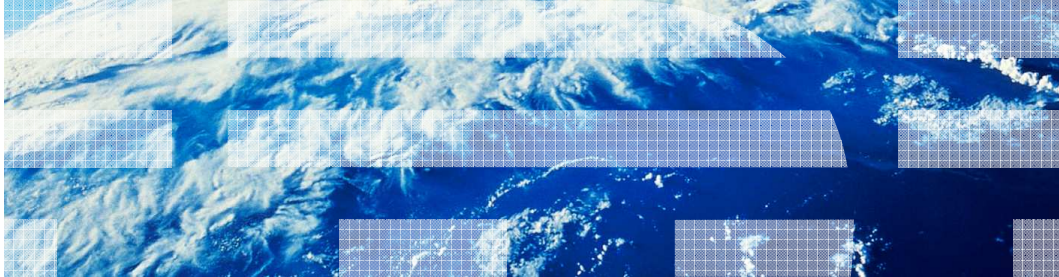


Tivoli Event Pump for z/OS V4.2.2

Enabling Sysplex Support



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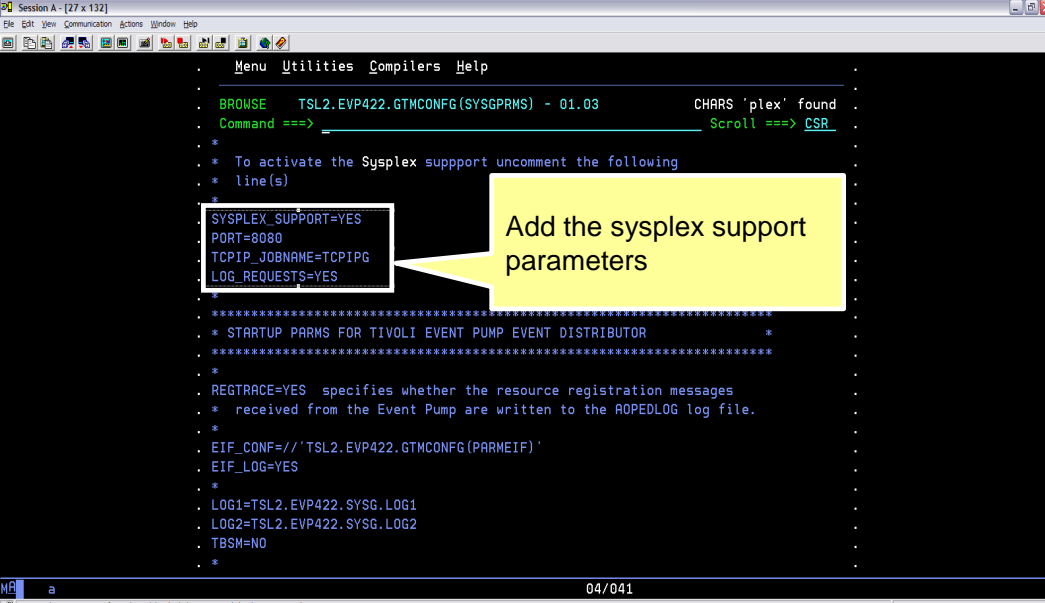
Tivoli® Event Pump for z/OS® V4.2.2, Enabling Sysplex Support.

Objectives

When you complete this module, you can enable sysplex support for Tivoli Event Pump for z/OS to allow the monitoring of jobs that are able to run on any system in the sysplex

When you complete this module, you can enable sysplex support for Tivoli Event Pump for z/OS to allow the monitoring of jobs that are able to run on any system in the sysplex.

Event Pump configuration parameters



```
Session A - [27 x 132]
File Edit Jobs Communication Actions Window Help
Menu Utilities Compilers Help
BROWSE TSL2.EVP422.GTMCONFG(SYSGPRMS) - 01.03 CHARS 'plex' found
Command ==> Scroll ==> CSR
*
* To activate the Sysplex support uncomment the following
* line(s)
*
SYSPLEX_SUPPORT=YES
PORT=8080
TCPIP_JOBNAME=TCPIPG
LOG_REQUESTS=YES
*****
* STARTUP PARMS FOR TIVOLI EVENT PUMP EVENT DISTRIBUTOR *
*****
REGTRACE=YES specifies whether the resource registration messages
* received from the Event Pump are written to the AOPEDLOG log file.
*
EIF_CONF=// 'TSL2.EVP422.GTMCONFG(PARNEIF)'
EIF_LOG=YES
*
LOG1=TSL2.EVP422.SYSG.LOG1
LOG2=TSL2.EVP422.SYSG.LOG2
TBSM=NO
*
04/041
Connected to remote server/host wlaa.tivlab.raleigh.ibm.com using Ljipool TCP40271 and port 23
```

The first step in enabling sysplex support for the Event Pump is to add the four parameters that are shown here to the Event Pump configuration member on all the systems in the sysplex. The parameters are SYSPLEX_SUPPORT, PORT, TCPIP_JOBNAME, and LOG_REQUEST.

Verifying that sysplex support is enabled and working

```

Session A - [27 x 132]
File Edit View Communication Actions Window Help
-----
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY BALPMP13 STC02119 DSID 102 LINE 112 COLUMNS 02- 133
COMMAND INPUT ==> _ SCROLL ==> CSR
09:18:59.986 *****
09:19:13.474 Try to connect to 9.42.46.25:8080
09:19:13.483 Connection to 9.42.46.25:8080 has been established
09:19:13.483 ----- Send data to IP address 9.42.46.25 -----
09:19:13.483 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
09:19:13.483 <ACTION>NOTIFY</ACTION> <SECURITY>K</SECURITY> <SMFID>SP13</SMFID> <IP>9.4
09:19:13.483 2.46.75</IP> <PORT>8080</PORT> </GTM>
09:19:13.539 ----- Received data from IP address 9.42.46.25 -----
09:19:13.539 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> </
09:19:13.539 GTM>
09:19:13.564 Try to connect to 9.42.46.25:8080
09:19:13.574 Connection to 9.42.46.25:8080 has been established
09:19:13.575 ----- Send data to IP address 9.42.46.25 -----
09:19:13.575 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
09:19:13.575 <ACTION>GETTRAPS</ACTION> <SECURITY>K</SECURITY> </GTM>
09:19:13.616 ----- Received data from IP address 9.42.46.25 -----
09:19:13.616 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> <R
09:19:13.616 ECORD>12066-----02\05\02STC\03GTMDSPC\040000000001\45Z\461EF403I"</RECORD> <RE
09:19:13.616 CORD>12066-----02\05\02STC\03GTMDSRVR\040000000001\45Z\461EF403I"</RECORD> <REC
09:19:13.616 ORD>12066-----02\05\02STC\03GTMDSRVR\040000000001\45Z\461EF403I"</RECORD> </GTM
09:19:13.616 >
09:19:13.642 ----- Received data from IP address 9.42.46.25 -----

```

Try to connect to...

Connection to... established

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When you start the second Event Pump instance in the sysplex, you see these two messages in the AOPSCLOG output DD statement. The first message indicates an attempt to establish a connection to the first instance. The second message indicates the successful establishment of the connection.

Verifying that sysplex support is enabled and working

```

SDSF OUTPUT DISPLAY BRPMPMSG STC26387 DSID 102 LINE 112 COLUMNS 02- 133
COMMAND INPUT ==>
09:19:13.578 *****
09:19:13.522 ----- Received data from IP address 9.42.46.75 -----
09:19:13.522 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
09:19:13.522 <ACTION>NOTIFY</ACTION> <SECURITY>N</SECURITY> <SMFID>SP13</SMFID> <IP>9.4
09:19:13.522 2.46.75</IP> <PORT>8080</PORT> </GTM>
09:19:13.534 ----- Send data to IP address 9.42.46.75 -----
09:19:13.534 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> </
09:19:13.534 GTM>
09:19:13.550 Try to connect to 9.42.46.75:8080
09:19:13.557 Connection to 9.42.46.75:8080 has been established
09:19:13.558 ----- Send data to IP address 9.42.46.75 -----
09:19:13.558 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM> <
09:19:13.558 ACTION>GETTRAPS</ACTION> </GTM>
09:19:13.605 ----- Received data from IP address 9.42.46.75 -----
09:19:13.605 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
09:19:13.605 <ACTION>GETTRAPS</ACTION> <SECURITY>N</SECURITY> </GTM>
09:19:13.611 ----- Send data to IP address 9.42.46.75 -----
09:19:13.611 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> <R
09:19:13.611 ECORD>12066-----02\05\02STC\03GTMDSPC\040000000001\45Z\461EF403I~</RECORD> <RE
09:19:13.611 CORD>12066-----02\05\02STC\03GTMDSRVR\040000000001\45Z\461EF403I~</RECORD> <REC
09:19:13.611 ORD>12066-----02\05\02STC\03GTMDSRVR\040000000001\45Z\461EF403I~</RECORD> </GTM
09:19:13.611 >
09:19:13.686 ----- Received data from IP address 9.42.46.75 -----

```

Instance 1 log shows contact by Instance 2

For example, in this AOPSCLOG, you see that instance 1 received the initial data from instance 2 after instance 2 established a connection.

Verifying that sysplex support is enabled and working

```

Session A - [27 x 132]
File Edit View Communication Actions Window Help
-----
Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY BALPMPSTG STC26387 DSID 102 LINE 112 COLUMNS 02-133
COMMAND INPUT ==> SCROLL ==> CSR
09:19:13.578 *****
09:19:13.522 ----- Received data from IP address 9.42.46.75 -----
09:19:13.522 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
09:19:13.522 <ACTION>NOTIFY</ACTION> <SECURITY>N</SECURITY> <SMFID>SP13</SMFID> <IP>9.4
09:19:13.522 2.46.75</IP> <PORT>8080</PORT> </GTM>
09:19:13.534 ----- Send data to IP address 9.42.46.75 -----
09:19:13.534 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> </
09:19:13.534 GTM>
09:19:13.550 Try to connect to 9.42.46.75:8080
09:19:13.557 Connection to 9.42.46.75:8080 has been established
09:19:13.558 ----- Send data to IP address 9.42.46.75 -----
09:19:13.558 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM> <
09:19:13.558 ACTION>GETTRAPS</ACTION> </GTM>
09:19:13.605 ----- Received data from IP address 9.42.46.75 -----
09:19:13.605 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
09:19:13.605 <ACTION>GETTRAPS</ACTION> <SECURITY>N</SECURITY> </GTM>
09:19:13.611 ----- Send data to IP address 9.42.46.75 -----
09:19:13.611 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> <R
09:19:13.611 ECORD>12066-----02\05\02STC\03GTMDSPC\040000000001\45Z\461EF4031"</RECORD> <RE
09:19:13.611 CORD>12066-----02\05\02STC\03GTMDSRVR\040000000001\45Z\461EF4031"</RECORD> <REC
09:19:13.611 ORD>12066-----02\05\02STC\03GTMDSRVR\040000000001\45Z\461EF4031"</RECORD> </GTM
09:19:13.611 >
09:19:13.686 ----- Received data from IP address 9.42.46.75 -----

```

Instance 1 returning a Connection Established message for Instance 2

Next, the initial instance sends notification to the second instance that it was able to establish a connection back.

Verifying that sysplex support is enabled and working

```

SDSF OUTPUT DISPLAY BALPMPG STC15846 DSID 102 LINE 112 COLUMNS 02- 133
COMMAND INPUT ==> _ SCROLL ==> CSR
-----
12:48:17.495 *****
12:55:50.733 ----- Received data from IP address 9.42.46.75 -----
12:55:50.733 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
12:55:50.733 <ACTION>NOTIFY</ACTION> <SECURITY>N</SECURITY> <SMFID>SP13</SMFID> <IP>9.4
12:55:50.733 2.46.75</IP> <PORT>8080</PORT> </GTM>
12:55:50.745 ----- Send data to IP address 9.42.46.75 -----
12:55:50.745 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> </
12:55:50.745 GTM>
12:55:50.761 Try to connect to 9.42.46.75:8080
12:55:50.768 Connection to 9.42.46.75:8080 has been established
12:55:50.768 ----- Send data to IP address 9.42.46.75 -----
12:55:50.768 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM> <
12:55:50.768 ACTION>GETTRAPS</ACTION> </GTM>
12:55:50.822 ----- Received data from IP address 9.42.46.75 -----
12:55:50.822 POST /GTMIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
12:55:50.822 <ACTION>GETTRAPS</ACTION> <SECURITY>N</SECURITY> </GTM>
12:55:50.828 ----- Send data to IP address 9.42.46.75 -----
12:55:50.828 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> <R
12:55:50.828 ECORD>12066-----02\05\02STC\03GTMDSPC\040000000001\45Z\461EF403I"</RECORD> <RE
12:55:50.828 CORD>12066-----02\05\02STC\03GTMDSRVR\040000000001\45Z\461EF403I"</RECORD> <REC
12:55:50.828 ORD>12066-----02\05\02STC\03GTMDSRVR\040000000001\45Z\461EF403I"</RECORD> </GTM
12:55:50.828 >
-----

```

Trading of
GETTRAPS
requests

After the connection between the two instances is established, each instance sends a GETTRAPS request to the other and then receives the other's traps. Depicted here is the sending of the GETTRAPS request.

Verifying that sysplex support is enabled and working

```

Session A - [27 x 132]
File Edit View Communication Actions Window Help
-----
Display Filter View Print Options Search Help
-----
SDFS OUTPUT DISPLAY BRLPMPG STC15846 DSID 102 LINE 128 COLUMNS 02- 133
COMMAND INPUT ==> SCROLL ==> CSR
-----
12:55:50.828 ----- Send data to IP address 9.42.46.75 -----
12:55:50.828 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> <R
12:55:50.828 ECORD>12066-----02\05\02STC\03GTMDSPC\040000000001\45Z\461EF403I"</RECORD> <RE
12:55:50.828 CORD>12066-----02\05\02STC\03GTMSRVR\040000000001\45Z\461EF403I"</RECORD> <REC
12:55:50.828 ORD>12066-----02\05\02STC\03GTMPPUMP\040000000001\45Z\461EF403I"</RECORD> </GTM
12:55:50.828 >
12:55:50.909 ----- Received data from IP address 9.42.46.75 -----
12:55:50.909 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>0</RC> <R
12:55:50.909 ECORD>12066-----02\05\02STC\03GTMDSPC\040000000001\45Z\461EF403I"</RECORD> <RE
12:55:50.909 CORD>12066-----02\05\02STC\03GTMSRVR\040000000001\45Z\461EF403I"</RECORD> <REC
12:55:50.909 ORD>12066-----02\05\02STC\03GTMPPUMP\040000000001\45Z\461EF403I"</RECORD> </GTM
12:55:50.909 >
12:56:13.945 ----- Received data from IP address 9.42.46.75 -----
12:56:13.945 POST /GTWIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
12:56:13.945 <ACTION>RMTEXC</ACTION> <COMMAND>GBLVGET NAME(GPZB.D81GRP.POLL.*) POOL(COMMON
12:56:13.945 ) INTO(GLOBAL_NAMES.)</COMMAND> <COMMAND_TASK>GPZDB23</COMMAND_TASK> </GTM>
12:56:14.962 ----- Send data to IP address 9.42.46.75 -----
12:56:14.962 HTTP/1.1 200 OK <?xml version="1.0" encoding="UTF-8"?> <GTM> <RC>4</RC> </
12:56:14.962 GTM>
12:56:15.045 ----- Received data from IP address 9.42.46.75 -----
12:56:15.045 POST /GTWIPSRV/SOAP HTTP/1.1 <?xml version="1.0" encoding="UTF-8"?> <GTM>
12:56:15.045 <ACTION>RMTEXC</ACTION> <COMMAND>GBLVGET NAME(GPZB.D81GRP.CL.*) POOL(COMMON
-----
04/021
-----
Connected to remote server /root.wlaa.bvlab.raleigh.ibm.com using /u/pool/TCP40183 and port 23

```

Shown here is the record of instance 1 sending traps to instance 2 and the instance 1 receiving traps from instance 2. Both instance 1 and instance 2 have the same set of traps registered. If a trap monitors a job on the system where instance 1 is running and the job moves to the system where instance 2 is running, the trap continues to monitor that job and application.

Summary

Now that you have completed this module, you can enable sysplex support for Tivoli Event Pump for z/OS to allow the monitoring of jobs that are able to run on any system in the sysplex.

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