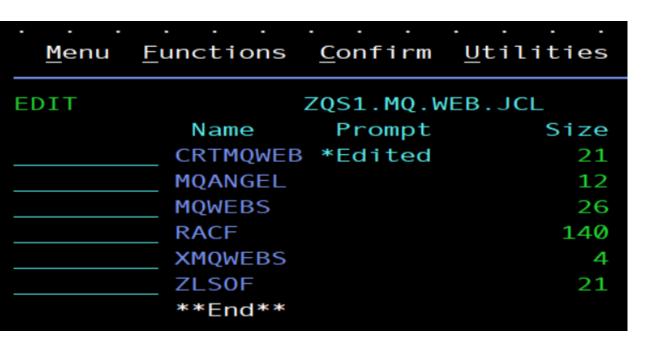


MQ for z/OS – Introduction to the MQ Web Console





Essential JCL



CRTMQWEB – Executes command to create web server

MQANGEL - Start the Liberty angel process for MQ MQWEBS -

```
Edit Settings Menu Utilities Compilers Test
 File
      Edit
                                                             Help
EDIT
          ZQS1.SCSQPROC(CSQ4WEBS) - 01.00
                                                         Columns 00001 00072
      ****** Top of Data *****
      -Warning- The UNDO command is not available until you change
==MSG>
                your edit profile using the command RECOVERY ON.
==MSG>
000001 //*****
000002 //*
000003 //* <copyright
000004 //* notice="lm-source"
000005 //* pids="5655-MQ9"
000006 //* years="2016,2022"
000007 //* crc="544194289" >
000008 //* Licensed Materials - Property of IBM
000009 //*
000010 //* 5655-M09
000011 //*
000012 //* (C) Copyright IBM Corp. 2016, 2022 All Rights Reserved.
000013 //* </copyright>
000014 //*
Command ===>
                                                            Scroll ===> CSR
```

```
Edit Edit Settings Menu Utilities Compilers Test
 File
EDIT
          ZQS1.MQ.WEB.JCL(CRTMQWEB) - 01.08
                                                      Columns 00001 00072
==MSG> -Warning- The UNDO command is not available until you change
==MSG>
               your edit profile using the command RECOVERY ON.
000001 //CRTMQWEB JOB 'MQ WEB', CLASS=A, REGION=0M, MSGCLASS=H,
000002 // NOTIFY=&SYSUID
000004 //* SET SYMBOLS
000006 //EXPORT EXPORT SYMLIST=(*)
000007 // SET JAVAHOME='/usr/lpp/java/J8.0 64'
000008 // SET MQPATH='/usr/lpp/mgm/V9RXMX'
000009 // SET WLPUSER='/var/mgm'
000011 //* Step crtmgweb - Use the crtmgweb command
000012 //**************
000013 //CRTMQWEB EXEC PGM=IKJEFT01, REGION=0M
000014 //SYSTSPRT DD SYSOUT=*
Command ===>
                                                         Scroll ===> CSR
```

BROWSE		ZQS1.MQ.WEB.J	CL		Row 0000001 or	0000006
	Name	Prompt	Size	Created	Changed	ID
	_ CRTMQWEB		21	2024/01/08	2024/04/19 13:16:08	B DQUINCY
	MQANGEL		12	2024/01/08	2024/05/07 16:03:52	DQUINCY
	MQWEBS		24	2024/01/08	2024/05/14 13:10:32	DQUINCY
	RACF		140	2024/01/08	2024/04/19 13:32:08	B DQUINCY
	XMQWEBS		4	2024/01/08	2024/04/19 12:56:08	B DQUINCY
	ZLS0F		21	2024/02/18	2024/04/19 12:56:37	DQUINCY
	End					

crtmqweb

```
Top of Data
//CRTMQWEB JOB 'MQ WEB', CLASS=A, REGION=0M, MSGCLASS=H,
// NOTIFY=&SYSUID
     SET SYMBOLS
//EXPORT EXPORT SYMLIST=(*)
      JAVAHOME='/usr/lpp/java/J8.0 64
      MQPATH='/usr/lpp/mqm/V9RXMX'
      WLPUSER='/var/mgm'
     Step crtmgweb - Use the crtmgweb command
//CRTMQWEB EXEC PGM=IKJEFT01, REGION=0M
//SYSTSPRT DD SYSOUT=*
//SYSERR
           DD SYSOUT=*
           DD SYSOUT=*
//STDOUT
//SYSTSIN
           DD *, SYMBOLS=EXECSYS
BPXBATCH SH +
export JAVA HOME=&JAVAHOME; +
export WLP USER DIR=&WLPUSER; +
&MQPATH/bin/crtmgweb &WLPUSER -p MQ
                          ***** Bottom of Data
```

Running the crtmqweb...

		z/OS UNIX Dire	ctory	List	Row	1 to	10 of 10
EUID	. : /MQS1/var/mo . : 91 Filename	qm/servers/mqweb Message	Туре	Permission	Audit	Ext	Fmat
	apps basic_registry. dropins jvm.options lib mqwebuser.xml server.env server.xml	Added in	Dir File Dir File File	rwxrwxrwx rwxrwxrwx rwxrwxrwx rw-rr rwxrwxrwx rw-rr rwxrwxrwx rw-rr	fff fff fff fff	s- s- s-	
*****	*******	****** Bottom of	data	*****	******	****	*****

mqwebuser.xml

```
<featureManager>
      <feature>appSecurity-2.0</feature>
      <feature>zosSecurity-1.0</feature>
      <feature>basicAuthenticationMQ-1.0</feature>
      <feature>apiDiscovery-1.0</feature>
  </featureManager>
  <basicRegistry id="basic" realm="defaultRealm">
       <user name="mgadmin" password="mgadmin"/>
       <group name="MQWebAdminGroup">
          <member name="mgadmin"/>
       </group>
   </basicRegistrv>
<logging traceSpecification=</pre>
"*=info:com.ibm.mq*=all:com.ibm.mq.rest*=all:js.mq*=all"/>
 <enterpriseApplication id="com.ibm.mq.console"/>
  <enterpriseApplication id="com.ibm.mq.rest"/>
  <safAuthorization racRouteLog="ASIS"/>
  <safRegistry id="saf"/>
```

Continued...

server.xml

Add MQWEB to started procedure

```
EDIT
           SYS1.PROCLIB(MQWEBS) - 01.05
                                                             Columns 00001 00072
                                      Top of Data
=MSG> -Warning- The UNDO command is not available until you change
                 your edit profile using the command RECOVERY ON.
=MSG>
000001 //MQWEBS PROC PARMS='mgweb --clean'
000002 //*
           SET INSTDIR='/usr/lpp/mgm/V9RXMX/web'
000003
           SET USERDIR='/var/mgweb'
000005 //*
000006 //MQCONSOL EXEC PGM=BPXBATSL.REGION=0M.TIME=NOLIMIT.
000007
           PARM='PGM &INSTDIR./lib/native/zos/s390x/bbgzsrv &PARMS.'
000008 //WLPUDIR
                  DD PATH='&USERDIR.'
                  DD DSN=MQ935CD.SCSQANLE
000009
       //STEPLIB
                                           .DISP=SHR
                     DSN=M0935CD.SCSQAUTH
000010 //
                                           .DISP=SHR
                  DD SYSOUT=*
000011 //STDOUT
000012 //STDERR
                  DD SYSOUT=*
000013 //STDIN
                     DUMMY
000014 //STDENV
                  DD
000015
       JAVA HOME=/usr/lpp/java/J8.0 64
Command ===>
                                                                Scroll ===> CSR
F1=Help
              F2=Split
                                                       F5=Rfind
                                                                    F6=Rchange
                            F3=Exit
                                         F4=Expand
 F7=Up
              F8=Down
                                        F10=Left
                                                                    F12=Cancel
                            F9=Swap
                                                      F11=Right
                                                                           22/015
```

Continued...

```
EDIT
                                                            Columns 00001 00072
           SYS1.PROCLIB(MQWEBS) - 01.05
000016
      WLP USER DIR=/var/mgm/servers/mgweb
      PATH=/usr/lpp/mqm/V9RXMX/web/bin:/bin:/usr/bin
000017
000018 L
       _IBPATH=/usr/lpp/java/J8.0 64/lib
000019
      //ZTDENV
                  DD ×
000020
      JAVA HOME=/usr/lpp/java/J8.0 64
000021
      WLP USER DIR=/var/mgm/servers/mgweb
      PATH=/usr/lpp/mgm/V9RXMX/web/bin:/bin:/usr/bin
000022
      LIBPATH=/usr/lpp/java/J8.0 64/lib
000023
000024 IBM JAVA OPTIONS=-Dcom.ibm.ws.zos.core.angelName=MQANGEL
                                     Bottom of Data
```

Add MQANGEL JCL to the started procedure

```
SYS1.PROCLIB(MQANGEL) - 01.04
                                                   Line 0000000000 Col 001 080
BROWSE
             ****** Top of Data
//MQANGEL PROC PARMS='', COLD=N, NAME='MQANGEL', SAFLOG=Y
   SET ROOT='/usr/lpp/mqm/V9RXMX/web'
//* SET ROOT='/usr/lpp/mqm/V9R3M4/web'
//* Start the Liberty angel process for MQ
//STEP1
         EXEC PGM=BPXBATA2.REGION=ØM.TIME=NOLIMIT.
       PARM='PGM &ROOT./lib/native/zos/s390x/bbgzangl COLD=&COLD NAME=X
              &NAME &PARMS SAFLOG=&SAFLOG'
           DD SYSOUT=*
//STDOUT
//STDERR
           DD SYSOUT=*
                         ***** Bottom of Data
```