



### **Connecting to your z/OS Sysplex MQS1**


Audience level: Some knowledge of MQ or z/OS

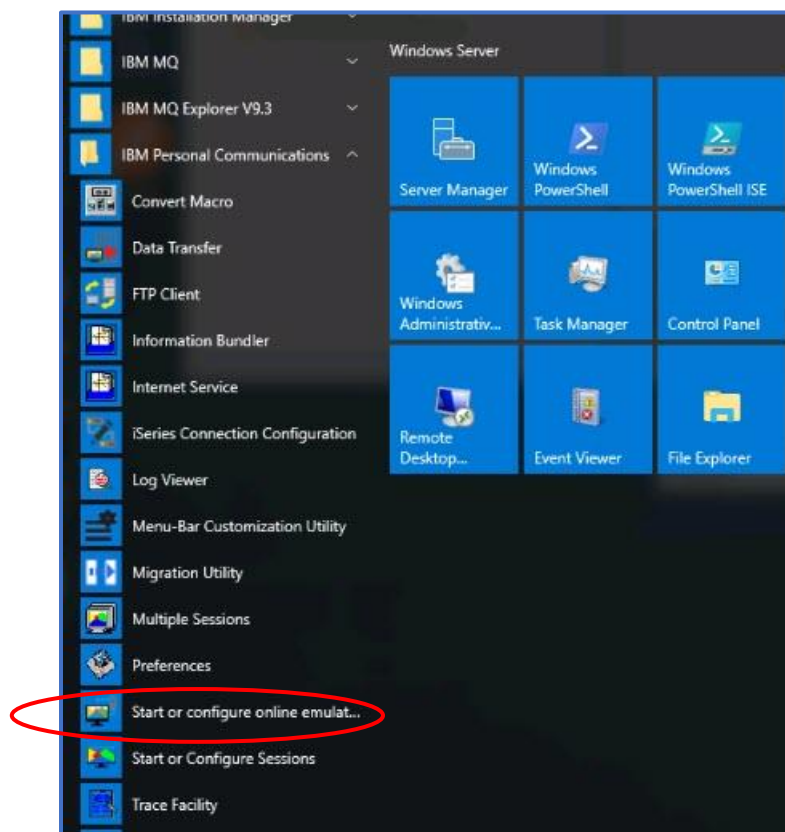
Skillset: z/OS Systems Programming, MQ Administration

## Introduction

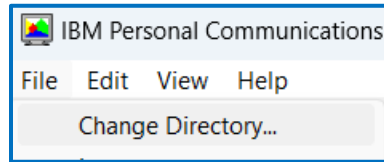
This lab is designed to connect the user to the Sysplex they have been assigned. It will cover a couple of different connections (PCOMM, MQ Explorer) and some basic queue manager commands.

## Lab Steps

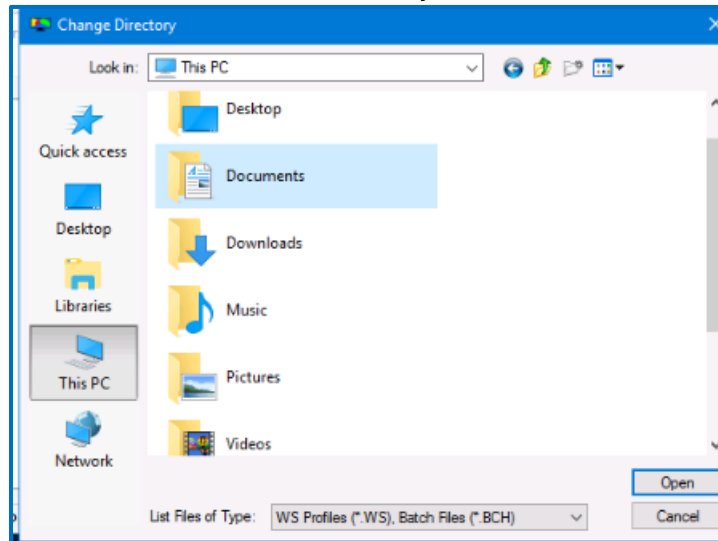
- 1) If you have not already done so, please connect to the browser instance you were assigned. Note that your user ID is always Administrator and the password is associated with the unique URL.
- 2) Please look on the panel for a PCOMM connection symbol  labeled 'MQS1' or 'MQS2.' If you do not see it, please follow these steps to get it added:
  - a. From the Windows programs, please expand the IBM Personal Communications group and select 'Start or Configure Sessions' as shown here:



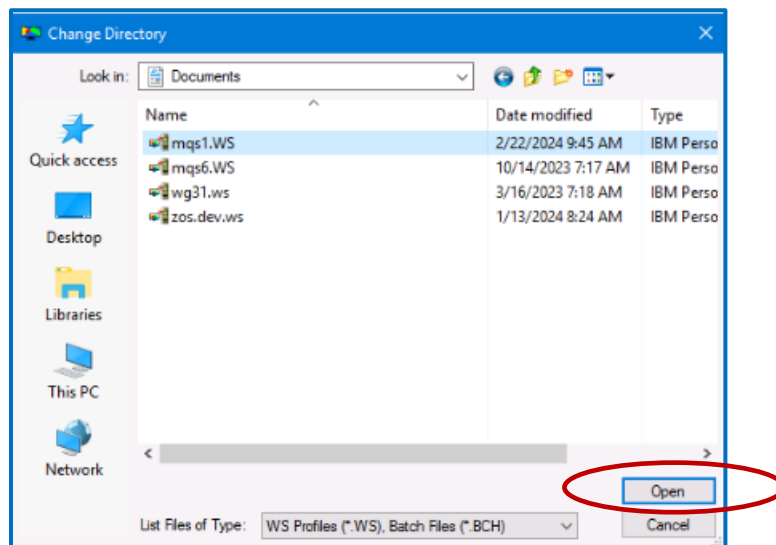
- b. Some of our Windows images do not have the correct directory for PCOMM sessions. If the Session Manager pane comes up empty, please change the directory that PCOMM uses.
- In the upper left hand corner of the Session manager pane, please chose 'File' then Change Directory



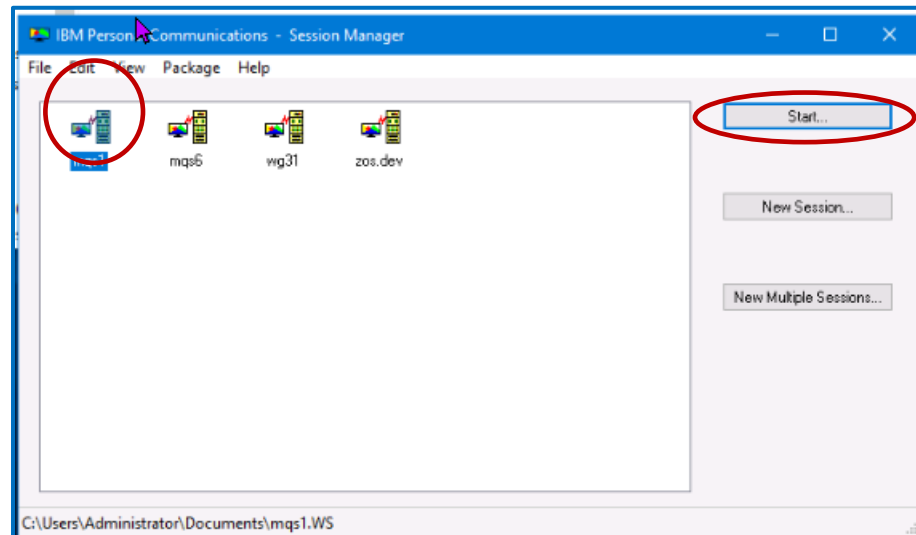
- Select the Documents directory



- If you see the MQS1 'WS' file, please click on 'Open' as shown.



- iv. IF you do not see the 'mqz1.WS' file, please notify Dorothy or Lyn immediately. We may need to reset your image.
- v. If you do see the file, after clicking on Open, your 'Session Manager' pane should look something like this:



- c. Highlight 'mqz1' and click on the 'Start' button.
- 3) If you do see the 'mqz1' icon, please click on it.
  - 4) At this point the WSC MQPLEX1 should be shown. It may take a minute or so to connect.
  - 5) Enter 'mqz1 user1' and press the enter key (note it may be the right hand 'ctrl' key or the actual enter key depending on your keyboard map. If you would like to change the enter key and do not know how to alter your keyboard, please ask Dorothy or Lyn for assistance.

```
MSG10
WSC MQPLEX1

Enter: mqs1 user1_
MQSx - TSO on MQSx (MQS1 or MQS2)
MQSxCICS - for CICS on MQSx (MQS1CICS or MQS2CICS)

Your IP Address: 198.18.0.8 Your Telnet Port: 50927
-----Last Command:
LU: MQS1TC03 Sense Code: Date: 02/22/24 Time: 12:56:39

ME A 09/028
Connected to remote server/host 129.40.114.144 using lu/pool MQS1TC03 and port 23
```

- 6) At this point you should see the TSO logon screen. Please use the enter key to take you to the ISPF manu.

```
----- TSO/E LOGON -----

Enter LOGON parameters below:          RACF LOGON parameters:

Userid ==> USER1

Procedure ==> IKJACCNT          Group Ident ==>

Acct Nmbr ==> ACCNT#

Size ==> 2096128

Perform ==>

Command ==> ISPPDF

Enter an 'S' before each option desired below:
-New Password -Nomail -Nonotice -Reconnect -OIDcard

PF1/PF13 ==> Help   PF3/PF15 ==> Logoff   PA1 ==> Attention   PA2 ==> Reshow
You may request specific help information by entering a '?' in any entry field

ME A 10/020
Connected to remote server/host 129.40.114.144 using lu/pool MQS1TC03 and port 23
```

7) The menu looks as follows:

```
File Edit Settings View Communication Actions Window Help
Menu Utilities Compilers Options Status Help

ISPF Primary Option Menu

0 Settings      Terminal and user parameters      User ID . : USER1
1 View          Display source data or listings      Time. . . : 12:58
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 TS0 commands                  TS0 logon : IKJACCT
7 Dialog Test   Perform dialog testing              TS0 prefix: USER1
9 IBM Products  IBM program development products    System ID : MQS1
10 SCLM         SW Configuration Library Manager    MVS acct. : ACCNT#
                                           Release . : ISPF 8.1

Licensed Materials - Property of IBM
5655-Z0S Copyright IBM Corp. 1980, 2023.
US Government Users Restricted Rights -
Use, duplication or disclosure restricted
by GSA ADP Schedule Contract with IBM Corp.

Option ==>
F1=Help      F2=Split    F3=Exit     F7=Backward F8=Forward  F9=Swap
F10=Actions  F12=Cancel

MA A 22/014
Connected to remote server/host 129.40.114.144 using lu/pool MQS1TC03 and port 23
```

8) You have now successfully connected to the Sysplex LPAR MQS1!

9) Check to see if the queue manager is running:

- a. On the 'Option' line, please enter 13 to navigate to the z/OS User panel.
- b. Then enter '14' to select SDSF

```
z/OS Applications

4 DFSMSrmm      DFSMSrmm/ISMF
5 DFSMSdftp     DFSMSdftp/ISMF
8 IPCS          IPCS for dump reading
9 Unix Browse   z/OS Unix Browse Files
10 Unix Edit    z/OS Unix Edit Files
11 Unix Shell   z/OS Unix Shell
12 Security     Security Server
13 TSO/E ICF    TSO/E Information Center Facility
14 SDSF         SDSF

Option ==> 14
F1=Help      F2=Split      F3=Exit      F7=Backward  F8=Forward  F9=Swap
F12=Cancel
```

- c. From the SDSF menu, please select DA and as a convenience change the 'scroll' value from Page to CSR (cursor position) as shown.

```

Display Filter View Print Options Search Help
-----
SDSF MENU 3.1      MQPLEX1  MQS1                      LINE 1-19 (94)
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 ==> DA                      SCROLL ==> CSR
_F1=HELP      F2=SPLIT      F3=END        F4=RETURN     F5=RFIND      F6=RCHANGE
_F7=UP        F8=DOWN      F9=SWAP      F10=LEFT     F11=RIGHT    F12=RETRIEVE

```

- d. Enter the command 'f ZSQ1' to search for the queue manager as shown:

```

OMVS      OMVS      OMVS                      NS  FF 103T  0.00  0.88
COMMAND INPUT ==> f ZSQ1                      SCROLL ==> CSR

```

- e. If the response is **\*BOTTOM OF DATA REACHED\***, then the queue manager is not started yet.

- f. To start the queue manager, enter the start command as shown:

```

COMMAND INPUT ==> /ZQS1 START QMGR

```

Note that the command prefix for our queue managers is the queue manager name only, we don't use special characters for these.

- g. You should bet a 'NO RESPONSE RECEIVED' replay, then do a search for ZQS1 again.

- h. The started queue manager should then show up in the 'Active Users' list, as seen here:



Display Filter View Print Options Search Help											
SDSF	DA	MQS1	MQS1	PAG	0	CPU	5	CHARS 'ZQS1' FOUND			
NP	JOBNAME	StepName	ProcStep	JobID	Owner	C	Pos	DP	Real	Paging	SIO
	ZQS1MSTR	ZQS1MSTR	PROCSTEP	STC08489	SYSPROG	NS	FE	23T	0.00	0.00	
	TCPIP	TCPIP	TCPIP	STC08427	SYSPROG	NS	FE	8372	0.00	0.00	
	RMFGAT	RMFGAT	IEFPROC	STC08428	SYSPROG	NS	FE	21T	0.00	0.00	

- i. Next, start the channel initiator address space by entering

```
COMMAND INPUT ==> /zqs1 start chinit
```

The response should be:

SDSF	DA	MQS1	MQS1	PAG	0	CPU	5	CHARS 'ZQS1' FOUND			
	RESPONSE=MQS1		CSQM138I	ZQS1	CSQMSCHI	CHANNEL	INITIATOR	STARTING			

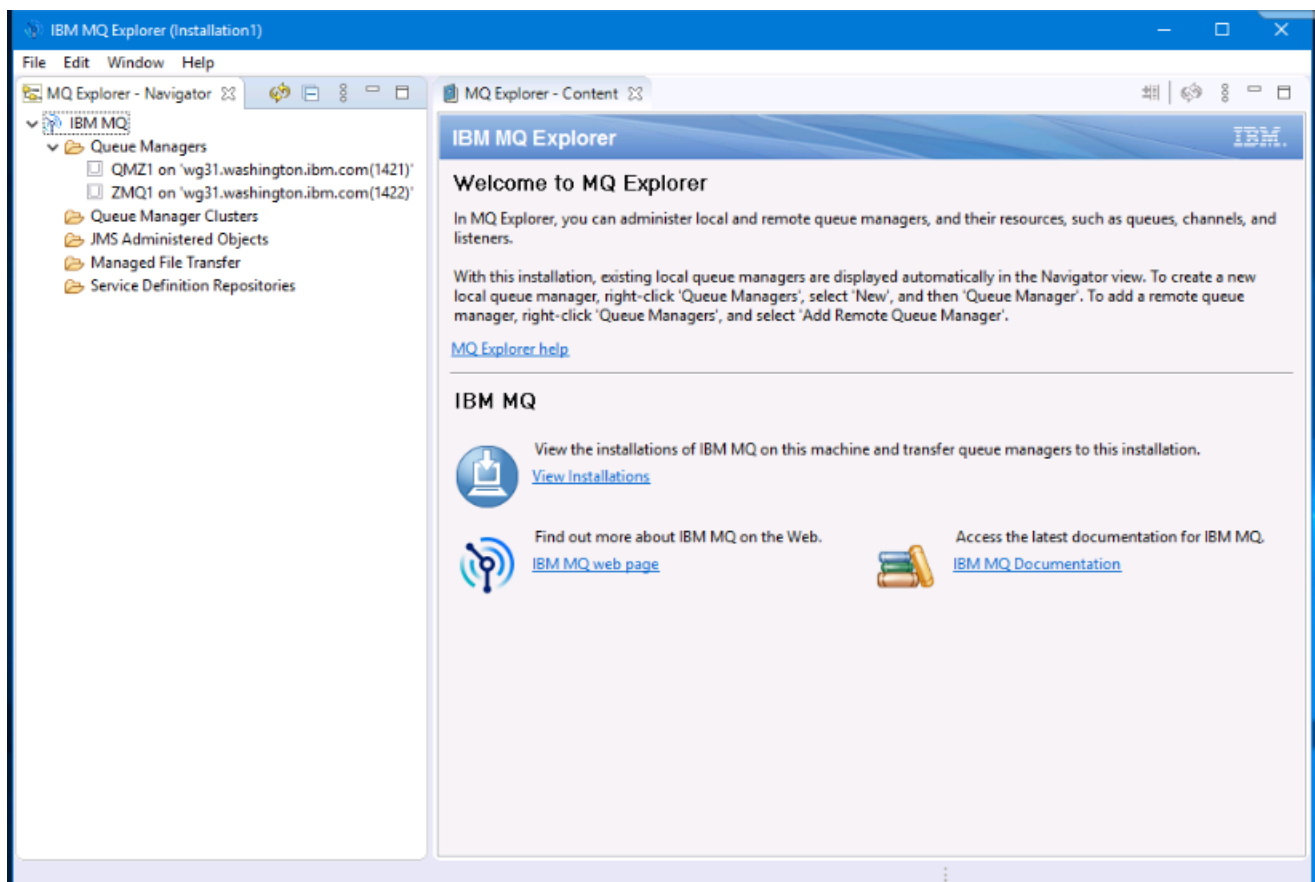
- j. Using the enter key, the CHIN should now show up in the active users list:

SDSF	DA	MQS1	MQS1	PAG	0	CPU	5	LINE 57-70 (70)			
NP	JOBNAME	StepName	ProcStep	JobID	Owner	C	Pos	DP	Real	Paging	SIO
	ZQS1MSTR	ZQS1MSTR	PROCSTEP	STC08489	SYSPROG	NS	FE	24T	0.00	0.50	
	TCPIP	TCPIP	TCPIP	STC08427	SYSPROG	NS	FE	8372	0.00	0.00	
	RMFGAT	RMFGAT	IEFPROC	STC08428	SYSPROG	NS	FE	21T	0.00	0.08	
	GPMSEVE	RMFDDS01	STEP1	STC08470	SYSPROG	NS	FE	6782	0.00	0.00	
	D3A1DBM1	D3A1DBM1	IEFPROC	STC08465	SYSPROG	NS	FE	66T	0.00	0.00	
	D3A1ADMT	D3A1ADMT	STARTADM	STC08467	SYSPROG	IN	FE	3011	0.00	0.01	
	D3A1DIST	D3A1DIST	IEFPROC	STC08466	SYSPROG	NS	FE	4884	0.00	0.00	
	D3A1IRLM	D3A1IRLM		STC08461	SYSPROG	NS	FE	10T	0.00	0.00	
	TN3270	TN3270	TN3270	STC08454	SYSPROG	NS	FE	2393	0.00	0.00	
	MQS1CICS	MQS1CICS	CICS	STC08471	CICSSTC	NS	FE	25T	0.00	0.00	
	BP01	BP01	BP01			NS	FE	1337	0.00	0.00	
	D3A1MSTR	D3A1MSTR	IEFPROC	STC08460	SYSPROG	NS	FE	2573	0.00	0.58	
	PORTMAP	PORTMAP	PORTMAP	STC08453	SYSPROG	LO	FF	514	0.00	0.00	
	ZQS1CHIN	ZQS1CHIN	PROCSTEP	STC08492	SYSPROG	IN	FE	6267	0.00	10.64	

- 10) Now that the queue manager and channel initiator have started, it is time to connect the MQ Explorer to the queue manager. Return to the windows image, Click on the MQ Explorer as shown here:



11) The MQ Explorer panel should look something like this:



12) Notice that there is no entry for ZQS1, so we need to add a connection to that queue manager. To do this, right click on the Queue Managers folder and select 'Add remote queue manager.'

- 13) The 'Add queue manager' pane should appear. Please fill in the queue manager name ZQS1 – CASE MATTERS! Then please click on the Next button.

**Add Queue Manager**

**Select the queue manager and connection method**  
Identify the queue manager to add and choose the connection method to use

Queue manager name:

How do you want to connect to this queue manager?

☒ Connect directly  
This option creates a new connection to the queue manager (recommended)

☐ Connect using a client channel definition table  
This option uses a CCDT to create a new connection to the queue manager

☐ Connect using an intermediate queue manager  
This option uses an existing connection from another queue manager  
(Recommended when new connections are restricted)

Ensure that the specified queue manager is configured for remote access. [More information](#)

? < Back Next > Finish Cancel

- 14) On the Specify new connection details panel, enter the host name as clone1mqsl and the port number as 1424 as shown. Please then click on the 'Finish' button.

**Add Queue Manager**

**Specify new connection details**  
Provide details of the connection you want to set up

Queue manager name:

Connection details

Host name or IP address:

Port number:

Server-connection channel:

☐ Is this a multi-instance queue manager?

Connection details to second instance

Host name or IP address:

Port number:

Server-connection channel:

☐ Automatically connect to this queue manager at startup or if the connection is lost

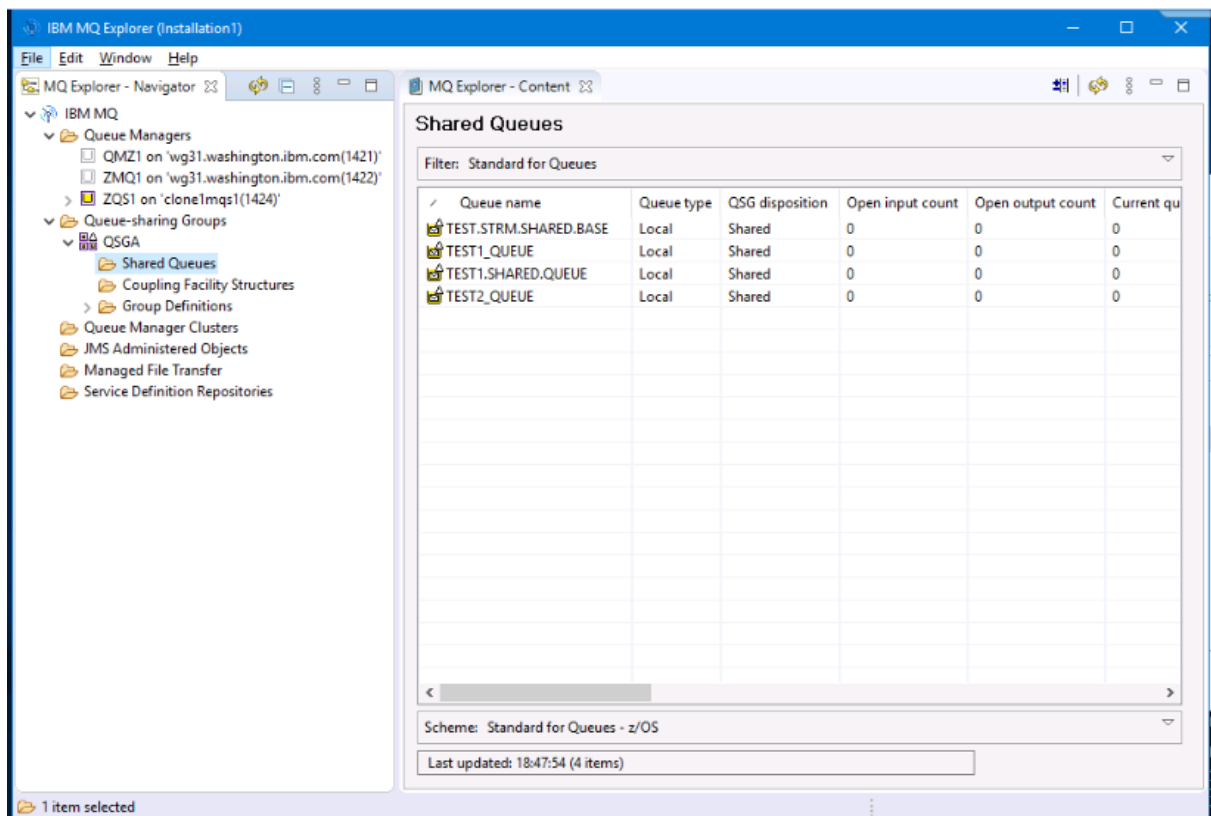
☒ Automatically refresh information shown for this queue manager

Refresh interval (seconds):

The name clone1mqs1 has been created in the etc hosts file for convenience.

IF you have trouble connecting, please ask Dorothy and Lyn for assistance.

- 15) The queue managers panel is displayed showing the new queue manager, and a new folder for the Queue Sharing Group. Expanding that folder will show the queue sharing group resources.



Congratulations! Your Windows image is now fully connected to the back end Sysplex.