



Hands-On Lab

Exploring the new z/OSMF Desktop UI

Abstract:

IBM z/OS Management Facility (z/OSMF) provides a web-based graphical user interface (UI) for working with z/OS. In this hand-on lab, you will explore the new desktop style UI of z/OSMF, which offers advantages over the earlier, classic style UI.

This session will be useful to systems programmers and their managers who will be using or are considering using z/OSMF.

Introduction: A new look and feel for z/OSMF

After ten years of continuous development, the z/OSMF user interface (UI) is showing its age. The current UI, with its navigation tree, tabs, and tables, is still quite functional, but it has some notable limitations. For example, the current UI limits you to running one z/OSMF task at a time. Also, it constrains the size of each task work area---the place where you do your z/OS work---which can make it a chore to enter commands and data.

Is it time for a change? We think so. With the installation of APAR PH16076 and the subsequent enhancements on your system, z/OSMF now offers a new, desktop-style UI as a user-selectable option. Since z/OS V2R5, desktop-style UI is the only supported UI for z/OSMF.

With this new UI comes a new way of interacting with z/OSMF, which is more consistent with other computing platforms. The changes include:

- Much larger work area with icons to represent the z/OSMF tasks and folders.
- Task bar that helps you access z/OSMF tasks quickly.

Your experience is further enhanced through the following improvements:

- Support for a mix of new and existing applications.
- Multi-tasking capabilities for viewing and running multiple tasks at once.
- Ability to:
 - Resize the workspace of a particular task within the UI.
 - Create customized groupings of z/OSMF tasks in user-named folders.
 - Save links from the Links task as icons on the desktop.
 - Search, browse and edit data sets, Unix directory and Unix files.
 - Create shortcut for data set, UNIX files on the desktop.
 - Submit data set or data set member as JCL
 - View job output for your jobs
 - Create new data set or USS file
 - Compare dataset and USS file

We think that you will find the new desktop UI to be faster and more friendly to use than the earlier, classic style UI.

z/OSMF Lab: Exploring the desktop style UI

In this lab, you will learn about the new desktop UI by completing the following activities:

1. Log in to z/OSMF.
2. Create new data set.
3. Create a new data set member.
4. Search data set and member.
5. Copy and rename data set member.
6. Compare and merge data set members
7. Browse USS path and edit USS file
8. Open referenced data sets in Editor
9. Create shortcut for data set or data set member

It is recommended that you perform these activities in the order listed. As you become more familiar with the desktop UI, you will become adept at accessing the particular tasks that you require.

As with the other labs in this session, the lab teams share access to the same z/OS system. Each team is given a unique z/OS user ID to use for the exercises. To avoid confusion, use only the user ID that is assigned to your team.

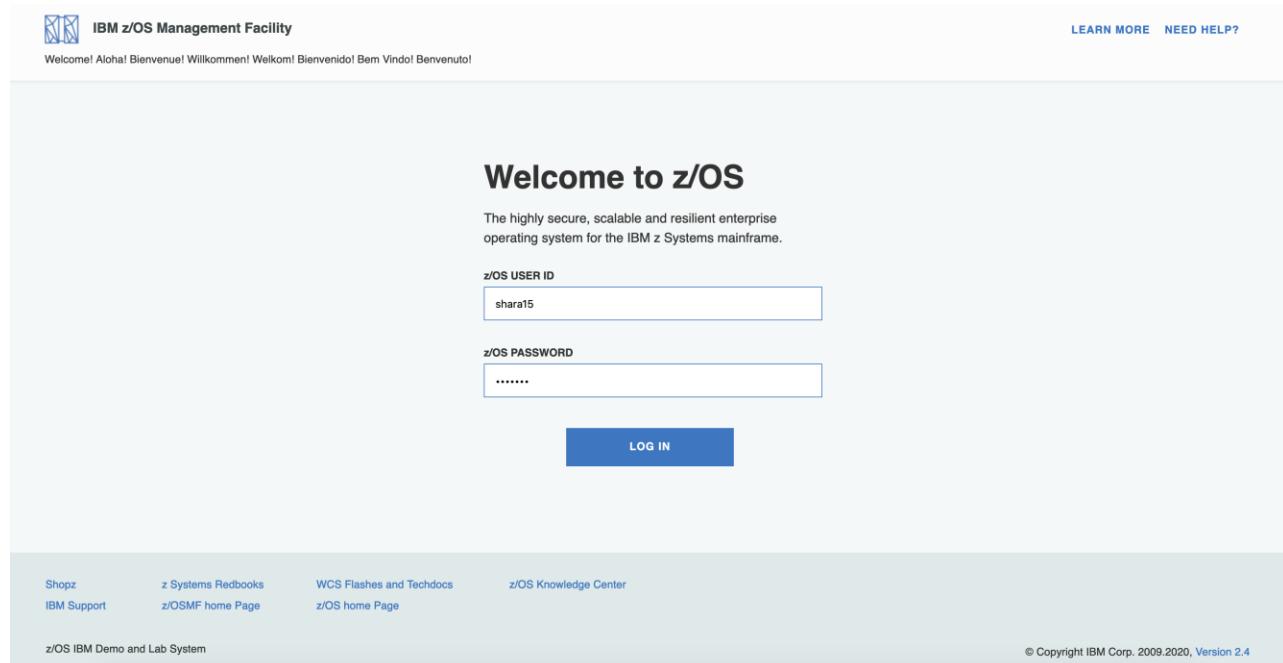
Notes:

1. The screen captures in this handout show the use of different user IDs. Your browser session will use the user ID that was assigned to your lab team.

1. Log in to z/OSMF

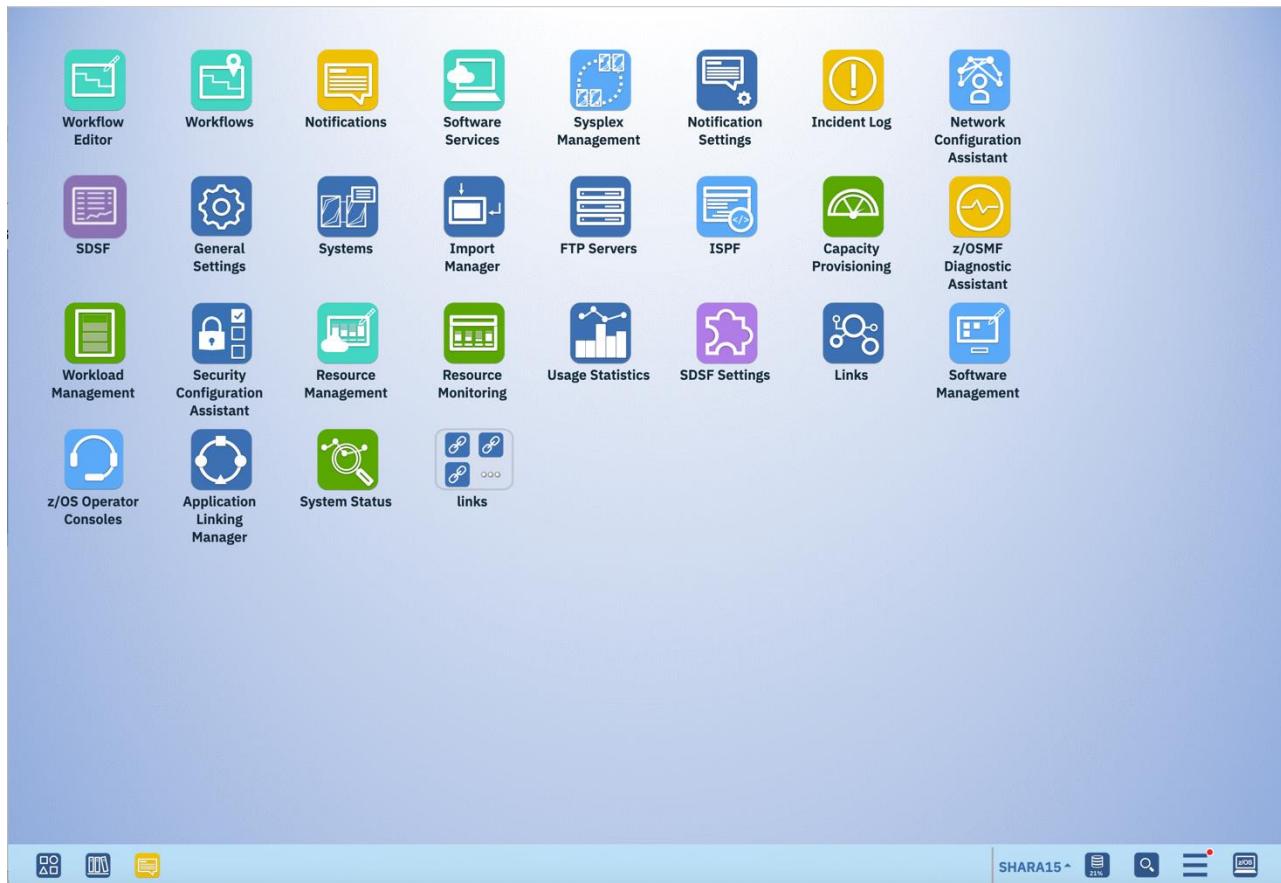
- Launch browser from your workstation
- Point browser to z/OSMF – enter the following url
<https://share.centers.ihost.com/zosmf>
- Login with SHARE userid/pw as provided by the lab instructor
 - Each workstation has been assigned a unique z/OS user id

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



The screenshot shows the IBM z/OS Management Facility login interface. At the top left is the IBM logo and the text "IBM z/OS Management Facility". At the top right are links for "LEARN MORE" and "NEED HELP?". Below the header, a welcome message in multiple languages (Aloha! Bienvenue! Willkommen! Welkom! Bienvenido! Bem Vindo! Benvenuto!) is displayed. The main section is titled "Welcome to z/OS" with a subtitle: "The highly secure, scalable and resilient enterprise operating system for the IBM z Systems mainframe." It features two input fields: "z/OS USER ID" containing "shara15" and "z/OS PASSWORD" containing several dots. A blue "LOG IN" button is centered below the password field. At the bottom of the page, there is a footer with links: "Shopz", "z Systems Redbooks", "WCS Flashes and Techdocs", "z/OS Knowledge Center", "IBM Support", "z/OSMF home Page", "z/OS home Page", and "z/OS IBM Demo and Lab System". The copyright notice "© Copyright IBM Corp. 2009.2020, Version 2.4" is also present.

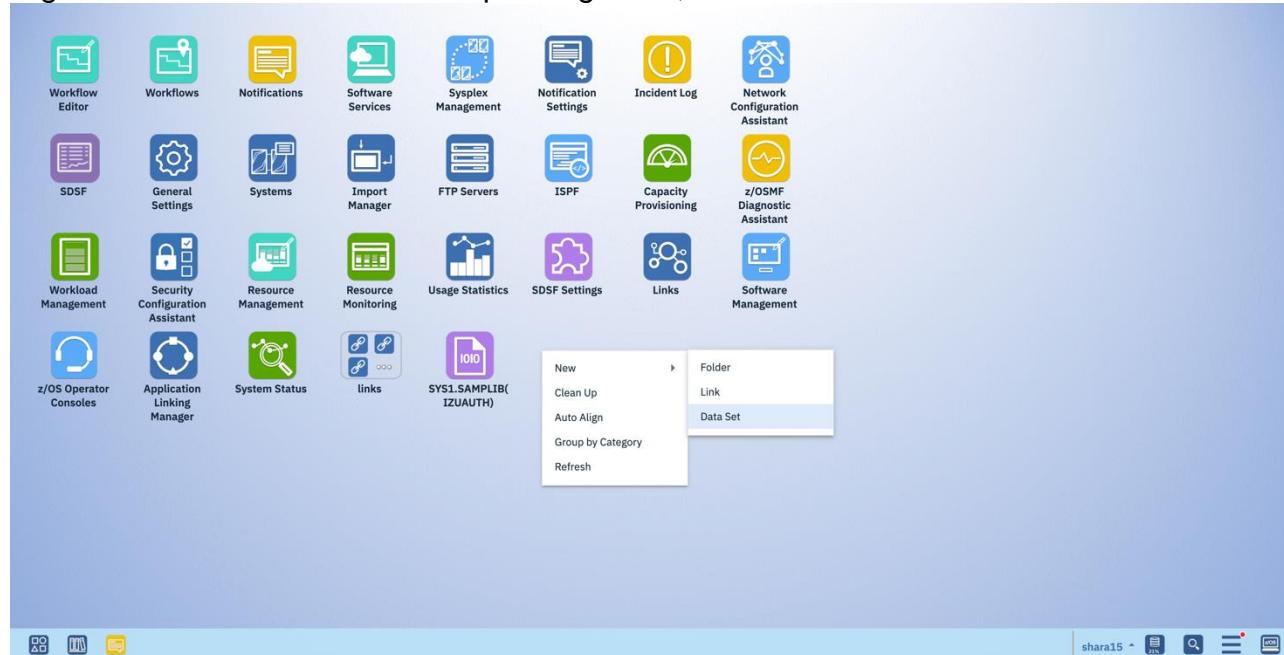
Since V2R4, z/OSMF lands in desktop UI by default.



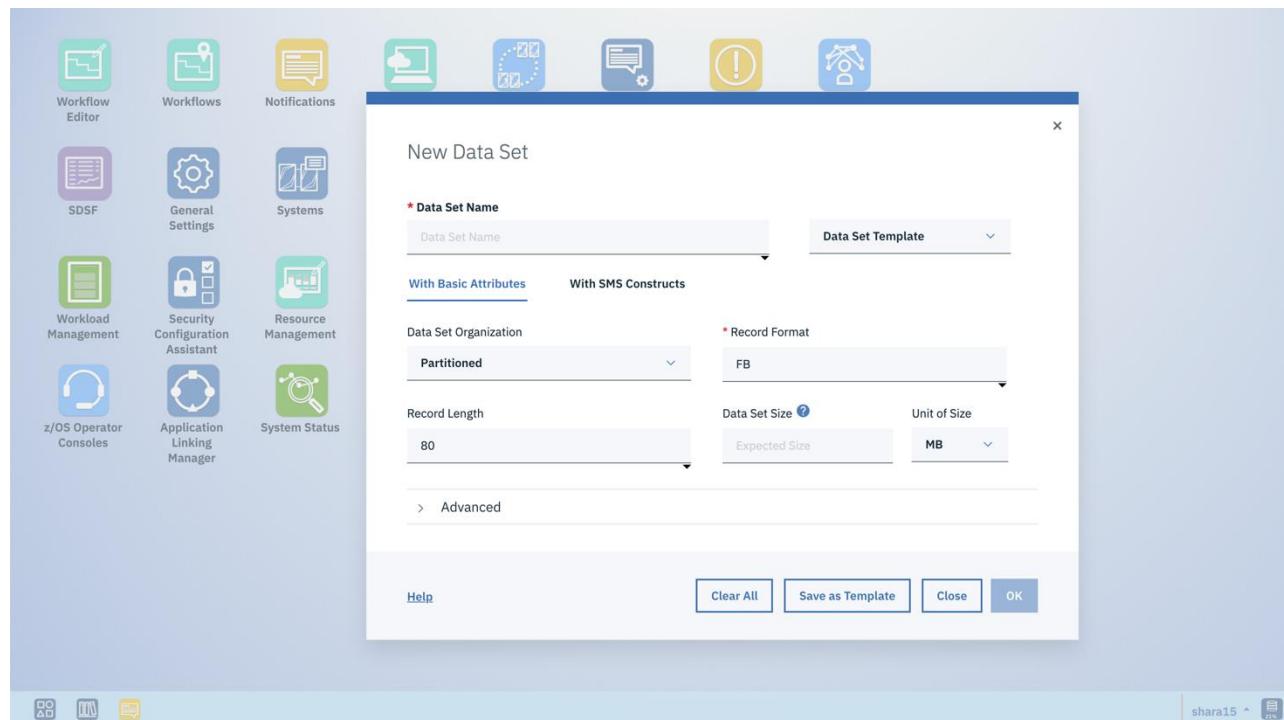
2. Create new data set

Step 2a. Open the dialog of Create new data set

Right click on the z/OSMF desktop background, and select New→Data set menu.

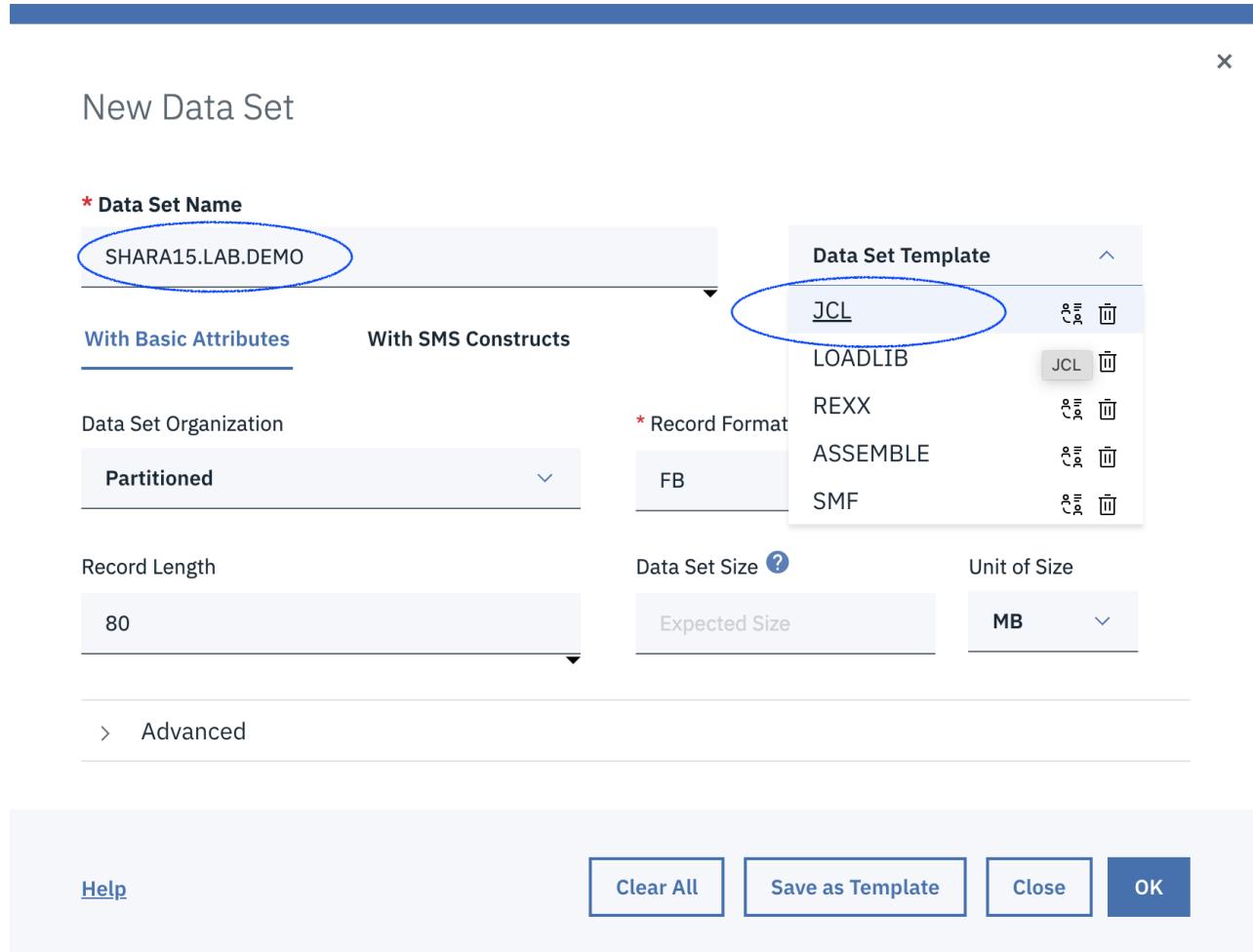


The “New Data Set” dialog will be popped up.



Step 2b. Create a PDS/E dataset with pre-defined template for JCL data set

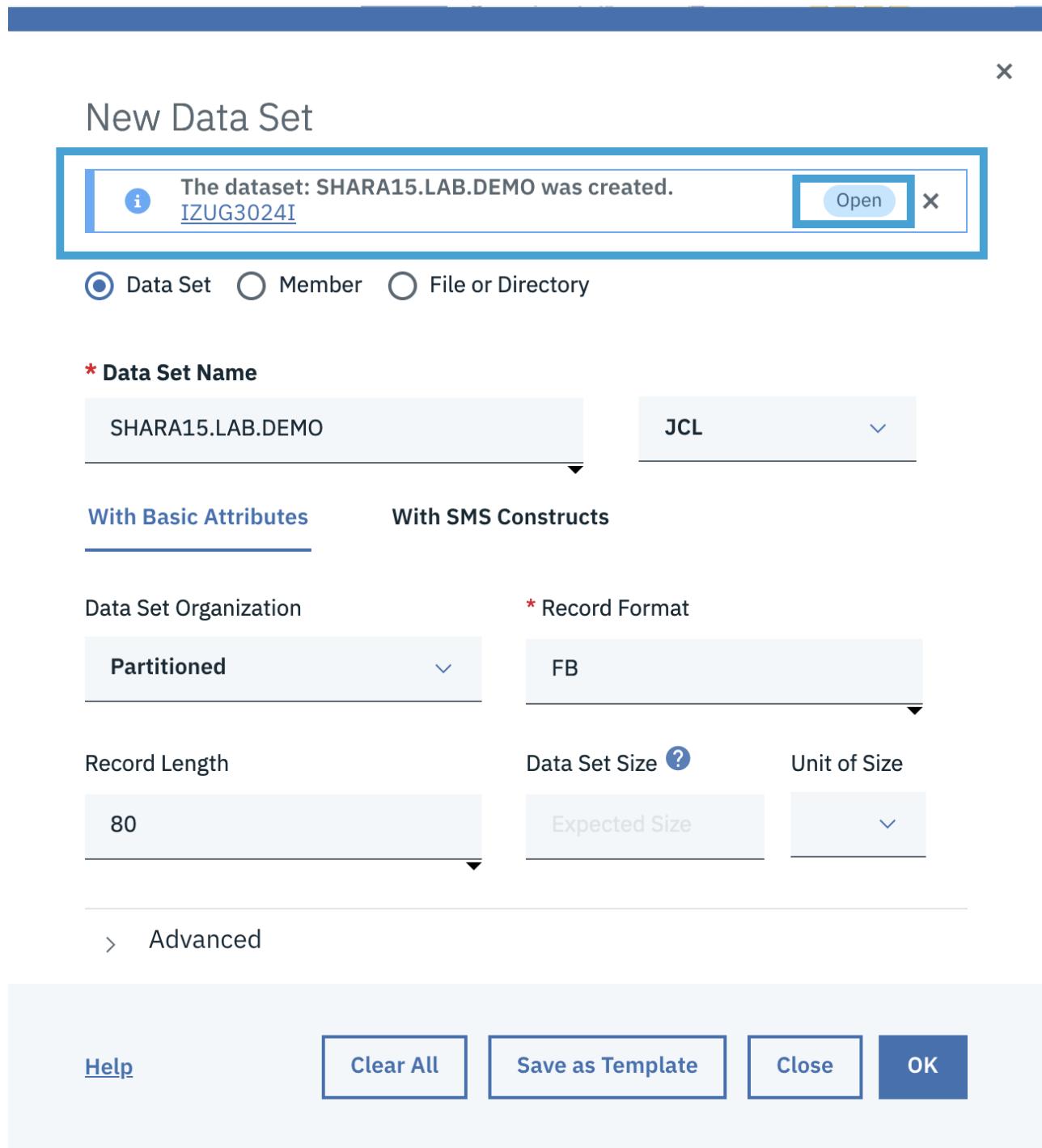
In the dialog of “New Data Set”, enter data set name <userid>.LAB.DEMO in which <userid> should be replaced by your current logon user id, such as SHARA15. Then select “JCL” template in the “Data Set Template” drop down list.



Click on OK button, the data set will be created and a new message will be displayed on the top of the dialog to indicate the successful creation of the new data set.

Step 2c. Open the created data set

In the popped up message, click the Open button in the message to directly access the data set just created.



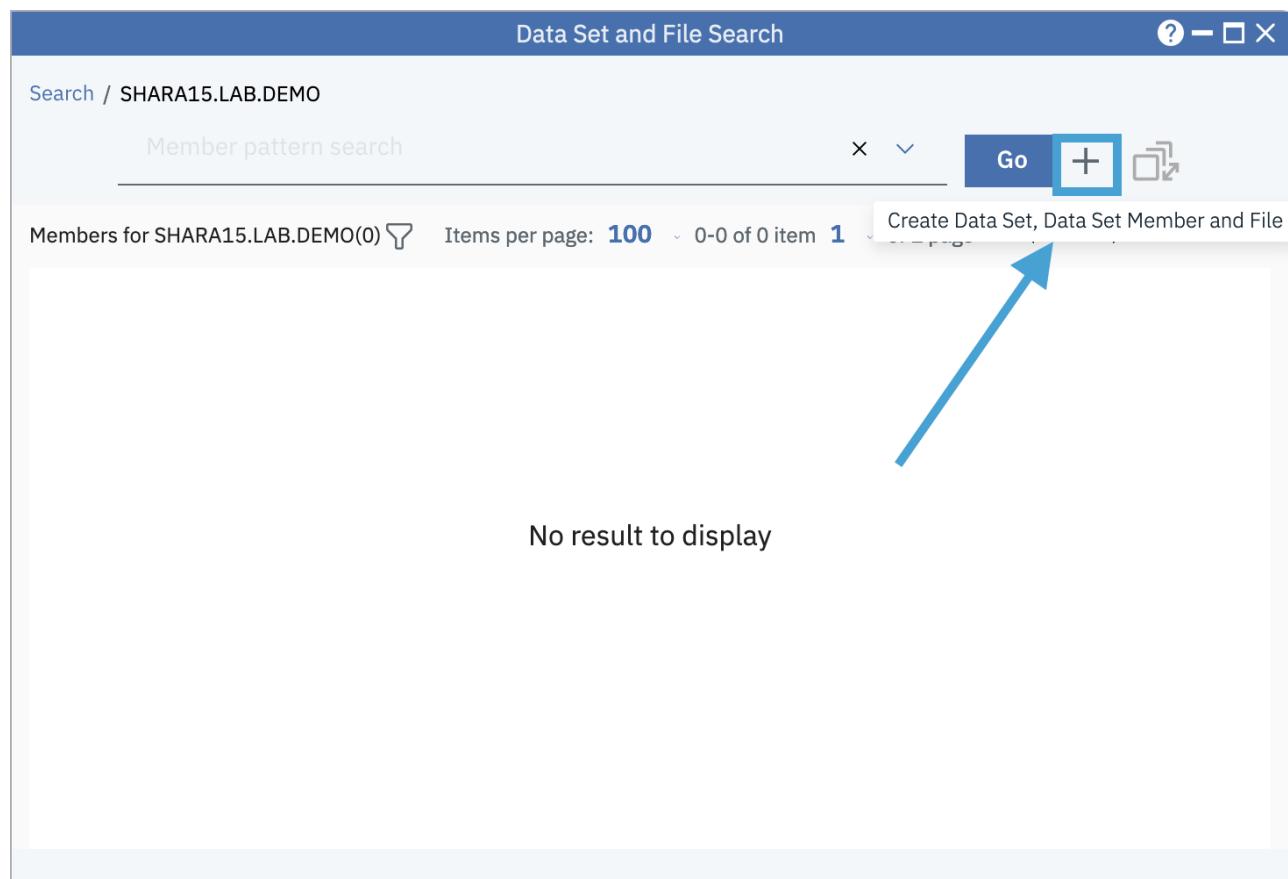
The panel will display member list of this data set. Since it's just created, there is no member displayed in the dialog.

A screenshot of the 'Data Set and File Search' application window. The title bar reads 'Data Set and File Search'. The main area shows a search bar with 'Search / SHARA15.LAB.DEMO' and a 'Member pattern search' input field. Below the search bar, the text 'Members for SHARA15.LAB.DEMO(0)' is displayed, along with a dropdown menu icon and the message 'Items per page: 100'. The status bar at the bottom shows '0-0 of 0 item 1 of 1 page'. In the center of the main area, the text 'No result to display' is visible. The window has standard operating system window controls (minimize, maximize, close) in the top right corner.

3. Create a new data set member

Step 3a. Open New Member dialog

Click the + icon like below to open the New Member dialog.



A new dialog is opened and the current data set name is populated.

New Member

* Data Set Name

SHARA15.LAB.DEMO

* Member Name

Member Name

Volume

Volume

[Help](#)

[Close](#) [OK](#)

The screenshot shows a 'New Member' dialog box. The title bar is blue with the text 'New Member'. There is a close button 'X' in the top right corner. The main area contains two input fields: one for 'Data Set Name' containing 'SHARA15.LAB.DEMO' and one for 'Member Name' with a placeholder 'Member Name'. Below these are two more input fields, both labeled 'Volume'. At the bottom of the dialog are three buttons: 'Help' (underlined), 'Close', and 'OK'.

Step 3b. Create a new member

Input TEST as the Member Name value, then click OK.

×

New Member

*** Data Set Name**

SHARA15.LAB.DEMO

*** Member Name**

TEST

Volume

Volume

[Help](#)

[Close](#)

OK

Step 3c. Check if the data set member is created successfully

Click Open in the message to open the data set member just created.



New Member



The member: TEST was created.
[IZUG3024I](#)

Open



* Data Set Name

SHARA15.LAB.DEMO

* Member Name

TEST

Volume

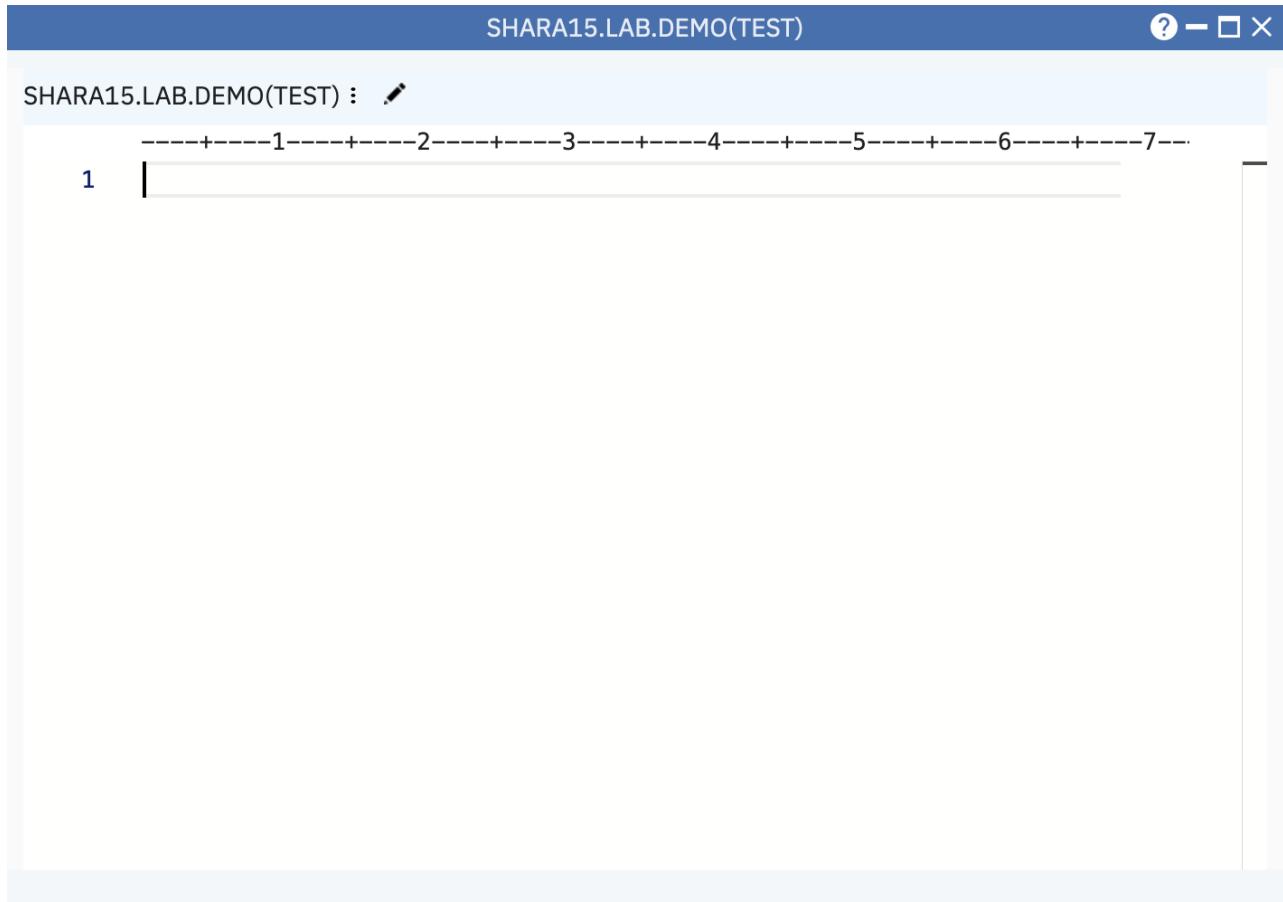
Volume

[Help](#)

Close

OK

Now, you will see the editor window of data set member “SHARA15.LAB.DEMO(TEST)”.

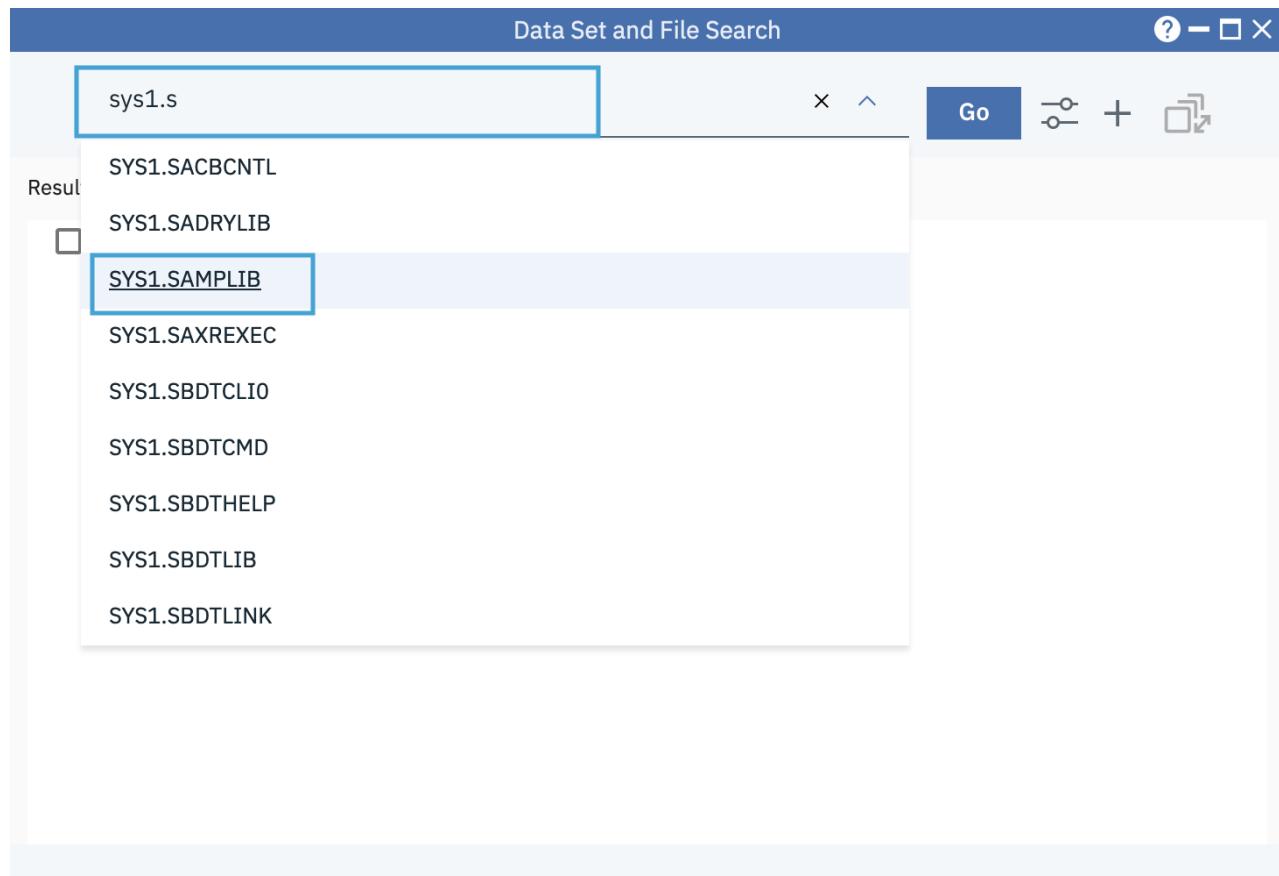


Let's close the Editor window for now.

4. Search data set and member

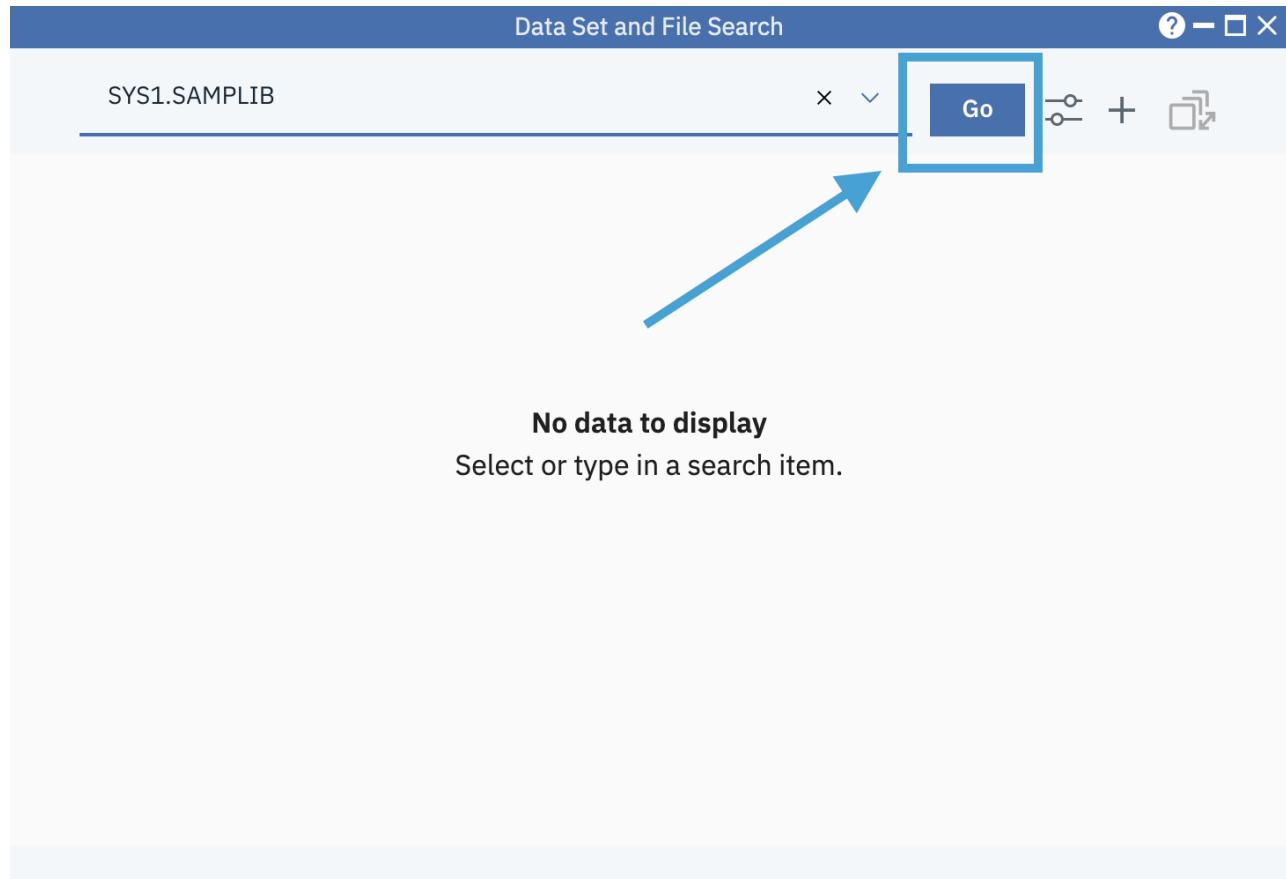
Step 4a. Search data set SYS1.SAMPLIB with type ahead search function

- Select the “Data Set and File Search” window
- Input sys1.s in the search box and pause for one second. You will see the drop down list which contains all the data set names match with “SYS1.S” you just entered.
- Use Up or Down arrow key in keyboard to scroll up and down in the drop down list.
- Select SYS1.SAMPLIB and hit enter.



Step 4b. List the data set SYS1.SAMPLIB

Click Go button or press Enter.



Step 4c. Open member list of data set SYS1.SAMPLIB

Click on the data set name to open it. Since SYS1.SAMPLIB is a PDS/E, the member list will be displayed.

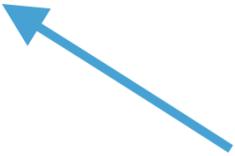
Data Set and File Search

SYS1.SAMPLIB

Go   

Results(1)  Items per page: 100 1-1 of 1 item 1 of 1 page  

SYS1.SAMPLIB



The screenshot shows the 'Data Set and File Search' interface. The title bar says 'Data Set and File Search'. The search bar contains 'Search / SYS1.SAMPLIB' and a 'Member pattern search' input field with a placeholder 'Member pattern search'. Below the search bar are buttons for 'Go', '+', and a filter icon. The main area displays a list of data set members: ADFDFLTX, ADFDOLDX, ADRDYXS1, AIRINJCL, AIRPROC, AIZBLK, AIZBLKE, ALLOC00, ANFDEAL ..., ANFGPWGU, ANFMIJCL, ANFQINIT, ANFUBLK, ANFUBTBL, ANFUBTBS, ANFULINK, and ANFUXBD1. The member 'AIRINJCL' is highlighted in blue. At the bottom, there are navigation buttons for items per page (100), page number (1), and total pages (14).

Step 4d. Use Filter to quickly locate data set member AIRINJCL

Click the Filter icon on the tool bar

Search / SYS1.SAMPLIB

Member pattern search x v

Members for SYS1.SAMPLIB(1344) Filter Items per page: **100** ▾ 1-100 of 1344 items **1** ▾ of 14 pages ▲ ▶

<input type="checkbox"/> ADFDFLTX
<input type="checkbox"/> ADFDOLDX
<input type="checkbox"/> ADRDYXS1
<input type="checkbox"/> AIRINJCL
<input type="checkbox"/> AIRPROC
<input type="checkbox"/> AIZBLK
<input type="checkbox"/> AIZBLKE
<input type="checkbox"/> ALLOC00
<input type="checkbox"/> ANFDEAL
<input type="checkbox"/> ANFGPWGU
<input type="checkbox"/> ANFMIJCL

Input keyword “JCL” in the Filter input box to quickly locate the member “AIRINJCL”.

Data Set and File Search

Search / SYS1.SAMPLIB

Member pattern search Go +

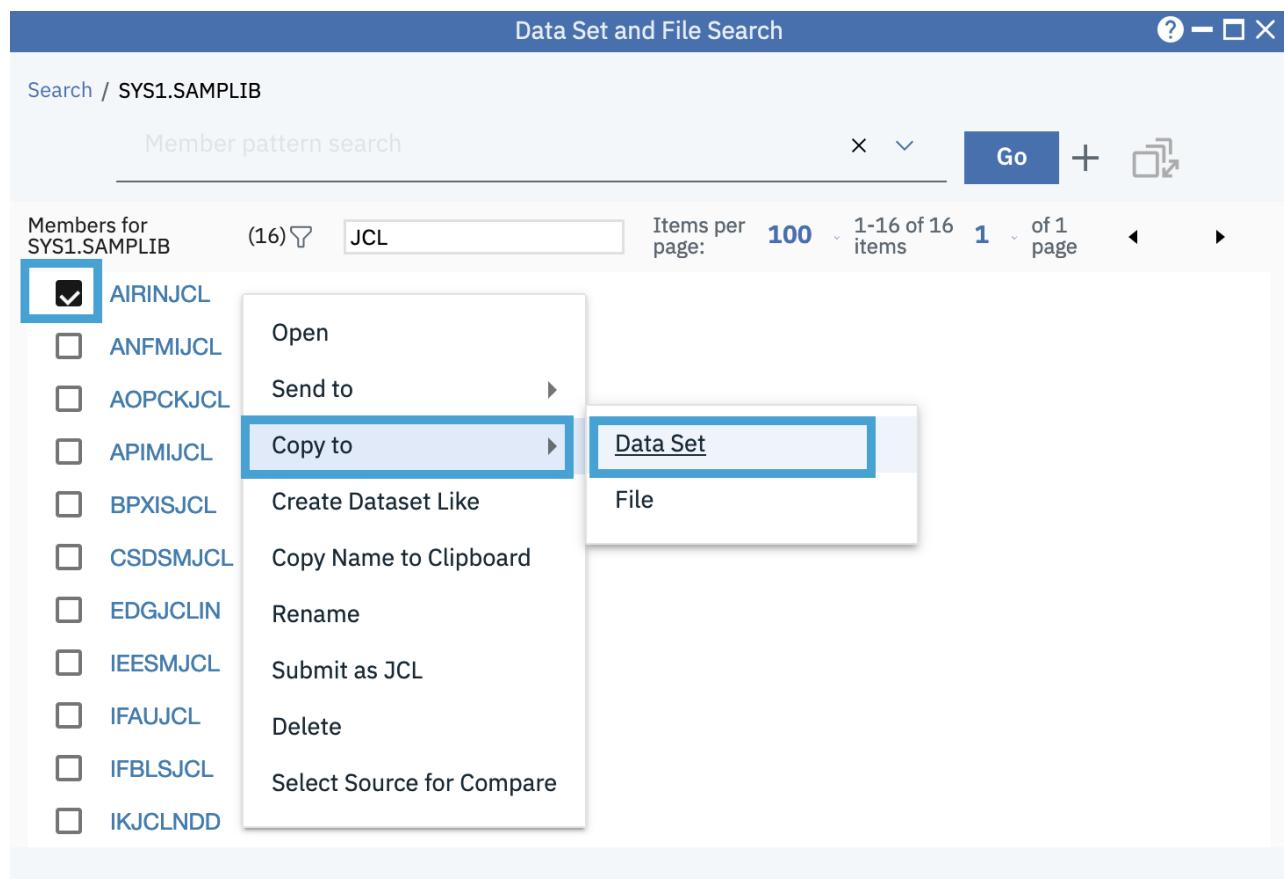
Members for SYS1.SAMPLIB (16) ▾ Items per page: 100 1-16 of 16 items 1 of 1 page

AIRINJCL
 ANFMIJCL
 AOPCKJCL
 APIMIJCL
 BPXISJCL
 CSDSMJCL
 EDGJCLIN
 IEESMJCL
 IFAUJCL
 IFBLSJCL
 IKJCLNDD

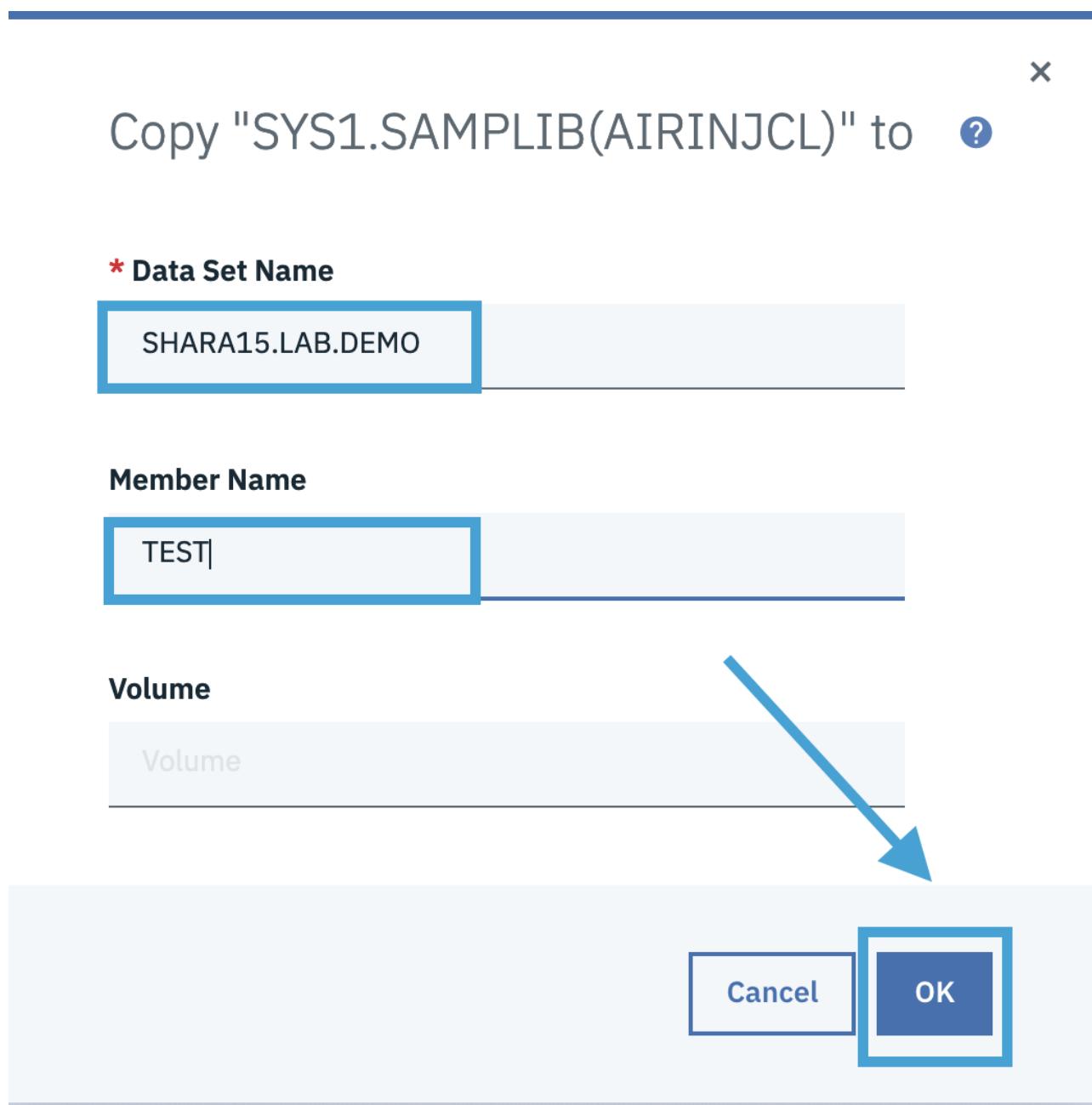
5. Copy and rename data set member

Step 5a. Copy data set member AIRINJCL from SYS1.SAMPLIB to SHARA15.LAB.DEMO

- Right click on the data set member AIRINJCL, then select Copy to → Data Set.



- Input <USERID>.LAB.DEMO and the Member Name as TEST. Then click OK button.



Step 5b. Check the result of Copy

Close the prior “Copy” dialog and switch back to “Data set and File Search” dialog like below. Enter “SHARA15.LAB.DEMO” in the input box and then hit Enter.

Data Set and File Search

SHARA15.LAB.DEMO

x v Go +

Results(1) Items per page: 100 1-1 of 1 item 1 of 1 page

SHARA15.LAB.DEMO

Click on the data set name “SHARA15.LAB.DEMO”, the member list will be opened.

Data Set and File Search

Search / SHARA15.LAB.DEMO

Member pattern search

x v Go +

Members for SHARA15.LAB.DEMO (1) Filter Items per page: 100 1-1 of 1 item 1 of 1 page

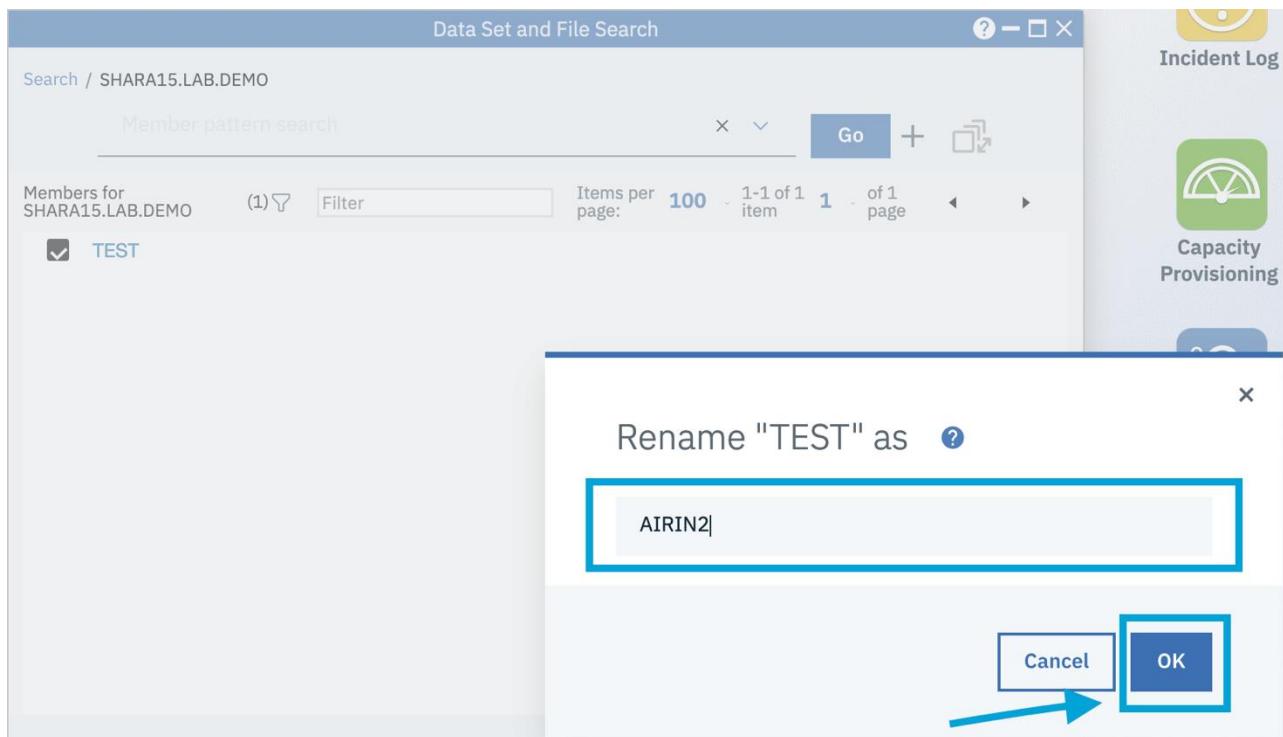
TEST

Step 5c. Rename the data set member SHARA15.LAB.DEMO(TEST)

- Right click on the member “TEST” and select “Rename”

The screenshot shows the "Data Set and File Search" interface with the search term "SHARA15.LAB.DEMO" entered. A context menu is open over the member "TEST". The menu items are: Open, Send to, Copy to, Create Dataset Like, Copy Name to Clipboard, Rename (which is highlighted with a blue selection bar), Submit as JCL, Delete, and Select Source for Compare.

The Rename dialog will be opened. Provide a new name “AIRIN2” like below. Hit OK button.



Step 5d. Edit content of data set member

Switch back to the “Data set and File Search” dialog and click on the member name “AIRIN2” to open the member for editing.

The screenshot shows the 'Data Set and File Search' window with the title 'Data Set and File Search' at the top right. The search bar at the top left contains the text 'Search / SHARA15.LAB.DEMO'. Below the search bar is a 'Member pattern search' input field with the placeholder 'Member pattern search'. To the right of the search bar are several buttons: a blue 'Go' button, a '+' button, and a refresh/copy icon. Underneath the search bar, the text 'Members for SHARA15.LAB.DEMO' is displayed, followed by '(1) ▾' and a 'Filter' input field. To the right of the filter field are buttons for 'Items per page:' (set to 100), '1-1 of 1 item' (set to 1), and 'of 1 page'. Below these controls, the results list shows a single item: 'AIRIN2' with a small checkbox icon to its left. This item is highlighted with a blue rectangular border.

A new editor window will be opened like below. Click on the Pen icon to enter into Editing mode.

SHARA15.LAB.DEMO(AIRIN2)

SHARA15.LAB.DEMO(AIRIN2) :  

```
-----+---1---+---2---+---3---+---4---+---5---+---6---+---7---+--->80
1 //AIRINJCL JOB MSGCLASS=C,MSGLEVEL=(1,1),USER=XXXXXXX,NOTIFY=XXXXXXX 00010000
2 //***** * 00020000
3 /* * 00030000
4 /** PROPRIETARY STATEMENT: * 00040000
5 /** Licensed Materials - Property of IBM * 00050000
6 /** 5694-A01 Copyright IBM Corp. 2010 * 00060000
7 /**
8 /** STATUS=HBB7770 * 00070000
9 /**
10 /** DESCRIPTIVE NAME: * 00080000
11 /** This job runs PFA AIRSHREP.sh install script in batch. * 00090000
12 /**
13 /** Note: * 00100000
14 /** If your installation has previously started the PFA on * 00110000
15 /** z/OS V1R10 or z/OS V1R11 and you want to preserve the history * 00120000
16 /** data then use the 'migrate' parameter when invoking * 00130000
17 /** AIRSHREP.sh script. * 00140000
18 /** /pfa is the home directory of the user ID that owns the PFA * 00150000
19 /** started task. * 00160000
20 /** // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate' * 00170000
21 /**
22 /**
23 /**
24 /**
25 /**
26 /**
27 /**
28 /**
29 /**

```

Press Control + F Key (on Windows) to open the Find + Replace tool. (Mac is Command + F).

```
SHARA15.LAB.DEMO(AIRIN2) :  
-----+---1---+---2---+---3---+---4---+---5---+---6---+---7---  
1 //AIRINJCL JOB      > Find  
2 //*****  
3 /*  
4 /* PROPRIETARY STATEMENT:  
5 /*     Licensed Materials - Property of IBM  
6 /*     5694-A01 Copyright IBM Corp. 2010  
7 /*  
8 /*     STATUS=HBB7770  
9 /*  
10 /* DESCRIPTIVE NAME:  
11 /*     This job runs PFA AIRSHREP.sh install script in batch.  
12 /*  
13 /* Note:  
14 /*     If your installation has previously started the PFA on  
15 /*     z/OS V1R10 or z/OS V1R11 and you want to preserve the history  
16 /*     data then use the 'migrate' parameter when invoking  
17 /*     AIRSHREP.sh script.  
18 /*     /nfa is the home directory of the user ID that owns the PFA  
19 /*  
Cancel Save
```

Input tmp in Find box to search the content which contains “tmp”.

SHARA15.LAB.DEMO(AIRIN2)

SHARA15.LAB.DEMO(AIRIN2) :

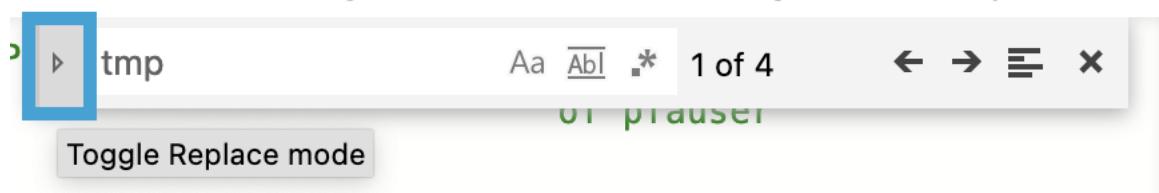
```

-----+---1---+---2---+---3---+---4---+---5---+---6---+---7---
33 //** $L1=SCP! > tmp Aa Abl * 1 of 4 ← → ⌂ ×
34 //*
35 //*
36 //*****
37 //PFAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
38 //PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
40 //*
41 //STDOUT DD PATH='/tmp/pfainst.out',
42 // PATHOPTS=(OWRONLY,O_CREAT,OTRUNC),
43 // PATHMODE=(SIRWXU)
44 //STDERR DD PATH='/tmp/pfainst.err',
45 // PATHOPTS=(OWRONLY,O_CREAT,OTRUNC),
46 // PATHMODE=(SIRWXU)
47 //SYSPRINT DD SYSOUT=*
48 //SYSUDUMP DD SYSOUT=*
49 //SYSMDUMP DD SYSOUT=*

```

Cancel Save

Click the Toggle Replace mode.



Input "var" in the replace box and click the Replace All icon to change all "tmp" to "var".

```
SHARA15.LAB.DEMO(AIRIN2)

SHARA15.LAB.DEMO(AIRIN2) :

-----+---1---+---2---+---3---+---4---+---5---+---6---+---7---
33 ///*      $L1=SCPI    tmp          Aa AbI * 1 of 4   ← → ⌂ ×
34 //*
35 //*
36 //*****var*****
37 //PFAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
38 //PARM='SH cd /pfa; /usr/lpp/bcp/ATRSHREP.sh migrate'
39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
40 //*
41 //STDOUT DD PATH='/tmp/pfainst.out',
42 //           PATHOPTS=(OWRONLY,O_CREAT,O_TRUNC),
43 //           PATHMODE=(S_IRWXU)
44 //STDERR DD PATH='/tmp/pfainst.err',
45 //           PATHOPTS=(OWRONLY,O_CREAT,O_TRUNC),
46 //           PATHMODE=(S_IRWXU)
47 //SYSPRINT DD SYSOUT=*
48 //SYSUDUMP DD SYSOUT=*
49 //SYSMDUMP DD SYSOUT=*
```

Click the Save button to save changes.

SHARA15.LAB.DEMO(AIRIN2)

SHARA15.LAB.DEMO(AIRIN2) :

```

-----+---1---+---2---+---3---+---4---+---5---+---6---+---7---
33 /*      $L1=SCPI    tmp          Aa Abl * No Results ← → E ×
34 /*
35 /**
36 //*****EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
37 //PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
38 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
39 /**
40 //STDOUT  DD  PATH='/var/pfainst.out',
41 //          PATHOPTS=(OWRONLY,UCREAT,OTRUNC),
42 //          PATHMODE=(SIRWXU)
43 //STDERR  DD  PATH:'/var/pfainst.err',
44 //          PATHOPTS=(OWRONLY,UCREAT,OTRUNC),
45 //          PATHMODE=(SIRWXU)
46 //SYSPRINT DD  SYSOUT=*
47 //SYSUDUMP DD  SYSOUT=*
48 //SYSMDUMP DD  SYSOUT=*
49

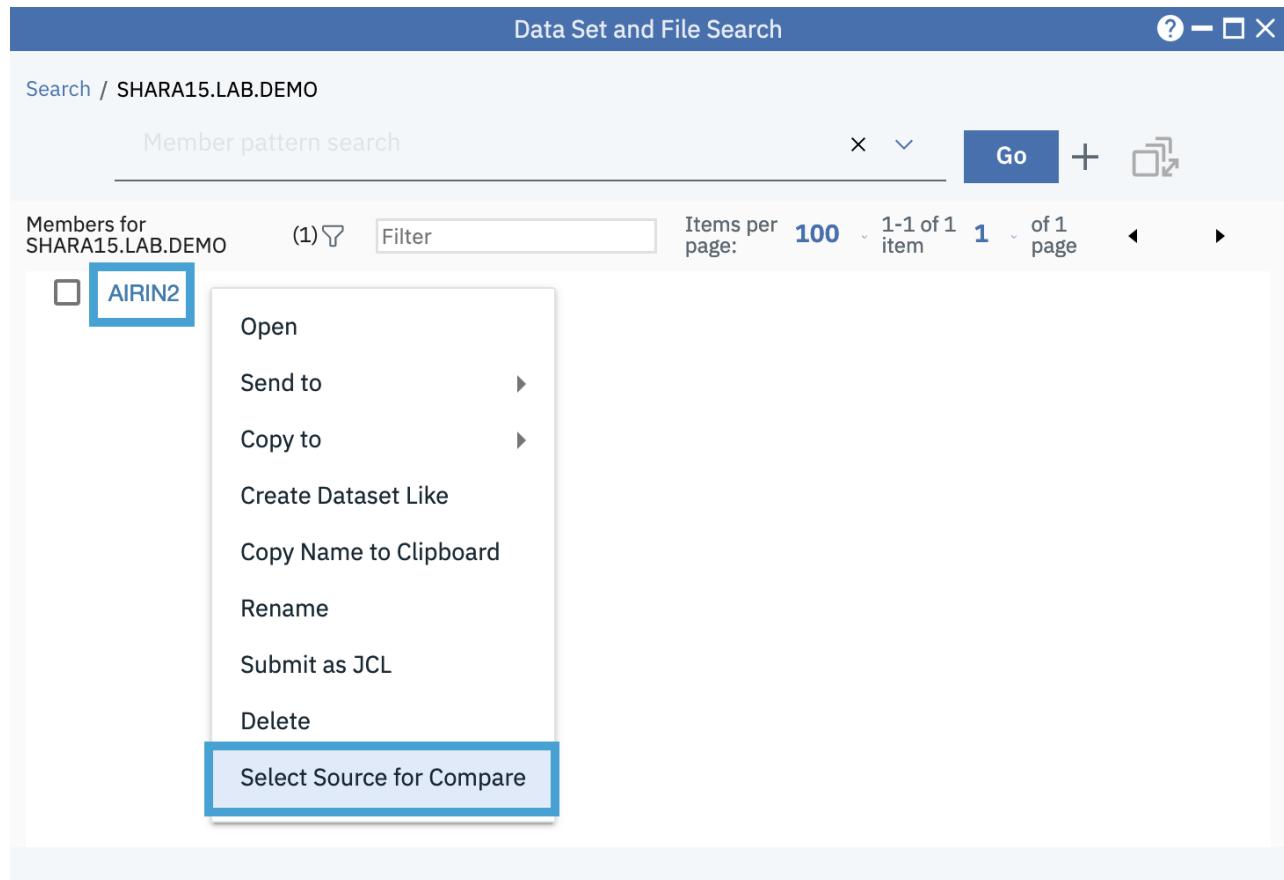
```

Cancel Save

6. Compare and merge data set members

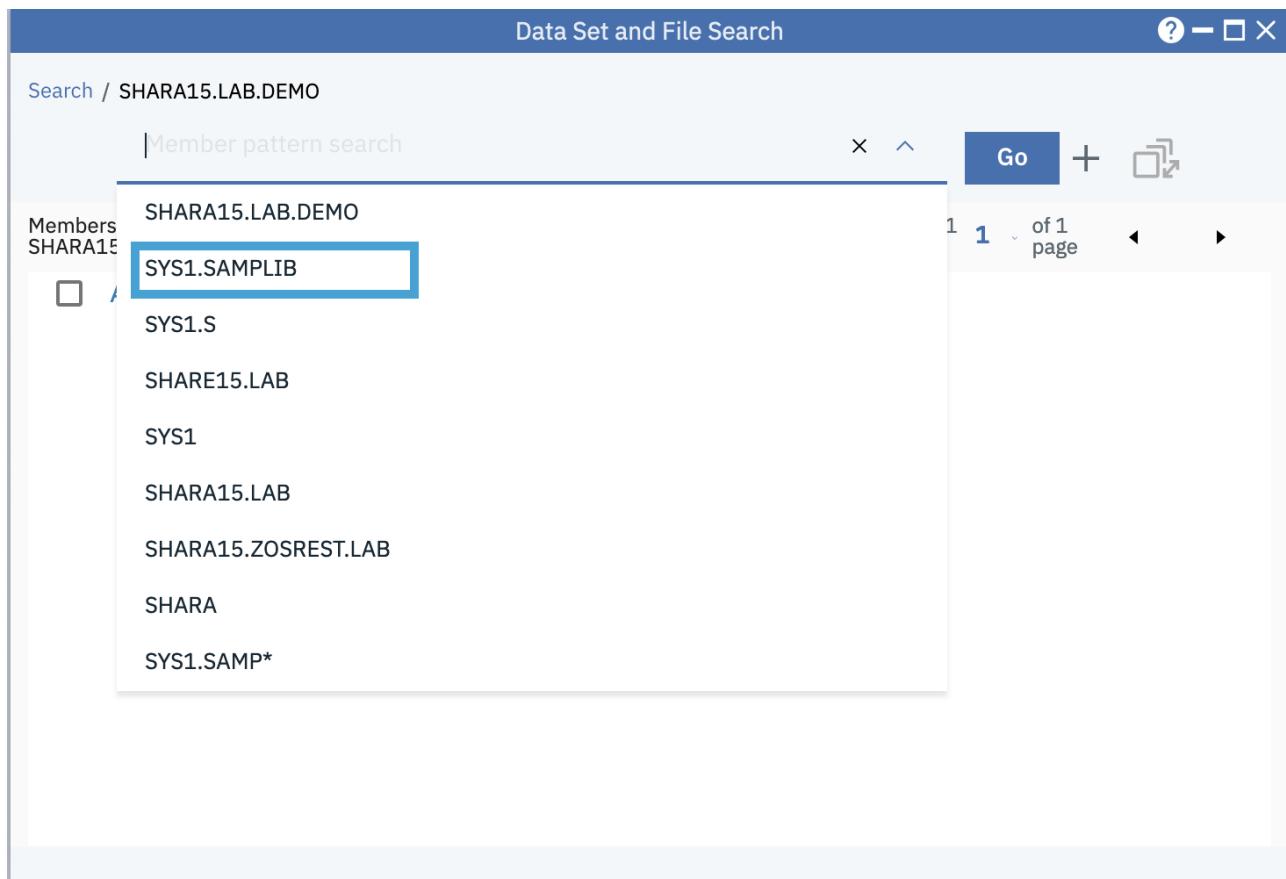
Step 6a. Select source for compare

- Reselect the Data Set and File Search window.
- Select dataset member AIRIN2 → right click → select menu “Select Source for Compare”.



Step 6b. Select another source for compare

- Move the cursor to the search input box.
- Select “SYS1.SAMPLIB” from the dropdown history list.



After the data set name SYS1.SAMPLIB is populated in the input box, click Go button or press Enter to list the data set.

The screenshot shows the 'Data Set and File Search' interface. At the top, there is a search bar containing 'SYS1.SAMPLIB'. Below the search bar are buttons for 'Go', 'Search Options', and 'New Search'. The main area displays 'Results(1)'. A single item, 'SYS1.SAMPLIB ...', is listed, with its name highlighted by a blue border. To the left of the item name is a small icon. Below the list, there is a 'Filter' input box and pagination information: 'Items per page: 100', '1-1 of 1 item', '1 of 1 page', and navigation arrows.

Click on the data set name to open member list of SYS1.SAMPLIB. Then enter “JCL” in the Filter input box on tool bar like below.

Data Set and File Search

Search / SYS1.SAMPLIB

Member pattern search Go +

Members for SYS1.SAMPLIB(16) Items per page: 100 1-16 of 16 items 1 of 1 page ▲ ▼

- AIRINJCL
- ANFMIJCL ...
- AOPCKJCL
- APIMIJCL
- BPXISJCL
- CSDSMJCL
- EDGJCLIN
- IEESMJCL
- IFAUJCL
- IFBLSJCL
- IKJCLNDD
- ISCJCL80
- ISCJCL86
- JVMJCL86
- LKEDJCL
- RACJCL

Step 6c. Compare two members

Right click on member name “AIRINJCL”, select menu “Compare with SHARA15.LAB.DEMO(AIRIN2)”

Data Set and File Search

Search / SYS1.SAMPLIB

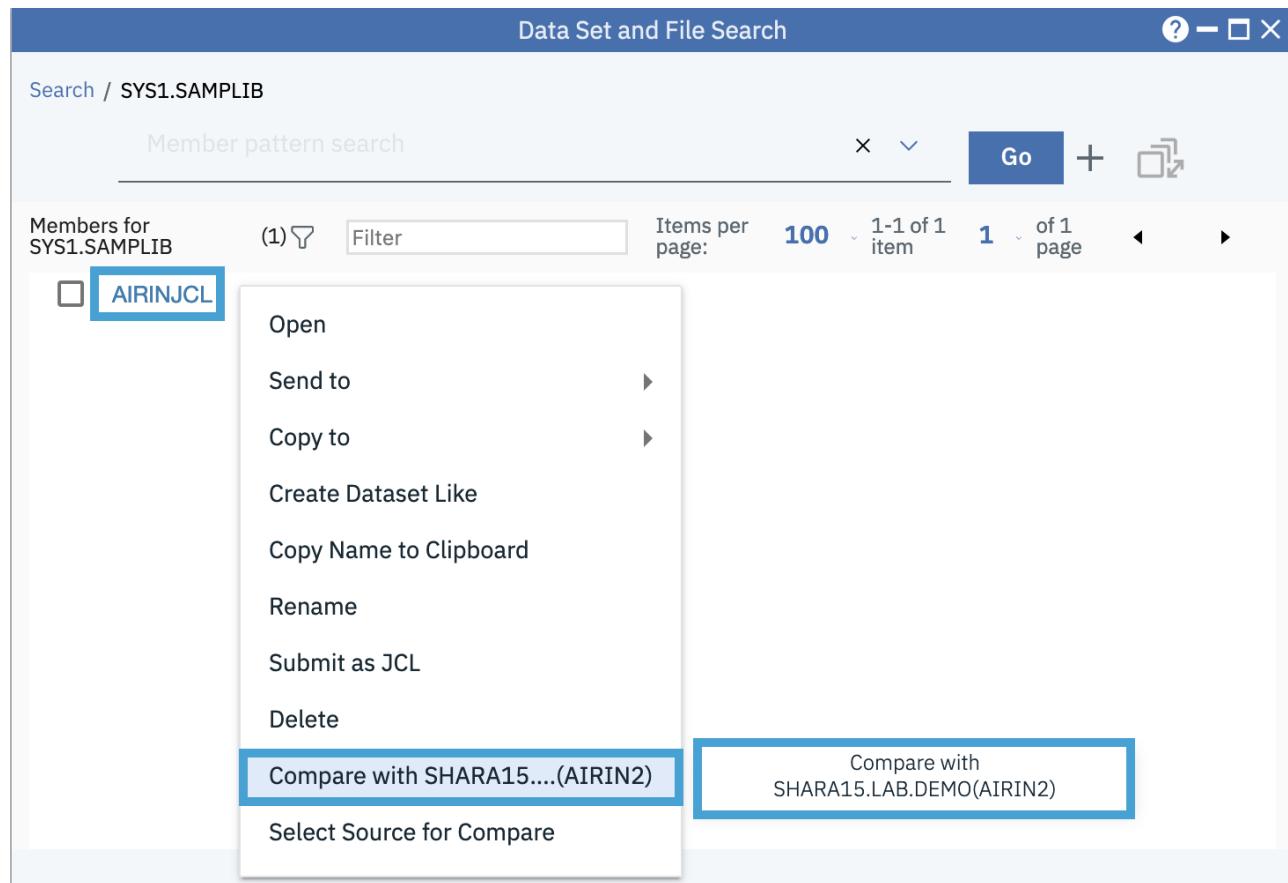
Member pattern search Go

Members for SYS1.SAMPLIB (1) Filter Items per page: 100 1-1 of 1 item 1 of 1 page

AIRINJCL

- Open
- Send to
- Copy to
- Create Dataset Like
- Copy Name to Clipboard
- Rename
- Submit as JCL
- Delete
- Compare with SHARA15....(AIRIN2)
- Select Source for Compare

Compare with SHARA15.LAB.DEMO(AIRIN2)



A compare window will be opened like below.

```

SHARA15.LAB.DEMO(AIRIN2) <-> SYS1.SAMPLIB(AIRINJCL)
Previous Difference EMO(AIRIN2)          SYS1.SAMPLIB(AIRINJCL)
40 /*  UN PARM= Statement /pfa needs to be replaced by the * 00200000
29 ///*  home directory of the user ID that owns the PFA started task. * 00290005
30 ///*                                             * 00300000
31 ///*  Change Activity:                      * 00310000
32 ///*  $L0=SCPFA hbb7770 090920, ASH: Initial Creation * 00320000
33 ///*  $L1=SCPFA hbb7770 100405 ASH: pfa is the home directory * 00321003
34 ///*  of pfouser                                * 00330003
35 ///*                                             * 00331003
36 //*****                                         * 00340000
37 //PFAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M, 00350000
38 //PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate' 00360004
39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new' 00370004
40 ///*                                             * 00380000
41 //STDOUT DD PATH='/var/pfainst.out', 00390000
42 //  PATHOPTS=(OWRONLY,OCREATE,OTRUNC), 00400000
43 //  PATHMODE=(SIRWXU) 00410000
44//STDERR DD PATH='/var/pfainst.err', 00420000
45 //  PATHOPTS=(OWRONLY,OCREATE,OTRUNC), 00430000
46 //  PATHMODE=(SIRWXU) 00440000
47 //SYSPRINT DD SYSOUT== 00450000
48 //SYSUDUMP DD SYSOUT== 00460000
49 //SYSMDUMP DD SYSOUT== 00470000
50 //*****                                         * 00480000
51 /* STEP 2 - Copy stdout back to joblog */ 00490000
52 //*****                                         * 00500000
53 //STEP2 EXEC PGM=IEBGENER 00510000
54 //SYSPRINT DD SYSOUT== 00520000
55//SYSUT1 DD PATH='/var/pfainst.out', 00530000
56 //  FILEDATA=TEXT,PATHOPTS=ORDONLY, 00540000
57 //  LRECL=160,BLKSIZE=640,RECFM=FB 00550000
58 //SYSUT2 DD SYSOUT=*, 00560000
59 //  DCB=(RECFM=FB,LRECL=160,BLKSIZE=640) 00570000
60 //SYSIN DD DUMMY 00580000
61 //*****                                         * 00590000
62 /* STEP 3 - Copy stderr back to joblog */ 00600000
63 //*****                                         * 00610000
64 //STEP3 EXEC PGM=IEBGENER 00620000
65 //SYSPRINT DD SYSOUT== 00630000
66//SYSUT1 DD PATH='/var/pfainst.err', 00640000
67 //  FILEDATA=TEXT,PATHOPTS=ORDONLY, 00650000
68 //  LRECL=160,BLKSIZE=640,RECFM=FB 00660000

```

```

29 ///*  UN PARM= Statement /pfa needs to be replaced by the * 00200000
29 ///*  home directory of the user ID that owns the PFA started task. * 00290005
30 ///*                                             * 00300000
31 ///*  Change Activity:                      * 00310000
32 ///*  $L0=SCPFA hbb7770 090920, ASH: Initial Creation * 00320000
33 ///*  $L1=SCPFA hbb7770 100405 ASH: pfa is the home directory * 00321003
34 ///*  of pfouser                                * 00330003
35 ///*                                             * 00331003
36 //*****                                         * 00340000
37 //PFAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M, 00350000
38 //PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate' 00360004
39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new' 00370004
40 ///*                                             * 00380000
41 //STDOUT DD PATH='/tmp/pfainst.out', 00390000
42 //  PATHOPTS=(OWRONLY,OCREATE,OTRUNC), 00400000
43 //  PATHMODE=(SIRWXU) 00410000
44//STDERR DD PATH='/tmp/pfainst.err', 00420000
45 //  PATHOPTS=(OWRONLY,OCREATE,OTRUNC), 00430000
46 //  PATHMODE=(SIRWXU) 00440000
47 //SYSPRINT DD SYSOUT== 00450000
48 //SYSUDUMP DD SYSOUT== 00460000
49 //SYSMDUMP DD SYSOUT== 00470000
50 //*****                                         * 00480000
51 /* STEP 2 - Copy stdout back to joblog */ 00490000
52 //*****                                         * 00500000
53 //STEP2 EXEC PGM=IEBGENER 00510000
54 //SYSPRINT DD SYSOUT== 00520000
55//SYSUT1 DD PATH='/tmp/pfainst.out', 00530000
56 //  FILEDATA=TEXT,PATHOPTS=ORDONLY, 00540000
57 //  LRECL=160,BLKSIZE=640,RECFM=FB 00550000
58 //SYSUT2 DD SYSOUT=*, 00560000
59 //  DCB=(RECFM=FB,LRECL=160,BLKSIZE=640) 00570000
60 //SYSIN DD DUMMY 00580000
61 //*****                                         * 00590000
62 /* STEP 3 - Copy stderr back to joblog */ 00600000
63 //*****                                         * 00610000
64 //STEP3 EXEC PGM=IEBGENER 00620000
65 //SYSPRINT DD SYSOUT== 00630000
66//SYSUT1 DD PATH='/tmp/pfainst.err', 00640000
67 //  FILEDATA=TEXT,PATHOPTS=ORDONLY, 00650000
68 //  LRECL=160,BLKSIZE=640,RECFM=FB 00660000

```

Step 6d. Copy the first difference from right to left

Now we are at the first difference, click the Copy to Left button on the top left to copy the current difference from right to left.

```

SHARA15.L LAB.DEMO(AIRIN2) <-> SYS1.SAMPLIB(AIRINJCL)
SHARA15.L Copy to Left <- [N2]           SYS1.SAMPLIB(AIRINJCL)
  27 //*
  28 /* On PARM= statement '/pfa' needs to be replaced b
  29 /* home directory of the user ID that owns the PFA
  30 /**
  31 /**
  32 /**
  33 /**
  34 /**
  35 /**
  36 //*****
  37 //PAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
  38 ///*PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
  39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
  40 /**
  41--//STDOUT DD PATH='/var/pfainst.out',
  42 //
  43 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
  44--//STDERR DD PATH='/var/pfainst.err',
  45 //
  46 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
  47 //SYSPRINT DD SYSOUT=*
  48 //SYSUDUMP DD SYSOUT=*
  49 //SYSMDUMP DD SYSOUT=*
  50 //*****
  51 /* STEP 2 - Copy stdout back to joblog
  52 //*****
  53 //STEP2 EXEC PGM=IEBGENER
  54 //SYSPRINT DD SYSOUT=*
  55--//SYSUT1 DD PATH='/var/pfainst.out',
  56 // FILEDATA=TEXT,PATHOPTS=ORDONLY,
  27 //*
  28 /* On PARM= statement '/pfa' needs to be replaced b
  29 /* home directory of the user ID that owns the PFA
  30 /**
  31 /**
  32 /**
  33 /**
  34 /**
  35 /**
  36 //*****
  37 //PAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
  38 ///*PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
  39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
  40 /**
  41++//STDOUT DD PATH='/tmp/pfainst.out',
  42 //
  43 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
  44++//STDERR DD PATH='/tmp/pfainst.err',
  45 //
  46 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
  47 //SYSPRINT DD SYSOUT=*
  48 //SYSUDUMP DD SYSOUT=*
  49 //SYSMDUMP DD SYSOUT=*
  50 //*****
  51 /* STEP 2 - Copy stdout back to joblog
  52 //*****
  53 //STEP2 EXEC PGM=IEBGENER
  54 //SYSPRINT DD SYSOUT=*
  55++//SYSUT1 DD PATH='/tmp/pfainst.out',
  56 // FILEDATA=TEXT,PATHOPTS=ORDONLY,

```

SHARA15.LAB.DEMO(AIRIN2) <-> SYS1.SAMPLIB(AIRINJCL)

```

SHARA15.LAB.DEMO(AIRIN2)          SYS1.SAMPLIB(AIRINJCL)
 37 //PFAINST EXEC PGM=BPXBATCH,TIME=NULIMIT,REGION=0M,
 38 ///*PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
 39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
 40 /**
 41 //STDOUT DD PATH='/tmp/pfainst.out',
 42 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
 43 // PATHMODE=(SIRWXU)
 44//STDERR DD PATH='/var/pfainst.err',
 45 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
 46 // PATHMODE=(SIRWXU)
 47 //SYSPRINT DD SYSOUT=*
 48 //SYSUDUMP DD SYSOUT=*
 49 //SYSMDUMP DD SYSOUT=*
 50 //*****
 51 /* STEP 2 - Copy stdout back to joblog
 52 //*****
 53 //STEP2 EXEC PGM=IEBGENER
 54 //SYSPRINT DD SYSOUT=*
 55//SYSUT1 DD PATH='/var/pfainst.out',
 56 // FILEDATA=TEXT,PATHOPTS=ORDONLY,
 57 // LRECL=160,BLKSIZE=640,RECFM=FB
 58 //SYSUT2 DD SYSOUT=*,  

 59 // DCB=(RECFM=FB,LRECL=160,BLKSIZE=640)
 60 //SYSIN DD DUMMY
 61 //*****
 62 /* STEP 3 - Copy stderr back to joblog
 63 //*****
 64 //STEP3 EXEC PGM=IEBGENER
 65 //SYSPRINT DD SYSOUT=*
 66//SYSUT1 DD PATH='/var/pfainst.err',

```

Step 6e. Copy the difference from left to right.

To change the third difference at the right side, we can either use the Next Difference button to navigate to it, or simply put the cursor at the third difference, and click the Copy to Right button.

SHARA15.LAB.DEMO(AIRIN2) <-> SYS1.SAMPLIB(AIRINJCL)

```

SHARA15.LAB.DEMO(AIRIN2)          SYS1.SAMPLIB(AIRINJCL)
 38 ///*PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
 39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
 40 ///*
 41 //STDOUT  DD  PATH='/tmp/pfainst.out',
 42 //          PATHOPTS=(OWRONLY,O_CREAT,OTRUNC),
 43 //          PATHMODE=(SIRWXU)
 44//STDERR  DD  PATH='/var/pfainst.err',
 45 //          PATHOPTS=(OWRONLY,O_CREAT,OTRUNC),
 46 //          PATHMODE=(SIRWXU)
 47 //SYSPRINT DD SYOUT=*
 48 //SYSUDUMP DD SYOUT=*
 49 //SYSMDUMP DD SYOUT=*
 50 //***** STEP 2 - Copy stdout back to joblog *****
 51 /* STEP 2 - Copy stdout back to joblog
 52 *****
 53 //STEP2  EXEC PGM=IEBGENER
 54 //SYSPRINT DD SYOUT=*
 55//SYSUT1  DD  PATH='/var/pfainst.out',
 56 //          FILEDATA=TEXT,PATHOPTS=ORDONLY,
 57 //          LRECL=160,BLKSIZE=640,RECFM=FB
 58 //SYSUT2  DD SYOUT=*,,
 59 //          DCB=(RECFM=FB,LRECL=160,BLKSIZE=640)
 60 //SYSIN   DD DUMMY
 61 //***** STEP 3 - Copy stderr back to joblog
 62 /* STEP 3 - Copy stderr back to joblog
 63 *****
 64 //STEP3  EXEC PGM=IEBGENER
 65 //SYSPRINT DD SYOUT=*
 66//SYSUT1  DD  PATH='/var/pfainst.err',
 67 //          FILEDATA=TEXT,PATHOPTS=ORDONLY.

 38 ///*PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
 39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
 40 ///*
 41 //STDOUT  DD  PATH='/tmp/pfainst.out',
 42 //          PATHOPTS=(OWRONLY,O_CREAT,OTRUNC),
 43 //          PATHMODE=(SIRWXU)
 44//STDERR  DD  PATH='/tmp/pfainst.err',
 45 //          PATHOPTS=(OWRONLY,O_CREAT,OTRUNC),
 46 //          PATHMODE=(SIRWXU)
 47 //SYSPRINT DD SYOUT=*
 48 //SYSUDUMP DD SYOUT=*
 49 //SYSMDUMP DD SYOUT=*
 50 //***** STEP 2 - Copy stdout back to joblog *****
 51 /* STEP 2 - Copy stdout back to joblog
 52 *****
 53 //STEP2  EXEC PGM=IEBGENER
 54 //SYSPRINT DD SYOUT=*
 55//SYSUT1  DD  PATH='/tmp/pfainst.out',
 56 //          FILEDATA=TEXT,PATHOPTS=ORDONLY,
 57 //          LRECL=160,BLKSIZE=640,RECFM=FB
 58 //SYSUT2  DD SYOUT=*,,
 59 //          DCB=(RECFM=FB,LRECL=160,BLKSIZE=640)
 60 //SYSIN   DD DUMMY
 61 //***** STEP 3 - Copy stderr back to joblog
 62 /* STEP 3 - Copy stderr back to joblog
 63 *****
 64 //STEP3  EXEC PGM=IEBGENER
 65 //SYSPRINT DD SYOUT=*
 66//SYSUT1  DD  PATH='/tmp/pfainst.err',
 67 //          FILEDATA=TEXT,PATHOPTS=ORDONLY.

```

SHARA15.LAB.DEMO(AIRIN2) <-> SYS1.SAMPLIB(AIRINJCL)

```

36 //*****
37 //PFAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
38 //*PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
40 /**
41 //STDOUT DD PATH='/tmp/pfainst.out',
42 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
43 // PATHMODE=(SIRWXU)
44//STDERR DD PATH='/var/pfainst.err',
45 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
46 // PATHMODE=(SIRWXU)
47 //SYSPRINT DD SYSOUT=*
48 //SYSUDUMP DD SYSOUT=*
49 //SYSMDUMP DD SYSOUT=*
50 //*****
51 /* STEP 2 - Copy stdout back to joblog
52 //*****
53 //STEP2 EXEC PGM=IEBGENER
54 //SYSPRINT DD SYSOUT=*
55//SYSUT1 DD PATH='/var/pfainst.out',
56 // FILEDATA=TEXT,PATHOPTS=ORDONLY,
57 // LRECL=160,BLKSIZE=640,RECFM=FB
58 //SYSUT2 DD SYSOUT=*,,
59 // DCB=(RECFM=FB,LRECL=160,BLKSIZE=640)
60 //SYSIN DD DUMMY
61 //*****
62 /* STEP 3 - Copy stderr back to joblog
63 //*****
64 //STEP3 EXEC PGM=IEBGENER

```

SYS1.SAMPLIB(AIRINJCL)

```

36 //*****
37 //PFAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
38 //*PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
40 /**
41 //STDOUT DD PATH='/tmp/pfainst.out',
42 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
43 // PATHMODE=(SIRWXU)
44//STDERR DD PATH='/tmp/pfainst.err',
45 // PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
46 // PATHMODE=(SIRWXU)
47 //SYSPRINT DD SYSOUT=*
48 //SYSUDUMP DD SYSOUT=*
49 //SYSMDUMP DD SYSOUT=*
50 //*****
51 /* STEP 2 - Copy stdout back to joblog
52 //*****
53 //STEP2 EXEC PGM=IEBGENER
54 //SYSPRINT DD SYSOUT=*
55//SYSUT1 DD PATH='/tmp/pfainst.out',
56 // FILEDATA=TEXT,PATHOPTS=ORDONLY,
57 // LRECL=160,BLKSIZE=640,RECFM=FB
58 //SYSUT2 DD SYSOUT=*,,
59 // DCB=(RECFM=FB,LRECL=160,BLKSIZE=640)
60 //SYSIN DD DUMMY
61 //*****
62 /* STEP 3 - Copy stderr back to joblog
63 //*****
64 //STEP3 EXEC PGM=IEBGENER

```

```

SHARA15.LAB.DEMO(AIRIN2) <-> SYS1.SAMPLIB(AIRINJCL)
SHARA15.LAB.DEMO(AIRIN2)           SYS1.SAMPLIB(AIRINJCL)

34 //**                                     of pfauser
35 /**
36 //*****                                      *****
37 //PFAINST EXEC PGM=BPXBATCH,TIME=NOLIMIT,REGION=0M,
38 //PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh migrate'
39 // PARM='SH cd /pfa; /usr/lpp/bcp/AIRSHREP.sh new'
40 /**
41 //STDOUT  DD PATH='/tmp/pfainst.out',
42 //          PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
43 //          PATHMODE=(SIRWXU)
44+//STDERR DD PATH='/var/pfainst.err',
45 //          PATHOPTS=(OWRONLY,OCREATE,OTRUNC),
46 //          PATHMODE=(SIRWXU)
47 //SYSPRINT DD SYOUT=*
48 //SYSUDUMP DD SYOUT=*
49 //SYSMDUMP DD SYOUT=*
50 //*****
51 //** STEP 2 - Copy stdout back to joblog
52 //*****
53 //STEP2  EXEC PGM=IEBGENER
54 //SYSPRINT DD SYOUT=*
55 //SYSUT1 DD PATH='/var/pfainst.out',
56 //          FILEDATA=TEXT,PATHOPTS=ORDONLY,
57 //          LRECL=160,BLKSIZE=640,RECFM=FB
58 //SYSUT2  DD SYOUT=*,,
59 //          DCB=(RECFM=FB,LRECL=160,BLKSIZE=640)
60 //SYSIN   DD DUMMY
61 //*****
62 //** STEP 3 - Copy stderr back to joblog

```

Step 6f. Save the changes.

Since you made changes to both sides, the Save icon on the top will now be enabled. Click the Save icons to save the changes.

SHARA15.LAB.DEMO(AIRIN2) <-> SYS1.SAMPLIB(AIRINJCL)

```

SHARA15.LAB.DEMO(AIRIN2)          SYS1.SAMPLIB(AIRINJCL)
40
41 TH='/tmp/pfainst.out',
42 S=(OWRONLY,O_CREAT,0_TRUNC),
43 E=(SIRWXU)
44-TH='/var/pfainst.err',
45 S=(OWRONLY,O_CREAT,0_TRUNC),
46 E=(SIRWXU)
47 UT=*
48 UT=*
49 UT=*
50 ****
51 stdout back to joblog      */
52 ****
53 M=IEBGENER
54 UT=*
55 ATH='/var/pfainst.out',
56 TA=TEXT,PATHOPTS=ORDONLY,
57 160,BLKSIZE=640,RECFM=FB
58 UT=*,                      */
59 ECFM=FB,LRECL=160,BLKSIZE=640)
60 Y
61 ****
62 stderr back to joblog      */
63 ****
64 M=IEBGENER
65 UT=*
66-TH='/var/pfainst.err',
67 TA=TEXT,PATHOPTS=ORDONLY,
68 160,BLKSIZE=640,RECFM=FB

```

7. Browse USS path and edit USS file

Step 7a. Browse a USS path

- Switch back to the Data Set and File Search window.
- Input the USS path /global/zosmf/configuration/servers/zosmfServer in the search bar. You don't have to enter the full path. Enjoy the type ahead search if you pause one second as you type.
- Click the Go button or press Enter to open the directory.

The screenshot shows the 'Data Set and File Search' window. The search bar at the top contains the path '/global/zosmf/configuration/servers/zosmfServer'. Below the search bar, there is a 'Go' button and some navigation icons. The main area displays the search results: 'Results(1)' followed by a small icon and the text 'SYS1.SAMPLIB'. At the bottom of the results area, there are navigation arrows and a message indicating '1 item' on '1 page'.

Click on the column header “Name” to sort the files alphabetically by name, then we can easily find the file server.xml

Data Set and File Search

? - □ ×

/ global / zosmf / configuration / servers / zosmfServer

/global/zosmf/configuration/servers/zosmfServer Go - + □

Results(10)	▼	Items per page: 100	1 - 10 of 10				<	>
		Name	Mode	Owner/Group	Size	Modify Time		
<input type="checkbox"/>		apps	drwxrwx---	IZUSVR/IZUADMIN	8192	2021-12-21T09:45:00		
<input type="checkbox"/>		jvm.security.override.properties	lrwxrwxrwx	IZUSVR/IZUADMIN	76	2021-12-21T09:45:00		
<input type="checkbox"/>		server.xml	-rwxrwxr-x	IZUSVR/IZUADMIN	14992	2022-01-17T19:45:00		
<input type="checkbox"/>		bootstrap.properties	-rw-r--r--	IZUSVR/IZUADMIN	5309	2021-12-21T09:45:00		
<input type="checkbox"/>		server.env	-rw-r--r--	IZUSVR/IZUADMIN	714	2021-12-21T09:45:00		
<input type="checkbox"/>		jvm.options	-rw-r--r--	IZUSVR/IZUADMIN	1049	2021-12-21T09:45:00		
<input type="checkbox"/>		izu.config.properties	-rw-r--r--	IZUSVR/IZUADMIN	230	2021-12-21T09:45:00		
<input type="checkbox"/>		kc.properties	-rw-r--r--	IZUSVR/IZUADMIN	1174	2022-01-17T19:45:00		
<input type="checkbox"/>		bootstrap.properties.old	-rw-rw-r--	IZUSVR/IZUADMIN	5243	2021-12-21T09:45:00		
<input type="checkbox"/>		resources	drwxrwx---	IZUSVR/IZUADMIN	8192	2019-08-29T10:45:00		

Data Set and File Search

/ global / zosmf / configuration / servers / zosmfServer

/global/zosmf/configuration/servers/zosmfServer

Go

Results(10)

Items per page: 100

1 - 10 of 10

Name ↑	Mode	Owner/Group	Size	Modify Time
apps	drwxrwx---	IZUSVR/IZUADMIN	8192	2021-12-21T00:00:00
bootstrap.properties	-rw-r--r--	IZUSVR/IZUADMIN	5309	2021-12-21T00:00:00
bootstrap.properties.old	-rw-rw-r--	IZUSVR/IZUADMIN	5243	2021-12-21T00:00:00
izu.config.properties	-rw-r--r--	IZUSVR/IZUADMIN	230	2021-12-21T00:00:00
jvm.options	-rw-r--r--	IZUSVR/IZUADMIN	1049	2021-12-21T00:00:00
jvm.security.override.properties	lrwxrwxrwx	IZUSVR/IZUADMIN	76	2021-12-21T00:00:00
kc.properties	-rw-r--r--	IZUSVR/IZUADMIN	1174	2022-01-17T11:00:00
resources	drwxrwx---	IZUSVR/IZUADMIN	8192	2019-08-29T10:00:00
server.env	-rw-r--r--	IZUSVR/IZUADMIN	714	2021-12-21T00:00:00
server.xml	-rwxrwxr-x	IZUSVR/IZUADMIN	14992	2022-01-17T11:00:00

Open the USS file server.xml by clicking its name, we will see the file is opened and it's also highlighted with XML syntax.

server.xml

/global/zosmf/configuration/servers/zosmfServer/server.xml :

```
1 <server description="zosmfServer">
2   <!-- Licensed Materials - Property of IBM    -->
3   <!-- 5650-ZOS                                -->
4   <!-- Copyright IBM Corp. 2013, 2021          -->
5   <!--
6   <!-- US Government Users Restricted Rights  -->
7   <!--
8   <!-- Status = HSMA250                         -->
9
10  <featureManager>
11    <feature>zosSecurity-1.0</feature>
12    <feature>appSecurity-2.0</feature>
13    <feature>servlet-3.1</feature>
14    <feature>jsp-2.2</feature>
15    <feature>ssl-1.0</feature>
16    <feature>zosWlm-1.0</feature>
17    <feature>concurrent-1.0</feature>
18    <feature>jndi-1.0</feature>
19    <feature>webCache-1.0</feature>
20    <feature>jaxrs-1.1</feature>
```

8. Open referenced data sets in Editor

Step 8a. Open the data set member SYS1.PROCLIB(IZUFPROC)

Switch back to Data Set and File Search window, search the data set SYS1.PROCLIB.

The screenshot shows the 'Data Set and File Search' interface. In the search bar at the top left, 'SYS1.PROCLIB' is entered. To the right of the search bar are buttons for '?', 'Go', and other search options. Below the search bar, the text 'Results(4)' and 'Items per page: 100' is displayed, along with navigation arrows for pages 1-4 of 4 items. A list of four items is shown below:

- [SYS1.PROCLIB](#) ...
- [SYS1.PROCLIB.D83](#)
- [SYS1.PROCLIB.INSTALL](#)
- [SYS1.PROCLIB.POK](#)

Click on the name of “SYS1.PROCLIB” to open its member list. Then input IZUFPROC in the search box to search for the member.

Data Set and File Search

Search / SYS1.PROCLIB

IZUFPROC

Members for SYS1.PROCLIB (233) Filter Items per page: 100 1-100 of 233 items 1 of 3 pages

ANFWPROC
 AOPDEMON
 AOPPRINT
 AOPSTART
 AOPSTAR2
 AOPSTAT
 AOPSTOP
 AOPSTOP2
 APIJPJCL
 APPC
 ASCH

Open the data set member “IZUFPROC”, you will see the referenced data sets or USS path are displayed as links.

SYS1.PROCLIB(IZUFPROC)

SYS1.PROCLIB(IZUFPROC) :

```

-----1-----2-----3-----4-----5-----6-----7----->80
 1 //IZUFPROC PROC ROOT=/usr/lpp/zosmf /* zOSMF INSTALL ROOT      */
 2 //      EXPORT SYMLIST=(XX)
 3 //      SET QT=''''
 4 //      SET XX=&QT.&ROOT.&QT.
 5 //IZUFPROC EXEC PGM=IKJEFT01,DYNAMNBR=200
 6 //*****                                                 */
 7 //** TSO LOGON PROC FOR Z/OS DATA SET AND FILE REST INTERFACE   */
 8 //**                                                 */
 9 //** PROPRIETARY STATEMENT:                                     */
10 //**                                                 */
11 //**      LICENSED MATERIALS - PROPERTY OF IBM                  */
12 //**      5650-ZOS                                         */
13 //**      COPYRIGHT IBM CORP. 2014, 2016                      */
14 //**      STATUS = HSMA220                                     */
15 //*****                                                 */
16 //CEEOPTS DD *,SYMBOLS=JCLONLY
17 | ENVAR("PATH=/bin:&XX./bin")
18 //SYSEXEC DD DISP=SHR,DSN=ISP.SISPEXEC
19 //      DD DISP=SHR,DSN=SYS1.SBPXEXEC
20 //SYSPROC DD DISP=SHR,DSN=ISP.SISPCLIB
21 //      DD DISP=SHR,DSN=SYS1.SBPXEXEC
22 //ISPLLIB DD DISP=SHR,DSN=SYS1.SIEALNKE
23 //ISPPLIB DD DISP=SHR,DSN=ISP.SISPPENU
24 //ISPTLIB DD RECFM=FB,LRECL=80,SPACE=(TRK,(1,0,1))
25 //      DD DISP=SHR,DSN=ISP.SISPENU
26 //ISPSLIB DD DISP=SHR,DSN=ISP.SISPSENU
27 //ISPMILIB DD DISP=SHR,DSN=ISP.SISPMENU
28 //ISPPROF DD DISP=NEW,UNIT=SYSDA,SPACE=(TRK,(15,15,5)),
29 //      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
30 //IZUSRVMP DD PATH='&ROOT./defaults/izurf.tsoservlet.mapping.json'
31 //SYSOUT DD SYSOUT=H

```

Step 8b. Adjust the window to a proper size

Click the maximize icon or double-clicking the window's title bar to maximize the editor window.

SYS1.PROCLIB(IZUFPROC)

```

SYS1.PROCLIB(IZUFPROC) :   
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->80
 1 //IZUFPROC PROC ROOT='/usr/lpp/zosmf' /* zOSMF INSTALL ROOT      */
 2 //          EXPORT SYMLIST=(XX)
 3 //          SET QT=''''
 4 //          SET XX=&QT.&ROOT.&QT.
 5 //IZUFPROC EXEC PGM=IKJEFT01,DYNAMNBR=200
 6 //*****  

 7 //** TSO LOGON PROC FOR Z/OS DATA SET AND FILE REST INTERFACE      */
 8 //**  

 9 //** PROPRIETARY STATEMENT:  

10 //**  

11 //**     LICENSED MATERIALS - PROPERTY OF IBM  

12 //**     5650-ZOS  

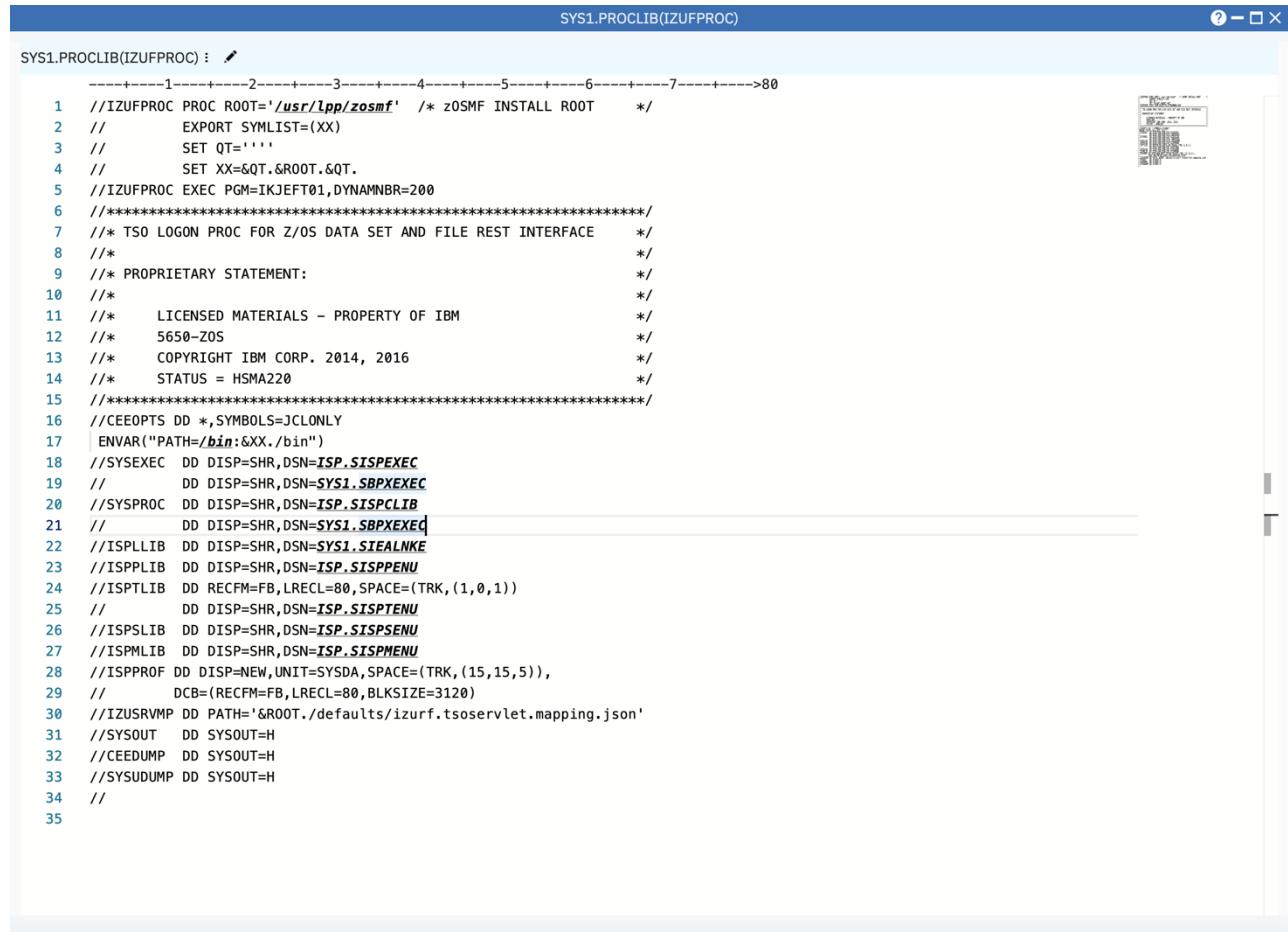
13 //**     COPYRIGHT IBM CORP. 2014, 2016  

14 //**     STATUS = HSMA220  

15 //*****  

16 //CEEOPTS DD *,SYMBOLS=JCLONLY
17 | ENVAR("PATH=/bin:&XX./bin")
18 //SYSEXEC DD DISP=SHR,DSN=ISP.SISPEXEC
19 //          DD DISP=SHR,DSN=SYS1.SBPXEXEC
20 //SYSPROC DD DISP=SHR,DSN=ISP.SISPCLIB
21 //          DD DISP=SHR,DSN=SYS1.SBPXEXEC
22 //ISPLLIB DD DISP=SHR,DSN=SYS1.SIEALNKE
23 //ISPPLIB DD DISP=SHR,DSN=ISP.SISPENU
24 //ISPTLIB DD RECFM=FB,LRECL=80,SPACE=(TRK,(1,0,1))
25 //          DD DISP=SHR,DSN=ISP.SISPENU
26 //ISPSLIB DD DISP=SHR,DSN=ISP.SISPENU
27 //ISPMILIB DD DISP=SHR,DSN=ISP.SISPMENU
28 //ISPPROF DD DISP=NEW,UNIT=SYSDA,SPACE=(TRK,(15,15,5)),
29 //          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
30 //IZUSRVMP DD PATH='&ROOT./defaults/izurf.tsoservlet.mapping.json'
31 //SYSOUT DD SYSOUT=H

```



```

SYS1.PROCLIB(IZUFPROC)
-----+---1---+---2---+---3---+---4---+---5---+---6---+---7---+--->80
1 //IZUFPROC PROC ROOT='/usr/lpp/zosmf' /* zOSMF INSTALL ROOT */
2 //          EXPORT SYMLIST=(XX)
3 //          SET QT=''''
4 //          SET XX=&QT.&ROOT.&QT.
5 //IZUFPROC EXEC PGM=IKJEFT01,DYNAMNBR=200
6 //*****+
7 //** TSO LOGON PROC FOR Z/OS DATA SET AND FILE REST INTERFACE
8 //**+
9 //** PROPRIETARY STATEMENT:
10//**+
11//**    LICENSED MATERIALS - PROPERTY OF IBM
12//**    5650-ZOS
13//**    COPYRIGHT IBM CORP. 2014, 2016
14//**    STATUS = HSMA220
15//*****+
16//CEE0PTS DD *,SYMBOLS=JCLONLY
17ENVAR("PATH=/bin:&X./bin")
18//SYSEXEC DD DISP=SHR,DSN=ISP.SISPEXEC
19//          DD DISP=SHR,DSN=SYS1.SBPXEXEC
20//SYSPROC DD DISP=SHR,DSN=ISP.SISPCLIB
21//          DD DISP=SHR,DSN=SYS1.SBPXEXEC
22//ISPLLIB DD DISP=SHR,DSN=SYS1.SIEALNKE
23//ISPLLIB DD DISP=SHR,DSN=ISP.SISPMENU
24//ISPTLIB DD RECFM=FB,LRECL=80,SPACE=(TRK,(1,0,1))
25//          DD DISP=SHR,DSN=ISP.SISPTENU
26//ISPSSLIB DD DISP=SHR,DSN=ISP.SISPMENU
27//ISPMILIB DD DISP=SHR,DSN=ISP.SISPMENU
28//ISPPROF DD DISP=NEW,UNIT=SYSDA,SPACE=(TRK,(15,15,5)),
29//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
30//IZUSRVMP DD PATH='&ROOT./defaults/izurft.tsoservlet.mapping.json'
31//SYSOUT DD SYSOUT=
32//CEEDUMP DD SYSOUT=H
33//SYSUDUMP DD SYSOUT=H
34//+
35

```

Step 8b. Open referenced data set with one click

- Hover on the name of SYS1.SBPXEXEC
 - For Windows, Hit Ctrl + Click to open the data set
 - For Mac, Hit Cmd + Click to open the data set

SYS1.PROCLIB(IZUFPROC)

SYS1.PROCLIB(IZUFPROC) :

```
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+----->80
 1 //IZUFPROC PROC ROOT='usr/lpp/zosmf' /* zOSMF INSTALL ROOT      */
 2 //          EXPORT SYMLIST=(XX)
 3 //          SET QT=''''
 4 //          SET XX=&ROOT.&QT.
 5 //IZUFPROC EXEC PGM=IKJEFT01,DYNAMNBR=200
 6 //*****+
 7 //** TSO LOGON PROC FOR Z/OS DATA SET AND FILE REST INTERFACE    */
 8 //**                                                               */
 9 //** PROPRIETARY STATEMENT:                                         */
10 //**                                                               */
11 //**     LICENSED MATERIALS - PROPERTY OF IBM                      */
12 //**     5650-ZOS                                         */
13 //**     COPYRIGHT IBM CORP. 2014, 2016                         */
14 //**     STATUS = HSMA220                                         */
15 //*****+
16 //CEEOPTS DD *,SYMBOLS=JCLONLY
17 | ENVAR("PATH=/bin:&XX./bin")
18 //SYSEXEC DD DISP=SHR,DSN=ISP.S Cmd + click to open the dataset
19 //          DD DISP=SHR,DSN=SYS1.SBPXEXEC
20 //SYSPROC DD DISP=SHR,DSN=ISP.SISPCLIB
21 //          DD DISP=SHR,DSN=SYS1.SBPXEXEC
22 //ISPLLIB DD DISP=SHR,DSN=SYS1.SIEALNKE
23 //ISPPLIB DD DISP=SHR,DSN=ISP.SISPENU
24 //ISPTLIB DD RECFM=FB,LRECL=80,SPACE=(TRK,(1,0,1))
25 //          DD DISP=SHR,DSN=ISP.SISPENU
26 //ISPSLIB DD DISP=SHR,DSN=ISP.SISPENU
27 //ISPMILIB DD DISP=SHR,DSN=ISP.SISPMENU
28 //ISPPROF DD DISP=NEW,UNIT=SYSDA,SPACE=(TRK,(15,15,5)),
29 //          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
30 //IZUSRVMP DD PATH='&ROOT./defaults/izurf.tsoservlet.mapping.json'
31 //SYSOUT   DD SYSOUT=H
```

```

        SYS1.PROCLIB(IZUFPROC)
        SYS1.SBPXEXEC

Members for SYS1.SBPXEXEC(40) ▾ Items per page: 100 1-40 of 40 items 1 of 1 page ⏪ ⏩ + ⏴

 BPXMOSHL
 BPXMTEXT
 BPXTIPCS
 BPXTIPC2
 BPXTIPRX
 BPXTRACE
 BPXBRED
 BPXWESL
 BPWFSSH
 BPXWGETX
 BPXWHERE
 BPXWH2Z
 BPXWIRAC
 BPXWISH

23 //ISPPLIB DD DISP=SHR,DSN=ISP.SISPENU
24 //ISPTLIB DD RECFM=FB,LRECL=80,SPACE=(TRK,(1,0,1))
25 //          DD DISP=SHR,DSN=ISP.SISPENU
26 //ISPSLIB DD DISP=SHR,DSN=ISP.SISPENU
27 //ISPMILIB DD DISP=SHR,DSN=ISP.SISPENU
28 //ISPPROF DD DISP=NEW,UNIT=SYSDA,SPACE=(TRK,(15,15,5)),
29 //          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
30 //IZUSRVMP DD PATH='&R00T./defaults/izurf.tsoservlet.mapping.json'
31 //SYSOUT DD SYSOUT=H

```

Step 8c. Open a referenced USS directory from Editor window

- Switch back to the window which displays content of SYS1.PROCLIB(IZUFPROC)
- Scroll up to the top of the content.
- Cmd+Click on usr/lpp/zosmf path

SYS1.PROCLIB(IZUFPROC)

SYS1.PROCLIB(IZUFPROC) :

```
-----+-----+-----+-----+-----+-----+-----+----->80
 1 //IZUFPROC PROC ROOT='/usr/lpp/zosmf' /* zOSMF INSTALL ROOT */
 2 //      EXPORT SYMLIST=(XX)
 3 //      SET QT=''''
 4 //      SET XX=&QT.&ROOT.&QT.
 5 //IZUFPROC EXEC PGM=IKJEFT01,DYNAMNBR=200
 6 //*****+
 7 //** TSO LOGON PROC FOR Z/OS DATA SET AND FILE REST INTERFACE */
 8 //*/
 9 //** PROPRIETARY STATEMENT: */
10 //*/
11 //**     LICENSED MATERIALS - PROPERTY OF IBM */
12 //**     5650-ZOS */
13 //**     COPYRIGHT IBM CORP. 2014, 2016 */
14 //**     STATUS = HSMA220 */
15 //*****+
16 //CEEOPTS DD *,SYMBOLS=JCLONLY
17 | ENVAR("PATH=/bin:&XX./bin")
18 //SYSEXEC DD DISP=SHR,DSN=ISP.SISPEXEC
19 //      DD DISP=SHR,DSN=SYS1.SBPXEXEC
20 //SYSPROC DD DISP=SHR,DSN=ISP.SISPCLIB
21 //      DD DISP=SHR,DSN=SYS1.SBPXEXEC
22 //ISPLLIB DD DISP=SHR,DSN=SYS1.SIEALNKE
23 //ISPPLIB DD DISP=SHR,DSN=ISP.SISPENU
24 //ISPTLIB DD RECFM=FB,LRECL=80,SPACE=(TRK,(1,0,1))
25 //      DD DISP=SHR,DSN=ISP.SISPENU
26 //ISPSLIB DD DISP=SHR,DSN=ISP.SISPENU
27 //ISPMILIB DD DISP=SHR,DSN=ISP.SISPMENU
28 //ISPPROF DD DISP=NEW,UNIT=SYSDA,SPACE=(TRK,(15,15,5)),
29 //      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
30 //IZUSRVMP DD PATH='&ROOT./defaults/izurf.tsoservlet.mapping.json'
31 //SYSOUT DD SYSOUT=H
```

SYS1.PROCLIB(IZUFPROC) /usr/lpp/zosmf ? - □ ×

/ usr / lpp / zosmf Results(13) Items per page: 100 1 - 13 of 13 < >

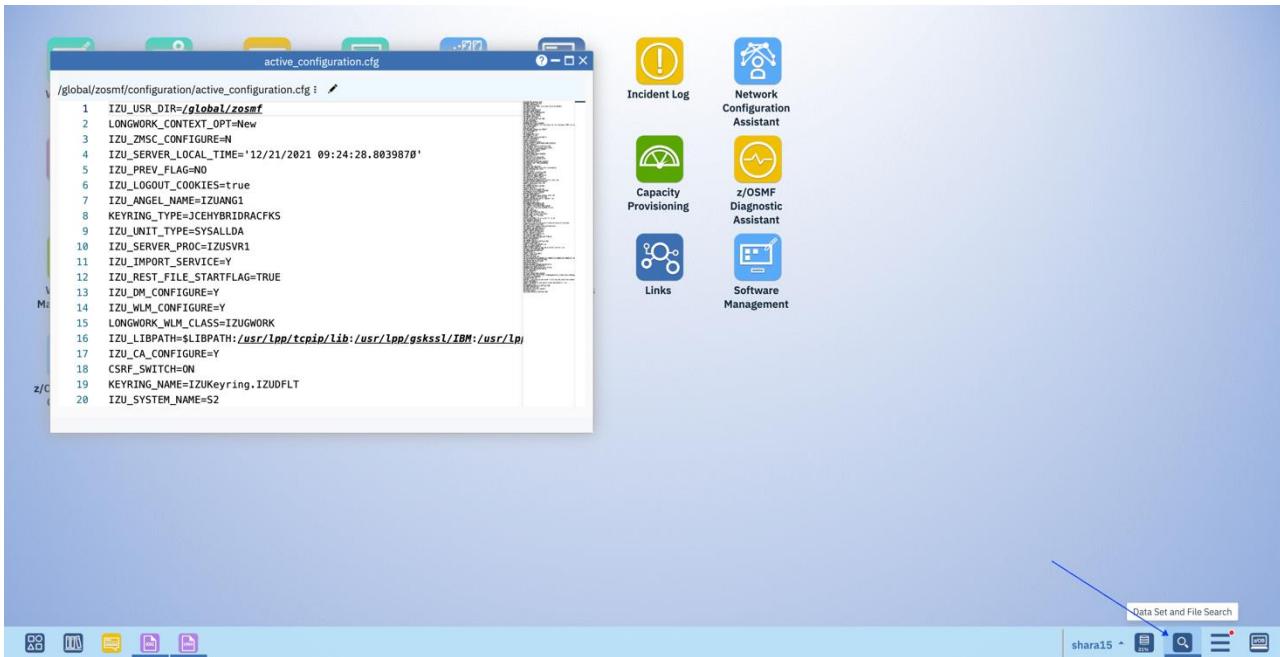
Name	Mode	Owner/Group	Size	Modify Time
bin	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2022-01-14T09:18
configuration	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2022-01-14T09:18
defaults	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2021-12-13T16:33
helps	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2021-04-20T02:51
IBM	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2022-01-14T09:18
installableApps	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2022-01-14T09:19
lib	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2022-01-14T09:19
samples	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2022-01-14T09:18
workflow	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2021-04-20T04:56
kc	drwxr-xr-x	BPXROOT/OMVSGRP	8192	2020-11-23T04:02
liberty	lrwxrwxrwx	BPXROOT/OMVSGRP	22	2021-12-09T09:04
zosmf_license README	-rwxr-xr-x	BPXROOT/OMVSGRP	84594	2021-12-13T16:33
._kc	-rw-----	BPXROOT/OMVSGRP	200	2020-11-23T04:02

```

23 //ISPPLIB DD DISP=SHR,DSN=ISP.SISPENU
24 //ISPTLIB DD RECFM=FB,LRECL=80,SPACE=(TRK,(1,0,1))
25 //          DD DISP=SHR,DSN=ISP.SISPENU
26 //ISPSLIB DD DISP=SHR,DSN=ISP.SISPENU
27 //ISPMILIB DD DISP=SHR,DSN=ISP.SISPENU
28 //ISPPROF DD DISP=NEW,UNIT=SYSDA,SPACE=(TRK,(15,15,5)),
29 //          DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
30 //IZUSRVMP DD PATH='&R00T./defaults/izurf.tsoservlet.mapping.json'
31 //SYSOUT    DD SYSOUT=H

```

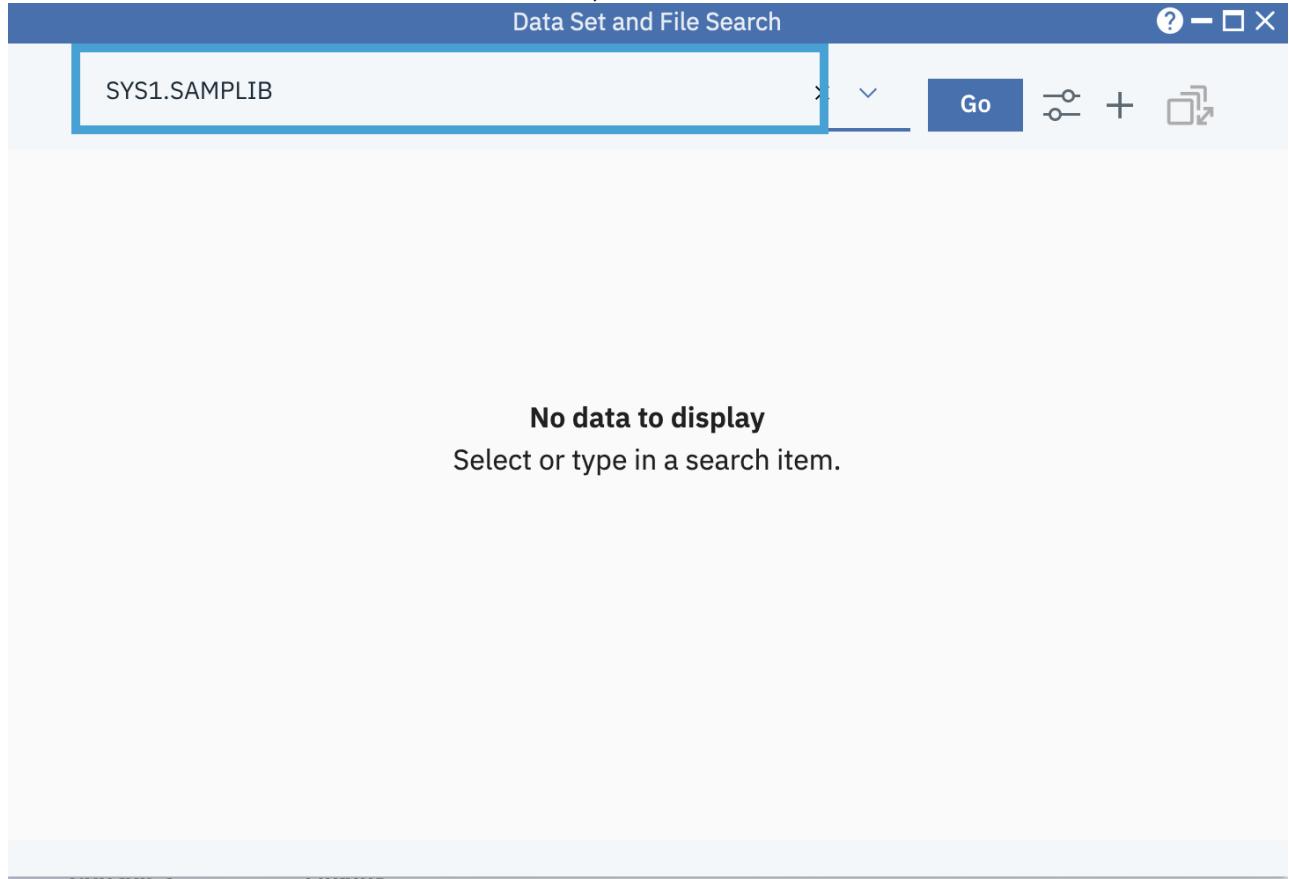
Now, let's select "Data Set and File Search" window again. If you cannot find the window, you can open it via clicking on the "Search" icon on the right of z/OSMF task bar like below.



9. Create shortcut for data set or data set member

Step 9a. Find the data set member SYS1.SAMPLIB(IZUAUTH)

- In the “Data Set and File Search” window, enter SYS1.SAMPLIB and then hit Enter.



Open member list of SYS1.SAMPLIB by clicking on the name of SYS1.SAMPLIB. Then enter “IZUAUTH” in the Filter input box to quickly find IZUAUTH sample job.

Data Set and File Search

Search / SYS1.SAMPLIB

Member pattern search

Members for SYS1.SAMPLIB(1) **IZUAUTH**

Items per page: 100 1-1 of 1 item 1 of 1 page

Go +

IZUAUTH

The screenshot shows the 'Data Set and File Search' interface with the search term 'SYS1.SAMPLIB' entered. The results pane displays a single member named 'IZUAUTH'. A blue arrow points from the text 'Step 9b.' to the member name 'IZUAUTH' in the results list.

Step 9b. Send IZUAUTH to desktop

Right click on IZUAUTH → select Send to →select Desktop.

Data Set and File Search

Search / SYS1.SAMPLIB

Member pattern search

Members for SYS1.SAMPLIB(1) **IZUAUTH**

Items per page: 100 1-1 of 1 item 1 of 1 page

IZUAUTH

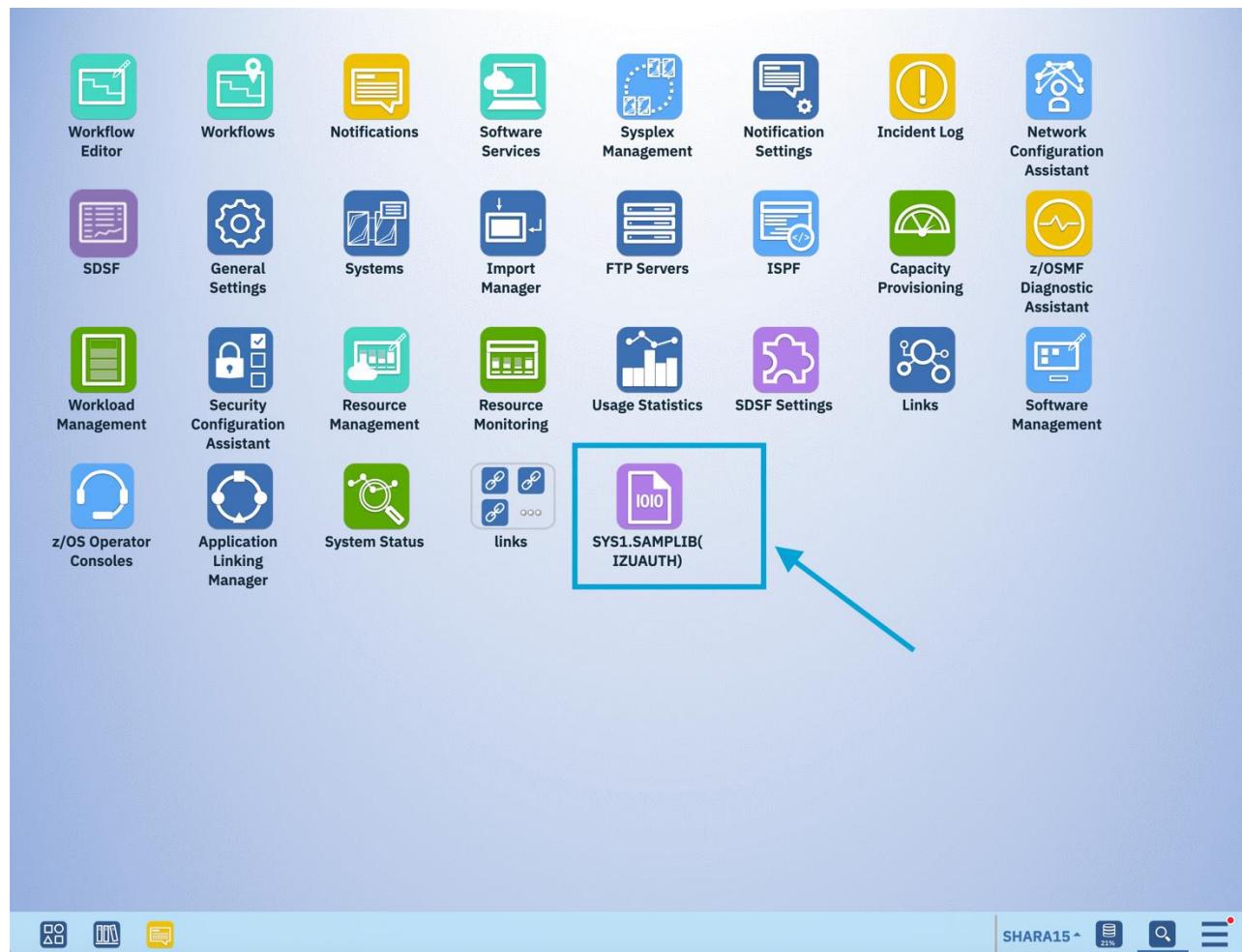
- Open
- Send to**
- Copy to
- Create Dataset Like
- Copy Name to Clipboard
- Rename
- Submit as JCL
- Delete
- Compare with SHARA15....(AIRIN2)
- Select Source for Compare

- Desktop**
- Folder

The screenshot shows the same search interface as before, but now with a context menu open over the 'IZUAUTH' entry. The 'Send to' option is highlighted. A sub-menu is displayed under 'Send to', with 'Desktop' also highlighted. Both the 'Send to' option and the 'Desktop' option are enclosed in blue boxes to indicate they are the focus of the step.

Step 9c. Check the shortcut

Double click on the background of z/OSMF desktop can quickly bring you back to the desktop. Then you will see the shortcut you just created for SYS1.SAMPLIB(IZUAUTH) on the desktop.



Step 9d. Open the shortcut

Double click on the icon of “SYS1.SAMPLIB(IZUAUTH)”, you can directly open the member for editing. The shortcut could help you to quickly locate some frequently used files or data sets in the future.

Step 9e. Submit job from z/OSMF Desktop Editor

- In the Editor window we opened for “SYS1.SAMPLIB(IZUAUTH)”, click on the 3 dots icon and then you will see a menu item “Submit as JCL”. Since you are operating with a shared system, we won’t perform this action. But if you do so, a separate Job Output window will be popped up for you to check job outputs.

```
SYS1.SAMPLIB(IZUAUTH)
-----+----1----+-----+-----+-----+-----+7-----
1 //IZUAUTH JOB          4-----+-----+-----+6-----+
2 //*****          5-----+-----+-----+7-----+
3 //* PROPRIETA          *****          IBM
4 //* Licensed           1),USER=XXXXXX,NOTIFY=XXXXXX
5 //* 5650-ZOS          *****
6 //* Copyright IBM Corp. 2014, 2019
7 //*
8 //* Status = HSMA240
9 //*****
10 //STEP1 EXEC PGM=IKJEFT01,DYNAMNBR=99
11 //SYSPRINT DD SYSOUT=*
12 //SYSTSPRT DD SYSOUT=*
13 //SYSTSIN DD *
14
15 /*
16 /* Begin "authorize user" Setup
17 /*
18 /*
19 /*
20 /* Begin zOSMF User Role by default
```

End of exercise



Thank You