF) provides a framework for managing 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 z/OS system management.

To learn more about z/OSMF, visit the links in the Learn More section.

To start managing your z/OS systems, select a task from the navigation area.

Learn More:

- [What's New](#)
- [z/OSMF tasks at a glance](#)
- [Getting started with z/OSMF](#)

Step 2b: Click on z/OS Operator Consoles

The screenshot shows the IBM z/OS Management Facility web interface. The top navigation bar includes the IBM logo, the text 'Welcome shara04', and a help icon. The left sidebar contains a navigation menu with the following items: Welcome, Notifications, Workflow Editor, Workflows, Cloud Provisioning, Configuration, Consoles (expanded), z/OS Operator Consoles (highlighted with a red circle), Jobs and Resources, Links, Performance, Problem Determination, Software, z/OS Classic Interfaces, and z/OSMF Settings. A 'Refresh' button is located at the bottom of the sidebar. The main content area displays a 'Welcome to IBM z/OS Management Facility' message, explaining that z/OSMF provides a framework for managing z/OS systems through a web browser interface. It includes a 'Learn More' section with links for 'What's New', 'z/OSMF tasks at a glance', and 'Getting started with z/OSMF'.

Step 2c: Select S1

Welcome x z/OS Operator C... x

z/OS Operator Consoles

Overview

Actions ▾

↔ No filter applied

<input type="checkbox"/>	Sysplex or System Filter	Status Filter	Console summary view
<input type="checkbox"/>	SHARPLEX (Local Plex)	↓↑ Setup Required	
<input checked="" type="checkbox"/>	S1	↓↑ Setup Required	

Total: 2 Selected: 1

Refresh Last refresh: Feb 27, 2018, 2:25:58 PM local time (Feb 27, 2018, 6:25:58 AM GMT)

Step 2d: click Actions → Complete setup

The screenshot shows the 'z/OS Operator Consoles' interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below the tabs, the title 'z/OS Operator Consoles' is displayed. A 'Help' link is visible in the top right corner. The 'Overview' tab is selected. An 'Actions' dropdown menu is open, listing various actions: 'Start console', 'Complete setup' (highlighted with a red circle), 'Stop console', 'Resume console', 'Delete', 'Change setup', 'Lock console', and 'Configure message help'. Below the menu, there are checkboxes for 'Select All' and 'Deselect All', and options for 'Hide Filter Row' and 'Clear Sorts'. The main table has two columns: 'Status Filter' and 'Console summary view'. The first row shows a status of 'Setup Required' with a warning icon. The second row also shows 'Setup Required' with a warning icon. At the bottom, there is a 'Refresh' button and a timestamp: 'Last refresh: Feb 27, 2018, 2:25:58 PM local time (Feb 27, 2018, 6:25:58 AM GMT)'. A status bar at the bottom left indicates 'Total: 2 Selected: 1'.

Step 2e: Keep the default value of EMCS console name(**rannS1**). Click Setup Complete button directly

Note: We have set up the access permission of the EMCS console RannS1 for the user RannS1, where "ann" is your assigned z/OSMF userid. For instance, SHARA20 is assigned EMCS console RA20S1. These EMCS consoles only have minimum authority. These are an example subset of the RACF commands that were used on this system, and were based on the sample job SYS1.SAMPLIB(IZUGCSEC):

Please replace <consolename> with the EMCS console name to be used.

```
PERMIT <consolename> CLASS(TSOAUTH) ACCESS(READ) ID(SHARA20)
```

```
PERMIT MVS.MCSOPER.<consolename> CLASS(OPERCMD) ACCESS(READ) ID(SHARA20)
```

```
ADDUSER <consolename> OPERPARM(AUTH(MASTER) ROUTCODE(ALL) MSCOPE(S1))
```


When at your enterprise if you want to modify your definition of the EMCS console and use other values, contact your security administrator. It might be likely that you want to change the OPERPARM setting above the defaults.

Welcome x z/OS Operator C... x

z/OS Operator Consoles

Overview

Actions ▾

➤ No filter applied

<input type="checkbox"/> Sysplex or System Filter	Status Filter	Console summary view
<input type="checkbox"/> SHARPLEX (Local Plex)	ⓘ	S
<input checked="" type="checkbox"/> S1	ⓘ	S

Complete setup

The z/OS Operator Consoles task uses EMCS consoles to support console operations. Some setup is required for each console. For a sample job that provides the required setup, see SYS1.SAMPLIB(IZUGCSEC).

In doing console setup, you identify an EMCS console by the EMCS console name. You can use the default EMCS console name that is generated by the z/OS Operator Consoles task, or you can customize the EMCS console name. If you customize the EMCS console name, you must also update the name in the EMCS console name field below.

Once you have completed the setup, click **Setup Complete**.

For more information about performing the setup for the z/OS Operator Consoles task, click **Help**.

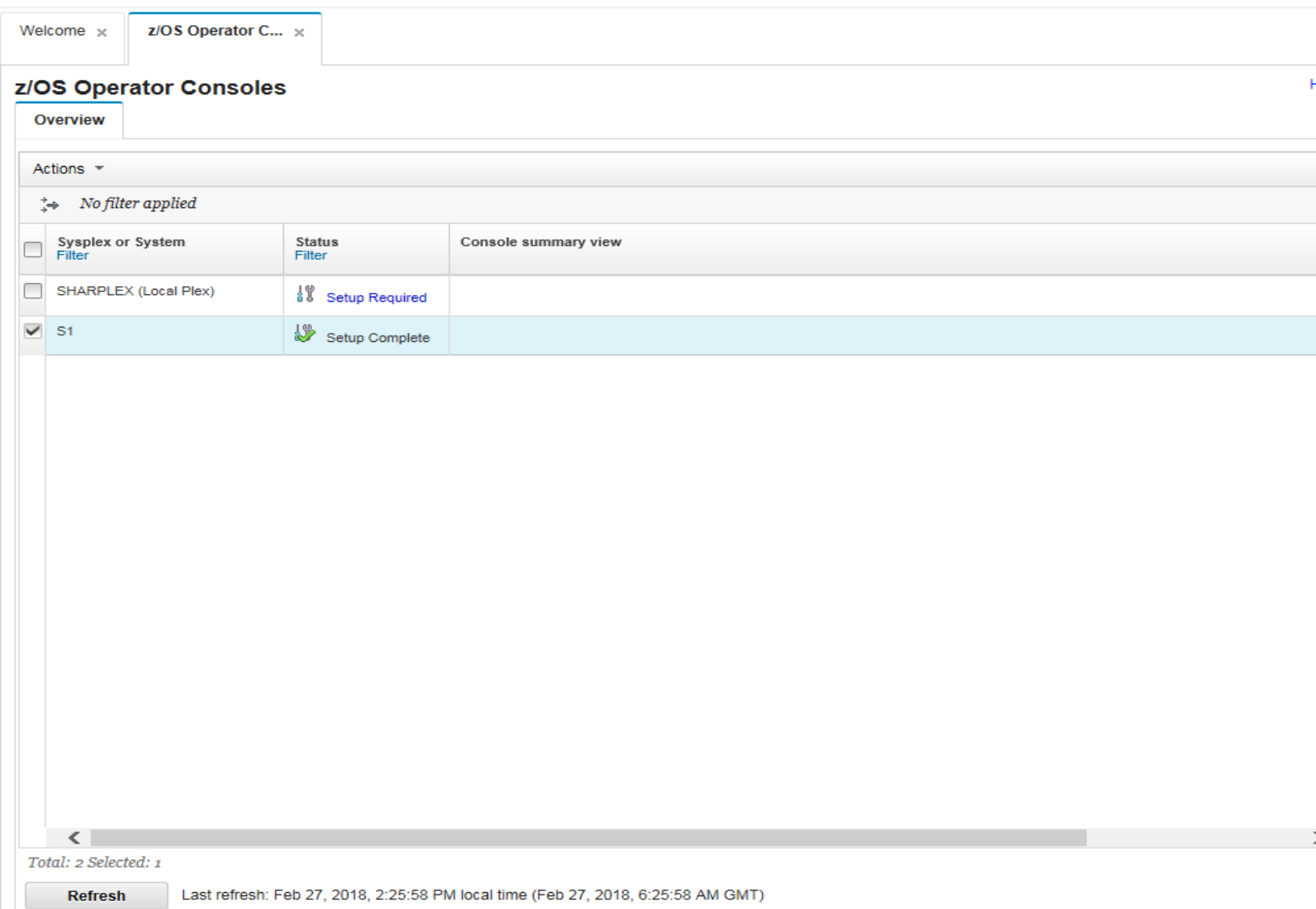
Sysplex/System	EMCS console name
S1:	<input type="text" value="ra04S1"/>

Setup Complete Close Help

Total: 2 Selected: 1

Refresh Last refresh: Feb 27, 2018, 2:25:58 PM local time (Feb 27, 2018, 6:25:58 AM GMT)

Step 2f: The status of S1 is Setup Complete





z/OS Operator Consoles

Overview

Actions ▾

↕ No filter applied

<input type="checkbox"/>	Sysplex or System Filter	Status Filter	Console summary view
<input type="checkbox"/>	SHARPLEX (Local Plex)	 Setup Required	
<input checked="" type="checkbox"/>	S1	 Setup Complete	

Total: 2 Selected: 1

[Refresh](#) Last refresh: Feb 27, 2018, 2:25:58 PM local time (Feb 27, 2018, 6:25:58 AM GMT)

Use the Overview tab to see the sysplexes and systems that are available for the z/OS Operator Consoles function, and to display a console for a system.

The systems that you can work with are defined with the Systems task of the z/OSMF Settings category. The z/OS Operator Consoles task shows them in the Console Summary table. To see the latest information in the Console Summary table, click Refresh.

3. Start Console, and open console panel

The screenshot shows the 'z/OS Operator Consoles' interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below the tabs, the title 'z/OS Operator Consoles' is displayed with a 'Help' link on the right. The 'Overview' tab is active. On the left, an 'Actions' dropdown menu is open, with 'Start console' highlighted and circled in red. Other actions in the menu include 'Complete setup', 'Stop console', 'Resume console', 'Delete', 'Change setup', 'Lock console', 'Configure message help', 'Select All', 'Deselect All', 'Hide Filter Row', and 'Clear Sorts'. The main area contains a table with columns 'Status Filter' and 'Console summary view'. The table has two rows: 'Setup Required' and 'Setup Complete'. The 'Setup Complete' row is highlighted in light blue. At the bottom, there is a 'Refresh' button and a timestamp: 'Last refresh: Feb 27, 2018, 2:25:58 PM local time (Feb 27, 2018, 6:25:58 AM GMT)'. Below the table, it says 'Total: 2 Selected: 1'.

Step 3a: Select S1, click Actions-> Start Console

Step 3b: The status of S1 is Connected and S1 is clickable

Welcome x z/OS Operator C... x

z/OS Operator Consoles Help

Overview

Actions ▾

↔ No filter applied

<input type="checkbox"/> Sysplex or System Filter	Status Filter	Console summary view
<input checked="" type="checkbox"/> S1	■ Connected	
<input type="checkbox"/> SHARPLEX (Local Plex)	⚠ Setup Required	

Total: 2 Selected: 1

Refresh Last refresh: Mar 1, 2018, 11:03:02 AM local time (Mar 1, 2018, 3:03:02 AM GMT)

Step 3c: Click S1, the console for S1 will be opened as a new tab.

Welcome x z/OS Operator C... x

z/OS Operator Consoles Help

Overview Console for S1 x

Console for S1

```
Feb 27 20:58:00 D C,HARDCOPY
Feb 27 20:58:01 S1 CNZ4100I 20.58.01 CONSOLE DISPLAY 451
CONSOLES MATCHING COMMAND: D C,HARDCOPY
MSG:CURR=0 LIM=9000 RPLY:CURR=3 LIM=200 SYS=S1 PFK=00
HARDCOPY LOG=(SYSLOG) CMDLEVEL=CMDS
ROUT=(ALL)
LOG BUFFERS IN USE: 0 LOG BUFFER LIMIT: 1000

Feb 27 21:07:01 S1 HZSPROC HZS0001I CHECK(IBMUSS,USS_PARMLIB):
BPXH040E One or more differences were found between the system
settings
and the settings in the current BPXPRMxx parmlib members.

Feb 27 21:08:38 S1 HZSPROC HZS0002E CHECK(IBM CNZ,CNZ_SYSCONS_PD_MODE):
CNZHF0010E System console S1 is running in Problem Determination
mode.

Feb 27 21:08:40 S1 HZSPROC *HZS0003E CHECK(IBM XCF,XCF_CDS_SPOF):
IXCH0242E One or more couple data sets have a single point of failure.

Feb 27 21:08:40 S1 HZSPROC HZS0002E CHECK(IBM XCF,XCF_CF_CONNECTIVITY):
IXCH0446E System S1 has only one online operational channel
path to coupling facility CF06.

Feb 27 21:08:43 S1 HZSPROC HZS0002E CHECK(IBM XCF,XCF_CF_SYSPLEX_CONNECTIVITY):
IXCH0220E The number of coupling facilities available to all active
systems in the sysplex does not meet the required minimum.
```

Command:
Select or type

4. View system messages for a system or a sysplex

Step 4a: The console messages will be displayed in the Console Windows, you might not see the messages which is shown in screen shot until some messages are issued

The screenshot displays the 'z/OS Operator Consoles' window. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below this, the main window is titled 'z/OS Operator Consoles' and has sub-tabs for 'Overview' and 'Console for S1'. The 'Console for S1' tab is active, showing a list of system messages. The messages are displayed in a table-like format with columns for date, time, system name, user, and message text. The messages are as follows:

Date	Time	System	User	Message
Feb 27	21:14:21	S1	CJOEY	+This is message 25. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 26. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 27. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 28. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 29. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 30. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 31. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 32. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 33. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 34. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 35. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 36. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 37. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 38. (desc: 11)
Feb 27	21:14:21	S1	CJOEY	+This is message 0. (desc: 11)
Feb 27	21:14:24	S1	CJOEY	+This is message 1. (desc: 11)
Feb 27	21:17:51	S1	QML1CHIN	+CSQX004I QML1 CSQXSPRM Channel initiator is using 14 MB of local storage, 1191 MB are free
Feb 27	21:18:40	S1	HZSPROC	HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS): DFHH0001E The CEDA transaction is accessible to unauthenticated users
Feb 27	21:18:40	S1	HZSPROC	HZS0001I CHECK(IBMCIICS,CICS_JOBSUB_SPOOL): DFHH0002E The spool is accessible to unauthenticated users.

At the bottom of the window, there is a 'Command:' section with a text input field containing 'Select or type' and a 'Submit' button.

Step 4b: The message bars will be displayed in console summary view

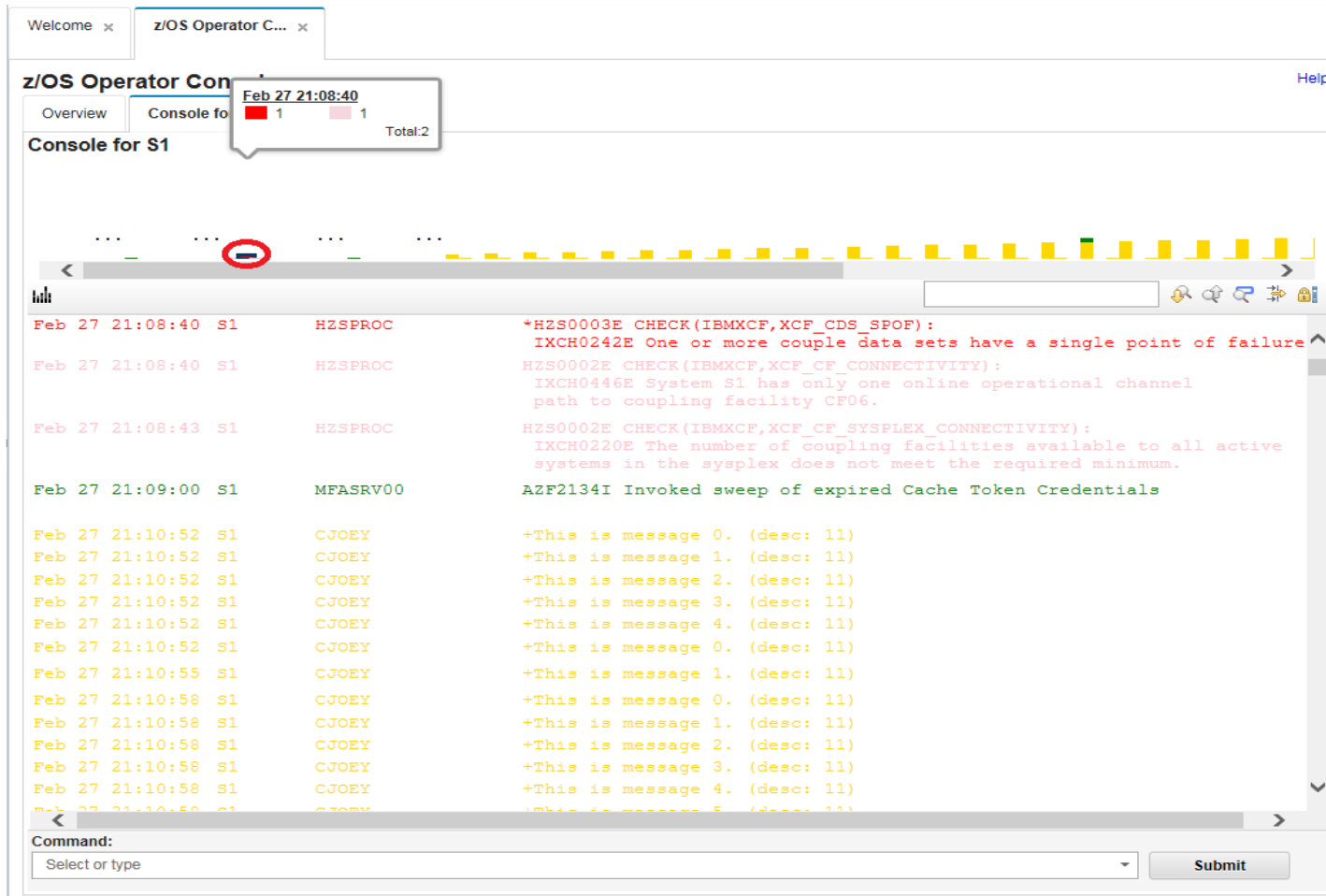
The screenshot shows the z/OS Operator Consoles interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below that, the main title is 'z/OS Operator Consoles' with sub-tabs for 'Overview' and 'Console for S1'. A notification box in the top right corner displays 'Feb 27 21:18:40' and '2' with a green bar, and 'Total:2' below it. The main area is titled 'Console for S1' and features a horizontal bar chart with yellow bars of varying heights. Below the bar chart is a scrollable list of messages. The messages are as follows:

Timestamp	Source	Message Text
Feb 27 21:14:21 S1	CJOEY	+This is message 25. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 26. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 27. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 28. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 29. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 30. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 31. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 32. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 33. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 34. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 35. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 36. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 37. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 38. (desc: 11)
Feb 27 21:14:21 S1	CJOEY	+This is message 0. (desc: 11)
Feb 27 21:14:24 S1	CJOEY	+This is message 1. (desc: 11)
Feb 27 21:17:51 S1	QML1CHIN	+CSQX004I QML1 CSQXSPRM Channel initiator is using 14 MB of local storage, 1191 MB are free
Feb 27 21:18:40 S1	HZSPROC	HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS): DFHH0001E The CEDA transaction is accessible to unauthenticated users
Feb 27 21:18:40 S1	HZSPROC	HZS0001I CHECK(IBMCIICS,CICS_JOBSPool): DFHH0002E The spool is accessible to unauthenticated users.

At the bottom of the interface, there is a 'Command:' section with a text input field containing 'Select or type' and a 'Submit' button.

5. Message bar and message association

Step 5a: Click a specific message bar and the first console message belongs to this message bar will be displayed on the top of the Console Window



Step 5b: Click on the data and time portion of the message that appears in the Console Window, the message bar to which the specific message belongs to will be highlighted in the console summary view

The screenshot displays the 'z/OS Operator Consoles' interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below this, the 'z/OS Operator Consoles' section has tabs for 'Overview' and 'Console for S1'. A tooltip in the top right corner shows 'Feb 27 21:18:40' and 'Total:2'. The main area is titled 'Console for S1' and contains a list of messages. The message at 'Feb 27 21:18:40 S1' is highlighted with a red box. Below the messages is a 'Command:' section with a text input field and a 'Submit' button.

Time	Source	Message
Feb 27 21:14:21	S1	CJOEY +This is message 25. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 26. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 27. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 28. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 29. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 30. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 31. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 32. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 33. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 34. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 35. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 36. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 37. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 38. (desc: 11)
Feb 27 21:14:21	S1	CJOEY +This is message 0. (desc: 11)
Feb 27 21:14:24	S1	CJOEY +This is message 1. (desc: 11)
Feb 27 21:17:51	S1	QML1CHIN +CSQX004I QML1 CSQXSPRM Channel initiator is using 14 MB of local storage, 1191 MB are free
Feb 27 21:18:40	S1	HZSPROC HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS): DFHH0001E The CEDA transaction is accessible to unauthenticated users
Feb 27 21:18:40	S1	HZSPROC HZS0001I CHECK(IBMCIICS,CICS_JOBSUB_SPOOL): DFHH0002E The spool is accessible to unauthenticated users.

6. Hide/Show summary view

Step 6a: Click Hide summary view, the console summary view will be hidden

The screenshot shows the 'z/OS Operator Consoles' application window. The title bar includes 'Welcome x' and 'z/OS Operator C... x'. The main window has tabs for 'Overview' and 'Console for S1 x'. The 'Console for S1' tab is active, displaying a list of system messages. A red circle highlights a 'Summary' icon in the top left corner of the console window. The messages include storage status, CEDA transaction access checks, BPXAS job output, and SMF/SMFDS1 file operations. At the bottom, there is a 'Command:' field with a dropdown menu and a 'Submit' button.

```

storage, 1191 MB are free
Feb 27 21:18:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS):
DFHH0001E The CEDA transaction is accessible to unauthenticated users
Feb 27 21:18:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_JOBSUB_SPOOL):
DFHH0002E The spool is accessible to unauthenticated users.
Feb 27 21:42:43 S1      BPXAS        ESL02 BPXAS   IEFPROC   BPXAS     IEFIIC    STCUSR    0000
Feb 27 21:42:43 S1      BPXAS        ESL02 BPXAS   IEFPROC   BPXAS     IEFIIC    STCUSR    0000
Feb 27 21:42:43 S1      BPXAS        ESL02 BPXAS   IEFPROC   BPXAS     IEFIIC    STCUSR    0000
Feb 27 21:42:43 S1      BPXAS        ESL02 BPXAS   IEFPROC   BPXAS     IEFIIC    STCUSR    0000
Feb 27 21:48:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_JOBSUB_SPOOL):
DFHH0002E The spool is accessible to unauthenticated users.
Feb 27 21:48:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS):
DFHH0001E The CEDA transaction is accessible to unauthenticated users
Feb 27 21:57:42 S1      SMF          IEFU2900 THE ESLNU29 EXIT HAS ISSUED A START SMFDMP29 CMD
Feb 27 21:57:42 S1      SMF          IEE388I SMF NOW RECORDING ON VOLSER UNQS1A, DSN=SYS1.S1.MANX TIME=
21.57.42
Feb 27 21:57:42 S1      SMFDS1      ICH70006I USERID (IBMUSER ) ASSOCIATED WITH PROCEDURE (*UNKNOWN) HAS
BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE
PROCEDURE CONTINUES.
Feb 27 21:57:42 S1      SMFDS1      ICH70006I USERID (IBMUSER ) ASSOCIATED WITH PROCEDURE (SMFDMP29) HAS
BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE
PROCEDURE CONTINUES.
Feb 27 21:57:43 S1      BPXAS        ESL02 BPXAS   IEFPROC   BPXAS     IEFIIC    STCUSR    0000
Feb 27 21:57:43 S1      BPXAS        ESL02 BPXAS   IEFPROC   BPXAS     IEFIIC    STCUSR    0000
Feb 27 21:57:43 S1      BPXAS        ESL02 BPXAS   IEFPROC   BPXAS     IEFIIC    STCUSR    0000
Feb 27 21:57:54 S1      SMFDS1      ESL01 SMFDS1  SMFDMP    SMFDS1    ESLSMFDP  IBMUSER   0000
Feb 27 21:57:54 S1      SMFDS1      ESL01 SMFDS1  LOGSTEP   SMFDS1    IKJEFT01  IBMUSER   FLUSH
Feb 27 21:57:54 S1      SMFDS1      ESL02 SMFDS1  CLEANUP   SMFDS1    IKJEFT01  IBMUSER   0000
    
```

Command:


Step 6b: Click Show summary view, the console summary view will be displayed

Welcome x z/OS Operator C... x

z/OS Operator Consoles

Overview Console for S1 x

Console for S1



```
storage, 1191 MB are free
Feb 27 21:18:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS):
                  DFHH0001E The CEDA transaction is accessible to unauthenticated users
Feb 27 21:18:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_JOBSUB_SPOOL):
                  DFHH0002E The spool is accessible to unauthenticated users.
Feb 27 21:42:43 S1      BPXAS        ESL02 BPXAS   IEFPROC     BPXAS       IEFIIC      STCUSR      0000
Feb 27 21:42:43 S1      BPXAS        ESL02 BPXAS   IEFPROC     BPXAS       IEFIIC      STCUSR      0000
Feb 27 21:42:43 S1      BPXAS        ESL02 BPXAS   IEFPROC     BPXAS       IEFIIC      STCUSR      0000
Feb 27 21:42:43 S1      BPXAS        ESL02 BPXAS   IEFPROC     BPXAS       IEFIIC      STCUSR      0000
Feb 27 21:48:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_JOBSUB_SPOOL):
                  DFHH0002E The spool is accessible to unauthenticated users.
Feb 27 21:48:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS):
                  DFHH0001E The CEDA transaction is accessible to unauthenticated users
Feb 27 21:57:42 S1      SMF          IEFU2900 THE ESLNU29 EXIT HAS ISSUED A START SMFDMP29 CMD
Feb 27 21:57:42 S1      SMF          IEE388I SMF NOW RECORDING ON VOLSER UNQS1A, DSN=SYS1.S1.MANX TIME=
                  21.57.42
Feb 27 21:57:42 S1      SMFDS1      ICH70006I USERID (IBMUSER ) ASSOCIATED WITH PROCEDURE (*UNKNOWN) HAS
                  BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE
                  PROCEDURE CONTINUES.
Feb 27 21:57:42 S1      SMFDS1      ICH70006I USERID (IBMUSER ) ASSOCIATED WITH PROCEDURE (SMFDMP29) HAS
                  BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE
                  PROCEDURE CONTINUES.
Feb 27 21:57:43 S1      BPXAS        ESL02 BPXAS   IEFPROC     BPXAS       IEFIIC      STCUSR      0000
```

Command:
Select or type

7. Enter system commands

Step 7a: Input "D PARMLIB" into the textbox of command, click 'Submit' button or press Enter, the command return messages will be displayed into console windows

The screenshot displays the 'z/OS Operator Consoles' interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below this, the main window is titled 'z/OS Operator Consoles' and has sub-tabs for 'Overview' and 'Console for S1'. The 'Console for S1' tab is active, showing a list of system messages. The messages are as follows:

Time	Source	Message
Feb 27 21:42:43	S1	BPXAS ESL02 BPXAS IEFPROC BPXAS IEFIIIC STCUSR 0000
Feb 27 21:48:40	S1	HZSPROC HZS0001I CHECK(IBMCIICS,CICS_JOBSSUB_SPOOL): DFHH0002E The spool is accessible to unauthenticated users.
Feb 27 21:48:40	S1	HZSPROC HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS): DFHH0001E The CEDA transaction is accessible to unauthenticated users
Feb 27 21:57:42	S1	SMF IEFU2900 THE ESLNU29 EXIT HAS ISSUED A START SMFDMP29 CMD
Feb 27 21:57:42	S1	SMF IEE388I SMF NOW RECORDING ON VOLSER UNQS1A, DSN=SYS1.S1.MANX TIME=21.57.42
Feb 27 21:57:42	S1	SMFDS1 ICH70006I USERID (IBMUSER) ASSOCIATED WITH PROCEDURE (*UNKNOWN) HAS BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE PROCEDURE CONTINUES.
Feb 27 21:57:42	S1	SMFDS1 ICH70006I USERID (IBMUSER) ASSOCIATED WITH PROCEDURE (SMFDMP29) HAS BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE PROCEDURE CONTINUES.
Feb 27 21:57:43	S1	BPXAS ESL02 BPXAS IEFPROC BPXAS IEFIIIC STCUSR 0000
Feb 27 21:57:43	S1	BPXAS ESL02 BPXAS IEFPROC BPXAS IEFIIIC STCUSR 0000
Feb 27 21:57:43	S1	BPXAS ESL02 BPXAS IEFPROC BPXAS IEFIIIC STCUSR 0000
Feb 27 21:57:54	S1	SMFDS1 ESL01 SMFDS1 SMFDMP SMFDS1 ESLSMFDP IBMUSER 0000
Feb 27 21:57:54	S1	SMFDS1 ESL01 SMFDS1 LOGSTEP SMFDS1 IKJEFT01 IBMUSER FLUSH
Feb 27 21:57:54	S1	SMFDS1 ESL02 SMFDS1 CLEANUP SMFDS1 IKJEFT01 IBMUSER 0000
Feb 27 21:59:30	S1	FTPD1 ICH408I USER(COMPTON) GROUP(SHARPROG) NAME(COMPTON/SHR) LOGON/JOB INITIATION - INVALID PASSWORD ENTERED AT TERMINAL 812AD0A
Feb 27 21:59:30	S1	FTPD1 IRR013I VERIFICATION FAILED. INVALID PASSWORD GIVEN.

At the bottom of the console window, there is a 'Commands' input field containing the text 'D PARMLIB' and a 'Submit' button. Both the input field and the button are circled in red in the image.

Welcome x z/OS Operator C... x

z/OS Operator Consoles

Overview Console for S1 x

Console for S1

21.57.42

```

Feb 27 21:57:42 S1 SMFDS1 ICH70006I USERID (IBMUSER ) ASSOCIATED WITH PROCEDURE (*UNKNOWN) HAS
                        BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE
                        PROCEDURE CONTINUES.
Feb 27 21:57:42 S1 SMFDS1 ICH70006I USERID (IBMUSER ) ASSOCIATED WITH PROCEDURE (SMFDMP29) HAS
                        BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE
                        PROCEDURE CONTINUES.
Feb 27 21:57:43 S1 BPXAS   ESL02 BPXAS   IEFPROC  BPXAS   IEFIIC   STCUSR   0000
Feb 27 21:57:43 S1 BPXAS   ESL02 BPXAS   IEFPROC  BPXAS   IEFIIC   STCUSR   0000
Feb 27 21:57:43 S1 BPXAS   ESL02 BPXAS   IEFPROC  BPXAS   IEFIIC   STCUSR   0000
Feb 27 21:57:54 S1 SMFDS1  ESL01 SMFDS1  SMFDMP   SMFDS1  ESLSMFDP IBMUSER  0000
Feb 27 21:57:54 S1 SMFDS1  ESL01 SMFDS1  LOGSTEP  SMFDS1  IKJEFT01 IBMUSER  FLUSH
Feb 27 21:57:54 S1 SMFDS1  ESL02 SMFDS1  CLEANUP  SMFDS1  IKJEFT01 IBMUSER  0000
Feb 27 21:59:30 S1 FTPD1   ICH408I USER(COMPTON ) GROUP(SHARPROG) NAME(COMPTON/SHR
                        )
                        LOGON/JOB INITIATION - INVALID PASSWORD ENTERED AT TERMINAL 812AD0A
Feb 27 21:59:30 S1 FTPD1   IRR013I VERIFICATION FAILED. INVALID PASSWORD GIVEN.
D PARMLIB
Feb 27 22:01:00 S1 IEE251I 22.01.00 PARMLIB DISPLAY 553
                        PARMLIB DATA SETS SPECIFIED
                        AT IPL
                        ENTRY  FLAGS  VOLUME  DATA SET
                        1      S      SHR001  SHARE.PARMLIB
                        2      S      SHRESA  SYS1.PARMLIB.INSTALL
                        3      D      SHRESA  SYS1.PARMLIB

```

Command:

Step 7b: Input "D A,L" into the textbox of command, click 'Submit' button or press Enter, the command return messages will be displayed into console windows

The screenshot shows the 'z/OS Operator Consoles' interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below this is the 'z/OS Operator Consoles' header with 'Overview' and 'Console for S1' tabs. The main area is titled 'Console for S1' and contains a scrollable console window. The console output shows a system message from 'COMPTON' at 22:05:16, followed by a 'DAL' command at 22:06:07. The command output is a table of active jobs and their parameters.

JOB	M/S	TS	USERS	SYSAS	INITS	ACTIVE/MAX	VTAM	OAS
00018	00046	00009	00037	00092	00008/00200			
JES2	JES2	IEFPROC	NSW	S	VTAM	NET	VTAM	NSW
LLA	LLA	LLA	NSW	S	VTAMTSO	VTAMTSO	VTAMTCAS	OWT S
VLF	VLF	VLF	NSW	S	APPC	APPC	APPC	NSW S
ASCH	ASCH	ASCH	NSW	S	RRS	RRS	RRS	NSW S
CFZCIM	CFZCIM	CFZCIM	OWT	SO	SDSF	SDSF	SDSF	NSW S
DFS	DFS	GO	NSW	SO	TN3270	TN3270	TN3270	NSW
ZCEEANGL	ZCEEANGL	STEP1	NSW	SO	RACF	RACF	RACF	NSW
SDSFAUX	SDSFAUX	SDSFAUX	NSW	S	DBS1MSTR	DBS1MSTR	IEFPROC	NSW S
DBS1IRLM	DBS1IRLM		NSW	S	DBS1DBM1	DBS1DBM1	IEFPROC	NSW S
DBS1DIST	DBS1DIST	IEFPROC	NSW	SO	ZTTX	ZTTX	ZTTX	NSW S
DBS1ADMT	DBS1ADMT	STARTADM	IN	SO	QML1MSTR	QML1MSTR	PROCSTEP	NSW S
QML1CHIN	QML1CHIN	PROCSTEP	NSW	SO	CFZCIM1	STEP1	STCSYS	OWT
INETD	STEP1	STCSYS	OWT	AO	IPVSRV1	IPVSRV1	IPVSRV1	OWT
CSF	CSF		NSW	S	IZUANG1	IZUANG1	STEP1	NSW

At the bottom of the console window, there is a 'Command:' input field with a dropdown menu showing 'Select or type' and a 'Submit' button.

Step 7c: Enter "D P" in the command input box in the bottom, you will see the command history you entered before. Type association is also supported.

Welcome x z/OS Operator C... x

z/OS Operator Consoles

Overview Console for S1 x

Console for S1

The screenshot displays a z/OS Operator Console window. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below that, the main title is 'z/OS Operator Consoles' with a 'Help' link. Underneath, there are tabs for 'Overview' and 'Console for S1'. The main area shows a console window titled 'Console for S1' with a job list. At the bottom, there is a 'Command:' input field with a dropdown menu showing 'D PARM LIB' selected, and a 'Submit' button.

SSHD2	STEP1	STCSYS	OWT	AO	FTPD1	STEP1	STCUSR	OWT
PAGENT	PAGENT	PAGENT	OWT	SO	RSED	RSED	RSED	IN
RSED1	STEP1	STCUSR	OWT	AO	RSED2	STEP1	STCUSR	IN
RSED3	STEP1	STCUSR	OWT	AO	RSED3	STEP1	STCUSR	OWT
RSED4	STEP1	STCUSR	IN	AO	RSED5	STEP1	STCUSR	OWT
IZUSVR1	IZUSVR1	ZOSMF	IN	SO	BAQSTRT	BAQSTRT	ZCON	IN
BAQFRANK	BAQFRANK	ZCON	IN	SO	PKIWEBYY	PKIWEBYY	*OMVSEX	OWT
PKIWEBYY	STEP1	WEBSRV	IN	AO	PKIWEBYY	STEP1	WEBSRV	OWT
PKIWEBYY	STEP1	WEBSRV	IN	AO	PKIWEBYY	STEP1	WEBSRV	OWT
PKIWEBYY	STEP1	WEBSRV	IN	AO	MFASRV01	MFASRV01	AZF130	IN
MFASRV00	MFASRV00	AZF130	NSW	SO	WFCHOI5	*OMVSEX	WFCHOI	OWT
JMON	JMON	JMON	OWT	SO	COMPTON	STEP1	COMPTON	OWT
ONNO	OWT	WFCHOI	OWT	O	*LOGON*	OWT	*LOGON*	OWT
SHARB02	OWT	MFA04	OWT		SHARB28	OWT	EYSHA	OWT
SHARA04	IN							

Command: D PARM LIB

Submit

Step 8b: Click Unlock console icon, the console for S1 will continue to retrieve the new messages.

The screenshot displays the 'z/OS Operator Consoles' interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below this, the 'z/OS Operator Consoles' header includes an 'Overview' tab and a selected 'Console for S1' tab. The main area shows a list of messages for 'Console for S1' with columns for time, user, and message text. The messages include system status updates, error checks (e.g., *HZS0003E, HZS0002E), and a 'D C, HARDCOPY' command. At the bottom, there is a 'Command:' field with a dropdown menu and a 'Submit' button. A red circle highlights the lock icon in the top right corner of the console window.

```
Feb 27 22:08:40 S1      HZSPROC      *HZS0003E CHECK(IBMxcf,XCF_CDS_SPOF):
IXCH0242E One or more couple data sets have a single point of failure

Feb 27 22:08:40 S1      HZSPROC      HZS0002E CHECK(IBMxcf,XCF_CF_CONNECTIVITY):
IXCH0446E System S1 has only one online operational channel
path to coupling facility CF06.

Feb 27 22:08:43 S1      HZSPROC      HZS0002E CHECK(IBMxcf,XCF_CF_SYSPLEX_CONNECTIVITY):
IXCH0220E The number of coupling facilities available to all active
systems in the sysplex does not meet the required minimum.

Feb 27 22:09:44          D C,HARDCOPY
Feb 27 22:09:45 S1      CNZ4100I 22.09.45 CONSOLE DISPLAY 585
CONSOLES MATCHING COMMAND: D C,HARDCOPY
MSG:CURR=0    LIM=9000 RPLY:CURR=3    LIM=200    SYS=S1    PFK=00
HARDCOPY LOG=(SYSLOG)    CMDLEVEL=CMDS
ROUT=(ALL)
LOG BUFFERS IN USE: 0    LOG BUFFER LIMIT: 1000

Feb 27 22:14:52 S1      CJOEY       +This is message 0. (desc: 11)

Feb 27 22:18:40 S1      HZSPROC      HZS0001I CHECK(IBMcics,CICS_CEDA_ACCESS):
DFHH0001E The CEDA transaction is accessible to unauthenticated users

Feb 27 22:18:40 S1      HZSPROC      HZS0001I CHECK(IBMcics,CICS_JOBSUB_SPOOL):
DFHH0002E The spool is accessible to unauthenticated users.

Feb 27 22:18:42 S1      QML1CHIN    +CSQX004I QML1 CSQXSPRM Channel initiator is using 14 MB of local
storage, 1191 MB are free
```

Command:
Select or type Submit

9. Search with keywords

Step 9a: Input "D PARMLIB"(Case sensitive) into the textbox of search, click Search down icon, the "D PARMLIB" will be highlighted, and the console for S1 will be locked(Submitted additional "D PARMLIB " 2

The screenshot shows the z/OS Operator Consoles interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below that, the 'z/OS Operator Consoles' header is visible, with sub-tabs for 'Overview' and 'Console for S1'. The main area is titled 'Console for S1' and displays a list of system messages. A search bar at the top right of the console window contains the text 'D PARMLIB' and shows '1 of 3 matches'. A red circle highlights the search icon (magnifying glass) in the search bar. The search results are highlighted in blue in the console output.

```

Feb 27 22:00:59          D PARMLIB
Feb 27 22:01:00  S1          IEE251I 22.01.00 PARMLIB DISPLAY 553
                          PARMLIB DATA SETS SPECIFIED
                          AT IPL
                          ENTRY  FLAGS  VOLUME  DATA SET
                          1      S    SHR001  SHARE.PARMLIB
                          2      S    SHRESA  SYS1.PARMLIB.INSTALL
                          3      D    SHRESA  SYS1.PARMLIB

Feb 27 22:05:16  S1          COMPTON  IKT122I IPADDR..PORT 129.42.208.173..54400
Feb 27 22:05:16  S1          COMPTON  IEF450I COMPTON SHARE SHARE - ABEND=S622 U0000 REASON=00000000
                          TIME=22.05.16

Feb 27 22:06:06          D A,L
Feb 27 22:06:07  S1          CNZ4105I 22.06.07 DISPLAY ACTIVITY 567
                          JOBS    M/S    TS USERS    SYSAS    INITS    ACTIVE/MAX VTAM    OAS
                          00018    00046    00009    00037    00092    00008/00200    0005
                          JES2     JES2     IEFPROC   NSW S    VTAM     NET      VTAM     NSW S
                          LLA      LLA      LLA      NSW S    VTAMTSO  VTAMTSO  VTAMTCAS OWT S
                          VLF      VLF      VLF      NSW S    APPC     APPC     APPC     NSW S
                          ASCH     ASCH     ASCH     NSW S    RRS      RRS      RRS      NSW S
                          CFZCIM   CFZCIM   CFZCIM   OWT SO   SDSF     SDSF     SDSF     NSW S
                          DFS      DFS      GO       NSW SO   TN3270   TN3270   TN3270   NSW S
                          ZCEEANGL ZCEEANGL STEP1    NSW SO   RACF     RACF     RACF     NSW S
                          SDSFAUX  SDSFAUX  SDSFAUX  NSW S    DBS1MSTR DBS1MSTR IEFPROC  NSW S
                          DBS1IRLM DBS1IRLM        NSW S    DBS1DBM1 DBS1DBM1 IEFPROC  NSW S
                          DBS1DIST DBS1DIST IEFPROC  NSW SO   ZTTX     ZTTX     ZTTX     NSW S
                          DBS1ADMT DBS1ADMT STARTADM TN    SO   OMT1MSTR OMT1MSTR PROCSTEP NSW S
    
```

At the bottom of the console window, there is a 'Command:' field with a dropdown menu labeled 'Select or type' and a 'Submit' button.

times before run this step, then 3 matches will be found)

Step 9b: Click Search down icon again, 2 of 3 matches will be displayed. Click Highlight all, all of "D PARMLIB" will be highlighted

Welcome x z/OS Operator C... x

z/OS Operator Consoles

Overview Console for S1 x

Console for S1

2 of 3 matches D PARMLIB

```

Feb 27 22:18:40 S1      HZSPROC      HZS0001I CHECK(IBMCIICS,CICS_JOBSP...
                    DFHH0002E The spool is accessible to unauthenticated users.
Feb 27 22:18:42 S1      QML1CHIN     +CSQX004I QML1 CSQXSPRM Channel initiator is using 14 MB of local
                    storage, 1191 MB are free
Feb 27 22:21:01 S1      FTPD6       ICH408I USER(COMPTON ) GROUP(SHARPROG) NAME(COMPTON/SHR
                    LOGON/JOB INITIATION - INVALID PASSWORD ENTERED AT TERMINAL 812AD0A
Feb 27 22:21:01 S1      FTPD6       IRR013I VERIFICATION FAILED. INVALID PASSWORD GIVEN.
Feb 27 22:23:45
                    D PARMLIB
Feb 27 22:23:46 S1      IEE251I 22.23.46 PARMLIB DISPLAY 612
                    PARMLIB DATA SETS SPECIFIED
                    AT IPL
                    ENTRY  FLAGS  VOLUME  DATA SET
                    1      S      SHR001  SHARE.PARMLIB
                    2      S      SHRESA  SYS1.PARMLIB.INSTALL
                    3      D      SHRESA  SYS1.PARMLIB
Feb 27 22:24:36 S1      CJOEY      +This is message 0. (desc: 11)
D PARMLIB
Feb 27 22:24:45 S1      IEE251I 22.24.45 PARMLIB DISPLAY 615
                    PARMLIB DATA SETS SPECIFIED
                    AT IPL
                    ENTRY  FLAGS  VOLUME  DATA SET
                    1      S      SHR001  SHARE.PARMLIB
                    2      S      SHRESA  SYS1.PARMLIB.INSTALL
                    3      D      SHRESA  SYS1.PARMLIB

```

Command: Select or type

Step 9c: Click Clear all icon, all highlighted will be removed, and Console for S1 will be resumed

Welcome x
z/OS Operator C... x

z/OS Operator Consoles
Help

Overview
Console for S1 x

Console for S1

...
...
...
...
...
...
...
...
...
...

<
D PARMLIB
>

```

storage, 1191 MB are free
Feb 27 22:21:01 S1      FTPD6      ICH408I USER(COMPTON ) GROUP(SHARPROG) NAME(COMPTON/SHR
LOGON/JOB INITIATION - INVALID PASSWORD ENTERED AT TERMINAL 812AD0A
Feb 27 22:21:01 S1      FTPD6      IRR013I VERIFICATION FAILED. INVALID PASSWORD GIVEN.
Feb 27 22:23:45
D PARMLIB
Feb 27 22:23:46 S1      IEE251I 22.23.46 PARMLIB DISPLAY 612
PARMLIB DATA SETS SPECIFIED
AT IPL
ENTRY  FLAGS  VOLUME  DATA SET
1      S      SHR001  SHARE.PARMLIB
2      S      SHRESA  SYS1.PARMLIB.INSTALL
3      D      SHRESA  SYS1.PARMLIB
Feb 27 22:24:36 S1      CJOEY      +This is message 0. (desc: 11)
Feb 27 22:24:44
D PARMLIB
Feb 27 22:24:45 S1      IEE251I 22.24.45 PARMLIB DISPLAY 615
PARMLIB DATA SETS SPECIFIED
AT IPL
ENTRY  FLAGS  VOLUME  DATA SET
1      S      SHR001  SHARE.PARMLIB
2      S      SHRESA  SYS1.PARMLIB.INSTALL
3      D      SHRESA  SYS1.PARMLIB
Feb 27 22:27:43 S1      FTPD9      ICH408I USER(COMPTON ) GROUP(SHARPROG) NAME(COMPTON/SHR
LOGON/JOB INITIATION - INVALID PASSWORD ENTERED AT TERMINAL 812AD0A
Feb 27 22:27:43 S1      FTPD9      IRR013I VERIFICATION FAILED. INVALID PASSWORD GIVEN.
                    
```

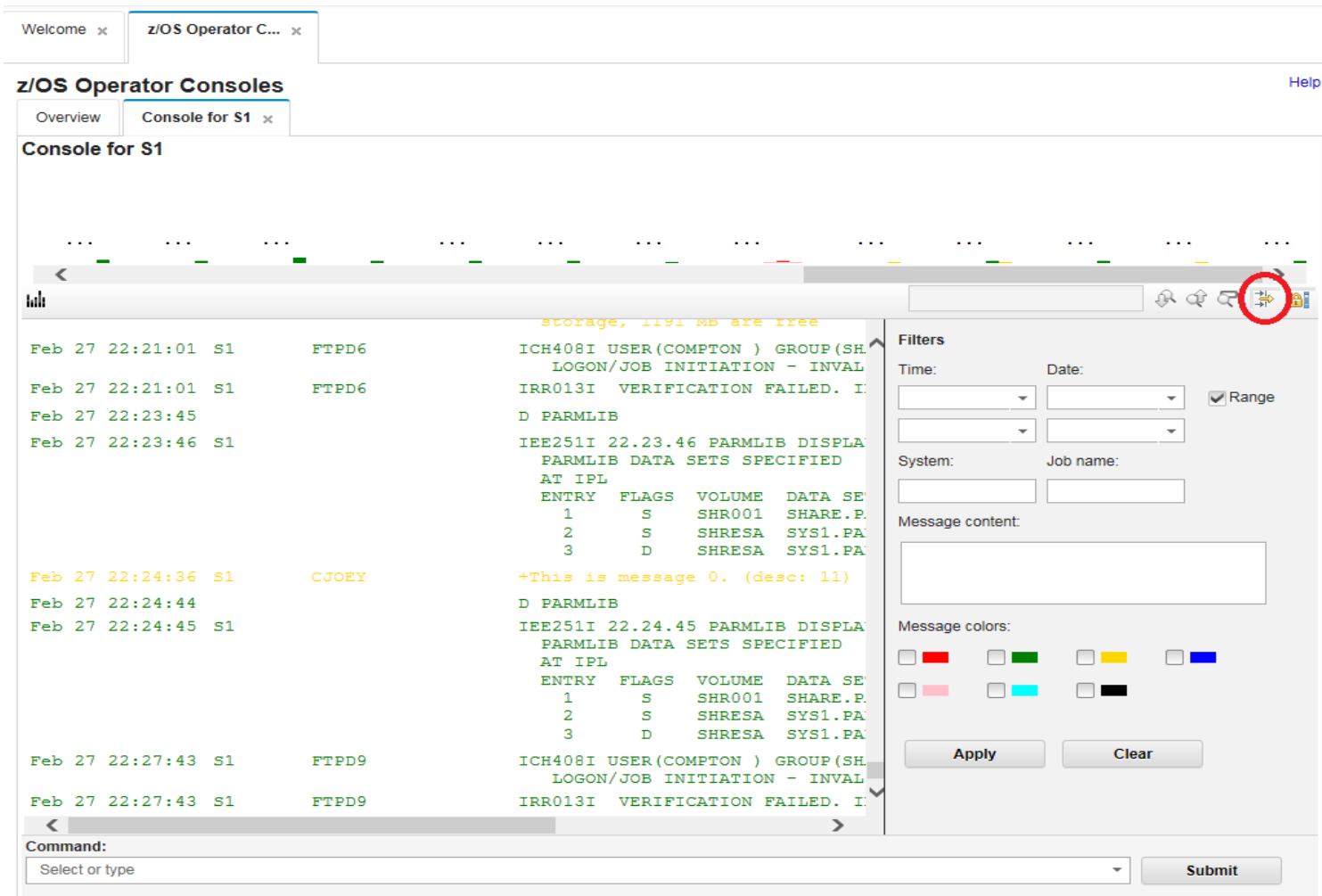
<

>

Command:

10. Filter with some conditions

Step 10a: Click Filter icon, the console for S1 will be locked



The screenshot shows the 'z/OS Operator Consoles' interface. The main console area displays a list of messages for S1, including system messages like 'storage, 1191 MB are free', 'ICH408I USER(COMPTON) GROUP(SH LOGON/JOB INITIATION - INVAL', 'IRR013I VERIFICATION FAILED. I', 'D PARMLIB', and 'IEE251I 22.23.46 PARMLIB DISPLA PARMLIB DATA SETS SPECIFIED AT IPL'. A table of entries is also visible:

ENTRY	FLAGS	VOLUME	DATA SE
1	S	SHR001	SHARE.P.
2	S	SHRESA	SYS1.PA
3	D	SHRESA	SYS1.PA

The right-hand side of the interface features a 'Filters' panel with fields for Time, Date, System, and Job name, along with a 'Message content' search box and 'Message colors' selection options. A red circle highlights the filter icon in the top right corner of the console area.

Command:

Step 10b: Input "PARMLIB"(Case sensitive) into the textbox of message content, click Apply button, the

The screenshot shows the 'z/OS Operator Consoles' interface. The main console window displays the following messages:

```

Feb 27 22:07:11 S1      HZSPROC      HZS0001I CHECK (IBMUSS, USS_PARML
BPXH040E One or more differenc
settings
and the settings in the curren
Feb 27 22:23:45
Feb 27 22:23:46 S1      D PARMLIB
IEE251I 22.23.46 PARMLIB DISPLA
PARMLIB DATA SETS SPECIFIED
AT IPL
ENTRY  FLAGS  VOLUME  DATA SE
1      S      SHR001  SHARE.P.
2      S      SHRESA  SYS1.PA
3      D      SHRESA  SYS1.PA
Feb 27 22:24:44
Feb 27 22:24:45 S1      D PARMLIB
IEE251I 22.24.45 PARMLIB DISPLA
PARMLIB DATA SETS SPECIFIED
AT IPL
ENTRY  FLAGS  VOLUME  DATA SE
1      S      SHR001  SHARE.P.
2      S      SHRESA  SYS1.PA
3      D      SHRESA  SYS1.PA
    
```

The filters panel on the right includes fields for Time, Date, System, and Job name. The 'Message content' field contains 'PARMLIB'. The 'Apply' button is circled in red.

messages will be displayed these contain "PARMLIB"

Step 10c: Click Clear button, all messages will be displayed

The screenshot displays the 'z/OS Operator Consoles' interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below this, the main title is 'z/OS Operator Consoles' with a 'Help' link on the right. Underneath, there are sub-tabs for 'Overview' and 'Console for S1'. The main area is titled 'Console for S1' and shows a list of messages with columns for time, system ID, and message text. The messages include system status reports and error messages from HZSPROC and MFASRV00. On the right side, there is a 'Filters' panel with fields for 'Time', 'Date', 'System', and 'Job name'. There are also checkboxes for 'Range' and 'Message content', and a 'Message colors' section with color selection boxes. At the bottom of the filters panel, there are 'Apply' and 'Clear' buttons. The 'Clear' button is circled in red. At the very bottom of the interface, there is a 'Command:' field with a dropdown menu and a 'Submit' button.

Time	System	Message
Feb 27 20:58:01	S1	CNZ4100I 20.58.01 CONSOLE DISPL CONSOLES MATCHING COMMAND: D C MSG:CURR=0 LIM=9000 RPLY:CU HARDCOPY LOG=(SYSLOG) ROUT=(ALL) LOG BUFFERS IN USE: 0 LO
Feb 27 21:07:01	S1 HZSPROC	HZS0001I CHECK(IBMUSS,USS_PARML BPXH040E One or more differenc settings and the settings in the curren
Feb 27 21:08:38	S1 HZSPROC	HZS0002E CHECK(IBM CNZ, CNZ_SYSCO CNZHP0010E System console S1 i mode.
Feb 27 21:08:40	S1 HZSPROC	*HZS0003E CHECK(IBM XCF, XCF_CDS_ IXCH0242E One or more couple d
Feb 27 21:08:40	S1 HZSPROC	HZS0002E CHECK(IBM XCF, XCF_CF_CO IXCH0446E System S1 has only o path to coupling facility CF06
Feb 27 21:08:43	S1 HZSPROC	HZS0002E CHECK(IBM XCF, XCF_CF_SY IXCH0220E The number of coupli systems in the sysplex does no
Feb 27 21:09:00	S1 MFASRV00	AZF2134I Invoked sweep of expir
Feb 27 21:10:52	S1 CJOEY	+This is message 0. (desc: 11)

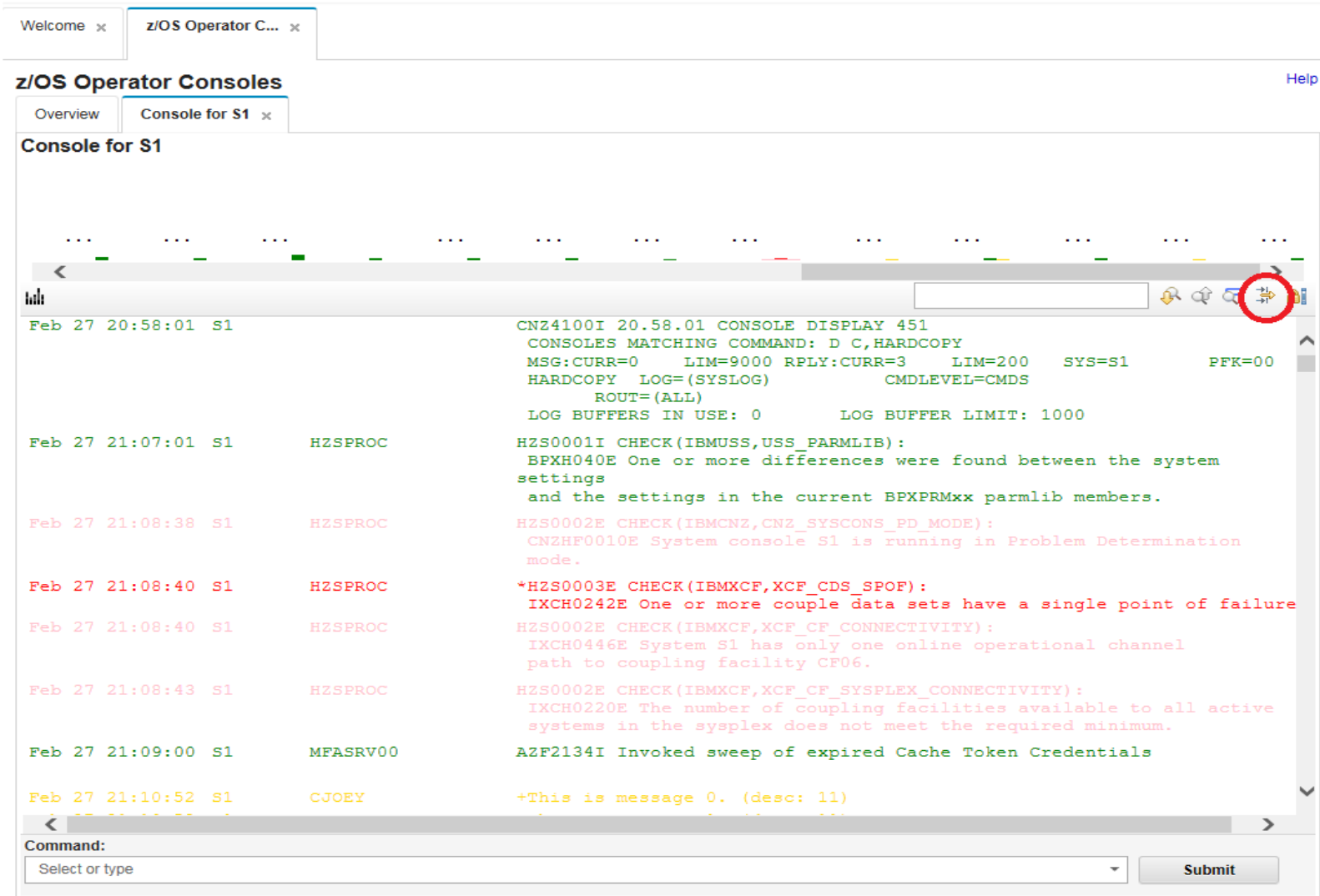
Step 10d: Click Hide filter icon, the console for S1 will be resumed and Filter dialog will disappear.

Welcome x z/OS Operator C... x

z/OS Operator Consoles Help

Overview Console for S1 x

Console for S1



```

Feb 27 20:58:01 S1 CNZ4100I 20.58.01 CONSOLE DISPLAY 451
CONSOLES MATCHING COMMAND: D C,HARDCOPY
MSG:CURR=0 LIM=9000 RPLY:CURR=3 LIM=200 SYS=S1 PFK=00
HARDCOPY LOG=(SYSLOG) CMDLEVEL=CMDS
ROUT=(ALL)
LOG BUFFERS IN USE: 0 LOG BUFFER LIMIT: 1000

Feb 27 21:07:01 S1 HZSPROC HZS0001I CHECK(IBMUSS,USS_PARMLIB):
BPXH040E One or more differences were found between the system
settings
and the settings in the current BPXPRMxx parmlib members.

Feb 27 21:08:38 S1 HZSPROC HZS0002E CHECK(IBM CNZ,CNZ_SYSCONS_PD_MODE):
CNZHF0010E System console S1 is running in Problem Determination
mode.

Feb 27 21:08:40 S1 HZSPROC *HZS0003E CHECK(IBM XCF,XCF_CDS_SPOF):
IXCH0242E One or more couple data sets have a single point of failure

Feb 27 21:08:40 S1 HZSPROC HZS0002E CHECK(IBM XCF,XCF_CF_CONNECTIVITY):
IXCH0446E System S1 has only one online operational channel
path to coupling facility CF06.

Feb 27 21:08:43 S1 HZSPROC HZS0002E CHECK(IBM XCF,XCF_CF_SYSPLX_CONNECTIVITY):
IXCH0220E The number of coupling facilities available to all active
systems in the sysplex does not meet the required minimum.

Feb 27 21:09:00 S1 MFASRV00 AZF2134I Invoked sweep of expired Cache Token Credentials

Feb 27 21:10:52 S1 CJOEY +This is message 0. (desc: 11)
    
```

Command:

11. Retrieve historic messages from SYSLOG

Step 11a: Each time you click Retrieve earlier messages from SYSLOG icon, you will retrieve 200 more messages back in time.

The screenshot displays the 'z/OS Operator Consoles' interface. At the top, there are tabs for 'Welcome' and 'z/OS Operator C...'. Below this, the 'z/OS Operator Consoles' section is active, with sub-tabs for 'Overview' and 'Console for S1'. The main area shows a list of messages for 'Console for S1'. A button labeled 'Retrieve earlier messages from SYSLOG.' is highlighted with a red circle. Below the message list, there is a 'Command:' field with a dropdown menu and a 'Submit' button.

```
Feb 27 20:58:00          D C,HARDCOPY
Feb 27 20:58:01 S1      CNZ4100I 20.58.01 CONSOLE DISPLAY 451
                        CONSOLES MATCHING COMMAND: D C,HARDCOPY
                        MSG:CURR=0   LIM=9000 RPLY:CURR=3   LIM=200   SYS=S1   PFK=00
                        HARDCOPY LOG=(SYSLOG)          CMDLEVEL=CMDS
                        ROUT=(ALL)
                        LOG BUFFERS IN USE: 0          LOG BUFFER LIMIT: 1000

Feb 27 21:07:01 S1      HZSPROC      HZS0001I CHECK(IBMUSS,USS_PARMLIB):
                        BPXH040E One or more differences were found between the system
                        settings
                        and the settings in the current BPXPRMxx parmlib members.

Feb 27 21:08:38 S1      HZSPROC      HZS0002E CHECK(IBM CNZ,CNZ_SYSCONS_PD_MODE):
                        CNZHP0010E System console S1 is running in Problem Determination
                        mode.

Feb 27 21:08:40 S1      HZSPROC      *HZS0003E CHECK(IBM XCF,XCF_CDS_SPOF):
                        IXCH0242E One or more couple data sets have a single point of failure

Feb 27 21:08:40 S1      HZSPROC      HZS0002E CHECK(IBM XCF,XCF_CF_CONNECTIVITY):
                        IXCH0446E System S1 has only one online operational channel
                        path to coupling facility CF06.

Feb 27 21:08:43 S1      HZSPROC      HZS0002E CHECK(IBM XCF,XCF_CF_SYSPLEX_CONNECTIVITY):
                        IXCH0220E The number of coupling facilities available to all active
                        systems in the sysplex does not meet the required minimum.

Feb 27 21:09:00 S1      MZSPY000  IZB2124I Tracked success of expired Cache Token Credentials
```

Command:
Select or type

Welcome x z/OS Operator C... x

z/OS Operator Consoles Help

Overview Console for S1 x

Console for S1

```

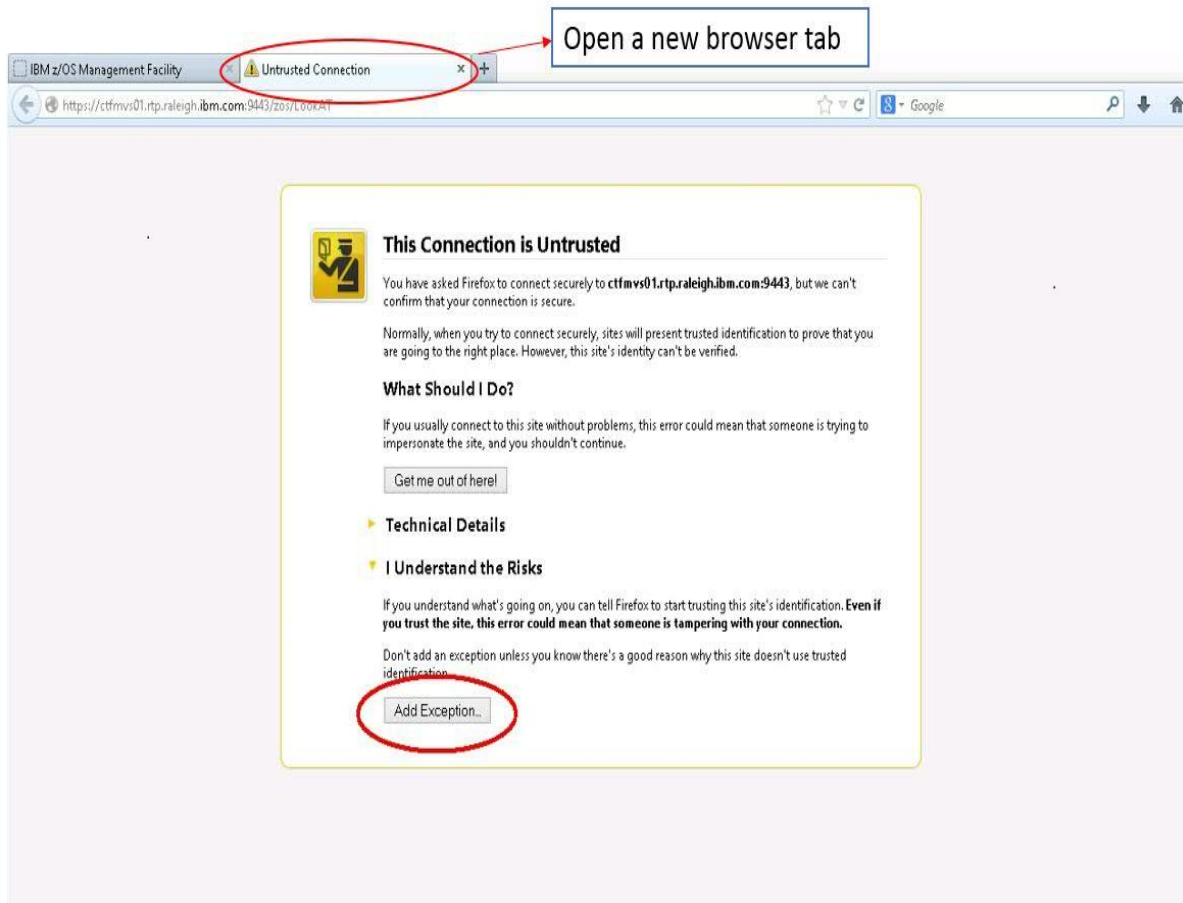
Feb 27 18:40:24 S1      STC13027      ICH70006I USERID (IBMUSER ) ASSOCIATED WITH PROCEDURE (SMFDMP29) HAS
224
                BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE
                PROCEDURE CONTINUES.
Feb 27 18:40:24 S1      STC13027      IEF695I START SMFDMP29 WITH JOBNAME SMFDS1  IS ASSIGNED TO USER
IBMUSER , GROUP
SYS1
Feb 27 18:40:24 S1      STC13027      $HASP373 SMFDS1  STARTED
Feb 27 18:40:24 S1      STC13027      IEF403I SMFDS1 - STARTED - TIME=18.40.24
Feb 27 18:40:36 S1      STC13027      -                                --TIMINGS (MINS.)--

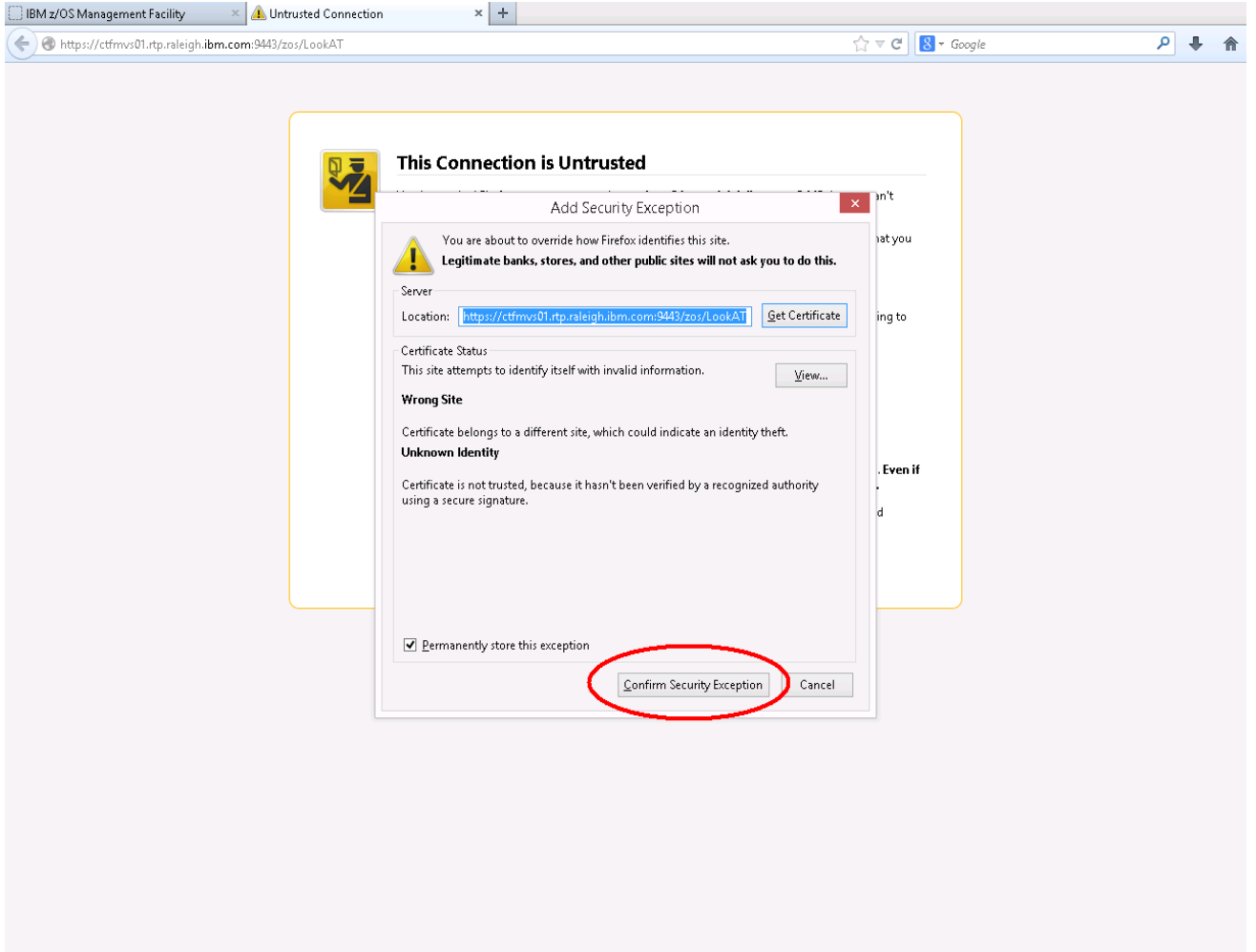
----PAGING COUNTS---
-JOBNAME  STEPNAME  PROCSTEP   RC   EXCP   CPU   SRB  CLOCK  SERV
PG  PAGE
SWAP  VIO SWAPS
Feb 27 18:40:36 S1      STC13027      -SMFDS1  SMFDMP  SMFDS1    0000  37302   .00   .00   .2  33011
0      0      0      0
Feb 27 18:40:36 S1      STC13027      ESL01 SMFDS1  SMFDMP  SMFDS1    ESLSMFDP  IBMUSER  0000
Feb 27 18:40:36 S1      STC13027      -SMFDS1  LOGSTEP  SMFDS1  FLUSH     0      .00   .00   .0   0
0      0      0      0
Feb 27 18:40:36 S1      STC13027      ESL01 SMFDS1  LOGSTEP  SMFDS1    IKJEFT01  IBMUSER  FLUSH
Feb 27 18:40:37 S1      STC13027      -SMFDS1  CLEANUP  SMFDS1    0000     63   .00   .00   .0  496
    
```

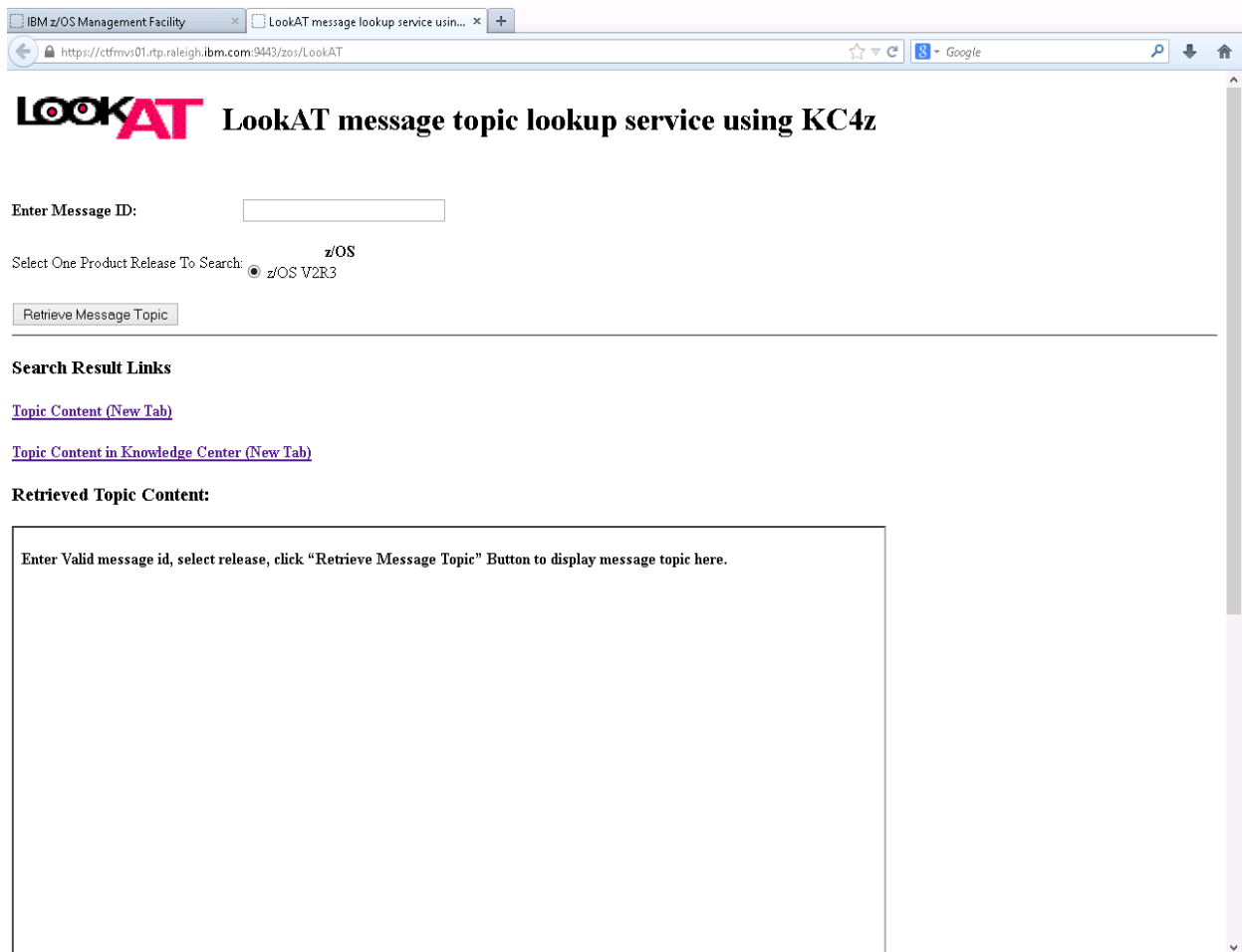
Command:

12. Display message help

Step 12a: The Message Lookup REST API of KC4z will be invoked to retrieve the message help, the KC4Z server for this lab is at <https://ctfmvs01.rtp.raleigh.ibm.com:9443/zos/LookAT>. Visit this server with a new browser tab first before continuing. Add exception for certificate.







Step 12b: Go back to IBM z/OSMF Management Facility browser tab

IBM z/OS Management Facility

Welcome shara16

z/OS Operator Consoles

Overview Console for S1

Console for S1

Time	Session	Job Name	Message
Mar 05 03:18:41	S1	HZSPROC	DFHH0001E The CEDA transaction is accessible to unauthenticated users. HZS0001I CHECK(IBMUS,US\$PARMLIB): DFHH0002E The spool is accessible to unauthenticated users.
Mar 05 03:19:34	S1	BPXAS	ESL02 BPXAS IEFPROC BPXAS IEFIIC STCUSR 0000
Mar 05 03:19:34	S1	BPXAS	ESL02 BPXAS IEFPROC BPXAS IEFIIC STCUSR 0000
Mar 05 03:27:21	S1	AXR04	ICH408I USER(CJOEY) GROUP(SHARPROG) NAME(XIAO ZHEN(JOEY) ZHU) ZEVENT.SHARELAB.SAXREXEC CL(DATASET) VOL(SHTSO3) INSUFFICIENT ACCESS AUTHORITY FROM ZEVENT.SHARELAB.** (G) ACCESS INTENT(READ) ACCESS ALLOWED(NONE)
Mar 05 03:27:21	S1	CFZCIM1	CEZ05000E: Internal error detected in provider module IBMzOS_DiagData4 Incident when method assoc_create_incident_associator(): invoked system service CEAGetIncidentCollection. The service returned RC=-1 RSN=0x0359. Additional diagnostic information: CEAERRO_Diag1=0x050310 07 CEAERRO_Diag2=0x00000064 CEAERRO_Diag3=0x00000913 CEAERRO_Diag4=0x0 0000038 CEAERRO_Msg=""
Mar 05 03:27:40	S1	HZSPROC	HZS0001I CHECK(IBMUS,US\$PARMLIB): BPXH040E One or more differences were found between the system settings and the settings in the current BPXPRMxx parmlib members.
Mar 05 03:37:20	S1	SMF	IEFU2900 THE ESLNU29 EXIT HAS ISSUED A START SMFDMP29 CMD
Mar 05 03:37:20	S1	SMF	IEE388I SMF NOW RECORDING ON VOLSER UNQ51B, DSN=SYS1.S1.MANY TIME= 03.37.20
Mar 05 03:37:20	S1	SMFDS1	ICH70006I USERID (IBMUSER) ASSOCIATED WITH PROCEDURE (*UNKNOWN) HAS BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE PROCEDURE CONTINUES.
Mar 05 03:37:20	S1	SMFDS1	ICH70006I USERID (IBMUSER) ASSOCIATED WITH PROCEDURE (SMFDMP29) HAS BEEN REVOKED FROM THE SYSTEM; VERIFICATION FOR THE

Command:

Step 12c: Input "D PARMLIB" into the textbox of command, click 'Submit' button or press Enter, the command return messages will be displayed into console windows

The screenshot shows the 'z/OS Operator Consoles' application window. The 'Console for S1' tab is active, displaying a list of system messages. The messages include time, console name (S1), job name, and the text of the messages. The messages are as follows:

```

Feb 28 01:06:36 S1      BPXAS      ESL02 BPXAS      IEFPROC  BPXAS      IEFIC      STCUSR      0000
Feb 28 01:06:56 S1      BPXAS      ESL02 BPXAS      IEFPROC  BPXAS      IEFIC      STCUSR      0000
Feb 28 01:07:41 S1      HZSPROC    HZS0001I CHECK(IBMUSS,USS_PARMLIB):
                    BPXH040E One or more differences were found between the system
                    settings
                    and the settings in the current BPXPRMxx parmlib members.
Feb 28 01:08:38 S1      HZSPROC    HZS0002E CHECK(IBM CNZ,CNZ_SYSCONS_PD_MODE):
                    CNZHF0010E System console S1 is running in Problem Determination
                    mode.
Feb 28 01:08:40 S1      HZSPROC    *HZS0003E CHECK(IBM XCF,XCF_CDS_SPOF):
                    IXCH0242E One or more couple data sets have a single point of failure
Feb 28 01:08:40 S1      HZSPROC    HZS0002E CHECK(IBM XCF,XCF_CF_CONNECTIVITY):
                    IXCH0446E System S1 has only one online operational channel
                    path to coupling facility CF06.
Feb 28 01:08:43 S1      HZSPROC    HZS0002E CHECK(IBM XCF,XCF_CF_SYSPLEX_CONNECTIVITY):
                    IXCH0220E The number of coupling facilities available to all active
                    systems in the sysplex does not meet the required minimum.

D PARMLIB
Feb 28 01:10:16 S1      IEE251I 01.10.16 PARMLIB DISPLAY 319
                    PARMLIB DATA SETS SPECIFIED
                    AT IPL
                    ENTRY  FLAGS  VOLUME  DATA SET
                    1       S      SHR001  SHARE.PARMLIB
                    2       S      SHRESA  SYS1.PARMLIB.INSTALL
                    3       D      SHRESA  SYS1.PARMLIB
    
```

At the bottom of the console window, there is a 'Command:' section with a text input field containing 'Select or type' and a 'Submit' button.

Step 12d: Hover on message id IEE251I, quickly get the message help.

The screenshot shows the 'z/OS Operator Consoles' interface. The main console window displays a log of system messages. A message with ID 'IEE251I' is highlighted with a red box. A tooltip popup is displayed over this message, providing detailed information about the error.

Console Log:

```
Feb 28 01:08:40 S1 HZSPROC
Feb 28 01:08:43 S1 HZSPROC
Feb 28 01:09:30
Feb 28 01:09:31 S1
Feb 28 01:10:15
Feb 28 01:10:16 S1
Feb 28 01:11:00 S1 MFASRV00
```

Message IEE251I:

```
IEE251I 01.10.16 PARMLIB DISPLAY 319
PARMLIB DATA SETS SPECIFIED
AT IPL
ENTRY  FLAGS  VOLUME  DATA SET
1      S      SHR001  SHARE.PARMLIB
2      S      SHRESA  SYS1.PARMLIB.INSTALL
3      D      SHRESA  SYS1.PARMLIB
```

Message Help Popup:

IEE251I hh.mm.ss PARMLIB DISPLAY | PARMLIB, ERROR[text

Explanation

Where text is:

PARMLIB DATA SETS SPECIFIED [error]
[AT IPL | AT hr.mm.ss ON mm/dd/yyyy]
[LOADxx DATA SET = dsname |
PARMLIB CONCATENATION VOLUME=vol | CATALOG]

ENTRY	FLAGS	VOLUME	DATA SET
nn	f	parmvl	parmsdn
?	?	?	?
X	D	defvol	SYS1.PARMLIB

* [NO ERRORS IN PARMLIB CONCATENATION]
* [MASTER PROCESSING USING THE FOLLOWING PARMLIBS]

ENTRY FLAGS VOLUME DATA SET

13. Stop console

Step 13a: Click on "x" on Console for S1 tab, to close this tab

The screenshot shows the 'z/OS Operator Consoles' interface. At the top, there are two tabs: 'Welcome x' and 'z/OS Operator C... x'. Below this, the main area is titled 'z/OS Operator Consoles' with a 'Help' link on the right. Underneath, there are two sub-tabs: 'Overview' and 'Console for S1 x'. The 'Console for S1' tab is selected and has a red circle around its close button. The console window displays a list of messages with columns for time, console name, and user. The messages include system checks, job status, and an error message.

Time	Console Name	User	Message
Mar 05 03:18:41	S1	HZSPROC	HZS0001I CHECK(IBMCIICS,CICS_CEDA_ACCESS): DFHH0001E The CEDA transaction is accessible to unauthenticated users
Mar 05 03:18:41	S1	HZSPROC	HZS0001I CHECK(IBMCIICS,CICS_JOBSUB_SPOOL): DFHH0002E The spool is accessible to unauthenticated users.
Mar 05 03:19:34	S1	BPXAS	ESL02 BPXAS IEFPROC BPXAS IEFPIIC STCUSR 0000
Mar 05 03:19:34	S1	BPXAS	ESL02 BPXAS IEFPROC BPXAS IEFPIIC STCUSR 0000
Mar 05 03:25:04			D C,HARDCOPY
Mar 05 03:25:05	S1		CNZ4100I 03.25.05 CONSOLE DISPLAY 929 CONSOLES MATCHING COMMAND: D C,HARDCOPY MSG:CURR=0 LIM=9000 RPLY:CURR=0 LIM=200 SYS=S1 PFK=00 HARDCOPY LOG=(SYSLOG) CMDLEVEL=CMDS ROUT=(ALL) LOG BUFFERS IN USE: 0 LOG BUFFER LIMIT: 1000
Mar 05 03:27:21	S1	AXR04	ICH408I USER(CJOEY) GROUP(SHARPROG) NAME(XIAO ZHEN(JOEY) ZHU) ZEVENT.SHARELAB.SAXREXEC CL(DATASET) VOL(SHTSO3) INSUFFICIENT ACCESS AUTHORITY FROM ZEVENT.SHARELAB.** (G) ACCESS INTENT(READ) ACCESS ALLOWED(NONE)
Mar 05 03:27:21	S1	CFZCIM1	CEZ05000E: Internal error detected in provider module IBMzOS_DiagData4 Incident when method assoc_create_incident_associator(): invoked system service CEAGetIncidentCollection. The service returned RC=-1 RSN=0x0359. Additional diagnostic information: CEAEERRO_Diag1=0x05031 07 CEAEERRO_Diag2=0x00000064 CEAEERRO_Diag3=0x00000913 CEAEERRO_Diag4=0x 0000038 CEAEERRO_Msg=""

At the bottom of the console window, there is a 'Command:' field with a dropdown menu containing 'Select or type' and a 'Submit' button.

Step 13b: Right click on S1 row in Overall tab, select Stop console

Welcome x z/OS Operator C... x

z/OS Operator Consoles Help

Overview Console for S1 x

Actions ▾

↔ No filter applied

<input type="checkbox"/> Sysplex or System Filter	Status Filter	Console summary view
<input type="checkbox"/> SHARPLEX (Local Plex)	Setup Required	
<input checked="" type="checkbox"/> S1	Connected	

- Start console
- Complete setup
- Stop console**
- Resume console
- Delete
- Change setup
- Lock console
- Configure message help

Total: 2 Selected: 1

Refresh Last refresh: Mar 5, 2018, 3:25:16 PM local time (Mar 5, 2018, 7:25:16 AM GMT)

Step 13c: The status of S1 is Setup complete



Welcome x z/OS Operator C... x

z/OS Operator Consoles Help

Overview

Actions ▾

↔ No filter applied

<input type="checkbox"/>	Sysplex or System Filter	Status Filter	Console summary view
<input type="checkbox"/>	SHARPLEX (Local Plex)	 Setup Required	
<input checked="" type="checkbox"/>	S1	 Setup Complete	

Total: 2 Selected: 1

Last refresh: Feb 27, 2018, 2:25:58 PM local time (Feb 27, 2018, 6:25:58 AM GMT)

End of exercise

Exercise Review and Wrap-Up

You now know how to:

- Log on to z/OSMF
- Complete Setup for one system or a sysplex
- Start console and open console panel
- View system messages for a system or a sysplex
- Message bar and message association
- Hide/Show summary view
- Enter system commands
- Lock/Resume console
- Search with keywords
- Filter with some conditions
- Retrieve historic messages from SYSLOG
- Display message help
- Stop Console

Exercise instructions

Here are the steps you will perform in this lab:

- ___ 1. Logon to z/OSMF
 - ___ a. Launch the Mozilla Firefox browser
 - ___ b. Point Browser to z/OSMF – enter the following URL
https://mvs1.centers.ihost.com/zosmf/
 - ___ c. Enter the User ID (SHARAnn, SHARBnn, or SHARCnn) and password assigned to your workstation.
- ___ 2. Complete setup
 - ___ a. Expand the Consoles Category in the Left Navigation Tree
 - ___ b. Click on z/OS Operator Consoles
 - ___ c. Select S1
 - ___ d. Click Actions → Complete setup
 - ___ e. Keep the default value of EMCS console name(rannS1), click Setup Complete button directly
 - ___ f. The status of S1 is Setup Complete
- ___ 3. Start Console, and open console panel
 - ___ a. Select S1, click Actions-> Start Console
 - ___ b. The status of S1 is Connected and S1 is clickable
 - ___ c. Click S1, the console for S1 will be opened as a new tab
- ___ 4. View system messages for a system or a sysplex
 - ___ a. The console messages will be displayed in the Console Windows, you might not see the messages which is shown in screen shot until some messages are issued
 - ___ b. The message bars will be displayed in console summary view
- ___ 5. Message bar and message association
 - ___ a. Click a specific message bar and the first console message belongs to this message bar will be displayed on the top of the Console Window.
 - ___ b. Click on the data and time portion of the message that appears in the Console Window, the message bar to which the specific message belongs to will be highlighted in the console summary view
- ___ 6. Hide/Show summary view
 - ___ a. Click Hide summary view, the console summary view will be hidden
 - ___ b. Click Show summary view, the console summary view will be displayed
- ___ 7. Enter system commands
 - ___ a. Input “D PARMLIB” into the textbox of command, click 'Submit' button or press Enter, the command return messages will be displayed into console windows
 - ___ b. Input “D A,L” into the textbox of command, click 'Submit' button or press Enter, the command return messages will be displayed into console windows

-
- ___ c. Enter system command "D P" again which will display the command history "D PARMLIB"
 - ___ 8. Lock/Resume console
 - ___ a. Click Lock console icon, the console for S1 will be locked, no new messages will be retrieved
 - ___ b. Click Unlock console icon, the console for S1 will continue to retrieve the new messages.
 - ___ 9. Search with keywords
 - ___ a. Input "D PARMLIB"(Case sensitive) into the textbox of search, click Search down icon, the "D PARMLIB" will be highlighted, and the console for S1 will be locked(Submited additional "D PARMLIB " 2 times before run this step, then 3 matches will be found)
 - ___ b. Click Search down icon again, 2 of 3 matches will be displayed. Click Highlight all, all of "D PARMLIB" will be highlighted
 - ___ c. Click Clear all icon, all highlighted will be removed, and Console for S1 will be resumed
 - ___ 10. Filter with some conditions
 - ___ a. Click Filter icon, the console for S1 will be locked
 - ___ b. Input "PARMLIB"(Case sensitive) into the textbox of message content, click Apply button, the messages will be displayed these contain "PARMLIB"
 - ___ c. Click Clear button, all messages will be displayed
 - ___ d. Click Hide filter icon, the console for S1 will be resumed and Filter dialog will disappear.
 - ___ 11. Retrieve historic messages from SYSLOG
 - ___ a. Click Retrieve earlier messages from SYSLOG icon, 200 historic messages will be displayed above the black line
 - ___ b. 200 historic messages will be appended for each clicking this icon
 - ___ 12. Display message help
 - ___ a. The Message Lookup REST API of KC4z will be invoked to retrieve the message help, the KC4Z server is <https://ctfmvs01.rtp.raleigh.ibm.com:9443/zos/LookAT>, user need to visit this server with a new browser tab, add exception for certificate
 - ___ b. Go back to IBM z/OSMF Management Facility browser tab
 - ___ c. Input "D PARMLIB" into the textbox of command, click 'Submit' button or press Enter, the command return messages will be displayed into console windows
 - ___ d. Hover on message id IEE251I, quickly get the message help
 - ___ 13. Stop console
 - ___ a. Click on "x" on Console for S1 tab, to close this tab
 - ___ b. Right click on S1 row in Overall tab, select Stop console
 - ___ c. The status of S1 is Setup complete

