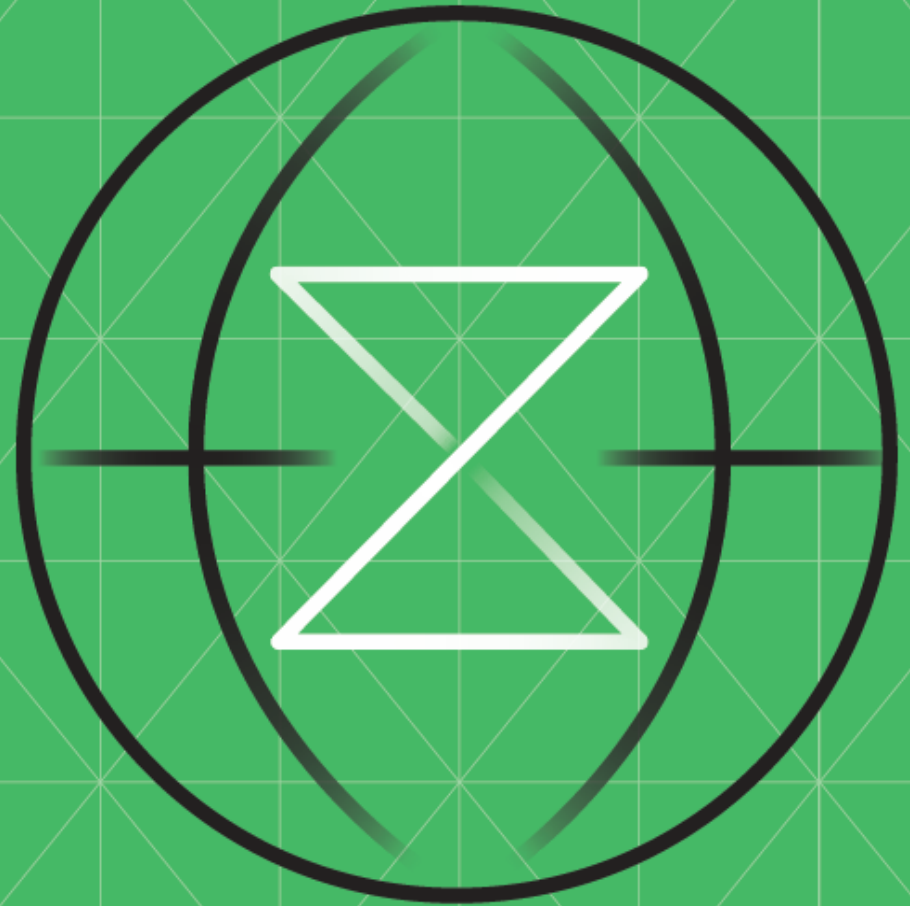


SDSF1

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RUN, CHECK, PRINT

The challenge will introduce you to SDSF, a very common utility used for view active jobs, joblog output, and printing - as well as many other services.

You will see some similarities with the JOBS view from the VSCode Zowe extension that you used in the Fundamentals challenges.

The Challenge

Get yourself introduced in the possibilities of SDSF. Run a Job, Check the status and process the output.

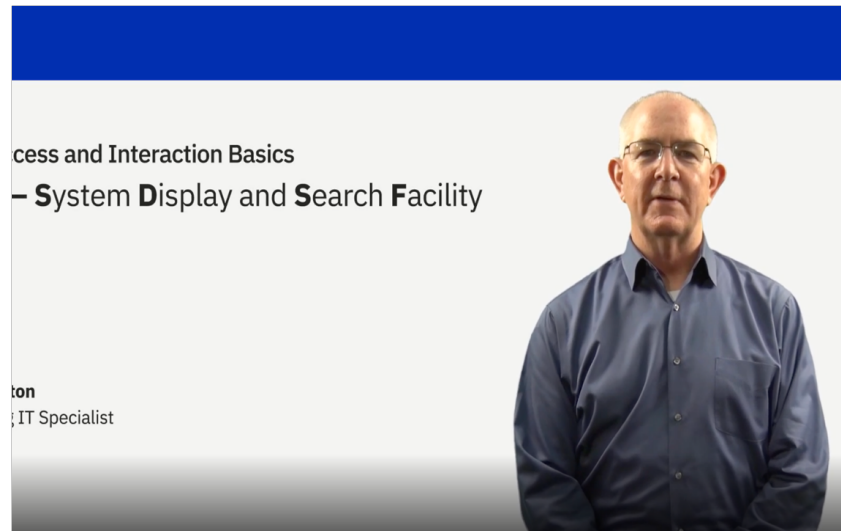
Before You Begin

Make sure you are familiar with ISPF, Datasets and JCL jobs.

Investment

Steps	Duration
9	45 minutes

1 SDFS - TO GET YOU STARTED



Check out this 8-minute video in which Paul Newton (Master the Mainframe) gives a great introduction to [SDFS](#)

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2 LET'S INVIESTIGATE

```
Menu Utilities Compilers Options Status Help
-----
                ISPF Primary Option Menu
                More: +
0 Settings      Terminal and user parameters      User ID . : Z99996
1 View          Display source data or listings    Time. . . : 06:46
2 Edit          Create or change source data       Terminal. : 3278
3 Utilities     Perform utility functions          Screen. . : 1
4 Foreground    Interactive language processing    Language. : ENGLISH
5 Batch         Submit job for language processing  Appl ID . : ISR
6 Command       Enter TSO or Workstation commands  TSO logon : DBPROCCG
7 Dialog Test   Perform dialog testing            TSO prefix: Z99996
8 LM Facility   Library administrator functions    System ID : SOW1
9 IBM Products  IBM program development products   MVS acct. : FB3
10 SCLM         SW Configuration Library Manager    Release . : ISPF 7.4
11 Workplace    ISPF Object/Action Workplace

        ----- Other Install Products -----

SD SDSF        System Display and Search Facility
IP IPCS        Inter Problem Control Facility
Option ==> sd
F1=Help        F2=Split      F3=Exit      F7=Backward F8=Forward  F9=Swap
F10=Actions    F12=Cancel

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```

Logon to TSO and navigate to your ISPF Primary Option Menu.

Enter **SD** on the "Option ==>" line to open up the SDSF main panel.

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3 SDSF MAIN MENU

```

Display Filter View Print Options Search Help
-----
SDSF MENU V2R4M0 SVSCPLEX SOW1 LINE 1-19 (64)
NP NAME Description Group Status
DA Active users Jobs
I Input Queue Jobs
O Output Queue Output
H Held output Queue Output
ST Status of jobs Jobs
JG Job groups JES
SYM System symbols System
LOG System log Log
SR System requests Log
MAS Members in the MAS JES
JC Job classes JES
SE Scheduling environments WLM
RES WLM resources WLM
ENC Enclaves WLM
PS Processes OMVS
SYS System information System
ENQ Enqueues System
COMMAND INPUT ==> owner z99996;prefix; st SCROLL ==> PAGE
F1=HELP F2=SPLIT F3=END F4=RETURN F5=IFIND F6=BOOK
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE
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```

Commands are available in SDSF to limit view to only input, execution, and output owned by your userid.

owner z#####	Instructs SDSF to limit view to what your userid owns
prefix z*	Instructs SDSF only show items beginning with z owned by your ID.
St	Instructs SDSF to provide status of entries based upon owner and prefix values
;	semicolon is a command separator. All commands separated by ; in the command stream are executed. e.g. <i>ST;SORT JOBID A</i>

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4 CUSTOMIZE YOUR SDSF VIEWS

```
Display Filter View Print Options Search Help
-----
SDSF STATUS DISPLAY ALL CLASSES                SET COMMA
PREFIX=* DEST=(ALL) OWNER=Z99996 SYSNAME=
NP  JOBNAME JobID Owner Prty Queue C Pos Saff ASy
    Z99996 TSU00204 Z99996 15 EXECUTION SOW1 SOW
    CHKSTAGE JOB00155 Z99996 1 PRINT A 488
    CHKSTAGE JOB00158 Z99996 1 PRINT A 490
    CHKSTAGE JOB00209 Z99996 1 PRINT A 515

-

COMMAND INPUT ==>
F1=HELP F2=SPLIT F3=END F4=RETURN F5=IFIND
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT
MA a
```

Type the following command on the **COMMAND INPUT ==>** Line:

```
set display on
```

This will show you the active filters (job prefix, owner, etc.).

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You can submit a JCL job by entering the `tso submit` command in the **COMMAND INPUT ==>** field as follows:

A message **SUBMITTED**, and another message indicating the job completed successfully with MAXCC=0000 are displayed - enter **0** to see the completed jobs.

6 CHECK YOUR WORK

```
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY CHKSTAGE JOB00460 DSID 102 LINE 6 COLUMNS 02- 81
COMMAND INPUT ==> SCROLL ==> PAGE
Response {"userid":"Z99996","challenge_id":"TS04","status":"NOTYET"}
***** BOTTOM OF DATA *****

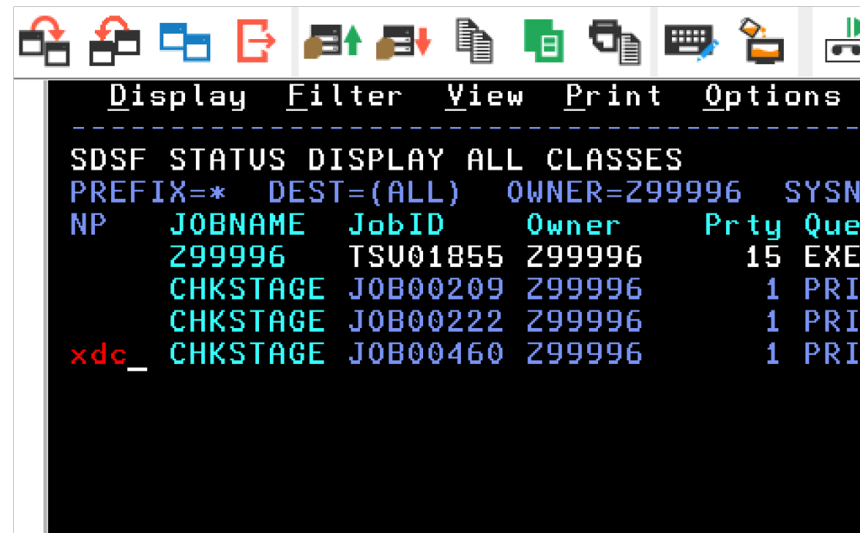
F1=HELP F2=SPLIT F3=END F4=RETURN F5=IFIND F6=BOOK
F7=UP F8=DOWN F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE
```

The result is a status of your TSO session which is in EXECUTION Queue.

Select the joblog output by putting an **s** in front of it. This opens the output file. Use F8 to scroll down and observe the final status of your job.

Note: It might be necessary to refresh the display with an extra enter for the JOBNAME to appear.

7 PRINT IT



```
SDSF STATUS DISPLAY ALL CLASSES
PREFIX=* DEST=(ALL) OWNER=Z99996 SYSNA
NP  JOBNAME  JobID   Owner    Prty  Queu
    Z99996   TSU01855 Z99996    15   EXEC
    CHKSTAGE JOB00209 Z99996     1   PRIM
    CHKSTAGE JOB00222 Z99996     1   PRIM
xdc_ CHKSTAGE JOB00460 Z99996     1   PRIM
```

The next step is to print the output to a dataset member, to save the output information. Joblogs are regularly cleared from the system to free “spool” space, so if you want to keep output, you will need to save it or print it.

Type `xdc` in front of the JOBNAME and press Enter.

8 SAVE IT

```
CHKSTAGE JOB00460          SDSF Open

Data set name   ==> output
Member to use   ==> TS04
Disposition     ==> SHR      (OLD, N

Management class ==>          (B
Storage class    ==>          (B
  Volume serial  ==>          (B
  Device type    ==>          (G
Data class       ==>          (B
  Space units    ==> BLKS     (B
  Primary quantity ==> 500    (I
  Secondary quantity ==> 500  (I
```

On the next screen you need to type the Dataset where you want to save the joblog file.

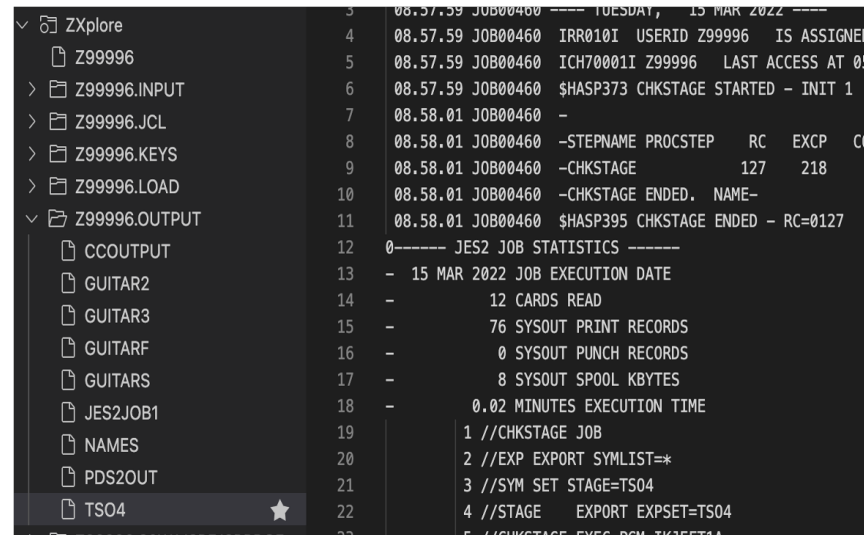
You should use your **OUTPUT** dataset.

The name of the member is to save to is **TS04**.

Select **SHR** as the disposition value and press Enter.

The output of the job will be written to your **OUTPUT(TS04)** dataset member.

9 WHAT TYPE ARE YOU?



```
3 08.57.59 JOB00460 ---- TUESDAY, 15 MAR 2022 ----
4 08.57.59 JOB00460 IRR010I USERID Z99996 IS ASSIGNED
5 08.57.59 JOB00460 ICH70001I Z99996 LAST ACCESS AT 05
6 08.57.59 JOB00460 $HASP373 CHKSTAGE STARTED - INIT 1
7 08.58.01 JOB00460 -
8 08.58.01 JOB00460 -STEPNAME PROCSTEP RC EXCP COM
9 08.58.01 JOB00460 -CHKSTAGE 127 218
10 08.58.01 JOB00460 -CHKSTAGE ENDED. NAME-
11 08.58.01 JOB00460 $HASP395 CHKSTAGE ENDED - RC=0127
12 0----- JES2 JOB STATISTICS -----
13 - 15 MAR 2022 JOB EXECUTION DATE
14 - 12 CARDS READ
15 - 76 SYSOUT PRINT RECORDS
16 - 0 SYSOUT PUNCH RECORDS
17 - 8 SYSOUT SPOOL KBYTES
18 - 0.02 MINUTES EXECUTION TIME
19 1 //CHKSTAGE JOB
20 2 //EXP EXPORT SYMLIST=*
21 3 //SYM SET STAGE=TS04
22 4 //STAGE EXPORT EXPSET=TS04
23 5 //CHKSTAGE EXEC RCM TK15531A
```

Now use your favorite way of checking if the member is there.

Which would you use? The 3270 terminal or VSCode?

It's up to you ...

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Nice job - let's recap	Next up ...
<p data-bbox="143 165 1489 284">Congratulations! You just finished your first steps in SDSF. You ran a JCL job, checked the Job output and saved the output in a dataset member.</p> <p data-bbox="143 322 1489 360">Imagine the possibilities when you run a dozen jobs at the same time ...</p>	<p data-bbox="1559 225 2063 301">Let's continue with TS05 - debugging JCL with SDSF.</p>